



Elementary education at Nippur. The lists of trees and wooden objects

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Link to publication in University of Groningen/UMCG research database

Citation for published version (APA):

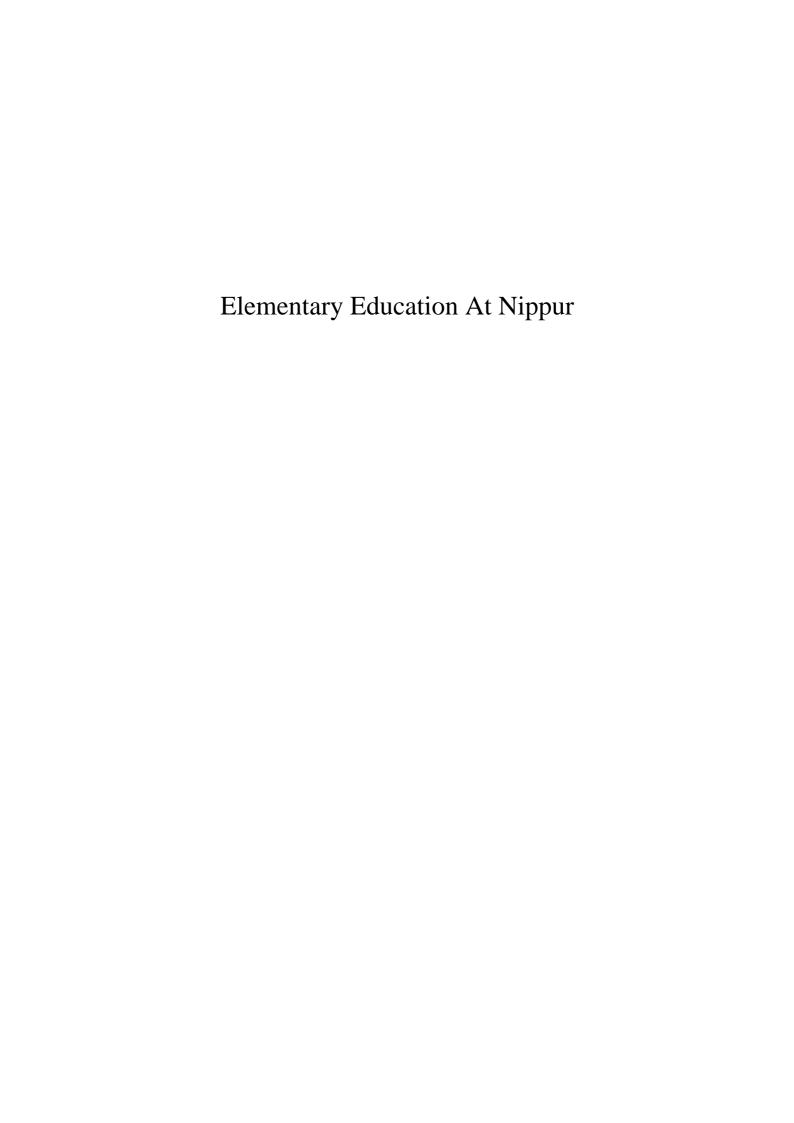
Veldhuis, N. C. (1997). Elementary education at Nippur. The lists of trees and wooden objects Groningen:

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RIJKSUNIVERSITEIT GRONINGEN

Elementary Education at Nippur.
The Lists of Trees and Wooden Objects

Proefschrift

ter verkrijging van het doctoraat in de Letteren aan de Rijksuniversiteit Groningen op gezag van de Rector Magnificus, dr. F. van der Woude, in het openbaar te verdedigen op donderdag 25 september 1997 des namiddags te 1.15 uur

door

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geboren op 3 september 1960

te Bergum, gemeente Tietjerksteradeel

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Preface

This dissertation is the result of a four-year project at the Department of Near Eastern Languages and Cultures of the University of Groningen. With this project the department partook in the research program 'Pre-Modern Encyclopedia' of the Centre for Classical Oriental Medieval and Renaissance Studies of the same university. The initiative for the project was taken by Dr H.L.J. Vanstiphout, who acted as my main advisor. He thus brought me back into Assyriology, and introduced me to an area of the field of which I was completely ignorant. I would never have dreamt of studying texts as boring as lexical lists. I soon learned that boring texts only exist by virtue of boring readers. I am very grateful to Dr Vanstiphout for pushing me in this direction, and for his unfailing enthusiasm and critical support of my work.

Prof. Piotr Michalowski, my second advisor, followed the progress of my work at some distance, but with no less interest. His hints and remarks have been more important than can be acknowledged in a single paragraph. At some of the crucial junctures in the research process he pushed me so gently in one direction that I almost convinced myself that I had invented it all on my own.

Prof. dr H.J.W. Drijvers acted as my promotor. Over the years he has actively supported my research. He carefully read a version of the manuscript, adding a number of important remarks. I was able to visit several foreign tablet collections thanks to financial support from the Netherlands Organization for Scientific Research (NWO) and the Faculty of Arts of the University of Groningen. To both organizations I would like to express my sincere thanks. Prof. Åke Sjöberg, then curator of the Babylonian Collection of the University Museum (University of Pennsylvania, Philadelphia) allowed me free access to the tablet collections under his care. On two occasions (February 1994 and August-December 1995) I benefitted from the hospitality and helpfulness of Prof. Sjöberg and his staff. Dr Steve Tinney prepared an extract from the computerized catalogue of the Philadelphia collection for me and shared with me his vast knowledge of Sumerian and cuneiform. His Index to the Secondary Literature proved to be of immense value. The late Dr Hermann Behrens gave me copies of the computer files in which he had entered numerous lexical and literary compositions. These files have been of enormous value in the process of writing this study. Prof. Erle Leichty helped me out with a number of practical matters, and was always ready to answer my questions. The informed reader cannot fail to see how important my visits to Philadelphia have been for the final results of my research. The sheer joy of working for a period of time in the pleasurable chaos of the tablet room is difficult to express in a few words. They were some of the most agreeable and inspiring months of the past few years.

Prof. J.A. Brinkman allowed me to use and publish the relevant texts from the collections of the Oriental Institute in Chicago. Prof. Miguel Civil discussed an early version of Chapter 2 with me, and shared with me his broad insights into the lexical traditions of Mesopotamia. Moreover, he allowed me to use his HyperText edition of Diri. Without this edition some parts of this study simply could not have been written.

My thanks are further due to Prof. W.W. Hallo for giving me permission to publish the relevant tablets in the Yale Babylonian Collection. I gratefully accepted his hospitality and stayed for one week in his house, which was a wonderful experience. Dr Ulla Kasten and Dr Paul-Alain Beaulieu helped me to use the resources and facilities of the Yale Babylonian Collection.

Prof. E.K. Gazda, curator of the Kelsey Museum of Archaeology (Ann Arbor), gave me per-

mission to publish an important lexical prism (KM 89542). Prof. Piotr Michalowski kindly relinquished his own publication rights.

Frau Dr E. Klengel-Brandt, curator at the Vorderasiatisches Museum (Berlin), gave me permission to collate a number of lexical tablets and to publish VAT 6588.

Prof. dr J. Oelsner, curator of the Frau Hilprecht Sammlung in Jena, allowed me to use the relevant tablets in this collection. Moreover, he gave me his handwritten catalogue of lexical tablets in the Hilprecht Sammlung, for which I would like to express my sincere thanks. Dr Andreas Fuchs was ready to assist in a number of practical affairs, and made my stay in Jena a pleasurable one in many different ways.

A three-month Henri Frankfort Fellowship at the Warburg Institute of the University of London allowed me to study Old Babylonian lexical texts at the British Museum in London and to collate a few tablets at the Ashmolean Museum in Oxford. I wish to thank Dr Christopher Walker, Keeper of the Department of Western Asiatic Antiquities, and the Trustees of the British Museum for their permission to publish material from their collections. Dr Eleanor Robson assisted me in the Ashmolean, and shared with me her insights, her enthusiasm, and her good humour.

Prof. dr H. de Roos, director of the Netherlands Institute for the Near East (NINO, Leiden) and Prof. dr K. Veenhof of the Department of Assyriology of the University of Leiden gave me permission to study the lexical tablets in the Liagre-Böhl collection.

Prof. dr C. Wilcke generously sent me his handcopies of the Isin lexical texts, which are to appear in the series *Texts from the Iraq Museum*. These texts proved to be very important, and I am most grateful to Prof. Wilcke for his permission to publish transliterations of some of them.

Dr Wilfred van Soldt shared with me his vast knowledge of the Middle Babylonian lexical tradition from Emar and Ugarit, and allowed me to use some of his articles before they appeared. Prof. dr M. Stol sent me a slow but steady stream of useful references to important articles and obscure publications. On various occasions he freely gave of his encyclopedic knowledge of the Assyriological literature, which proved to be of immense value.

Geerd Haayer was kind enough to give me a copy of his unpublished edition of the hymn 'Šulgi B', and discussed with me some of the difficult passages in this text.

Dr Bendt Alster allowed me to use the catalogue of tablets in his forthcoming edition of Old Babylonian proverb collections.

Dr Jeremy Black read the manuscript and made a number of helpful remarks. His comments included both corrections of various kinds and questions on matters of principle and method. I hope there will be an opportunity to discuss such matters in more depth in the near future.

Prof. Jerry Cooper read a version of the manuscript and added numerous helpful remarks. Far more than these remarks, it was his enthusiasm and his unfailing interest in what I was doing that put me greatly in his debt.

Dr Hans Harbers of the Faculty of Philosophy of the University of Groningen introduced me to the field of the sociology of education. I am fully aware that I have touched on this fascinating subject only superficially. I can only hope that the results of my analyses are interesting enough to sociologists and historians of education to start a more informed discussion.

I wish to thank Dr Julia Harvey for her painstaking correction of my English. She is, and most probably will remain, the only person who read §5.7 in its entirety. The correction was made possible financially by a grant from the Netherlands Organization for Scientific Research (NWO).

A number of people offered me their friendship, their hospitality, and their enthusiasm. I would like to mention here in particular Dr Herman Bongenaar, Dr David Brown, Ann Guinan, Dr

Beate Pongratz-Leisten, and Dr Walther Sallaberger. Their contributions to this study are difficult to pinpoint, but nonetheless clear to me.

The interdisciplinary environment in which this study was written brought together Ph.D. students with a wide range of interests. It was a pleasure to be a member of this unlikely collection of people working in Canonic law, Syriac historiography, Christian-Arabic apocalypse, late-medieval Dutch comedy, Carolingian book illustration, and many other subjects. I have learned a lot about all these subjects, and about the Humanities in general. Moreover, it was a place to make new friends, and to share the usual ups and downs related to long-term research projects. *Dat was gheselscap goet ende fijn*.

Prof. dr Hans van der Ven of the Department of Empirical Theology of the Catholic University Nijmegen taught me the importance of methodological and conceptual clarity, and showed me the possibilities and limitations of quantification. I hardly dare to hope that this study meets his standards. I am grateful for his teachings and for his sincere interest in my personal wellbeing, even when the pursuit of this wellbeing meant a farewell to Theology.

For Sietsia Padmos, my partner, living with an Assyriologist from time to time meant living alone, sometimes for several months. Supporting me whenever she could, she never allowed me to take the values and customs of academic life for granted. Without ignoring or repudiating my dedication to clay and history, she has always brought me back to the simple necessities of the day. I am, in short, grateful for both her support and her objections, and for keeping me in touch with the poetry of daily life.

Chapter 1 Introduction

By the end of the fourth millennium BC the administrators of Uruk, a city located in the very south of present-day Iraq, invented a new device to record their transactions. They created a system of symbols for numbers, commodities, and professions. These symbols were drawn with a stylus in moistened tablets of clay¹. This system of symbols is called archaic cuneiform and was the earliest form of writing. The Urukeans not only created this writing system, but also devised the tools to transmit it to a future generation. These tools consist of lexical lists. In addition to administrative texts the corpus of archaic texts contains lists of trees, domestic animals, fish, birds, professions, vessels, and so on.

The writing system was most probably invented by a Sumerian-speaking group. Sumerian is an agglutinative language, for which no cognate has been identified. Over the course of time cuneiform was adapted to record a variety of other languages. The most important of these was Akkadian, a Semitic language. Akkadian and Sumerian were probably spoken side by side throughout most of the third millennium in Southern Mesopotamia. By the end of this millennium Sumerian ceased to exist as a spoken language². It was retained for scribal and cultic purposes up to the end of the first millennium.

Lexical lists and bilingualism were to become two characteristic features of Mesopotamian written culture in the second and first millennia. Sumerian lexical lists were provided with Akkadian translations in order to preserve the knowledge of the now-dead language. In the second half of the second millennium BC the spread of cuneiform writing over much of the Ancient Near East coincided with the spread of Sumerian-Akkadian lexical lists³. In order to learn how to write, the scribal pupils of these peripheral regions had to master two foreign languages. They learned Akkadian cuneiform for their international correspondence, but the traditional connection between cuneiform and the bilingual lists was so strong that they could not do so without encountering Sumerian. In Mesopotamia proper in the first millennium the gradual rise of Aramaic, and later Greek, for both written and oral communication did not put an end to the transmission of Sumerian-Akkadian lists. At the very end of this history, in the Hellenistic period, Greek transcriptions were sometimes added to indicate the pronunciation of the ancient Sumerian words.

Over the millennia a wide variety of lexical lists had been created. The earliest examples were

An excellent introduction to the archaic writing system and its uses is found in Nissen, Damerow, and Englund 1990. It has been argued by D. Schmandt-Besserat that writing had a forerunner in tokens: small clay objects, impressed with what appear to be numerical signs or other symbols. Michalowski (1993, 1994) has rightly argued that the novelty of archaic writing is its character as a fully fledged system. The inventors may have borrowed a few isolated symbols from their use on tokens; as a system archaic cuneiform was a new invention.

The exact period in which spoken Sumerian ceased to exist is much debated. For this study the question is immaterial. It is important that it happened well before the Old Babylonian period.

A number of these lists are in fact unilingual Sumerian in their written format. It will be argued in subsequent chapters that the Akkadian translations were learned by heart.

thematically arranged. Other lists are arranged by sign form, or by phonemic principles, or they give synonyms in groups of three. The list format was also used to organize other kinds of knowledge, such as grammar paradigms and mathematics.

These lexical lists, in all their variety, have aroused interest on various sides. For lexicographers the value of these texts cannot be overestimated. The bilingual lists in particular (with occasionally a third, or even a fourth language added) are of direct relevance for semantic research. But the lists also drew the attention of students of intellectual history. Bilingual lists were interpreted as the oldest dictionaries; the oldest evidence of lexicographical interest. Grammatical lists have been described as the earliest documents of linguistics. Other scholars used lexical lists as evidence for Sumerian psychology. From an anthropological point of view the Mesopotamian lists were given pride of place in the contrast between oral and literate cultures.

Research into Mesopotamian lexical lists covers a long period of time, a wide variety of texts, and a whole spectrum of interpretative questions. This study will concentrate on Old Babylonian unilingual lists, as exemplified by the lists of trees and wooden objects. In this period (around 1700 BC) lexical lists are generally found on exercise tablets; they were part of the scribal education of the time. The educational function of the list will be a leading perspective of my investigations. In the present chapter I will briefly discuss the history of research (§1.1), the better to define my own approach and the questions I want to ask (§1.2). This will lead to some theoretical and terminological preliminaries. The final section of this chapter provides an overview of the structure of the study (§1.3).

1.1 History of Research

The history of research into Mesopotamian lexical texts may be roughly distinguished into two approaches: the dictionary approach, and the cultural history approach. The dictionary approach treats the ancient lexical texts as sources for our understanding of Sumerian, Akkadian, or the other languages included. The cultural history approach is interested in the uses of the lists, and their intellectual background. The dictionary approach has inspired the publication of editions of the most important lexical series, providing indispensable tools for Assyriological research. These editions have been used extensively by almost every Assyriologist to determine the meaning of individual words or expressions. The cultural history approach ranges from the analysis of the structure of a single lexical composition to the overall characterization of the Sumerian mind through their lexical writings. Some of its most important studies have not escaped controversy. The two approaches are not linked to stages in the history of Assyriology. In fact both have been practised side by side, often by one and the same scholar. In the following I will discuss the most important and most representative studies that have appeared so far.

1.1.1 Lexical Lists as Ancient Dictionaries

By around the middle of the nineteenth century the basics of the Akkadian writing system were

understood. The largest corpus of texts available to scholars was the so-called library of Assurbanipal, found in the ancient city of Nineveh. It was soon realized that another, still undeciphered, language was to be found among the extant tablets. This language proved to be Sumerian⁴. The reconstruction of Sumerian was, and still is, greatly hampered by the absence of any known cognate. The only access was provided by a number of bilingual incantations and other religious texts and by lexical lists. The latter were seen and used as ancient dictionaries, preserving the meaning of the Sumerian words and phrases for whoever was able to read Akkadian. Poebel, who wrote one of the earliest relatively complete and systematic Sumerian grammars (*Grundzüge der Sumerische Grammatik*, 1923) duly acknowledged his dependence upon what he called 'Von den Babyloniern selbst geschaffene Hilfsmittel zum Studium der sumerischen Sprache' (p.7). Having acquired a basic understanding of Sumerian through the lists, the early Sumerologists were able to apply and improve their knowledge of Sumerian with other texts. This development by no means diminished the importance of the lists for Sumerian lexicography. To the present day semantic studies of Sumerian (and, indeed, of Akkadian) invariably cite the evidence from lexical texts as a major source.

The material available in the lists was collected and rearranged for research purposes in A. Deimel's *Šumerisches Lexikon* (1928-1933). Reconstructions of individual lists were published by Meissner, Zimmern, and Landsberger. Matouš (1933) published a collection of lexical tablets in the Berlin Museum. In the introduction he discussed the first millennium version of the thematic lexical series ur₅-ra = *hubullu*. He gave an overview of the series and the *incipits* of its 24 tablets. The Finnish scholars Armas Salonen and Erkki Salonen utilized lexical lists as one of the main sources for their long series of semantic studies, covering such variegated fields as fishing, household utensils, weapons, boats, doors, and many other subjects. In some of these volumes partial reconstructions of lexical lists appeared. It was B. Landsberger who saw the importance of reconstructing all lexical lists in their entirety. In 1937 the first volume of *Materialien zum sumerischen Lexikon (MSL)* appeared. At this moment 16 of a projected 18 volumes are available (volumes 15 and 18 are still unpublished). In a Supplementary Series additional texts and editions are made public. The series has become a monument of Assyriology and an invaluable tool for every researcher.

Today, *MSL* is the main and most important example of the dictionary approach to the lists. The earlier volumes of *MSL* pay little attention to tablet types, regional variation, or context. The editions are mostly compounded from tablets of various origins and types, and it is no easy task to find out what is on an individual tablet. Neo-Babylonian exercise tablets generally combine extracts from lexical compositions and literary texts in a fixed sequence. One searches in vain for such information in the early volumes of *MSL*. Not the tablet, but the text was the main interest. The relevant passage was simply incorporated in the eclectic text, regardless of the context in which it appeared. Without exaggeration, therefore, one can say that *MSL* was designed to provide as many lexical Sumerian-Akkadian equivalences as could be found. The reconstruction of the lexical series was a method, not an aim. From a modern point of view it is easy to criticize this basically a-historical approach. Such criticism, however, is a-historical in itself, since the series was started in another time, with other scholarly needs and questions. In more recent

The existence of Sumerian as a language independent of Akkadian has long been controversial. The history of this controversy may be found in Weissbach (1898) and Jones (1969). For one of the main protagonists, Joseph Halévy, see Cooper 1991 and 1993a.

volumes of the series the shortcomings of the original format have been recognized. Beginning with volume 12, the editions are preceded by very informative introductions on the history of the composition edited and on the tablets and tablet types on which it is found. It is important when using *MSL* to realize its nature, and to appreciate the strengths and weaknesses of the individual volumes. This is particularly true for research asking questions of cultural history; the kind of questions for which *MSL* was not originally designed.

At the present moment nearly all first millennium lexical texts have been edited in one of the volumes of MSL^5 . This is not the case for the unilingual Old Babylonian versions of these same lists. From volume 7 on these versions are systematically included. So far no edition has appeared of the Old Babylonian counterpart to the list of legal phrases ki-ulutin-bi-še₃ = ana ittišu (see §2.4.1.3), nor of the 'forerunners' of the list of birds and fish and the list of wild animals. The latter two were to appear in MSL 8/3, which never appeared. For the list of trees and wooden objects selected passages were edited in MSL 4 and 5, but no systematic reconstruction of the whole composition was attempted.

The earliest lists from Uruk in archaic cuneiform have recently been published in *Archaische Texte aus Uruk*, Volume 3 (Englund and Nissen 1993). The volume is the first in a series of text volumes, intended to cover the whole corpus of archaic cuneiform from Uruk. The lexical lists were given priority, in the expectation that they would prove helpful in the decipherment of contemporary administrative texts. For this reason the volume may be regarded as an example of the dictionary approach. However, the authors provide the reader with all the information needed for an evaluation of the texts from other points of view. There is the necessary information on tablet types, archaeological context, relations with later versions, and the amount of variability found in various compositions. Thus *ATU* 3 marks a new standard in the publication of lexical texts.

1.1.2 Lexical Lists as Evidence for Cultural History

The cultural history approach has always accompanied the use of lexical lists as a dictionary. Within this approach three complexes of questions may be distinguished: the history of the lexical tradition, the uses of lexical texts, and their intellectual background.

1) An early overview of the lexical corpus is found in Meissner's *Babylonien und Assyrien* II (1925). This volume was entirely devoted to Mesopotamian science. This science, according to Meissner, was basically a theology (p.1). All other sciences were subordinate to religious knowledge, including, for instance, cosmology, magic, and mantics. Philology, history, mathematics, and astronomy existed but were not dealt with in a scholarly fashion. Their treatment, according to Meissner, was restricted to areas of practical interest. Against this background he interpreted a wide range of lexical lists as philological tools. Though partly obsolete, his discussion is still well worth reading, not least because of the illustrative quotations from

The most important exception is Diri, the list of complex signs, which is planned for *MSL* 15. First millennium Akkadian synonym lists (such as *malku* = *šarru*) fall outside the scope of *MSL*.

a wide range of lexical compositions.

More recent histories of the lexical tradition have been written by Civil (1975a; 1995) and Cavigneaux (1983). Both of Civil's articles are short but very informative. Cavigneaux's lengthy article in the *Reallexikon der Assyriologie* contains references to all lexical texts known by that time. By its nature this article is more a bibliography than a history in the strict sense of the word.

2) The uses of lexical texts are primarily studied by means of the tablet types on which the texts are found. The details of such a typology can inform us whether a lexical text was written for subsequent storage in a library, or rather as an exercise to be discarded when the work was done. The typology has been studied most extensively for the Old Babylonian period. One of the most important - and almost forgotten - studies is Chiera's introduction to his edition of the Old Babylonian lists of personal names from Nippur in PBS 11/1 (1916). Though lists of personal names are not lexical by modern standards, they belong to the same corpus of school texts, and exhibit the same formal features. Chiera's discussion of tablet types, and of various details demonstrating how such tablets were inscribed, is still useful and has not in fact been superseded. The discussion of Old Babylonian tablet types was not taken any further until the seventies. Civil then not only gave each tablet type a formal label, now generally accepted, but also discussed the relative reliability of the various types for a reconstruction of Old Babylonian lexical lists. Falkowitz planned to devote separate studies to the exercise types found in Old Babylonian Nippur. Regrettably, only one such study appeared, discussing the round, lentil-shaped school tablets (Falkowitz 1984). No attempt has been made so far to study the tablet types as a functional system. For other periods tablet typology has received even less attention. Van Soldt (1991 and 1995) dealt with the typology of Middle Babylonian lexical tablets from Ugarit and Emar. He was able to reconstruct the curricular order of the exercises, and to determine the function of each of the tablet types. Kassite school tablets still await systematic treatment (see, however, Civil 1995). Neo-Babylonian school tablets have been discussed briefly by Maul (1991) and by Cavigneaux (1981). A comprehensive account of Neo-Babylonian school texts from Sippar in the British Museum is being prepared by Petra Gesche.

Another way to approach the use of lexical texts is by an analysis of their contents. To some extent this question was treated by Çi_, Kizilyay, and Landsberger (1959) in their edition of two Old Babylonian lists of signs, labelled TU-TA-TI and Syllable Alphabet B⁷. The authors demonstrated that these texts were meant for beginners. Most treatments of the contents of the Old Babylonian curriculum, however, are not based upon the evidence of extant exercise tablets, but depend on Sjöberg's classic article on the Old Babylonian school (Sjöberg 1975). Sjöberg's most important sources were the so-called Eduba texts. The eduba is the Old Babylonian scribal school. Eduba texts are literary texts which have as their main theme the school and school life. They depict a school where writing, language, mathematics, and music belong to the main subjects.

3) The intellectual background of the lexical tradition may be studied by analyzing the

These discussions are found in the introductory sections to the Old Babylonian versions in *MSL* 10-14. Civil's tablet typology is now most conveniently summarized in Civil 1995.

Both compositions will be treated in §2.4.1.1.

organization of the texts. An important early contribution to this line of research was Schuster's article 'Die nach Zeichen geordneten sumerisch-akkadischen Vokabulare' (Schuster 1938) In this contribution Schuster's first concern was the reconstruction of the first millennium sign lists S^a, S^b, and Aa/Ea⁸. As Schuster perceived,, these series are somehow related. In sign lists of this period a sign is linked to a Sumerian pronunciation gloss, an Akkadian translation and in some cases a sign-name. In addition to this horizontal organization the lists have a vertical organization in the succession of signs treated. For the vertical organization Schuster identified a number of principles, including sign form, sign value (sequence according to the vowels u-a-i), and meaning. It was only in 1976 that Cavigneaux, in his unpublished dissertation, made the next serious step. His work concentrated on the horizontal aspect of the bilingual sign list Ea. Some entries are rather far removed from our idea of translation or dictionary, and can only be understood from the reconstruction of complicated lines of reasoning.

Grammatical lists have been studied as a source for understanding ancient linguistics (Jacobsen 1974). Jeremy Black studied the system behind verbal and other paradigms in his *Sumerian Grammar in Babylonian Theory* (1984)⁹. For the understanding of these lists the sequential principles are of vital importance. Much of the information is not found in the single entries, but only in their serialization. The Babylonian scribes sometimes invented impossible Babylonian forms, in order to illustrate the system behind the Sumerian verbal paradigm.

Quite another approach to the intellectual background of the lists is von Soden's essay 'Leistung und Grenze sumerischer und babylonischer Wissenschaft', originally published in 1936. The author's intention was to understand the lists as products of the nature of the Babylonian and Sumerian races. He put a great deal of effort into differentiating between Sumerian and Babylonian contributions to the growth and development of the lexical tradition (pp.413-415; and *passim*). The Sumerian component was most importantly 'Ordnungswille', a driving force that the author saw expressed everywhere in Sumerian culture, from political organization to religion. The Babylonian reinterpretation of the lexical tradition was of a much more practical character. The theological concept of 'Ordnung' was unknown to them, and so they misunderstood the deeper significance of the lists. According to von Soden the Babylonians redefined the lists as dictionaries, even though the format was hardly appropriate for this use (see pp.427-432).

Von Soden's essay contains a comprehensive overview of the Mesopotamian lexical tradition. In a time when the reconstruction of the lists had only begun in a piecemeal fashion this was an ambitious undertaking. His theoretical assumptions are clearly inspired by the racist politics of the time which made the definition of the nature of the Sumerian and Babylonian races an important topic. The failure of both to reach a level of scholarship comparable to that of the ancient Greeks and Indians is finally explained by racial differences. Real scholarship belongs to the nature of the Aryan or Indogermanic race (pp.555-557). In this approach von Soden was not alone. Becker (1985) has demonstrated the racist background of the assumed Sumerian-Semitic conflict which figures as a taken-for-granted historical fact in research and terminology down to the present day. In post-World War II publications the topic was divorced from its anti-semitic

Lists treated briefly by Schuster are S^c, Diri, Izi, and Kagal. All these compositions will be discussed in Chapter 2 of the present study.

See also Civil 1994a and Reiner 1994.

and racist overtones, but did not lose its significance¹⁰. In later publications von Soden slightly modified his theses, disposing of the original racist elements, but without altering the basic assumptions that justified them. His explanation of the lists as being founded in the Sumerian 'Ordnungswille' was retained, as well as the intention to differentiate between Sumerian and Babylonian contributions¹¹. That his openly racist original thesis was reprinted twice - adjusted with some bibliographical addenda, but otherwise unmodified - is a black page in the history of Assyriology.

Oppenheim forcefully rejects the naive identification of linguistic, ethnic, and racial categories (Oppenheim 1977, p.48). He dismisses the term 'Ordnungswille' as a quasi-mythological concept. To this critique Larsen rightly adds that 'Ordnungswille' is hardly unique to Sumerian thinking, but rather represents a universal human trait (1987, p.210). Oppenheim stresses what he calls the operational element in the history of the lists. The lists do not coerce the contents of what is written or the thinking of the scribes. They provide a format that is ready for use for all kinds of contents (Oppenheim 1977, p.248f.)¹².

Mesopotamian lexical lists play a prominent role in the theories of literacy by the anthropologist J. Goody¹³. The problem with which his argument starts is the Great Dichotomy: anthropologists and philosophers have proposed numerous explanations to account for the differences in cognitive styles between 'primitives' and modern men. The difference was formulated in evolutionary terms (social Darwinism), or as a difference between 'hot' and 'cold' societies (Lévi-Strauss). Goody argued that the introduction of new technologies of communication may at least partially account for changes in modes of thought. Such changes include the invention of writing, the invention of the alphabet, and printing. Writing is not the mere recording of speech. Writing introduces new textual formats, with new requirements. One example is the list. In a list the words or names are decontextualized, and therefore allow for kinds of analysis that do not come to mind as easily in oral situations. The technique of writing provides new possibilities for the organization and retrieval of data. Among the examples Mesopotamian lexical lists play a prominent role. Goody's theory and the criticisms it has provoked will be discussed more fully in §4.2. Unfortunately, Larsen's complaint that in Assyriology Goody's challenge has generally been met with silence, and that literacy in Mesopotamian society is too much taken for granted (Larsen 1987, p.218), has lost none of its relevance.

1.2 Research Questions

Put in the most general terms, the question that this study seeks to answer is: what is a lexical

The idea of a Sumerian-Semitic conflict was recently revived by A. Westenholz (1993). The conflict is one of the main ingredients in Volk's historical-political analysis of Inanna and Šukaletuda (Volk 1995, especially pp.25-40).

See von Soden 1960; 1973; and 1985, pp.138-164. For a critique of von Soden's concept 'Listenwissenschaft' see §4.1.

See also Oppenheim 1978, and §4.1 of the present study.

The most elaborate version of his thesis is found in Goody 1977.

tablet? Most commentators so far have concentrated on reconstructions of lexical compositions, rather than on the clay tablets on which they are preserved. The first step in all research has been the reconstruction of the composition at hand from the bits and pieces kept in museums all over the world. The second step, if a second step was carried out at all, was the interpretation of the composition thus obtained. However, to understand the actual use of the lexical tradition we need to complete the circle and go back to the physical objects upon which this tradition came down to us. We need to understand why and in what context the text was put into writing. The use of lexical compositions is not a matter of mere speculation. We have first-hand evidence in the actual tablets on which contemporaries copied them. These tablets prove to be exercise tablets, used in the scribal school. Our question will lead us, therefore, to the organization and identity of Old Babylonian education. What can the tablets tell us about the Old Babylonian school, about its methods and the subjects taught? What kind of education is represented by the corpus of school tablets? What did the Old Babylonian teacher try to convey when he instructed his pupils to copy a lexical extract? Mesopotamian lexical texts are usually described as Mesopotamian science. Is this description correct, and what does it mean in the context of the scribal school? The answers to such questions are not found by minute investigations of small details alone. Nor are they revealed by merely sketching the broad outlines of the curriculum or the compositions involved. It is only from a combination of both approaches that a picture emerges which may profitably be interpreted by means of models developed in the social sciences.

I have selected as the focus of my research the Old Babylonian list of trees and wooden objects from Nippur. The concentration on this particular list is inspired by two considerations. In the first place the Old Babylonian period represents a new beginning in the history of the lexical tradition. There is a clear break in the lexical tradition between the end of the third and the beginning of the second millennium. The new tradition that was created has an unbroken transmission until the end of cuneiform civilization. It has been customary in Assyriological publications to label the Old Babylonian versions as 'forerunners' of their first millennium counterparts¹⁴. In the Old Babylonian period thematic lists are always unilingual Sumerian. Implicitly this format is conceived of as an imperfect preliminary stage of the impressive first millennium Sumerian-Babylonian dictionary. The form and function of the Old Babylonian text has, therefore, only occasionally been the object of serious reflection. Due to this perspective, Old Babylonian texts have been edited in MSL according to the tablet division in their first millennium counterparts. Thus the edition of the late list of domestic animals is followed by the edition of the corresponding Old Babylonian list (MSL 8/1). This obscures the fact that in Old Babylonian Nippur the list of domestic animals represents only the first section of a text that continued with wild animals and meat cuts (see §2.4.1.2). From an Old Babylonian perspective the first millennium versions appear as late descendants, sometimes as deformations of an original creation of the Old Babylonian scribes. Taking a point of departure in this period promises to provide a fresh look at the history of the lexical tradition. The second reason to concentrate on the Old Babylonian list of trees and wooden objects is that this composition has remained unpublished so far. Making an edition of this list is a direct way of becoming familiar with the corpus and its problems.

For a critical discussion of the term 'forerunner' see Farber 1993. Curiously, the only text type for which he finds the term justified is the Old Babylonian lexical list.

The intention of this study is to combine a variety of approaches and questions, to understand the organization, use, and function of a single lexical composition as an example of the lexical tradition in Mesopotamia. In order to understand the Old Babylonian lists of trees and wooden objects we will broaden our scope to the scribal school. We will locate the list in the scribal curriculum, and define its function among other exercises. At the same time we will narrow our scope to the individual tablets on which the composition is found. The educational unit in the school is not in the first place the lexical composition but the extract tablet. The relation between extract and composition will be one of the main points of interest. Variants found in the individual tablets will have the status of major witnesses.

This approach has not been attempted before, and poses a number of new or relatively new methodological problems. In the first place the focus on the tablet rather than on the reconstructed text seems to be contradicted by the effort put into the reconstruction of the list of trees and wooden objects in Chapter 5. In fact, such a reconstruction is inevitable. Unlike most Medieval or classical Greek and Roman compositions, we never have a single manuscript which may be regarded as the 'best' manuscript by whatever criterion, and which can be used as the main text. Most of our manuscripts were inscribed with no more than an extract of 2, 10, or 150 lines. Moreover, all or nearly all of them are broken; a small fragment is usually all that remains. It is a matter of practical necessity to reconstruct a composite text from the shattered fragments. This is often the only way that fragmented or half-erased tablets become legible. The methodological focus on the tablet rather than on the reconstructed text must not be taken to imply that each tablet has to be studied as an isolated piece of evidence. Furthermore, the reconstructed text has an important function as a frame of reference. An extract is always an extract from something, and implicitly refers to the entire composition from which it is taken. In our discussion of the organization of the list of trees and wooden objects the point of departure is the composite text. However, wherever variants are encountered the evidence is traced back to the individual tablets. For this approach the edition has to comply with specific requirements. It must be possible to examine the reconstructed text as easily as the individual tablets. The methodological questions concerned and the editorial techniques used are discussed in more detail in the introduction to the edition in Chapter 5.

The second methodological problem is inherent to the matter of the representativeness or non-representativeness of the list of trees and wooden objects. In analyzing the organization of this list, do we learn anything about other Old Babylonian lexical compositions? The organization of the list is uncovered by analyzing sequences, and by identifying the principles that govern such sequences. If, however, the principles identified turn out to be specific for this single list, their existence as principles may well be doubted. They may be due to sheer chance. As a matter of fact this possibility can never be completely excluded. The problem of representativeness cannot be definitely solved. It may be accounted for, however, by referring to other lexical compositions whenever relevant. It turns out that the list of trees and wooden objects is representative in some aspects, but not in all. It differs significantly on a number of points from other contemporary lexical texts. Both the unique and the common features will be discussed, so as to obtain a differentiated picture of the Old Babylonian lexical corpus.

The third methodological problem may be summarized under the heading 'knowledge and literacy'. Our evidence for Mesopotamian society and culture is restricted to those material objects which have survived the centuries. Clay tablets with writing happen to be among such

objects in great numbers. It would be a great mistake, however, to extrapolate from these inscribed objects directly to Mesopotamian thinking or mentality. Writing is a technique that may be put to different uses. Cultures vary enormously in these uses. In Mesopotamian culture the uses of literacy vary over time and place. The totality of what is put into writing is not equivalent to the totality of the knowledge available at a given point in time. It will be necessary to analyze the reason why something was written down to understand what the relation is between a text and the culture that produced this text. To understand the intellectual background of lexical lists we need to understand the uses of literacy in the period under consideration, and how these uses apply to lexical tablets. The written corpus has a context in an intellectual environment which is in all probability much wider in content and method, and may be considerably more variegated. The term oral tradition is hardly suitable to refer to this wider circle because it not only includes compositions transmitted orally, but also ways of reasoning and interacting intellectually, which are institutionalized in the sense that they obey standardized patterns. Precisely because such matters leave little or no trace in the written documents, there is little hope of being able to reconstruct the wider intellectual environment of the lexical lists to any degree of completeness. The awareness of the limited nature of our corpus may sharpen our eyes for whatever traces the texts yield of this 'unwritten' intellectual context.

These methodological issues will be taken up again in the appropriate chapters. The relation between reconstructed text and individual tablet may be reduced in the main to a technical problem, which may be solved by technical means. The other two points, however, touch upon matters of a more principled nature and show some of the fundamental limitations to our knowledge of the past.

1.3 Structure of the Present Study

The argumentative part of this study is divided over three chapters. Chapter 2 deals with the Old Babylonian lexical tradition. The corpus is described principally as an educational corpus. The primary aim is the reconstruction of the sequence in which the scholastic compositions were taught. This reconstruction is based upon the analysis of the co-occurrence of different exercises on the same tablet. This will lead to a new picture of the scribal curriculum. The compilers of the Old Babylonian lists did not start from scratch. The description of the Old Babylonian school and its curriculum is therefore preceded by a short treatment of third millennium lexical lists. The chapter is concluded with a discussion of the transmission of the lexical corpus to later periods.

In Chapter 3 the focus will be narrowed to one lexical composition: the Old Babylonian list of trees and wooden objects from Nippur. We will investigate the organization of this list on different levels of analysis. It will turn out that some of the organizational principles identified in the Old Babylonian text are, at the same time, generative principles, governing the development of passages over time and the production of new items. The comparison of the Nippur text with later versions of the list is, therefore, an essential part of the analysis. Moreover, the relations with other lists and with literary texts are discussed. By doing so, the focus is widened again to investigate the place of the thematic lists in the Stream of Tradition.

In Chapter 4 the results of our investigations are used for a more theoretical evaluation. We will introduce the concept Science of Writing, and defend its plausibility by referring to theories on

the sociology and history of knowledge. By necessity Chapter 4 is the most speculative part of our inquiry. It tries to make sense of the data discovered by comparing them with models developed in other disciplines.

Chapter 5 provides the textual basis for our discussions. It contains an edition of the Old Babylonian lists of trees and wooden objects, with a philological commentary and a tablet catalogue. The Nippur version constitutes the core of this edition. A number of non-Nippur tablets are edited separately. The reconstruction of the Nippur version is based upon more than 350 tablets and fragments mainly from the museums in Philadelphia, Jena, and Chicago, nearly all of which have been examined by autopsy. These fragments allow for an almost complete reconstruction of the roughly 700 lines of the list. As argued above the reconstruction is a modern reconstruction which does not and cannot truly reflect a text that existed in antiquity. It is, therefore, of prime importance to be able to switch from the reconstruction to a single tablet, and *vice versa*. For that reason the edition is also provided in a digitalized version, in the form of a database. In the database the text may be approached in different ways, simply by changing the active index.

Chapter 5 is followed by two appendices. The more important of these is the description of the Catalogue of Nippur Lexical Texts in Appendix 1. This catalogue is the main corpus of data on which the description of the Old Babylonian curriculum is built, and is therefore of prime importance to the argument in Chapter 2. Appendix 1 describes the contents of this database, and gives an impression of its reliability and its relative completeness. Appendix 2 contains two concordances of the sigla used in this study (museum number - siglum and previous publication - siglum). The study concludes with a number of plates with handcopies of some of the cuneiform tablets edited in Chapter 5.

Chapter 2 Old Babylonian Thematic Lists in their Educational Context

Mesopotamian lexical lists are of various kinds. A major distinction may be made between word lists and sign lists. Sign lists treat the (Sumerian) values of signs, and often add an Akkadian translation. Word lists include thematic lists, acrographic lists (ordered by the first or main sign of the word), and synonym lists. The series ur₅-ra = hubullu is the most important thematically arranged word list. It covers a variety of subjects, such as trees, wooden objects, reed and reed objects, metals, animals, stones, plants, clothing, geographical names, and foodstuffs. Strictly speaking ur₅-ra = hubullu, or in short ur₅-ra, is the name of the post-Old Babylonian version only. Sumerian ur₅-ra and its Akkadian equivalent hubullu denote a kind of loan. It is the incipit of a series of business expressions which fill the first two tablets of the late recension. These two tablets were added after the Old Babylonian period. The incipit of the Old Babylonian version is gištaskarin (boxwood). In this study the term 'Old Babylonian ur₅-ra' will be used as a convenient, though anachronistic, label.

Old Babylonian ur₅-ra was not created *ex nihilo*. Therefore, we will first pay attention to earlier thematic lexical texts.

2.1 Third Millennium Predecessors

2.1.1 Archaic Lexical Lists

The archaic lexical lists have recently been edited by Englund and Nissen (1993). The corpus mainly consists of small fragments, the majority of which could be attributed to one of several compositions, most of which are known from later third millennium sources. The identified lists include lists of professions (LU A), Fish, Cattle, Vessels, and Wood¹.

There is no way of knowing the degree to which the archaic lexical corpus may be taken as a representative sample. Archaeologically all tablets derive from secondary contexts. The layers in which they were found were disturbed by building activity from a much a later period. The tablets were removed from their original place of storage. What we have, therefore, is not an archive or a library, but the scattered remains of something that can no longer be reconstructed. Some 125 fragments could not be attributed to any composition. It is possible that some of these belong either to one of the known compositions, or to one as yet unrecognized. Other pieces may not belong to any standardized composition but may be incidental lists of words, or perhaps incipient compositions which were later abandoned. An example of this last possibility may be the so-called Swine list. The two tablets subsumed under this heading only share occasional entries and do not represent one common text. Still, both follow more or less the usual format of the archaic lexical texts. Each entry is preceded by the item sign (the sign otherwise used for the numeral 1), and contains a sign that is interpreted as ŠUBUR (swine)².

The lists are given their conventional labels here. For a summary of the contents of these and other archaic lists the reader is referred to the introduction to Englund and Nissen 1993.

The interpretation of this sign, however, is controversial. Another option is 'servant' (Steinkeller 1996,

Research in the archaic lexical lists is still in its infancy, since the textual basis for such research has only been available in a useful format since 1993. The reconstructions prove that from the outset the archaic lists were standardized. The variants in writing and order of the items are mostly marginal³. More difficult is the matter of the textual status of these lists. So far no fragment may be shown to have contained a single composition in its entirety. All the pieces are exercises which excerpt a larger composition. Probably these larger compositions primarily existed in the memories of those who had learned them by heart, and were, as such, rarely put into writing.

Archaic lexical lists were found together with large numbers of contemporary business documents. The kind of notation that is used in these business documents has a very limited need for verbs - if any. It seems that writing was conceived of as a series of signs, representing either things in the real world, or numbers. This may explain why the archaic lexical lists are lists of nouns. The system of writing in these documents does not reflect the grammar of the language. Rather, it more or less reflects the structure of the bureaucratic operation recorded⁴. From the very beginning words for trees and wooden objects, fish, and birds are graphemically indicated by a special sign, the so-called determinative. Determinatives have no pendant in the language. They establish a direct relationship between graphemics and semantics. For this reason it often makes little difference whether we consider the lexical lists as being organized by thematic or by graphemic principles.

There is no one-to-one relation between the repertory of signs and words in the lists, and the vocabulary used in business documents. The archaic lexical lists contain numerous items which never appear outside this corpus. The list of vessels has a number of compound signs consisting of the sign for vessel (DUG) inscribed with some commodity. The compound sign denotes a vessel intended for, or filled with, that commodity. Some of these signs are attested in business documents but most of them are not. Such signs were labelled theoretical signs by Krispijn (1992, p.14). The term is felicitous because the signs demonstrate to us as well as to the ancient student the theoretical possibilities of the writing system. The list does not merely enumerate existing signs, but demonstrates one element of the system behind the sign inventory. Another case in point is the list of officials called LU A. It is very probable that this text gives a hierarchical inventory of professions and bureaucratic titles. The first entry - NAMEŠDA - is presumably the title of the highest official of archaic Uruk. Most of the signs used in this list are well known and widely used outside the lexical corpus. However, the signs are combined to refer to professions which never or hardly ever appear in administrative texts. In fact there are only a few entries in LU A which are attested elsewhere⁵. Various explanations may be put forward. The hazards of excavation may have yielded an unbalanced picture. A more plausible explanation is

p.212f.).

The exception is the Wood list, which is only standardized in its first section.

For the role of layout in the archaic documents see Green 1981.

On the archaic LU list see Nissen, Damerow, and Englund 1990, pp.153ff. There the officials that appear in business documents are discussed.

that some professions are more likely to appear in the administrative record than others. The list represents the hierarchy of archaic Uruk; the question of whether the entries listed were likely to occur in business documents was of no relevance to its compiler. If the lists were nothing but reference books for scribes in the administration, then the design and subsequent transmission of signs and entries which never appear in their records would seem to be unmotivated and useless complications. But the lists were more than just that. The apparent reason for the composition of the early lists was to facilitate, explore and expand the new recording technique.

2.1.2 Later Third Millennium Sources

Textual finds from Fāra in Southern Babylonia and Abū salābīkh in Northern Babylonia show that in around 2600 BC there was a standardized corpus of lexical and literary texts. In essence the lexical corpus is the same as that from archaic Uruk. Some lists are slightly reworked (the list of Animals⁶), others have been copied virtually verbatim (LU A). The god list is an example of a text not attested before. Since the history of this corpus has recently been studied by several authors⁷, I will restrict the discussion to some characteristics of prime importance in the present context.

The most striking feature of the third millennium lexical tradition is its textual stability. Texts copied over several centuries and in different centres in and outside the Mesopotamian heartland hardly changed. Most of the published sources originate in the first half of the period under discussion. It is now becoming increasingly clear that in the period of the Third Dynasty of Ur (2100-2000) the same texts were still in use⁸, at least in Nippur. By that time some of them had a history of about a millennium. The list that is found in most exemplars is the list of professions (LU A). It was devised in the archaic period and was still copied occasionally in Old Babylonian times⁹. Nearly every site where third millennium school texts have been found yielded at least one copy. The social and political changes that affected Mesopotamia during the third millennium must have made this list obsolete at an early period. The text commonly labelled Early Dynastic LU E is a modernized list of professions¹⁰. Here we find well-known titles and professions such as dub-sar (scribe), ensi₂ (governor, or king), and nu-banda₃ (supervisor), not found in LU A. Even though LU E was clearly more up-to-date in its contents, it never replaced LU A, which continued to be copied long after LU E was apparently forgotten.

The uses and the system of writing changed profoundly during the millennium between the

⁶ See Veldhuis 1995.

Cavigneaux 1983, pp.612-616; Nissen 1981; Michalowski 1987; see further the editions of most important lists by Pettinato in *MEE* 3 (1981) and the introduction to Englund and Nissen 1993.

⁸ See §2.1.4

See the edition in Arcari 1982, and for the archaic sources Englund and Nissen 1993. Add further the prism fragment *FAOS* 2/1, Tafel 92 F20 (Old Babylonian; Kisurra). Old Babylonian copies with glosses are: *UET* 7, 86; U. 30497 (Civil 1983b, p.1 with n.2); and BM 58680 (unprovenanced).

See MEE 3, pp.27-46,; and MSL 12, pp.16-21, in particular the introduction p.16.

earliest texts and the start of the second millennium. From a one-purpose system, devised to record administrative transactions it grew into a multi-functional device, used for such different things as royal propaganda, long-distance communication (letters), magic, proof of ownership of land, and poetry. The system of writing underwent profound changes, both in the design and in the uses of the graphemes. All this means, again, that by early in the third millennium the lexical lists must have been out of date. We are, therefore, all the more impressed by the force of the tradition that kept them in use.

The stability of this tradition, however, should not blind us to changes in use. The later third millennium sources are not the products of pupils¹¹. They are almost always written by advanced scribes. In most cases a tablet has the entire text of one lexical list. The archaic lists were apparently created as educational tools. In F_ra and Ab_ alabikh the lists have turned into sources of esteemed knowledge of high antiquity.

2.1.3 Ebla

A special place within the history of lexical lists is occupied by the finds from the ancient town of Ebla (modern Tell Mardikh in Syria). This town adopted the cuneiform system of writing in the twenty-fourth century BC. Together with the writing system the literary and lexical tradition was imported ¹². Literacy was transmitted from Kiš, which was the most important centre in Northern Babylonia ¹³. The lexical texts found in Ebla basically represent the same tradition as that known from Mesopotamia a few centuries before ¹⁴. In some respects, however, this corpus is adapted. There is a large bilingual Sumerian - Semitic ¹⁵ list. Well-known lexical compositions were sometimes written in unorthographic spelling ¹⁶. In these texts the entries are not given in the common orthography, but provide the pronunciation of the Sumerian words. In the so-called Ebla syllabary we find another innovative use of a traditional composition. This syllabary is a sign list that uses the order of the items in the list of professions LU A as its main organizational principle (Arcari 1983). These novelties reflect an environment where Sumerian had no tradition and where the need for such tools was felt more deeply than in the Sumerian heartland. Whether this environment was Ebla or Northern Babylonia is a question that cannot be settled here.

Exercise texts from this period, mostly exercise business documents, are treated by Foster 1982.

See Michalowski 1987 and Archi 1992.

There are indications that Mari also played a part in this process. See Archi 1992, pp.22-23.

The Ebla lexical corpus was published by Pettinato in *MEE* 3 and 4.

The Semitic language attested in Ebla is now regarded by most writers as an early form of Akkadian or a closely related language. See Michalowski 1987; Huehnergard 1996, p.259f. with note 38; and Krebernik 1996.

¹⁶ Civil 1982; Krispijn 1982; Krecher 1983.

2.1.4 The Third Dynasty of Ur

The third millennium ends with the Third Dynasty of Ur (Ur III). This dynasty (ca. 2100-2000), which united all of Southern Mesopotamia under its rule, has left us tens of thousands of administrative tablets. To the most important king of this dynasty, Šulgi, a large number of organizational and religious reforms are attributed. These reforms affected the organization of the army, the system of taxes, administrative procedures, and the deification of the king. Moreover, Šulgi is said to have reformed the writing system and the scribal school¹⁷. It is often assumed that the new lexical and literary corpus which emerges all of a sudden in the Old Babylonian period goes back to the literary creativity of the Ur III period, and to the reforms claimed by Šulgi¹⁸. The evidence, however, requires a more balanced picture.

The core of the Old Babylonian literary corpus was created in the Ur III period. This can be argued first of all from its contents. There are numerous royal hymns in praise of Ur III kings. Moreover, the epic stories glorifying the ancient kings of Uruk, Gilgameš, Enmerkar, and Lugalbanda, were ideologically important to the kings of the Ur III dynasty who had adopted these kings as their ancestors. The Ur III roots of the literary tradition have been confirmed by the finding of a number of fragments of contemporary manuscripts. The Ur III literary corpus cannot possibly be identical to the Old Babylonian corpus. A number of compositions were added - such as the royal hymns for early Old Babylonian kings. Other compositions may have been abandoned or reworked. In detail the relation between the two corpora is largely unknown. In those cases where we can actually compare an Ur III fragment with the Old Babylonian version a highly differentiated picture arises ¹⁹. The Ur III manuscripts of the 'Curse of Agade' differ in spelling to their later counterparts, but essentially bear the same text. The same relation is found in the Temple Hymns, but the Ur III 'Lugalbanda' fragment exhibits a text that differs in more important ways from the known Old Babylonian recension²⁰.

For the lexical corpus an entirely different picture emerges. Ur III lexical texts hardly bear any similarity to Old Babylonian school texts. A number of lentil-shaped tablets from Nippur, previously treated as Old Babylonian exercise texts, were dated by Zettler to the Ur III period on archaeological grounds²¹. Among these only one has a possible relation with an Old Babylonian composition (Proto-Izi II). However, both the archaeological context of this tablet and its attribution to Proto-Izi are uncertain, and therefore inconclusive²². Another group of lentil-shaped tablets was claimed to be Ur III by Weidner (1914)²³. Since these tablets were acquired

19 See Michalowski 1981, p.2

For Šulgi's reforms see Steinkeller 1987, pp.16-17.

¹⁸ See e.g. Hallo 1989.

For the Ur III literary texts see Civil 1973, p.171 n.3; Civil 1985a; Michalowski 1985, p.216-217 and n.3; Alster 1993.

²¹ Zettler 1991.

The tablet was found in a fill. See Zettler 1991, p.258, and the catalogue on pp.263-274.

The tablets were recently discussed by Alster (1993). At the time of Weidner's publication, the lentils

on the antiquities market their dating is based exclusively on palaeographic arguments. The elaborate and archaizing style of writing which led Weidner to his conclusion is by no means unusual for Old Babylonian school texts.

Extant Ur III lexical texts reproduce the third millennium tradition. We find the same lists of professions, birds, and fish well known from archaic sources and beyond²⁴. A most interesting exception from Nippur was published by Civil (1973, p.177)²⁵. It was dated by him as pre-Ur III, but the writing suggests an Ur III date (Cavigneaux 1983, p.616). The tablet is oblong in shape, and has 37 lines altogether. The beginning of the obverse, which is badly damaged, exhibits short sections on birds, liquids, and plants. Then follows a relatively long section on earthenware. The passage contains words for vessels (13-20), and ovens (21-22):

13	^{dug} kur-ku-ru ₂	large vessel for oil
14	dugdur ₂ -bur ₃	fermenting vat
15	^{dug} GAR ₃ -me	
16	šika-dal	
17	šika-KAL	
18	šika-KAL	
19	šika-KAL	
20	šika-ugur ₂ -bal	vessel for beer production
21	^{im} durun-na	oven
22	imNE-DU-DU	

belonged to Peiser. After the latter's death, his collection was bought by De Liagre Böhl. Three of the four published lentils have been located in the collection Liagre Böhl, property of the Dutch Institute for Near Eastern Studies (NINO) in Leiden: P.375 = LB 994, P.376 = LB 996, and P.371 = LB 995. The last number was identified by Wim Burgraaff, to whom I express my sincere thanks for his help in the Böhl collection. In the same range of LB numbers there are a few other lentils with area measures, wooden objects, and personal names. The copies by Weidner are excellent. The holes in LB 994 and LB 996, described by Weidner (1914, p.304), are certainly not for placing the tablet on a wall. They are finger grips for stabilizing the lentil in the hand (see for Nippur examples Falkowitz 1984, p.20). LB 995 (P.371) is a forerunner of ur₃-ra 8-9, which follows the Nippur text (*MSL* 7, p.191: 110-111; not used there). The style of all four lentils is the Nippur style, with two model lines copied by a pupil on the same side. The same type, however, also appears in Isin, whereas Nippur lentils occasionally have divergent formats (Falkowitz 1984). LB 994 (P.375) is probably Old Babylonian Proto-Lú 236 and 235 respectively. The variant EN. dinanna (For En.ME. dinanna) also appears in Proto-Diri 383. The order of the items on the lentil corresponds to Proto-Diri. However, the lentil can hardly be Diri, since Diri always includes an Akkadian rendering. The other two pieces in Weidner's publication are proverbs (Alster 1993, p.4 nt.10).

Lagaš: Birds: *ITT* II/2, 5898 + *ITT* V, 9251 (see Civil and Biggs 1966 and *MEE* 3, p.275). Nippur: LU A: 6N-T476 + 477 (see Civil 1984a, p.8). Additional unpublished 6N-T pieces are mentioned in the footnotes to the introduction to Englund and Nissen 1993. Unprovenanced: List of Names and Professions (Fales and Krispijn 1980). The Nippur name list NBC 11202 = 5N-T75 published by Cohen (1993) was dated by the editor to early Ur III or late Sargonic. This text does not belong to any of the well-known third millennium lists, although there is a duplicate of unknown origin (likewise published in Cohen 1993). Civil and Biggs 1966 (p.8 n.1) mention the Ur III bird list from Nippur A 31267. This number does not appear in the footnotes in Englund and Nissen 1993. The number may be an error for A 31247 = 6N-T681.

²⁵ CBS 7269; collated.

Lines 17-19 correspond to the Old Babylonian list of vessels lines 99-101 (*MSL* 7, p.204), where we find dug-KAL instead of šika-KAL²⁶. From other sources we know that there are three different readings for dug-KAL: dug-urrub₂ (Akkadian: *urruppum*); dug-zurzup₂ (Akkadian: ${}_{S}ur_{S}uppum$); and dug-silima₂ (Akkadian: ${}_{hupSaSum}$)²⁷. Most other items are found in the Old Babylonian text as well²⁸. Although the text can hardly be considered a 'forerunner' of the Old Babylonian list of earthenware, it does show that apart from the ancient lexical tradition there were other elements which contributed in one way or another to the composition of the Old Babylonian lists.

2.2 Old Babylonian Lexical Findings.

The lexical finds from the Old Babylonian period differ strikingly from their third millennium counterparts. All existing lists were reworked and expanded to cover such important topics as reed and reed objects, stones, and heavenly bodies. The thematic lists were arranged in the series ur₅-ra = hubullu. New types of lists were composed, including lists of simple and complex signs, and elementary lists designed to teach the fundamentals of cuneiform writing. The fixed and stable third millennium lexical tradition was replaced by a variety of fluid local traditions. Textually the relation between the third millennium lexical lists and their Old Babylonian counterparts is still largely unclarified. The animal list which goes back to archaic Uruk has a repetitive character. A set of qualifications is repeated for various types of cattle. This character is partly retained in the cattle section of Old Babylonian ur₅-ra. The Old Babylonian list of birds may be regarded as a reworked version of its third millennium ancestor (Pettinato 1978, p.173; Black and Al-Rawi 1987, p.117). In other lists, such as the metal list, the relation between the third and second millennia traditions is not that clear, or has not been sufficiently investigated. The Old Babylonian corpus was certainly not created from nothing. However, both in general and in detail, there are so many differences from the earlier tradition that we can safely speak of a fresh start.

The lexical tablets we have are unevenly spread over the period and the geographic area that is covered by the label Old Babylonian. We will begin our discussion of the lexical corpus and its

For šika instead of dug in Ur III Nippur see Sallaberger 1996, p.17 n.81 and p.33f.

In later traditions there is a fourth reading dug-ursub₂ (Akkadian: $ur_{s}uppu$). Bilingual evidence is most conveniently collected in CAD_{s} sv $ur_{s}uppu$. Old Babylonian Proto-Diri, Old Babylonian, and Middle Babylonian ur₅-ra have three items dug-KAL. For Middle Babylonian ur₅-ra see MSL 7, p.115: 21-23 (Alalakh); Emar VI/4, p.87: 8'-10'. None of the Ugarit texts has been published so far (see Van Soldt 1995). See now Sallaberger 1996, p.51 and p.102 sv dug-KAL.

The items ^{im}durun-na and ^{im}NE-DU-DU were discussed by Civil 1973. The other items are treated by Sallaberger 1996, and can be found in his Sumerian glossary pp.95-109. Line 15 was read by Sallaberger (p.108) dug-ubur-me(?). The entry is listed under the heading dug ubur-imin-bi ('seven-teat vessel'). In Sallaberger's reading the word may be interpreted as a 'vessel with teats'. However, the sign transliterated ubur by Sallaberger remains a problem, indicated by his question mark. According to Sallaberger (personal communication) the sign cannot be GAR₃, but must be an imperfectly written UBUR or perhaps an AMAŠ (ubur_x).

institutional context with a historical overview.

2.2.1 Early Old Babylonian Period

The end of the third millennium was marked by the destruction of the Ur III empire. The period that follows, the Old Babylonian period (2000-1595), is characterized by political fragmentation and instability. In the early Old Babylonian period the city states of Isin and Larsa alternate in their claims to sovereignty over Southern Babylonia (2000-1763). Nippur, in the northern part of this area, continually changed hands. In his thirtieth year (1793) Rim-Sîn of Larsa²⁹ finally defeated Isin. He remained in power for another thirty years. Only a few lexical tablets may with some degree of confidence be dated to the period before 1763. They derive from Larsa³⁰ in the south and Kisurra³¹ in the vicinity of Nippur. Cavigneaux has argued that the so-called Scherbenloch in Uruk, which contained a mixture of school texts, administrative texts and letters, represents a coherent archive, to be dated between Rim-Sîn 32 and 43 (Cavigneaux 1996, pp.1-5). Accordingly the Uruk school texts belong to the end of the early Old Babylonian period³². The lists of stones from Larsa (*BBVOT* 3,1) and Uruk (Cavigneaux 1996, text 170) are closely related to the versions from Isin and Nippur, but differ in the order of the first few sections:

Larsa/Uruk (Early O.B.)	Nippur/Isin (Middle O.B.)
^{na} ₄ka-gi-na ^{na} ₄esi ^{na} ₄nu ₁₁ -gal	^{na} 4ka-gi-na ^{na} 4esi ^{na} 4(giš)-nu ₁₁ -gal
nu ₁₁ -gai ^{na} 4du ₈ -ši-a	(gis)-iiu[]-gai
na_4 algameš(SAL-HUB ₂) $^{na_4}a_2$ -šuba	^{na} ₄ a ₂ -šuba ^{na} ₄ algameš(UD-SAL-HUB ₂)
u _z suou	$^{na_{4}}du_{8}$ -ši-a

In detail the four versions all differ from each other. In the following table the best preserved versions, Larsa³³, Isin, and Nippur, are compared:

²⁹ For the political career of Rim-Sîn and his significance see Van de Mieroop 1993.

School texts are found scattered through Arnaud *BBVOT* 3. They include lists of names, Proto-ki-ulutin-bi-še₃ Syllable Alphabet A (84 rev.), ur₅-ra (stones), mathematical tables, and literary texts.

Kienast, *FAOS* 2. School texts include thematic lists (among them an Old Babylonian ED LU A), a mathematical table, and a literary text.

The corpus of Uruk lexical texts published by Cavigneaux is most remarkable and deserves a thorough analysis. It contains a number of elementary exercises (including Syllable Alphabet A; see §2.4.1.1) and many advanced lists (Diri and Ugu-mu see §2.4.1.3), but relatively little that falls in between. Similarly, the lentil-shaped tablets (see §2.3.3.4) contain mostly either Syllable Alphabet A or literary extracts, the two ends of the curricular phase in which lentils were used (see §2.4.2).

For a comparison between the Larsa and the Uruk versions see Cavigneaux 1996, p.83.

Larsa ³⁴ (early O.B.)	Isin ³⁵ (middle O.B.)	Nippur ³⁶ (middle O.B.)
1. ^{na} 4ka-gi-na	1. ^{na} 4ka-gi-[na]	1. ^{na} 4ka-gi-na
2. ^{na} 4ka-gi-na-ti [!] -la	2. ^{na} 4ka-gi-na-t[i-l]a	
	3. ^{na} 4ka-gi-na-kal-ga	
	4. ^{na} 4k[a]-gi-na-zalag2-ga	
	5. ^{na} 4k[a]-gi-n[a-	
	6. ^{na} 4[ka-gi-na-d]ib-ba [?]	
3. ^{na} 4kišib-ka-gi-na	7. ^{na} ₄ [kišib]-ka-gi-na	2. ^{na} 4kišib-ka-gi-na
4. ^{na} 4lagab-ka-gi-na	8. ^{na} 4[lagab]-ka-gi-na	3. ^{na} 4lagab-ka-gi-na
5. ^{na} 4ellag2-ka-gi-na		
6. ^{na} 4esi	9. ^{na} 4esi	4. ^{na} 4esi
7. ^{na} 4nu11-gal	10. ^{na} 4[gi]š-n[u11]-g[al [?]]	5. ^{na} 4giš-nu ₁₁ -gal
8. ^{na} 4kišib-nu ₁₁ -gal	11. ^{na} 4[kišib-giš-nu ₁₁ -gal]	6. ^{na} 4kišib-giš-nu ₁₁ -gal
9. ^{na} 4lagab-nu11-gal	12. ^{na} 4[lagab-giš-nu11-gal]	7. ^{na} 4lagab-giš-nu11-gal
10. na ₄ ellag ₂ -lagab-nu ₁₁ -gal		

The writing ^{na}₄nu₁₁-gal in the Larsa text for ^{na}₄giš-nu₁₁-gal in the other two versions is not a distinctive trait. The same variant appears in two of the Nippur sources used in the reconstruction of the text in *MSL* 10. Compared to the Isin and Nippur versions, the most important difference in this opening section is the addition in the Larsa text of the ellag₂ items (lines 5 and 10)³⁷. Throughout the stone list kišib (seal), lagab (block), and ellag₂ (bead) recur as a stock triad for nearly every kind of stone. If we were to see these versions as stages in historical transmission, we would expect to find such systematic features growing in importance. It is surprising, therefore, to see that the ellag₂ items are omitted by the later texts. The Middle Babylonian Ugarit version (*MSL* 10, p.38) reinserted the items, followed in this by the first millennium recension. The example merely illustrates that a one-way chronological picture of textual transmission will not do. There is no way of deciding whether the differences are due to a

Arnaud, BBVOT 3,1.

³⁵ IB 1624, unpublished.

³⁶ MSL 10, p.54f.

The ellag₂ items are missing in the early Old Babylonian Uruk text, which otherwise is very similar to the Larsa version.

diachronic development of the stone list, to the peculiarities of the local tradition in Larsa, or to mere chance.

Among the Kisurra school texts there is a prism (*FAOS* 2/1, 181) which lists stones³⁸, immediately followed by geographical names. This sequence differs from the tradition observed in Nippur and in all post-Old Babylonian versions. There the stones are followed by plants, fish, birds, and clothing, and only then the geographical names. Despite these differences the Kisurra list clearly represents an ur₅-ra recension.

From Sippar, in Northern Babylonia, we have an early Old Babylonian list of birds³⁹. Significantly, this list is in Akkadian, whereas Southern Babylonian thematic lists are invariably in Sumerian. The Sippar text bears no resemblance whatsoever to any earlier or later lists of birds. Sumerian was at home in literate circles in the south, but was not so firmly rooted in the north. It is possible that in the early part of the second millennium the northern lexical tradition was relatively independent, with less emphasis on the Sumerian heritage. For the time being, however, the Sippar bird list is an isolated piece, and this interpretation must remain speculative.

2.2.2 Middle Old Babylonian Period

In Babylon, formerly an insignificant city in Northern Babylonia, an Amorite dynasty had come to power. Hammurapi, the most successful king of this dynasty who reigned for over 40 years, defeated Rim-Sîn of Larsa in 1763, moving the centre of political power to the north. This event is taken as the beginning of the middle Old Babylonian period. Hammurapi united Northern and Southern Babylonia under his rule. After his death in 1750 he was succeeded by Samsuiluna. Initially this succession did not cause any major political troubles. From Samsuiluna's ninth year onwards, however, southern cities acknowledged the rule of Rim-Sîn II of Larsa. Only two years later, in 1739, important cities such as Ur and Larsa completely disappear from the record. Apparently a crisis had hit the area. Nippur and Isin in the northern part of Southern Babylonia were affected but survived. In his 29th year (1721) Samsuiluna lost control over Nippur to Iluma-Ilu, king of the Sealand. Shortly afterwards the city was abandoned. Isin had met the same fate a few years earlier Stone (1977), who describes the Nippur evidence in detail, attributes the crisis to a number of social, economic, and political factors. Armstrong and Brandt (1994), arguing from archaeological data, demonstrate that the de-urbanisation of the area is better explained by an interruption in the water supply.

The great mass of the extant Old Babylonian lexical tablets derive from Nippur. This city never had any political power. It was both a religious centre⁴¹ and a centre of learning. Its school was

See the summaries of the excavation results in Hrouda 1977, pp.147-148; and Hrouda 1981, pp.199-201. The latest dated tablet is Samsuiluna 26.

The stones section is edited in *MSL* 10, p.62.

Black and Al-Rawi 1987.

For Nippur in the Old Babylonian period see Stone 1987 and Robertson 1981, pp.47-51.

regarded as the most important school⁴². The first excavation campaigns in Nippur took place in the nineteenth century. To present standards the reports of these excavations are very poor. They do not allow us to reconstruct a stratigraphy, or to associate tablets with architectural remains. Since Nippur school tablets are undated, the only method to assign dates to tablets is palaeography. For this corpus, however, palaeography is notoriously unreliable. Differences between early, middle, and late Old Babylonian sign forms are often slight, and such differences that do exist may be obliterated by teachers using archaic sign forms, or by the inexperienced hands of schoolboys. After World War II archaeologists returned to Nippur. The school texts that were found in these campaigns could be related to the crisis of Samsuiluna's eleventh year in 1739 BC (Stone 1987, p.36; Civil MSL 14, pp.7-8). The tablets found in earlier campaigns are similar enough to justify the assumption that they are from roughly the same period. Texts from Isin are contemporaneous. One of the lexical tablets from Isin is dated Samsuiluna 12⁴³. School tablets from Ur, Quiet Street 7, may be slightly earlier (see Charpin 1986, p.433). The lexical tradition of Ur differed considerably from the one in Nippur. UET 7, 92 lists leather objects, birds, fish, plants, and clothing. All these subjects are treated in Nippur ur₅-ra as well, but are never found together on a single tablet (see §2.4.4.2. for Nippur ur₅-ra).

2.2.3 Late Old Babylonian Period

The period following the abandonment of the south will be referred to as late Old Babylonian. In this period textual finds are restricted to a narrow band stretching from Dilbat in the south to the Diyala in the north, with the city of Babylon in the centre (see Gasche 1989, Plan 8). Towns in the southern part of the country, including Nippur and Isin, only reappear in the late Kassite period, around 1350 BC.

In the late Old Babylonian period the lexical tradition was kept alive in northern centres. Texts are known to have come from Babylon⁴⁴, Tell Harmal⁴⁵, Sippar⁴⁶, Sippar-Amnānum⁴⁷, Meturan⁴⁸, Kiš⁴⁹, and some other places⁵⁰. Unfortunately, texts from these sites are either few or

⁴² Van Diik 1989.

⁴³ IB 1547. See Wilcke 1987, p.84 and p.103.

LTBA I, 80; MSL 10, pp.117-119 text B.

IM 51144, partly published in MSL 5-7; and a number of lentils in TIM 10/1.

See Scheil SFS, Chapitre III; CT 16, 11-14.

See Tanret 1982; Gasche 1989, pp.19-20 and pp.40-41. A photograph of one tablet is reproduced in De Meyer, Gasche, and Tanret 1984.

Mentioned in Cavigneaux and Al-Rawi 1993, p.91.

Listed by De Genouillac in *PRAK* II in the catalogue of Série A. Only a few of these pieces were published. Other Kiš texts were (re-)published in *MSL SS* 1.

Al-Fouadi 1976: a Proto ki-ulutin-bi-še₃ text from Dhibā'ī, near Baghdad.

unpublished. From the evidence we have, the lexical traditions of Northern and Southern Babylonia seem to have been rather different. The Tell Harmal text IM 51144 was partially published in bits and pieces at various places in *MSL*. It shows an ur₅-ra redaction much shorter than comparable southern texts, and in a different arrangement. It has the sequence trees and wooden objects, reed, containers, birds. This is the same order of topics as found in Nippur, but with many omissions between the containers and the birds. The unpublished lexical tablets from Metur_n belong to the same tradition⁵¹. The Oriental Institute in Chicago houses two lexical cylinders from the Diyala region, probably from Ishchali⁵². The first (A 7895) has col. I rivers; col. II snakes; col. III domestic animals; col. IV ?; col. V-X foodstuffs. The second (A 7896) has col. I-III plants, in col. III followed by wild animals; col. IV-VI domestic animals; col. VII hides⁵³. The two cylinders closely resemble each other in outward appearance, but they differ somewhat in the order of the sections. Perhaps this tradition did not recognize a standard sequence of topics. The order of both cylinders differs considerably from the Nippur tradition (see §2.4.1.2). The subjects treated, however, are shared by the two traditions.

The destruction of southern cities during the reign of Samsuiluna brought about a mixture of northern and southern traditions in the late Old Babylonian period. Finkelstein demonstrated the existence of a group of refugees from the southern city of Uruk in late Old Babylonian Kiš in the north. Among them was a group of priests who had brought with them the cult of important Urukean deities⁵⁴. It is possible to find similar displacements in the lexical tradition. The list of wooden objects MLC 1454+1455 (= *BRM* 4, 29+30)⁵⁵ is dated Samsuiluna 28. Unfortunately the tablet is unprovenanced, but the year name proves that it must derive from a northern site. The text bears some striking resemblances to a text from Ur in the south⁵⁶. The unprovenanced tablet is probably an example of a text written or dictated by a southern scribe after his flight to Northern Babylonia.

2.3 The Old Babylonian School

Old Babylonian lexical tablets were used as teaching instruments in the scribal school or eduba⁵⁷.

The text in question is edited in §5.6.2 as Ur I-01.

Personal communication by A. Cavigneaux.

The cylinders, together with a third exemplar, belong to the 'Frankfort Collection'. Many of the Old Babylonian tablets from this collection can be shown on prosopographic grounds to derive from Ishchali. See Neugebauer and Sachs 1945, p.24 n. 87 and 88; Greengus 1979, p.2 n.7; Ellis 1986, p.761 n.13.

A 7895 was partly published in MSL 11, p.147 and p.160f. (forerunners 12 and 17). See also Civil apud Hallo 1982, p.88 n.33.

See Charpin 1986, pp.403-415, with references to earlier studies on the subject.

⁵⁵ Edited in §5.6.2 as NP I-03.

The Sumerian é-dub-ba-a is literally 'tablet house'.

A description of this eduba, its curriculum and teaching methods is necessary to place the lexical texts in their proper context. Evidence for the school may be found in literary compositions, in archaeological data, and in the exercise tablets themselves.

2.3.1 School life: The Picture in Literary Texts

The classic study of the Old Babylonian eduba is Sjöberg 1975. His description is mainly based on a variety of Old Babylonian literary texts. Most important among these is a group of compositions in which the life of a schoolboy is evoked in dialogues of a usually ungracious and no doubt satirical kind⁵⁸. These texts are commonly called eduba compositions. Further evidence is found in a number of royal hymns which extol the extraordinary achievements and righteousness of the king. One of the recurrent themes in these hymns is the description and glorification of the scholarly and literary accomplishments of the king and his special concern for the eduba. The most famous of these is commonly called Šulgi B⁵⁹. The beginning of this hymn has a biographical arrangement. After mentioning the glorious destiny bestowed upon him at the time of his birth, Šulgi goes on to describe his childhood (lines 13-20):

When I was young I learned at school the scribal art on the tablets of Sumer and Akkad. Among the highborn no one could write like me. Where people go for instruction in the scribal art there I mastered completely subtraction, addition, calculating, and accounting. The fair Nanibgal Nisaba⁶⁰ provided me lavishly with knowledge and understanding. I am a meticulous scribe who does not miss a thing!

Throughout the hymn Šulgi boasts about his knowledge and understanding of various disciplines. He is perfectly at home in divination (131-153) as well as in music⁶¹ (154-174). Later in the text Šulgi claims to have founded scribal schools in Ur and Nippur, where the hymns glorifying his extraordinary wisdom must be recited for ever.

The eduba themes are found in a less elaborate way in several hymns; among them Lipit-Eštar B (Vanstiphout 1978 and 1979), Išmedagan V (Ludwig 1990, Chapter 8), and Enlil-bani A (Kapp

Summaries of the data found there have often been studied. In addition to Sjöberg 1975, see Charpin 1986, pp.420-423; Waetzoldt 1989; Volk 1996. A number of Eduba compositions are now available in German translation by Römer in Römer and von Soden 1990, pp.68-102 with references to earlier literature.

Geerd Haayer generously allowed me to use his unpublished edition and translation of this hymn, on which the following is based. I would like to thank him here for his permission, and for the valuable insights he shared with me during our discussion of the text.

The goddess of writing and the patroness of the eduba.

On this passage see Krispijn 1990.

1955)⁶². The attention paid to matters of schooling and writing in these hymns served to depict the rulers as learned scholars. The same compositions were used as exercises in the scribal schools, so that there is a degree of self-reference involved. The scribal themes were of interest to the very people who were responsible for the transmission of the texts.

The literary texts were not devised to transmit the true organization of an Old Babylonian school. Civil (1980) has discussed a number of factors which prohibit the easy identification of the literal meaning of a text with historical reality. The eduba dialogues may depict an ideal school, rather than an actual school. An example of misinterpretation is the passage in Schooldays (29-41)⁶³, where various school employees play their part in the story. There is an overseer of the courtyard (31), a keeper of silence (35), a teacher of Sumerian (40), and so on, all in all ten different functionaries. Each of these ten finds some reason to punish the poor pupil, the hero of the story. One might be tempted to find here a complete list of the eduba personnel, if it were not that all other evidence points to extremely small schools, where this short-tempered staff would easily outnumber the pupils. A more plausible explanation, therefore, is that all designations refer to one and the same person, the last in the list: the teacher or ummia.

The word ummia is used in Sumerian in a more general sense as 'craftsman' or 'expert'. It suggests that the work of a scribal teacher was regarded as parallel to that of the carpenter with his trainee. An advanced pupil was called šeš-gal, or 'big brother.' He assisted the teacher with his younger classmates. This person is not only known from the eduba texts but also from some proverbs. A pupil is called either dumu-eduba (son of the tablet house) or dub-sar-tur (junior scribe). The latter is found in colophons, the former in literary texts.

2.3.2 Archaeology and the Organization of the School

Another source of information on Old Babylonian schools is archaeology. Typically, large groups of Old Babylonian exercise texts are found in domestic areas. By far the largest number of school tablets in Nippur section TA was found in one house (house F)⁶⁴. The rooms in this house are rather small; it does not distinguish itself architecturally from other houses in the area. Among the inventory of this school was a large vessel filled with pots, perhaps to be used for keeping the clay wet. In an adjacent room lots of unformed clay was recovered. Remains in Isin⁶⁵ and Sippar-Amn_num (Tell ed-D_r)⁶⁶ show a basin in connection with school tablets. The basin in Tell ed-D_r was filled with refined clay and a number of exercise tablets. It was used

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Kapp's edition was based on the single exemplar known then (*OECT* 1, 10-12). Since then, a number of duplicates have been identified. The published pieces are listed in Wilcke 1976, p.84. See also Falkowitz 1984: 3N-T745.

See Kramer 1949, and the new translation by Römer in Römer and von Soden 1990, pp.68-77.

Stone 1987, p.37. But see the important reviews by Charpin (1989 and 1990) and Van Driel (1990).

Isin Nordost-Abschnitt III, südlicher Teil, Raum 4 (see Haussperger 1987, p.32 with Plan 10). This room and the adjacent one yielded most of the Isin school texts.

Tanret 1982; Gasche 1989, pp.19-20, pp.40-41, and Pl. 9.

both for the storage and recycling of clay. The modern observer cannot help imagining an eduba as a formal, and relatively large, institution, where several generations of pupils were instructed. The question is whether this picture is based upon any reality. The school houses identified at these three sites do not seem suitable for an academy of any size. The excavation reports of Isin and Nippur show that large non-domestic buildings such as temples did not yield Old Babylonian exercise texts. Arguing from different kinds of evidence Waetzoldt (1989, p.39) concludes that a single class may have had no more than two to four pupils.

Recently, Charpin and Diakonov have discussed the organizational framework of school and teacher. Charpin (1986, p.485f.) argues that the only scribal school in Ur that can be identified with some certainty, N^o7 Quiet Street, was a private school where a priest named Ku-Ningal primarily taught his own sons. This picture differs considerably from the traditional view that holds that the Old Babylonian eduba was an official institution, replaced only in later times by private education at home (Sjöberg 1975). The context of school texts found in Nippur⁶⁷, Mari⁶⁸ and Sippar-Amnānum⁶⁹ basically confirms Charpin's conclusions. Arguing from the same body of evidence Diakonov (1990)⁷⁰ comes to radically different conclusions. According to this author scribal education was centrally organized by the state. This centre was Nippur. For Diakonov there are two reasons to come to this conclusion. Firstly, writing was of vital importance to the state, and it is difficult to imagine a state leaving a matter of such importance to private initiative. In the second place the uniformity of the schooling system points, according to Diakonov (1990, p.128), to interference from the central government. An unorganized kind of family education would lead to a wide variety of curricula. Diakonov further emphasizes that the relation between education and clergy, as it is found in Ur, Mari, and Sippar-Amnānum, is not an essential one. The cult did not depend on written texts. Literacy was of prime importance to the administration. In a period of relatively weak state control, as the Old Babylonian period was, most of the administration was done by temple personnel. From these ranks the teachers were recruited, but this does not change the eduba into a temple school.

The school curriculum indeed shows very little that would suit a clerical education. Moreover, such an education would more probably be located within a temple, as was the case in Neo-Babylonian times⁷¹. Diakonov's arguments that the school was state organized are less convincing. A centralized state of any extent existed only for a relatively short period of time during the reign of Hammurapi. The uniformity of the school texts and the school curriculum is a relative one. By any standards the third millennium lexical texts are much more uniform, without any central organization guaranteeing their faithful transmission. The kind of variation that is found between local Old Babylonian traditions is comparable to what is known for oral traditions

For Nippur see Stone 1987, and Charpin 1990, pp.1-8.

Mari school texts are unpublished, except for the god list in Lambert 1985 (see Oelsner 1989 and Waetzoldt 1990), and some mathematical exercises published by Soubeyran (1984) and Charpin (1993).

⁶⁹ See Tanret 1982 and Gasche 1989, p.20

I would like to express my sincere thanks to Gerame Wouters, who translated for me the relevant passages from the Russian.

See the Neo-Babylonian exercises from the Nabû temple in Cavigneaux 1981.

such as ballads and counting-out rhymes (Rubin 1995; see §3.6). The stability of such genres is explained by their mnemo-technical qualities, rather than by state control. The rules of the genre can be shown to be helpful in memorizing and stabilizing a song or rhyme. Rubin demonstrated that the kind of variation that is found in oral genres usually leaves the basic character of the piece transmitted untouched. The performer who is familiar with the genre may change a song considerably, but will typically do so within the confines of the rules of the genre, and without basically altering its portent. This kind of transmission may account for widely differing local traditions, which are still basically recognizable as 'the same'. This is a description appropriate to the lexical traditions of the Old Babylonian period. There is no reason to explain the relative uniformity of Old Babylonian education by state control. Furthermore, the strict division between private and public is a fairly recent one. The archives of officials tend to mix what we would call private and professional affairs⁷². A private school, therefore, may still have a semiofficial character. The eduba was no doubt an institution. An institution, in the sociological sense of the word, is not so much an official organization, located in a building, but a pattern of social behaviour that follows conventional rules, and is provided with moral authority⁷³. Through the concept institution we can think of an eduba as a private enterprise, without expecting every teacher to invent his own private curriculum. Roman education of upper-class children depended for a considerable degree on the private enterprise of former slaves (Bonner 1977), without departing from traditional lines.

Diakonov (1990, p.128f.) further argues that the eduba had open access. Admittance was not restricted to members of clerical families. This is shown, according to this author, by two kinds of evidence. First, the teacher was not paid by state or temple, but by the parents of the pupil. Payment by the parents is attested in the literary text called Schooldays⁷⁴. Payment by state or temple, according to Diakonov, would have left traces in official documents, which is not the case. Second, a few girls attended school. Both points are presented by the author as indications of a certain freedom of choice, and a non-mechanistic procedure for admission. One must admit, however, that this freedom of choice must have been restricted to the happy few. Charpin (1986) demonstrated the hereditary character of priestly professions which implied literacy. Even though literacy seems to have been relatively widespread in the Old Babylonian period, the picture of an ummia who with the assistance of a šeš-gal tries to keep a crowd of pupils under control (Diakonov 1990, 130f.) is almost certainly exaggerated. The evidence for female scribes and pupils, moreover, is restricted to northern areas, in Mari⁷⁵, Sippar⁷⁶, Me-Turan, and Tell

Zettler (1992, p.209), described the relation of the Ur-me-me family with the Inanna temple of Ur III Nippur as follows: 'The family treated the temple as if it were, in effect, its private preserve.' See also Zettler 1991, p.261, and Van Driel 1994, p.192.

Thus we can speak about language or gift-giving as institutions. Berger and Berger 1972, Chapter 4.

⁷⁴ See also *AbB* 2, 81.

See Durand 1987, p.85 and Dalley 1984, p.110. References courtesy M. Stol.

See Harris 1975, p.196f. Probably from Sippar are a lexical text (P-Aa *MSL* 9, p.148f. = *MSL* 14, p.p.135f.) and a literary text (*VAS* 10, 207) written by a female scribe. References courtesy M. Stol. See also Durand: *Documents Cunéiformes I*, 495 (ur₅-ra clothing section, dated to Samsuiluna; colophon: šu munus-dub-sar; provenance unknown). F. Al-Rawi informs me (personal communication) that exercises by female scribes have also been found in Tell Haddad and Tell Harmal.

Harmal⁷⁷.

2.3.3. Educational Tools: The Typology of Lexical Exercise Tablets

Old Babylonian lexical texts are inscribed on several characteristic tablet types. These tablet types can tell us much about the way lexical texts were actually used in class. The labels used for the types are basically those proposed by Civil in *MSL* 12, p.27f⁷⁸. The following discussion of this typology is based upon the Nippur evidence, where the sources flow most abundantly. However, the typology seems to work for most Old Babylonian centres.

2.3.3.1 Type I: Prisms and Large Tablets

Type I texts contain either a complete lexical composition, or a considerable part of such a text. A type I text has several hundred lines; the total may amount to more than 800. From the material point of view, type I texts may be found in two forms: prisms and large tablets.

The relevant texts from Me-Turan and Tell Harmal are unpublished. Personal communications by F. Al-Rawi and J. Black.

A much earlier description of the main types may already be found in Chiera's introduction to *PBS* 11/1 (1916). This is still the most extensive and informative discussion of the formal characteristics of Nippur school tablets.

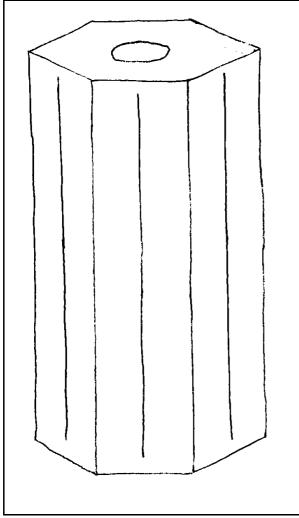


Fig 2.1 Six-sided prism.

Prisms are large clay objects, commonly with four or six faces on which a text is inscribed. They are found for nearly all major lexical texts. Syllable Alphabet B, the first list to be copied in the Nippur curriculum, is, as far as I know, not attested on prisms, but the Hilprecht Sammlung in Jena houses a cylinder fragment that contains part of the text⁹. Some of the smallest Nippur prisms contain the elementary exercise TU-TA-TI. The Hilprecht collection has two examples⁸⁰. Both are six-sided, with only one column per side, and relatively small writing. Each side measures somewhat more than 3 cm. The colophon of one of them (HS 1801) gives a total of 208 lines, which amounts to an average number of about 34.5 lines per side. Each line takes approximately 0.35cm, bringing the total height of the complete prism to about 12 cm (maximum preserved height is 8 cm). The prisms known for the major lexical series are much larger, and commonly have two to four columns per side. A six-sided prism, again from the Jena collection, contains a thematic list with the sections stones, plants, fish, birds, and clothing⁸¹. It has 2 columns per side, each side measuring about 5 cm, and must have contained well over 600 lines⁸². Four-sided exemplars mostly have three, or even four

HS 1849 was identified by Oelsner. In a letter dated August 3 1995 he communicated the following information: the piece preserves the bottom parts of two columns, which contain the lines 100-116 and 128-145. An exceptional piece is A 30286 (Nippur). This is a small square prism, with two columns per side, each of about ten lines. The fourth side is inscribed upside down, starting again with line 1 of the composition.

HS 1801 and HS 1625. For a more detailed discussion of these prisms see the section on TU-TA-TI in §2.4.1.1.

HS 1659 + HS 1751 + HS 1760 + HS 1813 + HS 1864; joins by Oelsner.

The computation of the number of lines on this prism is rather crude. The Nippur version of the list of stones (*MSL* 10, pp.53-61) has just over 200 lines. The Jena prism follows the standard text as edited in *MSL* closely. These 200 lines take up four columns or two faces of the prism. The line ^{na}4igi-muš (line 96 in the composite text) on face A col. II corresponds in relative height with ^{na}4iskilla-ab-ba (line 143) on face B col. I. This confirms the estimate of about 50 lines per column, or 100 lines per side. Other preserved parts of this prism cannot be used for this kind of computation, either because the text has not been edited (section fish and birds) or is not standardized (section plants). The section plants has a version that differs from all versions published in *MSL* 10, 119ff.

columns per side⁸³. All prisms show a hole, pierced from bottom to top, apparently for turning the object mounted on a stick. Prisms usually cover an entire composition⁸⁴.

Type I tablets typically have five or six columns per side, and are often written in minute script. Some lexical texts may be divided over two or more tablets. In such cases each tablet ends with a catch-line referring to the first line of the next section. The last tablet ends with the conventional invocation of Nisaba, the goddess of writing: ^dnisaba-za₃-mi₂: 'Nisaba be praised!'. Large tablets are more common than prisms. Among the Nippur lexical texts I have now counted 67 prisms or prism fragments as against 209 type I tablets⁸⁵. Type I tablets are known for all main lexical series.

Type I texts, both prisms and large tablets, may have a colophon. This colophon generally contains the name of the scribe, and sometimes the number of lines. Occasionally, the colophon includes a date, but no examples from Nippur have been found so far⁸⁶.

Discussing the quality of the sources of a Nippur sign list, Civil (*MSL* 14, p.7) argues that none of them would qualify as a standard reference copy⁸⁷. He maintains that all available copies are student's exercises. Teachers simply did not need a written copy since they knew the text by heart. Type I tablets may have as many deviations from the standard text as extract tablets, even

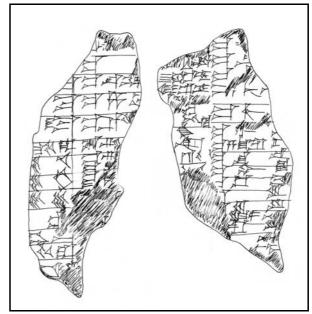


Fig. 2.2 N 5589. Fragment of a type I tablet (obverse and reverse) with a list of trees and wooden objects; 5x3cm.

Examples are HS 1699, ur₅-ra animals and meat cuts: three columns per side; and HS 1765 + HS 1930 + HS 2699 (joins Oelsner), ur₅-ra wild animals: four columns per side.

I am not sure whether this holds true for the numerous prisms and prism fragments listed for Proto-Izi I and II. Some of them may have contained only one of the two tablets. The Jena prism HS 1802 contained the complete composition (Proto-Izi I and II).

In both categories there are probably joining pieces. On the other hand, there must be additional ones, particularly in Baghdad and Istanbul. The figures, therefore, should not be taken in an absolute sense, but rather give an indication of the numerical proportions of the two types.

Isin: IB 1547 (ur₅-ra: giš edited as Is I-02 in §5.6.1): Samsuiluna 12 (see Wilcke 1987, p.84 and p.103). Unprovenanced examples are *BRM* IV 29 + 30 (ur₅-ra: giš; edited as NP I-03 in §5.6.2): Samsuiluna 28; Durand, *Documents Cuneiformes de la IVeme Section I*, Plate 123 no. 495 (ur₅-ra: lists of clothing, written by a munus-dub-sar): Samsuiluna; year name broken.

See now the proto-Aa prism from Tell Hammām published by Van Soldt 1995a. According to Van Soldt (p.286 n.45) the mistakes show that the prism was written by a student. The lines on the upper side (see p.285) may be part of the colophon.

though the quality of writing is usually superior to other school texts. As far as literary texts are concerned, a six-column tablet which containes the complete text of the 'Curse of Agade' has been shown to be textually greatly inferior to extract tablets of the same composition (Cooper 1983, p.46). Similarly, Klein demonstrated that for the hymn Šulgi A the prisms are not necessarily better than other sources (Klein 1981, p.170)⁸⁸. In some Type I tablets the colophon explicitly indicates that the tablet was written by a dub-sar-tur or scribal apprentice⁸⁹. Regrettably, no such example from Nippur is known to me. The occasional utilization of unused space on prisms and type I tablets for something entirely different betrays their exercise character⁹⁰.

Prisms must have been fairly difficult to produce and inscribe. It is not clear to me why objects of such a prestigious design were used for exercises. They may have been produced for special occasions, for instance as a kind of examination, which would also account for their relative rarity. Prisms and type I tablets were inscribed by advanced students. This may be concluded from the writing, which is usually careful. This is even true of those prisms which contain elementary exercises, such as TU-TA-TI (see above)⁹¹.

2.3.3.2 Type II: Teacher-Student Exercises

Type II tablets are of medium size. Common measurements are approximately 13x8x3.5cm. The most characteristic feature of these tablets is that obverse and reverse carry different exercises, both in a well-defined format. On the left side of the obverse the teacher has written an extract from some school text. The extract is usually written in large and elaborate script. It may be as long as 30 lines, but 8-15 lines is a more regular length. In most cases the lines do not fill the available column space. The last entry is followed by a double horizontal line and the rest of the

In Nippur the prism format was used for a restricted group of literary texts. Examples are known for the 'Curse of Agade', royal hymns, literary letters, and Eduba dialogues, for instance, but not for the Enmerkar stories. A complete inventory of Nippur prisms and the texts inscribed on them might further elucidate the function of these objects.

Isin: the God list IB 1542+ (see Wilcke 1987, p.93 and Tafel 40): i^2 -lu-ni / dub-sar-tu[r] / d [Ad]ad 2 . Ur: UET 7, 114 a small type I tablet with a metrological list: ti-la d nisaba / d ha-ìa / d en-ki / šu é-a-šar-ì-lí / dub-sar-tu-ra / in-sar 1 .

Four Nippur examples are known to me. HS 1617 is a type I tablet, with a list of stones, plants, and fish, followed by the catch-line for the section birds (see §2.4.1.2). The last column is partly filled with month names. *PBS* 11/3, 70 (CBS 7836) is a prism with name list C, followed by the conventional subscript dnisaba za₃-mi₂ and then by a list of month names. Ni 10524 is a prism with name list B 'Second Part'. It is partly edited by Çiğ and Kizilyay 1965, p.43f. and p.46f. According to the editors 'another topic' is treated after the subscript, but which topic is not stated (p.47: n.11). A 30145 (3N-T105) is a prism fragment which contains the end of the list of geographical names. The last column is filled whith numerals (*MSL* 11, p.96: B2). An example of unknown provenance is the bilingual Nig₂-ga prism YBC 13524 (see *MSL* 13, p.92).

A few prisms written in a beginners hand are known. For A 30286 (Syllable Alphabet B) see above note 79. Another example is published by Waetzoldt 1986a, p.5 no. 3 (probably Old Babylonian Uruk): sign list.

column is left empty. To the right there is space for one to three more columns⁹². Here the teacher's example was copied by a pupil. Few examples survive where the pupil's copy or copies are still extant. The regular procedure was that the pupil's side was erased, so that he could recopy his teacher's model. This process could be repeated several times. As a result the right side of the obverse of a type II tablet is usually blank, and much thinner than the left side. Such tablets are rather weak and are nearly always broken between the left and the right sides. In other cases the tablet has been cut in two on purpose, so as to preserve the model text on the left side.

To my knowledge Oelsner 1989 was the first to remark that type II tablets may have room for more than one pupil's copy. Scrutiny of Nippur type II tablets that survive more or less complete shows that this was the regular make-up. Even when the obverse is carefully effaced, as is usually the case, traces of column dividers can often be detected. A well-preserved example with two pupil's columns (CBS 6599+ HS 1616 + HS 1844; obverse O.B. Proto-Lu₂; reverse ur₅-ra giš = Ni II-137) will be published in Veldhuis and Oelsner forthcoming. Another published example is Ni 5152 (Çiğ, Kizilyay, and Landsberger 1959, p.51, where obverse and reverse must be exchanged). On this tablet the lines 266-272 of Syllable Alphabet B are repeated in two pupil's columns. Perhaps this layout of the obverse of a type II tablet is reflected in Eduba D, where the pupil says that the teacher gave him an extract to be copied four times in a single day (Civil 1985, p.76 commentary to line 26).

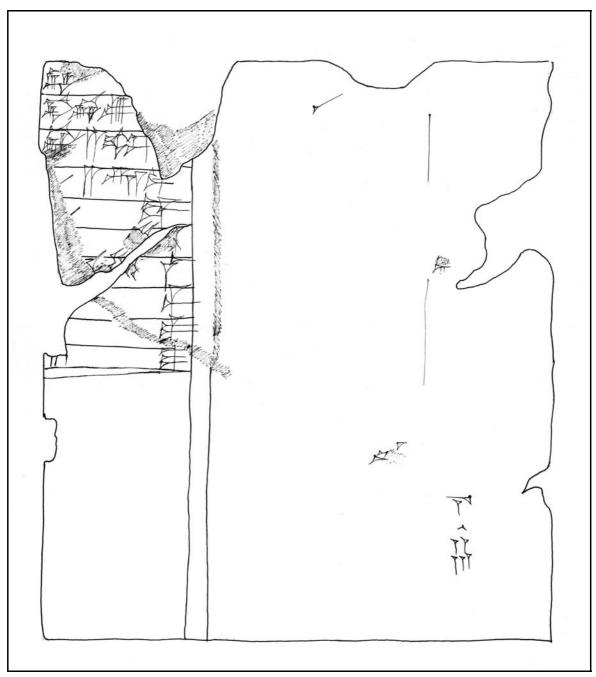


Fig 2.3 HS 1745 (Ni II-173). Type II tablet: obverse. List of vessels.

The reverse of a type II tablet is usually divided into four or five columns and carries a second extract from a school text. The reverse extract is often taken from a different composition than the obverse, but a type II tablet with two extracts from the same list is not exceptional. First, the layout of the reverse was prepared by drawing vertical lines to separate the columns. Then the first column was divided into boxes by adding horizontal lines. Next this column was inscribed. The exercises were not ususally written line by line. If there is a constant element, a sign or a word with which each line begins, this element was written first as many times as necessary. Then the column was finished by adding the qualifications to each line. Then the second column

was prepared by drawing the horizontal lines; and so on.

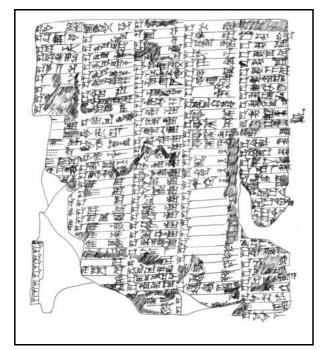


Fig 2.4 HS 1745 (Ni II-173). Type II tablet: reverse. List of wooden objects.

The order of the various stages of inscription may be deduced from some unfinished exemplars. The reverse of UM 29-15-314+ has an extract from the list of trees⁹³. Halfway through the third column the exercise was interrupted. The rest of the third and the whole of the fourth column were left uninscribed. In the uninscribed part of the text an extra vertical line is visible, designed to facilitate the correct placement of the first sign, which in this case is always GIŠ. In the inscribed columns this second vertical line disappears under the writing. The fourth column, which is completely empty, has no horizontal lines. Perhaps this tablet was actually written line by line. The third column is inscribed with about ten lines. These lines are completed. The rest of the column is completely empty except for the vertical lines. Apparently this pupil did not begin by repeating GIŠ first. Another unfinished tablet

is CBS 4866 (*SLT* 128)⁹⁴, which has the beginning of the list of trees. The last column ends with a number of lines inscribed only with the determinative GIŠ. In some cases the pupil who had filled his column with constant elements ran into trouble, because a long item unexpectedly proved to fill two lines⁹⁵. A published example is CBS 8298 (*SLT* 137)⁹⁶. The reverse of this tablet has an exercise listing types of chairs. The last two lines read:

```
giš gu-za-<sup>giš</sup> mes chair of mēsu wood
giš gu-za-ma<sub>2</sub>-gan<sup>ki</sup> Magan chair
```

From context and parallel texts it is clear that the two lines are intended to be one, reading ^{giš}gu-za-^{giš}mes-ma₂-gan-na^{ki}: chair of Magan mēsu wood (line 193 in the composite text). In this case the word ^{giš}gu-za was first repeated a number of times before the qualifications were added.

The writing on the reverse is usually smaller, less elaborate, and more cursive than the teacher's example on the obverse. The exercise may be about 60 to more than 150 lines long. The reverse

⁹³ Ni II-140.

⁹⁴ Ni II-001.

⁹⁵ See Chiera 1916, pp.20-21.

⁹⁶ Ni II-156.

of HS 1745+⁹⁷ is an example of a relatively long exercise. It has five columns, each of over 30 lines, and has an extract from the list of wooden objects. HS 1629+⁹⁸, on the other hand, had no more than about 65 lines with names of trees. The text is divided over four columns, written in largish script. As a rule the columns on the reverse run, as they should, from right to left. In a significant number of cases the columns run from left to right. This is usually the case for the elementary exercise Syllable Alphabet B ⁹⁹. There are, however, numerous other examples as well. One of them is CBS 14158¹⁰⁰, which carries proverbs on its obverse, and a list of birds and fish on the reverse. Left-to-right reverses are found throughout the corpus of lexical school texts, but appear more frequently for elementary exercises, and gradually disappear in the course of the school career¹⁰¹. Writing from right to left is more difficult for a right-handed scribe, which explains this distribution. Other deviations from the common format are rare. A cuneiform tablet should be turned along the horizontal axis. The rare cases where a type II tablet has been turned along the vertical axis may be attributed to carelessness. An example is CBS 6407 with a list of trees on both sides¹⁰². In a few cases the teacher's example is inscribed on the right half of the obverse¹⁰³.

The reverse exercise of a type II tablet was generally a repetition of a school text previously studied. That this was the case may be concluded from an analysis of obverse/reverse correlations. Nippur type II tablets carrying an extract from a thematic list on the obverse often carry an elementary exercise on the reverse. Advanced exercises such as proverbs or model contracts on the obverse often go with a thematic list on the reverse. This corresponds to a rough curricular order: elementary exercises - thematic lists - advanced exercises. In §2.4 we will demonstrate this obverse/reverse correlation in more detail, and put it to use for a reconstruction of the eduba curriculum. Most instructive are those examples where obverse and reverse partly duplicate each other. In such cases the obverse extract coincides with the end of the reverse extract. CBS 11322 has a list of trees on both sides¹⁰⁴. The obverse has lines 48-58 and 63 of the composite text. The reverse has the beginning of the tree list, starting with line 1: gistaskarin, and continues to line 57. After line 57, in the last column, two lines are broken (supposedly 58 and 63), and then lines 1-6 are repeated. A similar example is CBS 14156¹⁰⁵. This tablet has trees on

⁹⁷ Ni II-173.

⁹⁸ Ni II-162.

⁹⁹ See Çiğ, Kizilyay, and Landsberger 1959, p.8.

Gordon 1968, plate 54 = SLT 69.

At present this claim cannot be substantiated with statistical evidence. It appears as a strong impression from my first-hand experience with Nippur lexical tablets.

 $^{^{102}}$ Ni II-058. The obverse of this tablet is copied in *SLT* 140. Another example is *PBS* 11/3, no.46 . See Chiera 1916, p.43f.

PBS 11/1, 33; PBS 11/2, 67 (reverse giš = Ni II-013); see Chiera 1916, p.41 n.2.

Ni II-110. The obverse is published as *SLT* 141.

¹⁰⁵ Ni II-085.

obverse and reverse, and also starts with ^{gis}taskarin on the reverse. At the point where the obverse exercise ends (line 86) the reverse continues with the list of proper names ^dInanna-teš₂. The latter exercise demonstrably precedes the tree list in the curriculum. The same feature may be observed in two non-Nippur texts. A Mari type II tablet (Lambert 1985) has a god list on both sides. The reverse ends with the 7 line section that was studied on the obverse. Then it continues with a kind of syllabary¹⁰⁶. *BRM* IV, 31 (unprovenanced) has a list of trees on both sides¹⁰⁷. When the reverse extract reached the item with which the obverse ended, the scribe continued with a metrological list.

For the time being these examples may suffice to support the hypothesis that the reverse is used as a repetition of a school text studied at a point earlier in the curriculum. A relatively large proportion of reverse extracts are inscribed with the beginning of the list of trees. This was a section from early in the curriculum and well known, and which could nearly always serve as a reverse assignment.

The great majority of Nippur school tablets belong to type II. Thousands of type II tablets - or fragments of such tablets- have been found. Only a fraction of this material has been published. Outside Nippur, type II tablets are less frequent. An example from Mari has been published by W.G. Lambert¹⁰⁸. Since other Mari lexical texts from the House of Asqudum and the Royal Palace still await publication¹⁰⁹, we have no evidence to decide whether this exercise is typical for Mari or not. Other examples derive from Larsa¹¹⁰, Isin(?)¹¹¹, Uruk¹¹², Kiš¹¹³, Sippar¹¹⁴, Sippar-Amnānum (Tell ed-Dēr)¹¹⁵, Susa¹¹⁶, and from unknown origins¹¹⁷. No examples are

In a note in *N.A.B.U.* Waetzoldt already suggested a similar interpretation of the Mari school tablet, and used a number of Nippur Syllable Alphabet B examples to substantiate his point (Waetzoldt 1990).

¹⁰⁷ NP II-01; edited in §5.6.4.

Lambert 1985; with important remarks by Oelsner 1989 and Waetzoldt 1990. In Lambert's edition obverse and reverse should be inverted.

Durand *apud* Lambert 1985, p.181 n.2.

Arnaud *BBVOT* 3,84: Obverse names, reverse Syllable Alphabet A. A possible second example is no. 34 of the same volume: Obverse model contract(?), reverse Proto ki-ulutin-bi-še₃.

¹¹¹ IB 351 ab 'rechteckige Übungstafel' (Edzard and Wilcke 1977, p.87).

Cavigneaux 1982: W 20248, 2, 3, 4, 5, and 6. Many additional examples in Cavigneaux 1996, Chapter 6.

For instance *PRAK* I B397 (Pl.28): obverse list of trees (repeated), reverse a list of foodstuffs. See also *MSL* 14, p.111: Ki A 117 and 118. The catalogue of Série A in *PRAK* II contains numerous examples which might belong to the same category.

Si 205, and probably Si 500 and Si 504. See Tanret 1989, p.167. His descriptions of the latter two pieces are somewhat confusing. Obverse and reverse are probably to be inverted, so that the columns on the reverse run from right to left. Apparently the obverse is inscribed in these cases on the convex side.

A photograph of one example was published in De Meyer, Gasche, and Tanret 1984, p.23.

MDP 28, 1 and 176. Both have the same syllabary on both sides. The Susa pieces differ in some respects

known to me from Ur. The Uruk texts differ from the typical Nippur type II texts in that some of them carry literary texts on both sides. In general the number of published non-Nippur texts is too low for a fruitful comparison with the Nippur conventions. There may be several reasons why non-Nippur examples are so rare. This type of exercise is meant for recycling. The examples from Sippar-Amnānum were found in and around a basin filled with clay. The basin was used to keep the clay wet. Old tablets were thrown in, and the clay was re-used. In the second place, type II tablets are unattractive. They are usually broken or mutilated, full of erasures and deformed signs. Tellingly, two of the three unprovenanced examples listed in the note above are exceptionally complete. Type II tablets compare unfavourably with the often wellformed lentils (type IV; see below) or with type I tablets and prisms. Type II pieces that escaped recycling in their own time may have been regarded as unfit for commercial purposes, and thus dismissed at illicit excavations. Moreover, those deriving from regular excavations may belong to the unattractive rest portion that remains unpublished. This is certainly the case for tablets from Nippur and Kiš. Numerous type II texts are listed in Genouillac's catalogue of Série A in PRAK II (pp.45-58). The series counts 590 numbers, nearly all school tablets. Only a few of them were published in copy. Genouillac actually found them so uninteresting that he apologized for bothering the reader with so lengthy an inventory.

2.3.3.3 Type III: Single Column Tablets

from the Babylonian pieces, but agree in having a teacher/pupil exercise on the obverse, and a longer exercise on the reverse.

BRM IV, 31 (NP II-01) has a list of trees on the obverse (repeated), and a list of trees on the reverse, followed by metrological list. YBC 11118 (unpublished) has a list of dogs on the obverse (left col.; right col. erased, except for one UR sign.), and sheep on the reverse. The tablet published as no. 79 in Dalley 1979 has a passage from some version of Proto-Lu₂ on the obverse. It parallels a passage from the Nippur text, but is not a duplicate of that version (see MSL 12, p53f., 572-584; see also the Isin version in Wilcke 1987, p.100 column 11). The reverse has a metrological table. According to the Edinburgh acquisition records the tablet derives from Sippar. The reliability of this indication cannot be established, but the relative proximity to the Nippur text does not favour it.

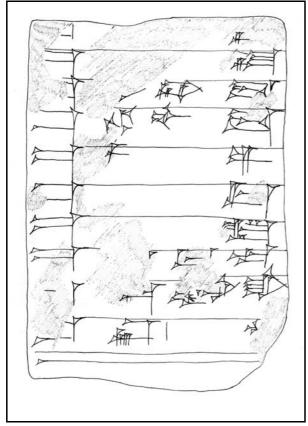


Fig 2.5 UM 29-13-163 (Ni III-03). Type III tablet with a list of wooden objects. 7.5x5.8 cm.

Type III texts are one-column tablets with a single extract from some school text. The length of the extract is between 10 and 15 lines. The same exercise continues from obverse to reverse. Type III tablets are relatively rare. The length of the extract approximately corresponds to the length of a type II obverse extract. The quality of writing clearly points to pupils' copies. These may have been copied from the teacher's example on the obverse of an old type II tablet. As noted above, the model on the left half of a type II tablet was occasionally deliberately cut off for later use. The only tablets which can qualify as being the result of such secondary use are these single column tablets.

2.3.3.4 Type IV: Lentils

Type IV texts are lentil-shaped tablets, typically 6 to 8 centimeters in diameter, with a teacher's example and a pupil's copy. The example is taken from one of the school texts: a lexical list, a mathematical text¹¹⁸, a proverb, or hymn. Lentils were called im-šu,

or hand-sized tablet (George 1993, p.70f.; Civil 1985, p.75f.). Mathematical problems are sometimes called im-šu. In YBC 4657¹¹⁹, for instance, the total number of problems is indicated as 31 im-šu ki-la₂: 31 problems on excavations. Robson (forthcoming) argues that this use of the term im-šu is secondary, and is derived from the custom of making calculations on the back of a lentil. Such calculations are found on the unpublished reverses of a number of lentils from Ur with proverbs on the obverse¹²⁰. Other possible examples are *TLB* 1, 134 and 135. No such use of the reverse of lentils is known to me from Nippur.

In his article on Nippur lentils Falkowitz (1984) lists 356 examples¹²¹. In Nippur the most common type is a two-line model text, immediately followed - on the same side - by the pupil's

No mathematical lentils were included in Falkowitz 1984. The only Nippur example I know of is Ni 2265. A copy of this tablet by Hilprecht is kept in the University Museum in Philadelphia. I was not able to identify the kind of exercise. See further Civil 1985, p.76 n.13.

Neugebauer and Sachs 1945 text G.

The obverses are published in *UET* 6. Eleanor Robson kindly sent me her unpublished hand copies of the reverse exercises, and explained their contents to me. I would like to thank her here for her generosity.

Additional examples in the Hilprecht Sammlung, Jena are very few, probably no more than three (information based on notes by Oelsner), but there are no doubt more in Istanbul.

copy, with the reverse left empty. Occasionally we have an unfinished lentil, without pupil's copy (e.g. TIM X/1 129; Nippur). There are numerous variant types (see Falkowitz 1984, p.20). One Nippur lentil is assimilated to a type II text, in that it has a longer extract in three columns on the reverse $(2N-T730 = IM 58046)^{12}$

A type common outside Nippur is a three-line inscription on the obverse, repeated by a pupil on the reverse. In Isin both types are found side by side¹²³. A lentil from Tell Asmar in the Diyala has a two-line exercise in Sumerian on the obverse. The reverse contains the same text in syllabic

Sumerian, with Akkadian translation (Civil 1975). The type is well known from Susa¹²⁴, but apart from this one example not attested in Mesopotamia proper. The relation with Susian scribal tradition is understandable because the route between Babylonia and Elam went through the Diyala region (see Civil 1976b).

Unlike type II tablets Nippur lentils do not regularly show traces of erasure and rewriting 125. The pupil's writing varies from bad to excellent (Falkowitz 1984, p.21). In one sense the function of the lentils is sufficiently apparent: the pupil learns a few lines from a school text by copying the teacher's model. But it remains unclear how they fit into the system of school texts, or what the functional difference with the type II obverse exercise is. One possibility is that these were the tablets that were brought home to demonstrate progress at

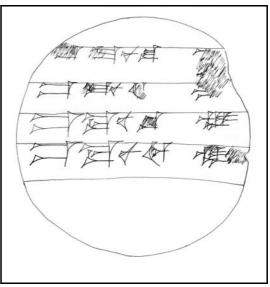


Fig. 2.6 UM 55-21-043 (2N-T207) = Ni IV-08. Type IV tablet (lentil). List of trees.

school to the parents. Lentils are found at almost every Old Babylonian site, but their use may have differed locally. This is demonstrated by the utilization of the reverse for calculations, which is attested in Ur but not in Nippur.

Lentils are frequently found complete or nearly complete, they often bear beautiful and clear writing, and they are nearly always well shaped. For this reason lentils are the most common

124 See MDP 18 and 27; M. Lambert 1975; Tanret 1986.

125

¹²² See Falkowitz 1984, p.41 with n.23, and TIM X/1, p.9. The obverse is copied as TIM X/1, 130. The text is edited as Ni IV-12 in §5.5.

¹²³ IB 1663 and 1664 have two lines, repeated on the obverse. IB 1701 has three lines, repeated on the reverse. These lentils were published by Krebernik 1992, p.110.

Faivre maintains that lentils were regularly remoulded after being inscribed, and that they sometimes still show traces of earlier use (Faivre 1995, p.60). This is not evident from the Nippur material. Faivre's claim that lentils are more common than type II tablets is clearly incorrect for Nippur, though it is true, for instance, for Isin. This difference between the two cities is not necessarily correlated to local differences in the use of exercise types. Type II tablets were usually recycled. Their absence may merely indicate that the Isin school came to an end in a more orderly way.

type of exercises in collections acquired on the market. Lentils are not only attractive for dealers; as they are more photogenic than type II tablets lentils invariably figure as the prime example of school texts in popular literature.

2.4 The Nippur Curriculum

Thematic lexical lists have their place among other school texts in the Nippur scribal curriculum. Waetzoldt (1989) has argued for the existence of levels of scribal training. Not every scribe, so he maintains, would necessarily go through all levels. The existence of two clearly distinguished stages of education may be demonstrated in the extant practice tablets. Nippur exercise compositions may be divided into two major groups. The first group includes lexical lists, model contracts and proverbs. The second group contains literary texts. The distinction in subject matter coincides with a distinction in tablet types used. The first phase is characterized by the use of the tablet types II, III¹²⁶, and IV. These types do not generally appear in the second phase. Type II tablets and lentils (type IV) are the two formats that have a model text by a teacher. Type III tablets do not have a teacher's example, but were probably copied from an old type II model. Literary exercises regularly have no teacher's model. In the second phase the student was required to copy in a more autonomous way, concomitant with the more advanced stage of his education. The lexical exercises, the model contracts and proverbs represent an earlier stage in the learning process, where the student was still closely supervised.

Perhaps we may see a reflection of the first phase of the curriculum in the literary composition Eduba D (Civil 1985). In this text a student boasts about his achievements at school. The exercises he refers to all belong to the first phase, including an elementary sign list, a name list, a thematic list, mathematical and metrological tables, model contracts, and proverbs. It seems that the student depicted here is describing the abilities obtained at primary school.

A further reason to postulate these two phases is comparative evidence. To take just one example, primary education in classical Rome, as described by Stanley Bonner (1977), follows very much the same pattern. The writing of single letters is followed by the writing of syllables. Next came the writing of personal names, followed by nouns and proverbs¹²⁷. Last but not least the pupils were made familiar with mathematics. Study of literature belonged to secondary education.

Literary extracts are often found on one-column tablets, which somewhat resemble the type III tablets described in §2.3.3.3. These literary extract tablets are usually longer than lexical type III texts, and may carry a text of between 30 and 60 lines. In practice, the types can hardly be confused.

See now Cribiore 1996, especially Chapters 3 and 4. The importance of this book lies in a reversal of priorities in the study of ancient education. Older studies, such as Marrou (1948) and Bonner (1977), describe the school from the evidence in literary texts from Plato to St. Augustine, and use extant school exercises as mere illustrations. Cribiore takes her point of departure in the exercises, such as are found on papyrus, ostraca and writing boards, and refers to literary texts to complete the picture. This approach reveals a number of important parallels with Mesopotamian evidence. Cribiore further emphasizes the importance of the distinction between learning how to read and learning how to write (in particular Chapter 10). This distinction has so far been neglected in studies of Mesopotamian education (including my own), but may be fruitful for further investigations. Unfortunately Cribiore's book came too late for a thorough evaluation of its results.

Type II tablets provide the opportunity to analyze the order in which compositions were taught in phase 1. As discussed in §2.3.3.2 the obverse of these tablets has a 'teacher-student' exercise, that is, a model by the teacher on the left-hand side, to be copied by a student on the right-hand side. The reverse has a repetition of material treated earlier. With a sufficient number of type II tablets we can reconstruct the order of the first part of the curriculum, the part in which ur5-ra was used. The main tool for this analysis is the Catalogue of Nippur Lexical Texts. This catalogue is a database in which data from published and unpublished lexical texts of all kinds have been collected. The catalogue is by no means complete 128, but includes a large proportion of the Nippur type II exercises in the collections of Philadelphia, Jena, and Chicago. The database and its contents are described in Appendix I.

In the reconstruction of the curriculum we have to keep in mind that we only have what was put into writing. Musical exercises, to take an obvious example, fall outside our scope since they leave no traces in the archaeological record¹²⁹. Furthermore, doing a lexical exercise consisted only partly of copying a text on clay. As we will argue more fully in Chapter 3, such exercises were accompanied by oral explanations. These explanations form an essential part of the exercise, but are lost to us.

2.4.1 Phase 1: Lists, Models, and Proverbs

2.4.1.1 Basics: Sign elements, Syllable Alphabet, TU-TA-TI, and Name Lists

The first things an apprentice scribe had to learn how to do were making a tablet and holding a stylus. Preparatory writing exercises consisted of repeating one of the basic elements of the cuneiform sign: vertical (DIŠ), horizontal (AŠ), or the oblique wedge (U)¹³⁰. Other exercises repeat all three basic elements: DIŠ-AŠ-U¹³¹. This was followed by repetitions of signs which consist of the simplest stroke combinations, such as A (one large and two small verticals) or BAD (a horizontal and an oblique wedge).

The first real list with which a Nippurian would-be scribe was confronted is Syllable Alphabet B. This is a list of simple signs, in different combinations, and with frequent repetitions¹³². The entries do not seem to have a meaning in any regular sense. The list is basically a drill for mastering the correct sign forms. The interest in syllabographic value or logographic meaning is minimal. Typical sequences are:

An exercise tablet filled with U signs may be found in Hilprecht 1903, p.57 Abb. 38.

The most important omission is the group of unpublished lexical tablets in Istanbul.

For music in the eduba see Sjöberg 1975 and Kilmer 1992.

Illustrated in Hilprecht 1903, p.57 Abb. 39. The type is also found in Sippar-Amnānum; see Tanret 1982.

Syllable Alphabet B was edited by Çiğ, Kizilyay, and Landsberger 1959. See further Michalowski 1983a.

23	ba-ba	61	ma-ma
24	ba-a	62	ma-a
25	ba-ba-a	63	ma-ma-a
26	ba-mu	64	ma-mu
27	ba-ba-mu	65	ma-ma-mu
28	ba-ni	66	ma-ni
29	ba-ni-ni	67	ma-ni-ni
30	ba-ni-mu	68	ma-ni-mu

The entries were interpreted by Landsberger as elements of personal names. As a matter of fact, there are some clear relations with actual name lists. The prime example is lines 121-125, a section which contains meaningful Sumerian entries:

121	igi- ^d en-lil ₂ -še ₃	before Enlil
122	igi-dingir-še3	before the god
123	igi-nin-še ₃	before the mistress
124	igi-e ₂ -kur-še ₃	before the Ekur-temple
125	igi-e ₂ -mah-še ₃	before the lofty temple

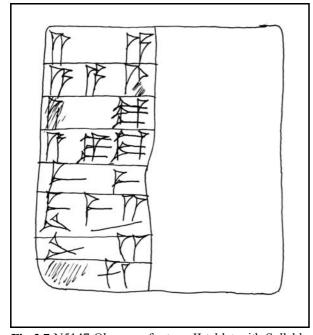


Fig 2.7 N5147 Obverse of a type II tablet with Syllable Alphabet B: easy signs. The reverse has sign elements. 7.5x9 cm.

This section is actually duplicated in one of the name lists (see Landsberger in Çiğ, Kizilyay, and Landsberger 1959, pp.104-105). Landsberger was able to connect a number of items, such as ba-ba-a, ba-za-za, and i₃-li₂ ('my god' in Akkadian) with names or name elements found in business tablets dating before the Old Babylonian period. He assumed that the list had a long history, and that its real nature had already been forgotten by Old Babylonian times. Entries which have no clear relation with a known name were explained as 'Lallnamen', or by errors, crept in as a result of the ignorance of the scribes. Even if many individual lines may be interpreted this way, Landsberger's theory does not account for the overall structure and sequence of the text. The play with syllables, and the clear selection of easy sign forms at the beginning of the list (A, KU, ME, PAP¹³³, BAR, etc), indicate that the first function was

mastering the execution of common signs. This interpretation is consistent with the oversized writing found in most exemplars. Large signs enable the pupil to exercise minutely every detail of the sign. This is not to deny that relations with the onomasticon exist. Such relations, however,

Read PAP (or kur₂) in line 8-9, not kur. The PAP is clear on the photograph of Ni 3237 (Çiğ, Kizilyay, and Landsberger 1959, pl. XI) and in numerous unpublished exemplars in Jena and Philadelphia.

are not decisive for the true nature of the text and its use in the curriculum.

Syllable Alphabet B is mentioned in the literary text Eduba D (Civil 1985) and in a proverb (SP 2.48). In both cases it is clear from the context that a very elementary exercise is meant.

Outside Nippur, Syllable Alphabet B is unknown. A related text, commonly called Syllable Alphabet A, has been found almost everywhere else¹³⁴. The oldest datable exemplars (early Old Babylonian) were found in Susa (Tanret 1986). In detail Syllable Alphabet A is quite different from the Nippur version, but it has the same basic function. Curiously, the textual history of Syllable Alphabet A is much more complicated and interesting. Whereas Syllable Alphabet B disappeared with the Nippur eduba, Syllable Alphabet A survived and is attested in Middle Babylonian and first millennium sources. Most astonishingly, variants are relatively rare. From the Old Babylonian period onwards it is occasionally provided with one, or even two Akkadian columns. These multi-column versions are called 'Syllable Vocabulary A'. Some of the Akkadian items represent real translations of the entries, understood as Sumerian words. Usually the association is rather fanciful¹³⁵. It is probably the relative 'emptiness' with respect to semantics that made the list susceptible to this kind of playful or mystical association. An ineluctable parallel is the Hebrew alphabet and its use in Kabbalistic speculation.

The second list of which the pupils in Nippur took cognizance was TU-TA-TI. It consists of sets of three syllables with permutations of the vowel, in the order u-a-i. Curiously, the /e/ is missing. In a number of cases an /e/ syllable is written by the same sign as the /i/ syllable (for instance the sign LI may be used for the syllables /li/ and /le/). This may have led to a kind of generalization that /e/ syllables are not necessary for the basic repertory. In most versions the syllables are first given one by one, and then as a triad. Each entry is preceded by a vertical wedge (here represented by ¶):

¶ tu ¶ ta

¶ti

ηu

¶ tu-ta-ti

¶nu

¶na

¶ni

¶ nu-na-ni

Old Babylonian examples have been found in Ur, Uruk (Cavigneaux 1996, texts 188-192 and 255-257), Larsa (*BBVOT* 3,84 reverse), Isin, Kiš, Sippar, Tell Harmal (*TIM* 10/1, 144 and 168), Ishchali (Greengus 1979 no. 293), and other places. The main bibliography may be found in Landsberger 1933; Çiğ, Kizilyay, and Landsberger 1959, p.98 n.4; Tanret 1986, p.144; Cavigneaux 1983, p.619. Isin texts are unpublished: IB 441 (see Tanret 1986, p.144); IB 1562 (see Wilcke 1987, p.104; the piece contains the beginnings of 100-109). The Kiš texts are also unpublished, but numerous exemplars may be identified from the catalogue of Série A in *PRAK* II. Two Nippur pieces are known: CBS 14150 and UM 29-15-460. These two do not represent elementary exercises. See the discussion in §3.6.

Landsberger 1933; Nougayrol 1965; Sollberger 1965; *Emar* 6/4, pp.194-198; Edzard and Wilcke 1977, p.86; Beaulieu 1995. In some exemplars Syllable Vocabulary A is associated with a creation myth (Edzard and Wilcke 1977, p.86 with previous literature).

At present three different versions of TU-TA-TI have been identified in Nippur¹³⁶. The great majority of exemplars follow 'version a'. This version can be reconstructed in its entirety and numbers 116 lines, followed by the traditional subscript ^dnisaba za₃-mi₂: 'Praise to Nisaba'. The other two versions are known only from a few duplicates each. Further, there are some exemplars which cannot be attributed to any of these versions. In a few TU-TA-TI texts Akkadian words and phrases are included in the following style¹³⁷:

```
¶ a
¶ na
¶ ša
¶ ši
¶ im
¶ a-na ša-ši-im 'to him/her'
```

The distribution of TU-TA-TI in the Old Babylonian period is remarkable. In Nippur the exercise is not found among the 3N-T school texts, even though other elementary texts such as Syllable Alphabet B and name lists are abundantly represented. One could speculate that the text was used by some teachers, and omitted by others. Outside Nippur TU-TA-TI is rare. Two pieces are known from Uruk (Cavigneaux 1982, p.29 nos.10 and 11), two other tablets derive from unknown sites (*TIM* 9, 85 and *RA* 9, p.80) 138. Otherwise TU-TA-TI is only attested in Middle Babylonian Amarna and Ugarit 139. This paucity of evidence outside Nippur may be partly due to chance. In Northern Babylonia a related exercise is attested 140.

TU-TA-TI seems at first sight to be directed at learning how to write Akkadian. This impression is caused by the emphasis on syllabic values and the Akkadian words in some exemplars. However, at least one of the syllable sets in standard TU-TA-TI can only be explained from typically Sumerian sign values: gu₁₀-ga₂-gi₆ (version a: 61-64). Other sets, necessary for Akkadian, are missing, especially the emphatics. Syllable Alphabet B, on the other hand, was called the 'Sumerian Primer' by Chiera¹⁴¹. This text does contain a number of good Sumerian forms, such as i₃-ba ('he gave'). However, entries which are simply not Sumerian abound. The Sumerian look

^{&#}x27;Exemplar a' was edited by Çiğ, Kizilyay, and Landsberger (1959). New duplicates in the University Museum in Philadelphia provide the last few lines. The edition of 'exemplar b' in the same volume is erroneous. The text begins in the same way as version a (tu-ta-ti; nu-na-ni). Some new duplicates have been identified. The third version is found on a Louvre tablet (Thureau-Dangin 1912, p.80; unprovenanced) and on a few unpublished Nippur prisms and tablets.

The example is from the six-sided prism fragment HS 1801, side 6, lines 6'-11'. For other examples see Ciğ, Kizilyay, and Landsberger 1959, p.65; and §2.5.3 of the present study.

The Kish text A 371 (Genouillac *PRAK* II, p.54) may be another example, but the description is not entirely clear.

Curiously the exercise seems to be absent in Emar.

Tanret 1989. The relation between this list and TU-TA-TI is discussed in §2.5.3.

See the catalogues in Chiera 1916.

of Syllable Alphabet B is more apparent than real. It is merely based upon the absence of specifically Akkadian characteristics. In the form as we know them Syllable Alphabet B and TU-TA-TI are not defined by either Akkadian or Sumerian. The former is primarily directed at sign forms, the latter at syllabic values. They are used to teach cuneiform, relatively independent of language.

The next element of basic scribal training consisted of lists of personal names. Various lists have been identified: Akkadian names, Sumerian names, and a list that orders names in groups of three. At present three or four lists are distinguished (see Çiğ and Kizilyay 1965 and Cavigneaux 1983, p.618f.). It is possible that these name lists occupied different places in the curriculum. Until all the lists of personal names have been reconstructed in an adequate way, it is difficult to judge. Provisionally, the lists of personal names will be treated here as a single category. Syllable Alphabet B was probably followed by one list of personal names. The list of Akkadian names (commonly called list C) perhaps followed TU-TA-TI. Occasionally, name lists may have been treated at a later stage in the curriculum.

Lists of names fulfilled different functions. The list of Akkadian names contains numerous Akkadian words and verbal phrases, in some way continuing the kind of training found in TU-TA-TI. The list is repetitive, giving the same set of words in combination with various divine names to produce personal names. For this reason, apart from training and memorizing the names, the list may also have functioned as training in elementary literacy in Akkadian. If there was a category of scribes who were trained exclusively in Akkadian writing, the lists of Sumerian and foreign names would be of prime importance. Without understanding Sumerian such scribes had to be able to write Sumerian names correctly, and also names in other languages such as Amorite. Without these skills, even simple documents might well pose insurmountable problems. The existence of such semi-literate scribes cannot be proven, but cannot be excluded either.

The curricular order of the elementary exercises may be demonstrated by analyzing the contents of type II tablets. The following table comprises the type II texts presently included in the catalogue. Tablets which are either broken or unidentified on one side are excluded. For the other tablets five categories are distinguished for both obverse and reverse:

- 1 Sign Elements
- 2 Syllable Alphabet B
- 3 TU-TA-TI
- 4 Name lists
- 5 All other exercises

REVERSE by OBVERSE

		OBVERSE				
	Count					
		SA B	TuTaTi	PN	Other	
						Row
		2.00	3.00	4.00	5.00	Total
REVERSE		+	·	·	·	
	1.00	6				6
Sign Elem	ents					.8
	2.00	+ 104	 5	27	 14	150
SA B		İ	İ	j	İ	18.8
	-	+	·	·	·	
	3.00		2	18	28	48
TuTaTi						6.0
		+	·	h	·	
	4.00	1	1	48	66	116
PN						14.6
		+		++	+	4.5.5
0.1	5.00			3	474	477
Other		 +	 	 	 +	59.8
	Column	111	8	96	582	797
	Total	13.9	1.0	12.0	73.0	100.0

A number of conclusions may be drawn from this table. First, the Sign Elements exercise is found occasionally on type II tablets. In all six cases it appears on the reverse, with Syllable Alphabet B on the obverse 142. The Sign Elements otherwise appear on tablets that fall outside the common typology; usually large and rather flat tablets without a teacher's model. Excluding the Sign Elements, the upper-right half of the above table is better filled than the lower-left half. There are, for instance, 27 type II tablets with names on the obverse and Syllable Alphabet B on the reverse, and only one tablet with an inverse distribution. This indicates that Syllable Alphabet B precedes the names in the curriculum. Similarly, there are 5 tablets with TU-TA-TI on the obverse and Syllable Alphabet B on the reverse, but none the other way round. The exceptions, located in the bottom-left half of the table, are few and invariably due to the lists of names. In general, the analysis confirms the order Sign Elements - Syllable Alphabet B - TU-TA-TI - Name lists - Other exercises.

2.4.1.2 Lexical Lists: Ur₅-ra

The curriculum continued with ur₅-ra, the thematic lists of objects. Old Babylonian tablets with an ur₅-ra exercise are always unilingual Sumerian in format. It is assumed with good reason that the correct pronunciation of each Sumerian word and its Akkadian translation were provided

In all examples found so far the obverse has the first few lines of Syllable Alphabet B.

orally by the teacher. The pupil is only starting his course in Sumerian. Without a translation the Sumerian words would make no sense to him. In one of the eduba dialogues (Eduba D), a lexical text which has come down to us in unilingual copies only is referred to by its bilingual incipit $lu_2 = \underline{s}_{-}$. This list does not belong to ur_5 -ra, it is a list of of terms referring to human beings (see §2.4.1.3), but it proves that a unilingual written format for an essentially bilingual text is conceivable in this period. Similarly, the sign list Proto-Ea (see §2.4.1.3) is found in two formats: a format with, and one without glosses 144 . The format without glosses is used by relatively advanced pupils. In the absence of glosses the text makes little sense, so we must assume that the pupils who used this format had learned the glosses by heart.

In the case of ur₅-ra, the existence of Akkadian translations provided orally is further indicated by a few sections in the list, whose organization can only be explained with the help of these translations (see §3.3). Sumerian pronunciation and Akkadian translation were probably learned by heart by the pupils. The ur₅-ra we have is therefore only part of the ur₅-ra as it was used in class. We will come back to this point and several of its implications in subsequent chapters.

Nippur ur₅-ra was divided into six divisions. In the following table the contents of each division are presented, as well as the approximate correspondence to the tablet division in the first

millennium series.

Division	Contents	Corresponding tablets in late ur ₅ -ra
1	trees and wooden objects	3-7
2	reed and reed objects; vessels and clay; hides and leather objects; metals and metal objects	8-12
3	domestic animals; wild animals; meat cuts.	13-15
4	stones and plants; fish and birds; clothing.	16-19
5	geographical names and terms; stars.	20-22
6	foodstuffs	23-24

This division is first of all indicated by subscripts. Nippur school compositions generally end with a za₃-mi₂ ('praise!') subscript¹⁴⁵. In lexical texts it has the form ^dnisaba za₃-mi₂¹⁴⁶. This

See Civil 1985, p.74 (commentary to line 14).

See Civil in *MSL* 14, p.4. Similarly for Proto-Diri.

In Assyriological literature these subscripts are generally referred to as 'Doxologies' (see in general Wilcke 1975, pp.246-248). I prefer the more neutral term subscript.

subscript is only found at the end of the divisions indicated above. The phrase is not only found on large tablets and prisms, but also on Type II tablets which happen to contain the end of a division. The phrase, therefore, constitutes an inherent part of the text.

Prisms commonly contain a complete division. The following ur₅-ra prisms and prism fragments

are known to me:

Division	Museum no.	Publication	Edition
1	CBS 12486 N 5260 N 6766 + N 6960 3N-T905,211 A 30187 (3N-T259) IM 58599 (3N-T655)	SLFN 73 ¹⁴⁷	Ni P-04 Ni P-03 Ni P-01 Ni P-02 Ni P-06 Ni P-05
2	CBS 7844 + HS 1796 + HS 1869 (+) CBS 7855 ¹⁴⁸ 3N-T649 HS 1686	SLT 191 + HS pieces (+) SLT 89	MSL 7, p.178 V7; p.211 V25; p.229 V1 MSL 7, p.211: V24
3	UM 29-13-260 ¹⁴⁹ HS 1765 ¹⁵⁰ HS 1799		MSL 9, p.41: V3
4	UM 55-21-407 (3N-T911p) HS 1659 + 1760 + 1761 + 1813+ 1864 ¹⁵¹		MSL 10, p.120: I
5	CBS 7827 (+?) Ni 2340 CBS 11034 UM 29-16-206 + N 6249 A 30145 (3N-T105) HS 1789	<i>SLT</i> 212 + unpubl. <i>SLT</i> 213	MSL 11, p.93: C and p.95: J1 MSL 11, p.93: H MSL 11, p.93: G MSL 11, p.96: B2
6	CBS 11082	<i>SLT</i> 15	<i>MSL</i> 11, p.110: B

Nisaba is the goddess of writing.

The piece was not described as a prism fragment in *SLFN*.

The identification of the HS pieces as belonging to the same prism as the CBS fragments was made by Oelsner.

Small fragment, may be a type I tablet.

The section wild animals has an independent recension.

All joins Oelsner.

Some of the listed pieces are rather small, and do not allow conclusions about the length of the text the entire prism once contained. The pieces which do allow conclusions always had one of the six divisions in its entirety. None of the pieces contains parts of more than one division. A nice example is N 6766+. This is a small fragment of a six-sided prism with a list of trees and wooden objects. It is included in the edition in §5.4 as Ni P-01. The legible lines on the best preserved side contain lines 614-622 in column 1 and 688-696 in column 2. This is very close to the end of division 1; the last line in the composite text is numbered 707. This side, therefore, is side 6, and the next side must be side 1. Only some traces of this side remain, but enough to identify the beginnings of lines 37-39 of the composite text. The fragment, therefore, derives from a prism that once had division 1 in its entirety.

Entire divisions are not only found on prisms but also on some type I tablets. An example is UM 55-21-314+ which contained division 1^{152} . Sometimes a division is split into two or three parts, the parts connected by catch-lines. In all cases the text is broken up at a meaningful point. Thus CBS 13935 (SLT 179) has a list of stones, the beginning of division 4, with a catch-line to the section plants. HS 1617 also has the beginning of division 4. It includes the sections stones, plants, and fish, followed by the catch-line to the section birds: $u_5^{\text{mušen153}}$. Interestingly, the last column of this tablet is not used. Apparently the scribe foresaw that this column would not suffice to complete the next section, the list of birds, and he preferred to break off at a meaningful place. Instead the last column is partly inscribed with a list of month names¹⁵⁴. Two tablets are known which have the second half of division 2, beginning with the hides (CBS 6522 = SLT 201¹⁵⁵ and CBS 10067 = SLT 41¹⁵⁶). This is interesting because the same break-up is known from Old Babylonian Isin and Middle Babylonian Ugarit and Emar¹⁵⁷. In Nippur this break-up was not standardized. CBS 13867 is a fragment of a relatively small Type I tablet which had only the section reed and reed objects. N 5625 (MSL 7, p.210: V8) begins with the section hides and ends with the section copper, followed by a catch-line to the section bronze. The latter piece shows that division 2 could be distributed over at least three type I tablets.

The only natural point for a break-up of division 1 is between the trees and the wooden objects. There are two tablets which probably had the list of trees only 158. This is a very uneven

Edited below as Ni I-05.

None of the tablets published so far has the beginning of the Nippur bird list. The end of the fish list and the beginning of the bird list (u_5^{musen}) are extant on the prism HS 1659+.

All 13 lines of the list are preserved. It is placed in the middle of the column, the rest of the space being anepigraphic. The month list ends with iti še-kin-kud; iti diri-bi. The list may be taken as an extract from Proto-ki-ulutin-bi-še₃, but since the list is so very self-contained, it probably does not make much sense to do so. For other examples of blank-space fillers see §2.3.3.1.

¹⁵⁵ See *MSL* 7, p.230: V5.

Only the obverse was published in *SLT*. See *MSL* 7, p.212 V31 and p.230: V12.

Isin: IB 1546+1622a (reed, reed objects, vessels); IB 1612b (hides, etc.); see Wilcke 1987, p.103f. For Ugarit and Emar see Van Soldt 1995 and §2.5.1.2.

¹⁵⁸ N 4983 (Ni I-03) and N 5881 (Ni I-09).

distribution since the trees occupy lines 1-141 whereas the wooden objects cover over 550 lines. Instead the text was commonly divided between the section wagons and the section doors. The second half begins at line 374. There are two type I tablets which have the first half of division 1: CBS 6068 (= *SLT* 170) and N 1361+; both end with the catch-line to the section doors. CBS 5931+ has the text from the section doors to the end, followed by the subscript ^dnisaba za₃-mi₂¹⁵⁹. The same break-up is attested in Isin¹⁶⁰ and in the Middle Babylonian versions from the Western periphery (see §2.5.1.2).

The conventions used for prisms and type I tablets are also found in other lexical series. An example is Proto-Izi, a more advanced lexical exercise (see §2.4.1.3). Type I tablets either have the whole text of Izi, or one half, but the praise to Nisaba is only found at the very end. Type I tablets which contain the first half of Izi have a catch-line to part 2 (*MSL* 13, p.7). Accordingly, one division of ur₅-ra was treated on the same level as the lexical composition Proto-Izi. The six divisions were regarded as more or less independent units. Only one example of an exercise tablet that crosses the borders between two divisions is known to me¹⁶¹. It is a type II tablet with proverbs on the obverse. The reverse has an extract from the last section of division 4 (*MSL* 10, p.144 G), and continues with the beginning of division 5 (*MSL* 11, 93 F)¹⁶². The importance of the division's borders is illustrated by the reverse of the exercise tablet CBS 11342+ (*SLT* 194)¹⁶³. The reverse has an extract from the list of wooden objects. When the junior scribe came to the end of division 1 he wrote the conventional subscript. He did not continue with the beginning of division 2, but started again with the beginning of division 1.

Nippur ur₅-ra as presented above follows the same general order of the topics treated as the first millennium series. This, however, is by no means a matter of course. Other Old Babylonian traditions kept to an entirely different order. The Nippur version was one among many. In §2.2 we discussed lexical texts from Ur, Kisurra, and Tell Harmal which demonstrated divergent arrangements of basically the same topics as those found in Nippur ur₅-ra. By way of example we can compare the order of the topics in the two Diyala region cylinders (Ishchali[?] see §2.2.3) with the Nippur tradition:

A 7895	Nippur division
rivers	5
snakes	3
domestic animals	3
?	
foodstuffs	6

Edited as Ni I-01; Ni I-08; and Ni I-10 respectively. Fragments belonging to CBS 5931+ (Ni I-10) are published as *SLT* 132; 159; and 165 (A-E).

IB 1535+ (first half; edited in §5.6.1 as Is I-01) and IB 1512c+ (second half; edited in §5.6.1 as Is I-03). See Wilcke 1987, p.102f.

¹⁶¹ N 5084 = Gordon 1968, Plate 56.

The obverse has a multiplication table and a Proverbs exercise. This rare sub-type is described in §2.4.1.4..

¹⁶³ Ni II-002.

A 7896	
plants	4
wild animals	3
domestic animals	3
hides	2

The astonishing fact is not so much that the order of the topics treated differs from the Nippur tradition, but rather that the cylinders differ among themselves. Apparently the idea of a fixed order did not exist in Ishchali.

Type I tablets and prisms yield the units into which Nippur ur₅-ra was divided. There is no example of a catch-line connecting two divisions. Therefore, the order of the divisions cannot be known on the evidence of type I tablets and prisms. The only way to establish the Nippur order is by an analysis of type II tablets. In the following table the exercises are divided over elementary exercises (the exercises discussed in §2.4.1.1), the six ur₅-ra divisions, and other exercises. The last group contains all exercises treated after ur₅-ra.

8	OBVERSE								
Count	 Elemen- tary	Urra 1	Urra 2	Urra 3	Urra 4	Urra 5	Urra 6	Other	Row
		5.00	6.00	7.00	8.00	9.00	10.00	11.00	
REVERSE		+	+		+			+	
1.00 Elementary	212 +	47 +	28 	7 	12 +	1 +	1 +	12	320 40.2
5.00 Urra 1	2	20	32	9	21	2	2	32	120 15.1
6.00 Urra 2	+ 	+ 	+ 3 	+· 	+ 1 	+ 	+ 	+ 10 	 14 1.8
7.00 Urra 3	+ 	+ 	+ 	+4	+ 2 	+ 6 	+ 5 	+ 35	 52 6.5
orra s	 +	। +	 +	 	। +	ı +	+	+	0.5
8.00 Urra 4	 	 	 	2	4	3	 	5	14
9.00 Urra 5	 	 	 		 	4 4	1 1	7 7	 12 1.5
10.00 Urra 6	+ 	+ 	+ 	+· 	+ 	+ 	+ 2 	+ 7 	 9 1.1
11.00 Other	+ 1 	+ 	+ 1 	 3 	+ 1 	+ 1 	+ 5 	+ 244 	 256 32.1
Column	215	 67	 64	 25	 41	 17	 16	352	+ 797
Total		8.4	8.0	3.1	5.1	2.1	2.0	44.2	100.0

The bottom-left part of the table is almost empty, in the upper-right half most slots are filled ¹⁶⁴. Most of the exceptions are due to the exercises treated after ur₅-ra. A type II tablet with, for instance, division 2 on the obverse, may have on the reverse division 1, division 2, or an elementary exercise, but not divisions 3-6. The order of the ur₅-ra divisions is confirmed with no more than two exceptions: there are two tablets with division 3 on the obverse, and division 4 on the reverse.

An Old Babylonian catalogue text from the Yale collection (YBC 13617), published by Hallo (1982, p.82), is a rare example of a catalogue text listing lexical compositions¹⁶⁵. The tablet is of unknown provenance. The first column gives a list of abbreviated literary incipits. The second column runs as follows:

Col II		
1	DIŠ A	
2	DIŠ AN	
3	^{giš} taskarin	boxwood
4	gi-gašam	a kind of reed
5	udu	sheep
6	^{na₄} ka-gi-na	hematite
7	ZI ?- du_8 ?	
8	lu ₂ -X	
9	⁺ NE ^{?+} -bi	
10-11	traces	

There can be little doubt that lines 3-8 list the main divisions of Old Babylonian ur₅-ra, followed by an Old Babylonian list of human beings (Lu₂)¹⁶⁶. We may compare the items with the *incipits* of the Nippur divisions.

Yale catalogue: *Incipits* of the Nippur Divisions:

3 ^{giš}taskarin 1 ^{giš}taskarin boxwood 4 gi-gašam 2 gi-gašam a kind of reed 5 udu 3 udu-niga fattened sheep

Actually some slots in this part are empty. This may be due to several factors. Some parts of ur₅-ra have been excerpted on type II tablets more often than other parts. Some parts have been better edited than other parts. This implies that more tablets have been identified. Both factors mean that the probability of finding and identifying a certain combination of obverse and reverse exercises is not evenly spread.

The only other example is *UET* 5, 86 (see Charpin 1986, p.453ff. with previous literature). For catalogue texts see Weitemeyer 1990. The Yale catalogue was omitted from his discussion.

The traces as copied allow for lu₂-šu, which was the title of Proto-Lu₂ (Civil 1985, p.74: commentary at line 14). Another possibility is lu₂-azlag₂(TUG₂), which is the incipit of the Old Babylonian Lu₂ (*MSL* 12, p.151). Line 1 represents an Old Babylonian sign list. Sign lists almost invariably begin with the sign A (see the discussion of Proto-Ea, §2.4.1.3). Line 2 is probably an abbreviation of a name list, for instance the list ^dInanna-teš₂ (see Civil 1985, p.74 commentary at line 13, with references). That it is not a god list may be argued from the initial single vertical (DIŠ). Line 9 might be Proto-Izi, but judging from the copy the reading NE is very uncertain.

6 ^{na} 4ka-gi-na	4 ^{na} 4ka-gi-na	hematite
7 ZI?-du ₈ ?	5 a-ša ₃ -du ₈	cultivated? field
	6 a	water

The catalogue is not from Nippur but the differences from the list of Nippur *incipits* are very small indeed. The most important ones are found at the end. Line 7 is difficult to read and interpret but probably indicates the list of geographical names and terms (division 5 in Nippur). There is no entry in the catalogue corresponding to Nippur division 6 (foodstuffs). Perhaps the geographical names and the foodstuffs are taken together as one division. Such a tradition existed in Old Babylonian Larsa, as exemplified by AO 6447¹⁶⁷. The *incipit* udu for the domestic animals (as against Nippur udu-niga) is known from later versions of the same list.

Division 1 numbers over 700 lines. Division 5 is reconstructed with 431 lines (MSL 11, pp.97-109). If we take an average of 550, the series had approximately 3300 lines. These 3300 lines cannot be regarded as one indistinctive string of words. There are differences between sections. The proportions between the various tablet types are not the same for all divisions. The list of geographical names (division 5) has numerous type I tablets and prisms. For the foodstuffs (division 6) only one prism has been identified so far. The beginning of the tree list (division 1) is frequently copied on the reverse of type II tablets. Dozens of examples are known. The last section of division 4 (wool and clothing), on the other hand, is rarely copied on the reverse of a type II tablet. The total number of tablets of all types used in the reconstruction of this passage in MSL 10, pp.144-149 is only 14, and a number of lacunae and uncertain reconstructions remain. The textual stability of the Nippur ur₅-ra is uneven as well. Some sections are fairly well standardized, with occasional variants, additions or omissions. Examples are the list of reed objects (beginning of division 2) and the list of stones (beginning of division 4). The list of herbs (SAR), on the other hand, is notorious for showing a different redaction in almost every source¹⁶⁸. The list of birds, part of the same division, is also poorly standardized¹⁶⁹. The list of domestic animals (beginning of division 3) may be found in its entirety on the back of a type II tablet, with the catch-line to the section muš (snake) after a horizontal line¹⁷⁰. For the other sections, catch-lines on a type II tablet are unknown to me.

The differences between various sections of ur₅-ra may be explained by at least two factors. Firstly, some sections of ur₅-ra have a textual history that goes back to third millennium lexical lists, whereas others do not. The relations with these earlier lists are still largely unclarified. Secondly, the distribution of ur₅-ra over types of exercise tablets shows that the custom was not to start with division 1 line 1 and continue to the end of division 6. Generally, the beginning of each division is found more frequently than later parts of the text. An in-depth study of the use of

¹⁶⁷ RA 32, p.168ff.; MSL 11, p.129ff.; Van Soldt 1993, p.429.

See the edition in *MSL* 10, p.119ff. The Jena prism HS 1659 + has a version of the section u₂ on face C, col. I, generally corresponding to 'Section A'. Col. II (SAR) has sequences from the sections C, C' and C'', in an order that cannot be reconciled with any of the pieces edited in *MSL*.

Personal communication M. Civil. No edition of this text is available.

Examples are CBS 6463 + N 5763 and CBS 6418 + N 4072 (edited as V19 and V20 respectively in *MSL* 8/1, p.81ff.).

these lists in the eduba will require a thorough investigation of all divisions and their sources, an undertaking that goes beyond the limits and scope of this study, and requires much more preparatory work.

2.4.1.3 Advanced Lists

Ur₅-ra is succeeded by a variety of other compositions: metrological tables, sign lists, so-called acrographic lists, and mathematical tables. A metrological table gives the correct writing for different kinds of measures: surface, capacity, weight. These lists have a standard sequence 171. An important sign list is Proto-Ea. Proto-Ea provides for each sign the available Sumerian readings, or pronunciation glosses. Each line is preceded by the single vertical wedge as item indicator. The list begins ¹⁷²:

1	$\P a_2$	A
2	¶ia	A
3	¶ du-ru	A
4	¶ e	A
5	\P a	A
6	\P	A.A
7	¶ sa-ah	HA.A
8	\P am	A.AN
9	¶ še-em ₃	A.AN

The sign A was probably considered the most basic or simple sign¹⁷³. The first five lines give different possible readings of this sign in Sumerian. This is followed by some complex signs, combining A with another sign. In principle complex signs are treated in Proto-Diri, to be discussed presently. We must assume that complexes like A.AN were considered as one sign, or that the distinction between simple signs and complex signs is not a very strict one. Different Sumerian values represent either allophones of the same Sumerian word, or different Sumerian words. Thus the first value of the sign A is: a, meaning water, another value is duru5, meaning wet. Old Babylonian Proto-Ea has no translations into Akkadian¹⁷⁴. Probably, such explanations were added orally by the teacher. In first millennium versions Akkadian translations are an inextricable part of the text.

¹⁷¹ Some examples are found in Neugebauer 1937, Band 1, pp.88-90.

¹⁷² MSL 14, p.30. A detailed description of Proto-Ea by Civil is found in MSL 14, p.3ff.

¹⁷³ Sign lists usually begin with A, and use the single vertical wedge (DIŠ) as item indicator. Examples are S^a (late Old Babylonian examples attested in Tell ed-Der, Tanret 1982), the Uruk sign list (Cavigneaux 1982: W20248, 3; Waetzoldt 1986a, pp.5-7), the Susa sign list (MDP 27, 1; 4; and 175-177), and a sign list from Isin (IB 1621). All these lists may in fact be related somehow to Proto-Ea (see MSL 14, p.167).

A bilingual version of Proto-Ea with a number of Akkadian translations for each of the Sumerian values is known as Proto-Aa. This list was occasionally used at a more advanced stage of the curriculum. See MSL 14, pp.85-86.

Advanced students regularly omitted the glosses and only wrote the Sumerian column. The glosses and Akkadian translations were no doubt learned by heart. Edzard (1982) and Michalowski (1983a) both comment on the organization of the series, which is based on pedagogical considerations. One of the main ordering principles is the 'Gestalt' (Michalowski 1983a, p.152) of the signs listed. The composition has frequently been grouped by modern scholars with the elementary exercises TU-TA-TI and Syllable Alphabet B¹⁷⁵. The analysis of obverse-reverse correlations of the relevant type II tablets reveals another order. Ea was commonly introduced after ur₅-ra, though a few exceptions exist.

Proto-Ea was followed by a thematic list, Proto-Lu₂. This is a list of titles and professions, kinship terms, and other designations for human beings. It includes a number of entries which do not refer to human beings, but are attracted by graphic or thematic similarity. Thus the section on singers includes a section on songs. The section farmers is followed by a section for furrows. The word for furrow has several spellings. Some of these spellings include the sign APIN which is identical with the sign for engar: farmer 176. Proto-Lu₂ begins with the relative personal pronoun lu₂¹⁷⁷. The list then continues with high members of the court hierarchy:

1	lu_2	who
2	lugal	king
3	nam-dumu-na	status of crown prince
4	sukkal	a court official
5	sukkal-mah	chief court official
6	sukkal-ša ₃ -e ₂ -a	overseer of the palace
7	sukkal-i3-du8	overseer of the doorkeepers

Proto-Lu₂ was followed by Proto-Izi. This composition belongs to the acrographic lists. Acrographic lists are ordered by the first or main sign of each entry. Civil has demonstrated that the organization of Proto-Izi also depends on semantic, graphic, and phonetic association ¹⁷⁸. In general, words already treated in ur₅-ra are omitted. Some sources of Proto-Izi add pronunciation glosses and/or Akkadian translations to selected items but most tablets record the Sumerian word only. The list begins as follows ¹⁷⁹:

The reconstruction of the initial exercises as TU-TA-TI - Syllable Alphabet B - Proto Ea was originally proposed by Landsberger in Çiğ, Kizilyay, and Landsberger 1959, p.97 and then followed by most authors (e.g. Sjöberg 1975, p.162; Hallo 1989, p.237).

This description of Proto-Lu₂ depends on Civil's introduction to the text in MSL 12, p.25, where a more thorough discussion may be found. See also Civil 1994, p.173.

¹⁷⁷ The word lu₂ usually means man, but is also used as relative personal pronoun. From later bilingual parallels it appears that it is listed here in the latter sense.

Proto-Izi has been described by Civil in MSL 13, pp.7-10.

¹⁷⁹ MSL 13, p.41f.

1	izi	fire
2	ne	kiln
3	NE	ember
4	NE	flame
5	de_3	ashes
6	izi-gar	furnace
7	i-bi ₂	smoke
8	ne-mur	glowing ashes
9	sag-izi	torch
10	sag-zi	
11	u_3 -dub ₂	charcoal
12	ganzer ₂	flame
13	ga-an-ze2-er	
14	an-bar7	heat of the day
15	an-bar7-gan2	midday

Most items in this opening section contain the sign NE read izi, ne, de₃, bi₂, or bar₇, or as a part of the complex sign ganzer₂ (NE.SI.A). Lines 14 and 15 use the reading bar₇, but at the same time introduce a new section, with lines beginning with the sign AN. Lines 10 and 13, which do not contain a NE sign, are spelling variants of 9 and 12 respectively. Line 11, u₃-dub₂: charcoal may have been attracted by the semantic similarity with the rest of the section. Moreover, this word has an alternative spelling NE.SI.A, which is a homograph of the next line, ganzer₂.

In addition to Proto-Izi, the group of acrographic exercises includes Proto-Kagal and Nigga. These three lists were probably treated during the same curricular phase. The series are best attested in Nippur, but for all of them there is some evidence for their existence elsewhere. Proto-Izi, for instance, is now known from Ur, Isin, Sippar, and unknown places¹⁸⁰. Old Babylonian bilingual versions of Proto-Izi and the other acrographic lists exist but they are rare.

Proto-Diri is a very important sign list. In Diri, complex signs composed of two or more basic signs are listed. These complexes are accompanied by their Sumerian reading and one or more Akkadian translations. The list is ordered by various criteria. There is a section with reduplicated signs, listing such combinations as TAK₄.TAK₄; TUR.TUR; and LAGAB.LAGAB. Other sections are ordered by first sign, such as IGI and GIŠ. There is a passage with personal pronouns. The following example is taken from the unpublished edition by M. Civil¹⁸¹. The first column gives the Sumerian pronunciation gloss. It is followed by the sign complex (in capitals) and by one or more Akkadian translations (in italics).

¹⁸⁰ See *MSL* 13, p.9 and Wilcke 1987, p.101f.

I would like to thank Prof. Civil here for his generous permission to use his hypertext version of Diri.

mu-mu-un	KA×LI.KA×LI	rigmum	screaming
		šiptum	incantation
		wāšipum	exorcist
[d]a-da-ag	UD.UD	ellum	pure, clean
		ebbum	pure, clean
		namrum	shining
hu-hu-ud	UD.UD	ellum	pure, clean
		ebbum	pure, clean
		namrum	shining
	[d]a-da-ag	[d]a-da-ag UD.UD	ightim siptum wāšipum [d]a-da-ag UD.UD ellum ebbum namrum hu-hu-ud UD.UD ellum ebbum ebbum

Among the Old Babylonian school texts, Proto-Diri is one of the few compositions which is regularly copied in bilingual format. The pronunciation glosses in the first column are often omitted. In the post-Old Babylonian tradition, however, the glosses are an essential part of the text.

Approximately at this stage of the curriculum mathematical tables were introduced. They contain either multiplication tables or tables of reciprocals. In content they are rather different from the exercises treated above. They deal with numbers rather than with words or signs and they display a degree of systematics and predictability not found in the lexical series. In format, however, they are similar to bilingual lists. In a bilingual list each entry expresses a relation between two words. In a multiplication table a line represents a relation between two numbers. One type of mathematical list looks like this:

1	O
2	12
3	18
4	24
5	30
6	36
(etc.)	

6

The multiples included are 1-20; 30; 40; and 50^{182} .

In many cases we find mathematical tables on both sides of a Type II tablet. Another common combination is proverbs or model contracts on the obverse, and a mathematical table on the reverse.

In the following table the evidence of the type II tablets for the compositions discussed in this section is summarized. The category 'Elem/Urra' contains the elementary exercises discussed in §2.4.1.1 and the ur₅-ra divisions (§2.4.1.2). 'Other' combines the Model Contracts and Proverbs (to be discussed in §2.4.1.4). The table shows the position of the exercises relative to each other.

See Chapter 2 in Neugebauer and Sachs 1945 for a comprehensive description of mathematical tables and their typology.

REVERSE by OBVERSE OBVERSE											
	 Elem Urra	Metrolog	P-Ea	P-Lu	P-Izi	P-Kagal	Nigga	P-Diri	Math tal	o Other	Row
	1.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00		19.00	
REV Elem Urra	433	10	+ 37 	+ 20 	+ 4 	+ 7 	+ 2 	+ 1 	+ 2 	+ 25 	 541 67.9
Metr	+ 4 +	6 	12	 5 	 4 	 5 	+ 	2 2	 	20 	 58 7.3
P-Ea	5 +	4	31 +	8 +	2 +	 	3 +	6 +	 	13 +	72 9.0
P-Lu	 +	 +	3	1 +	2 +	2 +	 +	 +	 +	4 +	12 1.5
P-Iz	 +	2	3	2 +	4 +	2 +	1 +	 +	 +	14 +	28 3.5
P-Ka	 +		1	 +	 +	2 	 +	 +	1 +	1 +	5 .6
Nigg	 	2		 	1 	 	1 	1 +	 	14 	 19 2.4
P-Di	 			 	 	 	 	1 	 	1 	2 .3
Math	2 	 	1 	 	 	 	1 	1 	17 	17 	39 4.9
Othe	1 1	2	 	 	 	1	 	1	2	14 	21 2.6
Col Tot	445 55.8		88 11.0	36 4.5	17 2.1	19 2.4	8	13 1.6	22	123 15.4	797 100.0

The table demonstrates that the curricular sequence for the advanced exercises is less strict than it was for the divisions of ur₅-ra. The upper-right half of the table is better filled than the lower-left half, but exceptions are not unusual. There are twelve examples with Proto-Ea on the obverse and a metrological table on the reverse, suggesting that the tables were introduced before Proto-Ea. Nevertheless, there are still 4 examples where we find the opposite distribution. On the basis of this evidence, the relative location of a number of exercises cannot be decided. We know that the regular sequence was Proto-Lu₂ > Proto-Izi, because there is a Proto-Lu₂ source with a catch-line to Izi. This order is confirmed by the existence of extracts in which the two series are

combined (*MSL* 12, p.27). From Ugarit we have a catch-line connecting Proto-Izi with Proto-Diri (see Van Soldt 1995). From Old Babylonian Isin there is a prism fragment of Proto-Kagal with a catch-line to Nigga (IB 813, unpublished; see Wilcke 1987, p.93). These catch-lines may well reflect the order of the compositions in Nippur. It is not contradicted by the evidence from type II tablets.

The first two exercises in the table, metrological tables and Proto-Ea, are occasionally found on the reverse of an early exercise (elementary exercise or ur₅-ra). On closer examination it appears that in 8 of the 9 cases the obverse exercise is from the second half of ur₅-ra (divisions 3-6). Again, this shows that there was not one linear curricular order strictly applied, but rather a general sequence where different compositions occupy approximately the same place. Apparent exceptions, such as Metrological tables or Ea being introduced before the last tablets of ur₅-ra, are therefore regular in the sense that the exercises involved are adjacent in the curriculum. A single irregular example has a list of personal names on the obverse and Proto-Ea on the reverse ¹⁸³.

A number of thematic lexical lists are found less frequently. These include a list of body parts $(ugu-mu)^{184}$, a list of legal phrases, the Nippur God list, a bilingual list of professions $(lu_2-azlag_2 = ašl\bar{a}ku)$; also called Old Babylonian Lu₂), and a list of diseases ¹⁸⁵. The list of legal phrases is an early version of the first millennium compendium ki-ulutin-bi-še₃ = ana ittišu (MSL 1). A few pieces of the beginning of the Old Babylonian version were published by Roth (1979, pp.291-301)¹⁸⁶. The list contains words and phrases relevant for writing contracts. Since very little has been published from this series, a small passage is quoted here¹⁸⁷:

010		1
018	in-sum	he gave
019	in-na-an-sum	he gave to him
020	in-na-an-sum-me-eš	they gave to him
021	in-dab ₅	he took
022	in-na-an-dab ₅	he took for him
023	[in-na-an-dab5-eš]	[they took for him]
024	in-la ₂	he paid
025	in-na-an-la ₂	he paid him
026	in-na-an-la ₂ -me-eš	they paid him

The passage shows that Proto-ki-ulutin-bi-še₃ contains among other things short grammatical paradigms. A strange feature of this section is the plural ending -me-eš, which is used for

A bilingual ugu-mu exercise from Uruk is published in Cavigneaux 1996, text 179.

¹⁸³ UM 55-21-396 (3N-T911c); *MSL* 14, p.28: Ks.

The Nippur God list is unedited. The list of diseases and ugu-mu are edited in *MSL* 9. The bilingual list of professions is edited in *MSL* 12, p.151ff.

In Eduba D there is an indirect reference to this composition. See Civil 1985, p.77 commentary to line 36.

Sources are partly published in Roth 1979. Additional sources for this passage: N 5938 + N 5975 (+) N 6151 (probably a type I tablet) and N 5858.

Sumerograms in Akkadian texts but not in Sumerian¹⁸⁸. In addition to these verbal forms the composition treats the terminology for interest, prices, etc. It is possible that the 'Laws about Rented Oxen' (Roth 1980) also belong to the same composition.

2.4.1.4 Model Texts and Proverbs

In the curriculum the lists were followed by exercises in the writing of Sumerian contracts and business documents. Model contracts follow the common patterns of Sumerian contract types, omitting the list of witnesses and the date. Occasionally, witnesses and date are indicated as: its witnesses, its year, its month¹⁸⁹. Such exercises are referred to in one of the eduba texts (Eduba D, Civil 1985, p.77f.). This was the first serious encounter with Sumerian sentences. The model contracts were arranged in collections. Extracts from these collections are found on type II tablets, and additionally on type I tablets and prisms. So far no model contracts on type III tablets or lentils are known to me. Since the edition of all model contracts announced by Lieberman has never appeared, model contracts have remained little known¹⁹⁰. The example edited below is found on the obverse of CBS 6098. It contains two model contracts concerning the sale of a house. Little is left of the teacher's example, but the pupil's text is largely preserved. The reverse has a long extract from the list of trees and wooden objects¹⁹¹. The first four lines are missing. They are restored from *PBS* 12/1, 23 which parallels the first contract¹⁹². Other gaps in the text may be reconstructed from our knowledge of the formulary for house-sale contracts

See Waetzoldt 1989 and his commentary on the lentil *TIM* X/1, 8 (p.42). This lentil, like many lentils in *TIM* X/1, has an extract from some version of Proto-ki-ulutin-bi-še₃ or ur₅-ra I-II. In the Old Babylonian period, Proto-ki-ulutin-bi-še₃ and 'forerunner of ur₅-ra I-II' are not two different compositions but rather geographically determined variants of the same text. See §2.5.3.

See Roth 1979, pp.101-102 and Civil 1975b, pp.129-130. An example of this expression is found on the reverse of CBS 6750 lines 4-5: lu₂-ki-[inim-ma-bi] ; iti-bi mu-[bi].

Some idea of the content of model contracts may be gained from the examples in Roth 1995, pp.46-54. This text of unknown provenance is a mixture of ki-ulutin-bi-še₃, model texts and related material. Another example of unknown provenance was edited in Roth 1979, p.109f. Published model contracts from Nippur include Civil 1975b, p.129 no.14 (11 NT 32); *PBS* 8/1, 101 and 102; *PBS* 8/2, 173; *PBS* 12/1, 21, 22, and 33; *PBS* 13, 39; *SLFN* Plate 73-76;s *SLT* 148; *STVC* 86. A collection of model contracts from Isin was published by Wilcke 1987, pp.102-108 (with various unpublished examples). *BBVOT* 3, 34 is probably a Larsa example (reverse Proto-ki-ulutin-bi-še₃). Lieberman discussed some aspects of the model contracts in several articles (most importantly Lieberman 1992).

¹⁹¹ Ni II-053.

Other parallels are CBS 6527; CBS 13934 obv. column I; N 4073 column II; N 5334. All parallels have variants in names and numbers.

The text exhibits a number of mistakes. *PBS* 12/1, 23 line 1 has du₃-a instead of e₂-du₃-a. CBS 6098 has errors in the personal names: Amar-ZU instead of Amar-abzu in line 2' and Dingir-da-nu-a instead of Dingir-da-nu-me-a in line 4'. The name Lugal-ezen in line 2' has been restored from *PBS* 12/1, 23.

01	$^{+1}/_{2}^{+}$ sar du ₃ -a	A built-up <house> plot of '1/2' sar</house>
02	[a]l-bal ^{giš} keš ₂ -da	with a second floor and a wooden roof;
03	giš ig ^{giš} sag-kul gub-ba	the door and the bar are there
04	ki e ₃ -bi ša ₃ sila-dagal-la-še ₃	its exit is on the broad street,
1'	[d]a e ₂ lugal-a-[next to the house of Lugal-a-[
2'	†e ₂ † amar-ZU dumu lu[gal-ezen]	the house of Amarabzu son of Lu[gal-ezen]
_		from Amarabzu
3'	[†] ki [†] amar-abzu-t[a]	Dingirdanumea
4'	Idingir-da-nu-a-[ke ₄]	bought;
5'	in-ši-in-sa ₁₀	its full price
6'	šam ₂ til-la-bi-še ₃	2/3 mine silver he paid him.
7'	ma-na kug-babbar in-na-la ₂	In the future Amarabzu
8'	ud-kur ₂ -še ₃ amar-abzu	and his heirs, as many as there will be
9'	ù ibila-a-ni a-na me-a-bi	will not raise a claim to this house;
10'	⁺ e ₂ ⁺ -bi-še ₃ gu ₃ nu-ga ₂ -ga ₂ -a	thus he swore in the name of the king.
11'	mu-lu[gal]-bi in-pad ₃	A built-up house plot of $^{+}1\frac{1}{2}^{+}$ sar
12'	$^{+}1\frac{1}{2}^{+}$ sar e ₂ -du ₃ -a	at the main street to the Abulmah
13'	sila-dagal abul-mah-a-kam	next to the house of Uršubula,
14'	da e ₂ ur- ^d šu-bu-la	the house of Ilakšuqir
15'	e ₂ i-la-ak-šu-qir	from Ilakšuqir
16'	ki i-la-ak-šu-qir-ta	Nurilišu
17'	Inu-ur ₂ -i ₃ -li ₂ -šu-ke ₄	bought.
18'	in-ši-in-ša ₁₀	Its full price
19'	šam ₂ til-la-bi-še ₃	2/3 mana and 5 shekels silver
20'	2/3 ma-na 5 gin ₂ kug-babbar	he paid him.
21'	in-na-an-la ₂	In the future Ilakšuqir
22'	ud-kur ₂ -še ₃ i-la-ak-šu-qir	and his heirs, as many as there will be
23'	u ₃ ibila-a-ni a-na me-a-bi	will not raise a claim to this house;
24'	e ₂ -bi-še ₃ gu ₃ nu-ga ₂ -ga ₂ -a	thus he swore in the name of the king.
25'	mu-lugal-bi in-pad ₃	A built-up house plot of 2 sar.
26'	$2 \operatorname{sar}^+ \operatorname{e}_2 - \operatorname{du}_3 - \operatorname{a}^+$	

A few points in this text are worth noting. The contracts are ordered by the size of the plot that is sold. Line 26' is the last line on the tablet, but the first line of the next contract. It is the catch-line to the next paragraph. The name Dingirdanumea, the buyer in the first contract, is also found in a model contract concerning a loan of grain¹⁹⁴. The main street which leads to the Abulmah (lofty gate) is probably one of the most important streets in Nippur¹⁹⁵. These are features which may have been used to enhance the interest of the pupils and to catch their attention.

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CBS 6542. The reverse has a list of trees and is included in Chapter 5 as Ni II-067. The name further appears in the short story 'The Slave and the Scoundrel' (Roth 1983, p.276, 17). For names with nu-me-a preceded by a divine name see Stol 1979, p.181; Roth 1983, p.278; and Stol 1991, p.198 (references courtesy M. Stol).

The same street appears in a comic story, located in Nippur, edited by George 1993. In this text the Sumerian name of the street is misunderstood, which is part of its comic effect. The text is post-Old Babylonian.

The last subject in the first phase of scribal education was Proverbs. Most proverbs are short sayings, commonly arranged in thematically organized collections. Some of the animal proverbs are expanded into short stories, not unlike Aesop's fables. In modern studies some 27 collections of proverbs have been identified. Not all of these are attested on type II tablets. The only collections found so far as reverse exercises are 1 and 2^{196} . Obverse extracts may contain proverbs from collections 1 or 2, or from one of a few other collections (among them 5, 6, and 8). The collections are rather different in character. Some are standardized. They can be found in numerous duplicates, or in extract tablets. Other collections appear to be ad hoc compilations. An example is Proverb collection 4. This collection is found on only one tablet. Some of the proverbs contained therein have duplicates in other collections (see Gordon 1957).

In the following table the evidence of the type II tablets with model contracts and proverbs is summarized. Mathematical tables are added to the table because they are the last exercises of the preceding group. Earlier exercises are grouped together under the label El(ementary)/Urra/Advan(ced).

REVERSE	by	OBVERSE

		OBVERSE				
	Count	 El/Urra/ Advan	Math tab	Model-c	Proverbs	Row
		1.00	18.00	19.00	20.00	Total
REVERSE		+	++			
	1.00	642	3	48	44	737
El/Urra/A	dvan					92.5
		+	·+			
	18.00	5	17	3	14	39
Math table						4.9
		+	++			
	19.00	3		6	6	15
Model-c						1.9
		+	++			
	20.00	2	2		2	6
Proverbs						.8
		+			+	
	Column	652	22	57	66	797
	Total	81.8	2.8	7.2	8.3	100.0

A combination of mathematical tables and proverbs or model contracts is further found on a special tablet type, only attested for this group. These are type II tablets with three columns on the obverse. The first column is a mathematical table. The second column has the teacher's

Gordon 1968 is an edition of the collections 1 and 2. Since that time a number of publications, particularly by Gordon, Falkowitz, and Alster, have expanded our knowledge of this genre. Alster is preparing a new edition of all proverb collections.

example of the model contract or proverb collection. The third column has the same text in a pupil's hand. The reverses of these tablets have an extract from ur₅-ra. Curiously, the columns on the reverse run from left to right ¹⁹⁷.

With the proverb collections the first phase of the education ended and evolved into the second phase: literary texts. The proverbs are couched in a literary language and include short stories. Some of the collections, indeed, are never found on tablets typical of the first stage: types II and IV. The proverb collections straddle both phases.

2.4.1.5 Summary of Phase 1

To summarize the results of our discussion of this first phase at the eduba, we have distinguished four groups of exercises. The clusters coincide with those used in our discussion above: 1 elementary exercises (Sign elements; Syllable Alphabet B, TU-TA-TI and lists of names); 2 ur₅-ra; 3 advanced lists (including the metrological and mathematical lists); and 4 Model Contracts and Proverbs. Tablets containing little-used lists such as ugu-mu, Proto-ki-ulutin-bi-še₃, and Proto-Aa (a bilingual version of Proto-Ea) are not included. At this level of analysis the obversereverse correlations in type II tablets exhibit a very regular pattern:

REVERSE	by	OBVERSE
---------	----	---------

	Count	OBVERSE				
	court	:	Urra	Advanced		D
		ry			OV	Row
		1.00	2.00	3.00	4.00	Total
REVERSE		+	+	++		
	1.00	212	96	10	2	320
Elementar	v	i	I	I I	i	40.2
	2					10.2
	0.00		100			001
	2.00	2	123	73	23	221
Urra						27.7
		+	+	++		
	3.00	1	10	140	84	235
Advanced		i	I	I I	i	29.5
ria varioca		1	l 	·	I	27.5
				,		
	4.00		1	6	14	21
Model/Pro	V					2.6
		+			+	
	Column	215	230	229	123	797
	Total	27.0	28.9	28.7	15.4	100.0

¹⁹⁷ A number of examples with proverbs are published in Gordon 1968: CBS 14159+ (Plate 51); CBS 14158+ (Plate 53f); N 5084 (Plate 56). Examples with model contracts are CBS 6098 (obverse edited above; reverse ur₅-ra trees and wooden objects, included in Chapter 5 as Ni II-053) and N 3956 (rev. broken).

The upper-right half of the table is much better filled than the lower-left half. More than 60% of the tablets have an exercise from the same group on both obverse and reverse¹⁹⁸. In theory an elementary exercise (group 1) on the reverse may go with any other exercise on the obverse. But the obverse exercises in this category are not evenly spread. The more advanced an obverse exercise is, the less likely that it will be combined with an elementary exercise on the reverse. There are 212 cases of a group 1 exercise combined with an elementary exercise. There are only two cases where a model contract or a proverb collection on the obverse goes with an elementary exercise on the reverse. The numbers in the top row decrease from left to right. In curricular terms: the practice is to repeat on the reverse of a type II tablet an exercise that has been introduced not too long before.

2.4.2 Phase 2: Literature

In the second phase of their scribal education the pupils copied literary compositions. These texts vary from short hymns of no more than 60 lines, to complex and lengthy epics, such as 'Enmerkar and the Lord of Aratta' (Cohen 1973), which numbers over 600 lines ¹⁹⁹. Literary compositions differ in their complexity with respect to vocabulary, syntax, or rhetoric. This may correlate with the educational goals of their inclusion in the curriculum. Very little work has been done so far on investigating the implications of this corpus as a didactic corpus²⁰⁰.

The incipits of a number of literary compositions have been found on so-called catalogue tablets. Civil (1975a, p.145 n.36.) has argued that some of the catalogue texts follow the curricular order in which the compositions were treated. His thesis has found support in a tablet from Isin, where several literary texts are copied onto one relatively small tablet (Wilcke 1987, pp.85-89). The order of the compositions follows the order of the catalogues²⁰¹.

Tablet formats typical for the literary phase of the eduba are the oblong single-column tablet, and the two-column tablet, with two columns on each side²⁰². Oblong single-column extracts contain

These are found in upper-left to lower-right diagonal. The diagonal includes 489 tablets, which is 61% of the total of 797 tablets.

On the length of Sumerian literary works see Vanstiphout 1986.

An important exception is Vanstiphout's studies on Lipit-Eštar B, which proved to be a beginners' exercise (Vanstiphout 1978 and 1979). Vanstiphout's thesis finds additional support in the fact that several lentils from Uruk, recently published by Cavigenaux (1996) carry an extract from this hymn (204+[?]205; 206; and 223). Marcel Sigrist generously allowed me to utilize his copies of lentils kept in the Andrew University Museum. One of these again proved to belong to Lipit-Eštar B (to be published as *AUCT* 5, 235).

A strange feature of this text is that it simply apocopates lines which are too long to fit a column. Obviously, it is used as a mnemonic device. Such texts were also known in Nippur; see Civil 1985a, pp.37-45.

On the typology of literary tablets see Civil 1994, p.12.

about 30 lines of some literary composition, but may be considerably shorter, or longer²⁰³. In the case of shorter compositions (up to ± 200 lines), a two-column tablet generally contains the whole composition. Larger compositions may be divided over the appropriate number of two-column tablets. For some compositions the partitions may have been standardized, but this is certainly not always the case²⁰⁴. A longer composition could be inscribed in its entirety on a multi-column tablet. Occasionally a number of shorter compositions were combined on a large tablet, or on a prism²⁰⁵.

A thorough discussion of tablet typology in literary compositions goes far beyond the confines of this study, and is premature until we possess reliable editions of the complete corpus of Sumerian literary texts. Moreover, those editions that are available do not always provide adequate information on the physical aspects of the sources. The examples above may suffice to demonstrate the differences in this respect with the corpus of texts used in the first phase. Lentils and type II texts are not ususally employed for literary compositions. A few exceptions exist. There are some type II tablets with a hymn or another literary composition on the obverse and a list on the reverse²⁰⁶. Similarly there are lentils with literary extracts²⁰⁷. In all cases these belong to the earliest literary texts studied in the eduba (see Civil 1975a).

Two literary compositions occur more than once on the obverse of a type II tablet: the hymn Lipit-Eštar B, and the short story Enlil and Namzitarra. A few other texts occur only once, or are not identified.

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Lipit-Eštar B<sup>208</sup>
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CBS 6668 rev. *PBS* 11/3, 64: list of names. CBS 6943 rev. broken; may not be type II. rev. Nig₂-ga (*MSL* 13, p.95: L2).

N 5824+N 5828 rev. unidentified.

Enlil and Namzitarra²⁰⁹

CBS 7917+N 4784 rev. list of domestic animals (gud and amar)

N 5149 rev. Nig₂-ga (*MSL* 13, p.94: Q1)

See, for instance, Gilgameš and Huwawa A, where one-column texts vary between 15 and 66+ lines (Edzard 1990, p.172).

Vanstiphout 1986. The two-column tablets demonstrably contain different partitions in the case of the 'Curse of Agade' (Cooper 1983, see p.45 and the catalogue of sources).

The prism fragments Ni 4092 + Ni 4243 (*ISET* 2, 84 + *SLTN* 114) combine Eduba A (Schooldays) and Eduba C (Ugula and Scribe). Similarly, three eduba dialogues were collected on one tablet now in the Hilprecht collection in Jena (see Wilcke 1976, p.36ff.).

²⁰⁶ See Vanstiphout 1979; Civil 1975a, p.145; Tinney 1995.

For literary lentils see Falkowitz 1984.

²⁰⁸ See Vanstiphout 1978 and 1979, and Tinney 1995, p.11 n.23.

²⁰⁹ Civil 1977.

N 5909 rev. fragmentary and unidentified; may not be type II.

Fable of the Crane and the Raven²¹⁰

CBS 6559+ rev. Ugu-mu (*MSL* 9, p.51: S1)

Emesal lament me-e i-li ga-am₃-dug₄

CBS 4828 rev. domestic animals (MSL 8/1, p.82: V31)

Akkadian Sargon letter²¹¹

CBS 15217 rev. Proto-Lu₂ (*MSL* 12, p.32: D3)

Unidentified²¹²

CBS 14233 rev. mathematical (*PBS* 13, 22)

N 3884 rev. metrological

N 4867 rev. Proto-Izi (*MSL* 13, p.14: W)

N 4951 rev. metrological

In a few other cases a literary text is found on the reverse. Three tablets have been found so far, each with a different composition:

Lipit-Eštar A

CBS 10988 Obv. Proto-Aa (*PBS* 5, 110; *MSL* 14, p.87: J)

Song of the Hoe

CBS 9856 Obv. Proto-Aa (*MSL* 14, p.87: C)

Schooldays

UM 29-13-591²¹³ Obv. unidentified

The literary Type II tablets testify to an intermediate stage in the curriculum between the lexical and the literary phases. In two of the three cases where a literary text is found on the reverse the obverse exercise is Proto-Aa, a bilingual list closely related to Proto-Ea. This exercise belongs to the most advanced of the lexical corpus. The exceptions show that the relation of lexical lists and proverbs to special tablet types is not natural or based upon practical or textual reasons. It was

²¹⁰ See Gragg 1973.

This is the only Akkadian composition on a Nippur type II tablet that has come to my knowledge. The (fictitious) letter is published by Joan Goodnick-Westenholz (1997).

The obverse of HS 1607 (MSL 14, p.29: Lf) has a model contract.

According to the UM catalogue there is an indirect join with UM 29-15-362, but this piece could not be located.

perfectly possible to use lentils and type II tablets for literary compositions; the Nippur teachers chose not to do so.

2.5 The Transmission of Ur₅-ra to the First Millennium

2.5.1 The Middle Babylonian Period

The Old Babylonian period ended with the Hittite raid on Babylon in 1595. The Hittites did not establish a permanent rule in the region. Instead, Kassite kings came to reign in Babylonia. The Kassite period marks the beginning of a standardization process that went on for several centuries, and eventually affected almost all of the genres that belong to the stream of tradition. Around the fourteenth century Akkadian was used all over the ancient Near East as an international language. The Mesopotamian lexical and literary tradition was exported to western areas, to be used in the education of local scribes.

Middle Babylonian lexical texts therefore belong to two historically and geographically distinguished traditions: the Kassite tradition in Babylonia proper and the western peripheral tradition. Western lexical texts are closely related to Old Babylonian traditions. The majority of texts derive from Ugarit and Emar in Syria, and from Hattuša in present-day Turkey²¹⁴. Kassite lexical texts carry some early version of the tradition known from first millennium sources. Therefore we will treat this group with the late version in §2.5.2.

2.5.1.1 The Middle Babylonian Peripheral tradition.

Various students have explored the possible ways in which cuneiform writing and the Mesopotamian school texts may have spread to foreign parts. Van Soldt has demonstrated that writing in Ugarit coincides with Hittite rule (1991, p.522). The Ugaritic lexical texts may, therefore, derive from the Hattuša tradition. The political background of the spread of literacy to Emar is comparable to the situation in Ugarit. The origin of the Hittite tradition is disputed. Generally, Hittite literacy is assumed to be mediated by Hurrians (Van Soldt 1991, p.522; see Beckman 1983; p.98 n.8 and 9). Beckman (1983), basing himself on palaeographical and grammatical evidence, makes a distinction between those traditional Mesopotamian texts that were imported directly, and those which came through Hurrian mediation. He concludes that the

The bibliography for Middle Babylonian peripheral lexical texts may be found in Cavigneaux 1983, p.617. To be added are: Ugarit: André-Salvini 1991; Arnaud, 1982; Veldhuis 1996; Emar: Arnaud *Emar:* VI/4 (editions; see the important review by Civil 1989); Watanabe 1987; Van Soldt 1993 (Emar?); Boghazköy: *KBo* 26, 1-57; and *KBo* 36, 1-8. Hazor: Tadmor 1977. Haft-Tepe: Herrero and Glassner 1996, nos. 270-287. Various Middle Babylonian texts (mostly grammatical exercises) are published and/or edited in *MSL* SS1. Van Soldt 1991, Appendix C is devoted to the peripheral MB lexical texts, in particular those from Ugarit. An overview of all (published and unpublished) Ugaritic school texts (lexical and non-lexical) is found in Van Soldt 1995.

lexical tradition of Hattuša showed no Hurrian imprint and was thus imported directly from Babylonia. He further demonstrates that in the Middle Babylonian period there was direct contact between the Hittite capital and Babylonia, and that at least one Babylonian teacher was working in Hattuša. However, according to Beckman the lexical traditions from Ugarit and Emar are 'Hurrian-derived' (Beckman 1983, p.103). They are used to make the foreign tradition intelligible. Apart from the Ugarit S^a vocabularies with a column in Hurrian evidence for this claim is lacking²¹⁵.

The most important innovation of Middle Babylonian ur₅-ra is the development of the two-dimensional format. The unilingual Old Babylonian texts were, at least in their written form, one-dimensional collections of Sumerian words strung together in long lists. Most of the Middle Babylonian texts still adhere to this format, but in a sizable proportion a second or even a third explanatory column is added. In Emar and Ugarit ur₅-ra is found on two different tablet types²¹⁶: large multi-column tablets, containing a complete lexical text, and one-column extracts. The large tablets are mostly unilingual (Sumerian), but sometimes bilingual (Sumerian - Akkadian). In a very few cases multi-lingual versions occur (Sumerian - Babylonian and a local language). The one-column extracts are usually divided into three sub-columns: 1: Sumerian, 2: pronunciation glosses, and 3: Akkadian. The extracts contain about 30 lines of text.

Interestingly, the development parallels the development in Ebla, more than a millennium before. In both cases Sumerian lexical lists were exported to regions where the language had no roots. In both cases, in addition to the traditional unilingual texts, new formats were developed to adjust to local needs. At both sites we thus find translations and pronunciation aids²¹⁷.

In Ugarit the unilingual format of lexical lists was still standard. In his reconstruction of the educational practice at Ugarit, Van Soldt (1991, p.752; 1995) has demonstrated that the extract tablets belong to an earlier stage of scribal training. The more experienced scribe did not need to write out the translation or pronunciation columns. The unilingual texts, according to Van Soldt, give the most professional impression.

2.5.1.2 The Structure of Middle Babylonian Peripheral Ur₅-ra

The Middle Babylonian peripheral version of ur₅-ra is divided over 15 tablets. The order of these tablets has been established by Van Soldt²¹⁸. The first two are devoted to phrases used in

For these vocabularies see Huehnergard 1987, Part I. The Akkadian syllabary used in bilinguals has many of the peculiarities which, as demonstrated by Van Soldt (1989), are related to Hurrian orthography. This, however, is part of the general conventions for writing Akkadian and does not prove the Hurrian origin of the lexical tradition.

²¹⁶ See Van Soldt 1995.

Similarly, lentils from Old Babylonian Susa are often provided with pronunciation glosses and Akkadian translations.

For the Ugarit version see Van Soldt 1995 Appendix I; and 1991 Appendix C. There is a possibility that one of the tablets was divided into two, giving a total of 16 tablets (Van Soldt 1995, Appendix I at Harra-Hubullu 13). The same division probably existed in Emar, though in the higher tablet numbers the

business documents²¹⁹. The subject is alien to the ur₅-ra style. In Nippur a comparable exercise, ki-ulutin-bi-še₃, was not connected with ur₅-ra. The problem of the origin of these two tablets, their connections with ki-ulutin-bi-še₃ on the one hand and with ur₅-ra on the other, will be treated separately (§2.5.3) because of its relevance for the history of the scribal curriculum.

Tablet No. Ugarit	Contents	O.B. Nippur	Late ur ₅ -ra
1	Business terminology	not included	1
2	Business terminology		2
3	Trees and wooden objects	1	3-5a
4	Wooden objects		5b-7
5	Reeds and reed objects		8-9
6	Vessels	2	10
7	Leather and leather objects; metal and metal objects		11-12
8	Domestic animals		13
9	Wild animals; meat cuts	3	14-15
10	Stones and plants		16-17
11	Fish and birds; clothing.	4	18-19
12	Geographical names and terms		20-21a
13	Geographical names and terms; stars	5	21b-22
14	Foodstuffs		23
15	Foodstuffs	6	24

The order of the subjects is clearly related to the version of Old Babylonian Nippur. Each of the

evidence is not always sufficient to decide. Arnaud's presentation of the texts in Emar VI/4 is most confusing. The transliteration of one tablet is sometimes divided over several publication numbers. Thus Msk 731030 is found under the numbers 543 ('HAR-ra-hubullu III'), 544 ('HAR-ra-hubullu IV'), 545 ('HAR-ra-hubullu V-VII'), 737 ('Une incantation annexe'), and 604.7.2 (Colophon). Arnaud's arrangement suggests that there are three giš tablets in Emar, whereas there are only two (see Civil 1989). Similarly, the Emar forerunner of ur₅-ra 15 (N° 552) does not exist. The section UZU and the section wild animals (N° 551) belong to the same tablet.

For Middle Babylonian forerunners of ur₅-ra I-II see Krecher 1969, p.137f (Ugarit); Van Soldt 1991 Appendix C (Ugarit; see the table on p.751, demonstrating the place of these tablets in the ur₅-ra series); *Emar* VI/4 541 and 542; and Tadmor 1977 (Hazor).

Nippur divisions is divided over two or three tablets, and two tablets are added in front. In no case does an Ugarit tablet cross the border of a Nippur division. Tablets 3-7 of the Ugarit version follow the subdivisions known from Nippur and Isin (see §2.4.1.2).

Exactly how the Middle Babylonian tradition is related to the Old Babylonian one is a question which can hardly be settled at this moment in time, since the majority of lexical texts from Ugarit are still unpublished. We can get an idea of the problems involved from three examples derived from the geographical list, the wood list, and the list of stones and plants (Ugarit tablets 12, 4, and 10, respectively).

- 1) Van Soldt (1993, p.441) has demonstrated that the Middle Babylonian peripheral forerunner of ur₅-ra 20-21a (geographical names; tablet 12 in the scheme above) is close to the Old Babylonian text edited in *MSL* XI, p.129ff. According to its first editor this text was found in Larsa (Jean 1935, p.161). The Ugarit text by no means duplicates the Larsa version but the general order of the sections is virtually the same, and differs considerably from the Old Babylonian Nippur version. The Middle Babylonian version has the complete list of Old Babylonian kings who gave their names to cities, dikes, and canals²²⁰. Van Soldt concluded that the version exported must have been post-Old Babylonian.
- 2) In Middle Babylonian sources the subject 'trees and wooden objects' is divided over two tablets (tablets 3 and 4 in the table above). Tablet 4 is known from various Middle Babylonian sources: Ugarit²²¹, Emar²²² and an extract from Nuzi²²³. All texts seem to derive from the same tradition.

We may take as an example the passage beginning with ^{giš}apin: plough. In Emar the order of the sections is:

		Nippur
^{giš} apin	plough	442-467
gis(nig ₂)-gan ₂ -ur ₃	harrow	468-473
giš al	hoe	477-482
giš u ₃ -šub	brick-mould	483-486
giškak-sum-ba-la2	stick for uprooting onions	487-490
^{giš} zi-ri-kum	irrigation device	491-493
giš dur ₂	bottom board	508-514
gisba-ri ₂ -ga, etc.	measuring vessels	515-526
gis sa	hunting net	527-535
^{giš} har-mušen-na	trap	536-540

²²⁰ See also Civil 1994, pp.112-114.

Published and unpublished sources may be found in Van Soldt 1995; see Veldhuis 1996.

See Arnaud *Emar* VI/4 no. 545, with the review by Civil (1989).

Published by Lacheman 1939: no.7 (SMN 2559). This text has aroused much discussion; see most recently Civil 1987.

On the one hand there is a close relation between the versions from Emar and Nippur in this part of the text. There is only one place where the Nippur tradition has a major difference. The section ^{giš}tukul (mace) in Nippur immediately precedes the 'bottom boards' (^{giš}dur₂), a passage which is found considerably later in the Emar text (see §3.1). On the other hand this Emar passage differs significantly from the late version. Corresponding sections in first millennium ur₅-ra are found dispersed over tablets 5, 6, and 7A.

3) The Middle Babylonian list of stones and plants edited in *MSL* 10, p.37ff. and p.107ff. (tablet 10 in the scheme above) is reconstructed from duplicating sources from Ugarit and Alalakh. The Emar text is based on the same tradition. There is one late Old Babylonian list of plants from Babylon which is clearly related (*MSL* 10, p.117ff, source B). The first 12 preserved lines (lines 6a-6l) display an independent order, but then the text follows the peripheral version closely²²⁴. The section stones does not have a clear predecessor. All Old Babylonian lists of stones are somehow related (see §2.2.1), but there is no one text which is undoubtedly the sole ancestor of the Middle Babylonian version.

In conclusion, the three examples show that the inheritance of the Old Babylonian lexical tradition is a complex matter. The geographical lists from Larsa (example 1) can only have influenced the Middle Babylonian versions indirectly. Larsa had ceased to exist as a scribal centre several centuries before (see §2.2). We must assume that refugees from the south brought this, or a closely related tradition, to Northern Babylonia. The Emar list of wooden objects (example 2) shares its global organization with the Nippur version. Again, no direct influence may be assumed because Nippur had been abandoned at the end of the eighteenth century. Babylon (example 3) is a plausible centre for the export of school compositions to the west, particularly because of the well-attested relations between Babylon and Hattuša (Beckman 1983). Extant lexical texts from Babylon, however, are so few that there is no way of proceeding beyond conjecture.

2.5.2 First Millennium Standardized Ur₅-ra= hubullu

The first millennium so-called canonical series treats the same topics as the Middle Babylonian peripheral versions discussed in §2.5.1 in the same order. It is divided over 24 tablets ²²⁵. Late ur_5 -ra differs significantly from earlier versions in two respects. First of all, after the turn of the millennium the bilingual format of ur_5 -ra is normative for all tablet types. In the second place, from the Middle Assyrian to the late Hellenistic period, and from Uruk to Sultantepe, ur_5 -ra = hubullu basically shows the same text, with the same division over tablets.

2.5.2.1 Early Canonical Texts

No copy is available and it is not possible to estimate the length of the missing portions of the text.

For this division, and the contents of each tablet, see Cavigneaux 1983, p.627.

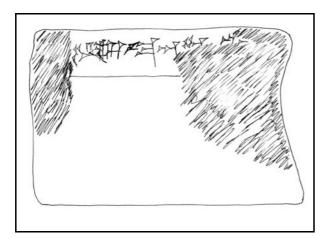


Fig 2.8 UM 29-16-383. Middle Babylonian exercise tablet: literary extract.

The earliest dated sources for this tradition are Middle Assyrian, from the so-called library of Tiglath-Pileser I (1100 BC)²²⁶. A number of Middle Babylonian, i.e. Kassite, sources, especially from Nippur, may be one or two centuries earlier²²⁷. A tablet type used for lexical exercises in the Kassite period has on one side a short literary citation, and on the other side a lexical excerpt of five to ten lines. The tablet is oblong in shape. The literary text is written parallel to the longer side; on the other side the lines run parallel to the shorter side²²⁸. In some cases only one side of the tablet has been inscribed. Two examples

carry a line from the 'Marriage of Sud' and were published by Civil (1983a). The lexical extracts found on these tablets are unilingual and follow a version very close to the canonical first millennium text. Few examples have been published. *SLT* 143 (CBS 6405) is inscribed on one side only. It has a short passage from the list of trees (ur₅-ra 3: 205-209; *MSL* 5, p.109f.) without the Akkadian translation. The main variant as compared to the version edited in *MSL* is ^{giš} mesdub (*SLT* 143) as against ^{giš} mesdub-ra-an. An unpublished example is UM 29-13-771 (Nippur)²²⁹. On one side it has two lines in Akkadian. The composition is unknown but might be taken from an incantation, a text type known to be used in school texts in the Neo-Babylonian period.

1 li-ib-bi u₃ [My heart and [2 u-e₄-bi-ka ma-⁺ri⁺-[I will drown you, son of [

The other side has an extract from ur₅-ra 1: 100-104²³⁰

1	[ibi]la	heir
2	dumu-gaba	infant
3	dumu-munus-gaba	female infant
4	dumu	child

²²⁶ Weidner 1952 and Pedersén 1985, pp.31-42...

See Civil in *MSL* 14, p.156 on the Middle Babylonian Ea sources.

See Civil 1995, p.2308: Type V. In *MSL* SS1 the same type is labelled MB II (see p.89). All examples but one known to me are from Nippur. The exception is unprovenanced (NBC 7834; unpublished). Perhaps *VS* 24, 75 belongs to this type (Babylon: Sargon legend; see Goodnick-Westenholz 1997, pp.52-55 and 382).

I would like to thank Leo Sassmannshausen for collating this text and related ones in the University Museum, Philadelphia.

²³⁰ See *MSL* 5, p.16.

5 dumu-dumu grandson

A further example is UM 29-16-383 (Nippur). This text has a one-line quotation from a Sumerian literary text: $[giš^2-b]ur_2$ -mah- ga_2 bar ba-an-ku₄- $[gis^2-b]ur_2$ - $[gis^2$

```
\begin{array}{lll} 1 (=85) & ^{gi\$} \text{numun-u}_3\text{-suh}_5 & \text{seed of the fir} \\ 2 (=86) & ^{gi\$} \text{an-na-u}_3\text{-suh}_5 & ? \text{ of the fir} \\ 3 (=88) & ^{gi\$} \text{pa-u}_3\text{-suh}_5 & \text{idem} \\ 4 (=87) & ^{gi\$} \text{se-u}_3\text{-suh}_5 & \text{idem} \\ 5 (=89) & ^{gi\$} \text{pa-u}_3\text{-suh}_5 & \text{twig of a fir} \\ 6 (=91) & ^{gi\$} \text{bir-GAM-ŠIM-u}_3\text{-suh}_5 & ? \end{array}
```

In the standardized version line 91 reads ^{giš}bir-GAM-ma-u₃-suh₅. It is followed by the item ^{giš}šim-gig. It is possible that the ŠIM in line 6 of our tablet is an insertion from the next line. This would prove that, unlike Old Babylonian practice, this exercise was copied or dictated from a master text. Otherwise the confusion is difficult to explain. The use of a master text in this period is probable because the list is much more standardized than it was in the Old Babylonian period. Before further conclusions may be drawn, however, we will need more examples of errors like this one²³⁴.

A variant of this type of exercise tablet is lentil-shaped. Physically they are similar to the Old Babylonian type IV, but textually they are equivalent to the type described above ²³⁵.

Another Kassite-period type is a large oblong tablet with a list that continues from the obverse to

For giš-bur₂ as an architectural element or an ornament of a door see Michalowski 1989, p.102 and Charpin 1986, p.290f.

²³² See *MSL* 5, p.100.

In the bilingual text this and next two lines are translated $_{\varsigma}ippatu$, the meaning of which is unknown in this context.

There is a variant in the same line in an Assur text: gišBIR-GAM-ŠIM-ŠE-u₃-suh₅, according to MSL. This is very probably an error as well. Old Babylonian sources have gišbir-GAM-la-e with many variants but never with ŠIM. Still, the existence of the Assur variant makes the interpretation of the Kassite exercise less certain.

Two examples, both from Nippur, are known to me. The first is 2N-T75 = IM 57836, published in Falkowitz 1984, p.37 among Old Babylonian lentils. That the piece is rather Kassite may be demonstrated by two features. First, the lexical portion of the text (types of doors) follows the canonical version of ur₅-ra 5: 235-239 (*MSL* 6, p.24) in a unilingual fashion. Second, the row of numerical signs for '9' below the literary excerpt on the other side is typical for Middle Babylonian lentils. In most cases these lentils contain exercise business documents (private communication by Leo Sassmannshausen, who is preparing an edition of several Kassite lentils from Nippur). Line 3 of the obverse of 2N-T75 is to be read: *šal-mi-iš li-t[a-la-ak²]*; probably Gilgameš IX iv 42. The second example is UM 29-15-848 (Literary quotation unidentified; lexical extract is ur₅-ra 3: gi[§] hašhur items).

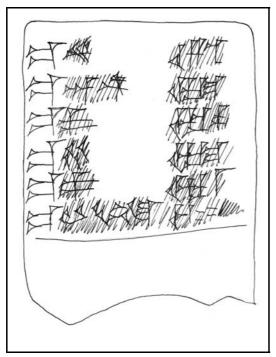


Fig 2.9 UM 29-16-383: Middle Babylonian exercise tablet.

the reverse. A few examples have been published, including SLT 241 (ur₅-ra 2) and PBS 12/1, 17 (ur₅-ra 4), both from Nippur. Both are unilingual Sumerian. What the copy in *PBS* 12/1 does not show is that the tablet has been deliberately cut in two. What is preserved is the left half of a twocolumn tablet. The column divider, a double vertical line, is still visible, and a few useless traces of the right column remain. The right column probably contained Akkadian translations²³⁶. The list includes over eighty items from the list of furniture. It is a short version of canonical ur₅-ra 4: 59-173²³⁷. A number of items are omitted, others are put in a slightly different order. The most important variation is the displacement of the section gisna₅ (stool). All in all the Kassite tradition may be defined as an early version of the canonical text.

Kassite-period ur₅-ra is further found on large tablets containing the text of an entire canonical tablet. A bilingual example from Nippur was used

in the reconstruction of the list of reed and reed objects ur₅-ra = *hubullu* 8 (HS 1928 + HS 1929²³⁸; *MSL* 7, p.4 source J). Two unilingual examples of unknown origin are known to me. Very probably Kassite in date is NBC 10915, which has the Sumerian text of ur₅-ra 6. The tablet measures no more than 3x6cm, carrying about 240 lines of text. CBS 1862 is from the Khabaza collection and may therefore be from Sippar²³⁹. What remains is somewhat less than the left half of a large tablet which contained the Sumerian text of ur₅-ra 1 and 2. The colophon reads:

giš 42 taskarin	boxwood 42
al-til	finished
[m]u-šid-bi	[N] lines
traces	

The number 42 refers to the number of lines in the last column. It is inserted in the catch-line to ur₅-ra 3.

2.5.2.2 First Millennium ur₅-ra

A similar example is CBS 4599 = PBS 12/1, 16: ur₅-ra 2 (see MSL 5, p.49).

Prof. J. Oelsner has made some additional joins since the text was used for MSL.

For the Khabaza collection and its relation with Sippar see Michalowski 1981a, p.386.

²³⁷ See *MSL* 5, pp.154-166.

First millennium lexical texts may be divided into school texts and library texts. School texts are known primarily from the Neo- or Late Babylonian periods. Library texts are known from a variety of sites in both Assyria and Babylonia. The canonical version of ur₅-ra was used over a time span of about a millennium, and in a large geographical area. Now that we possess editions of all tablets - though for some tablets the available evidence is rather fragmentary - the next step will be to study local differentiations, tablet types, changes in archaeological and curricular context, and so on in more detail. Since these matters are peripheral to this study, I will confine myself here to a few remarks on the process of standardization.

Most lexical texts from Nippur are standardized at least to some degree. The standardization of the first millennium is of quite another kind. This process was not restricted to ur_5 -ra = hubullu, or even lexical texts, but affected almost every genre. In addition to official editions ($i\bar{s}karu$) there were texts called $ah\hat{u}$, extraneous. Further, we find references to $\bar{s}a$ $p\bar{\imath}$ $umm\hat{a}ni$: the oral tradition of experts²⁴⁰. These distinctions, whatever their exact meaning and dynamics might have been, reflect a scholarly need for a reliable and generally accepted body of knowledge. This same need is visible in colophons, guaranteeing that the copy is a faithful one, and indicating the provenance of the original. The standardization in this period is a much more conscious and more literate process than it was in Old Babylonian times. Lexical lists were no longer adapted to linguistic or other developments. After some time a number of the Akkadian translations in ur_5 -ra became obsolete. The solution was not to replace these words by current ones but to create three-column texts, in which the Sumerian was translated twice: first into the obsolete Akkadian word, and then into a better understood synonym²⁴¹. The living Old Babylonian traditions turned into monuments of learning.

2.5.3 The Transmission of the Curriculum

Even though ur₅-ra changed considerably in character over the centuries, it still functioned as an exercise in Neo-Babylonian schools. Not all school texts survived after the Old Babylonian period. Some compositions were abandoned, others were transmitted but ceased to be used in the curriculum. In this section the transmission of the scribal curriculum will be studied by means of the history of three compositions known from the Nippur Eduba: TU-TA-TI, Proto-ki-ulutin-bi-še₃, and Proto-Ea.

TU-TA-TI is almost exclusively attested in Old Babylonian Nippur (see §2.4.1.1). At least one of the TU-TA-TI versions included a number of Akkadian words. The six-sided prism fragment HS 1801 has regular TU-TA-TI items on side A. Side F reads as follows:

See Rochberg-Halton 1984; Lieberman 1990; and Civil in MSL 14, pp.168-169.

This commentary is called mur-gud. See Cavigneaux 1983, p.628.

Perhaps the line is to be reconstructed [¶ la te]-gi₄, as in HS 1625 side E line 9'. For this text see below.

02'	[] lu	
03'	[] mu	
04'	¶ur	
05'	¶ lu-ur (error for lu-mu-ur)	Let me see
06'	a ²⁴³	
07'	¶na	
08'	¶ša	
09'	¶ši	
10'	¶im	
11'	¶ a-na ša-ši-im	To him/her
12'	\P a	
13'	¶na	
14'	¶ka	
15'	¶ši	
16'	¶im	
17'	¶ a-na ka-ši-im	To you
18'	¶ e-ri-ba-am	He is great
19'	¶ e-ri-a-am	He helped me
20'	¶ i-din-nam	He gave me
21'	¶ i-qi ₂ -ša-am	He bestowed on me
22'	^d nisaba za ₃ -mi ₂	Nisaba be praised!
(follow	ved by a colophon).	

After line 17' the scribe saw that he would not be able to finish his text in the space available and he stopped analyzing each word in graphemes. HS 1801 is not an isolated aberration. Another six-sided TU-TA-TI prism, HS 1625, duplicates the last few lines of HS 1801²⁴⁴. It preserves another portion of this version of TU-TA-TI on its side E which has the expressions²⁴⁵:

1'-4'	¶ ap-pu-tum	Please
5'-8'	\P la te-gi $_4$	Do not be careless

The prism fragment Ni 3180a has a similar text (Çiğ, Kizilyay, and Landsberger 1959, p.65). In column I it preserves a series of words which all appear in the onomasticon:

2-5 ¶ *ba-aš-ti* My pride

Line 6' was inserted after line 7' had been written. It does not have the single vertical wedge which regularly indicates the individual items in TU-TA-TI.

Legible are the words i-di[n-nam] and i- qi_2 -ša-am (both analyzed in graphemes) and the subscript dnisaba- za_3 - mi_2 .

The lines 1'-3' have the syllables ap; pu; and tum. The text is presented here in an abbreviated way. Additional examples of Nippur TU-TA-TI texts with Akkadian expressions are UM 29-13-179 + UM 29-13-518, a type I tablet including regular TU-TA-TI items and the expression *um-ma a-na-ku* (reverse III 1'-7') and CBS 7860, a square prism fragment, including the expressions *um-ma-[]* and *tu-kul₂-ti* (side A 1'-5') and unidentified words on side B.

6-9	¶ ba-la- _t i3	My life
10-13	$\P la$ -ma-si $_2$	My Lamassu (protective spirit)
14-17	¶ um-ma-ti	My tribe?

The first three are known as a standard set in the list of Akkadian names in *PBS* 11/2, where they are combined with various divine names. The same prism, however, also has an entry which has nothing to do with personal names (column II 2-9):

```
¶ ta-aš-ba šu-up-še-ha Sit and rest
```

The relation with the onomasticon is, therefore, not central to the idea behind the text. The type II tablet CBS 5870 (*PBS* 11/2, 65) is related:

01	¶ <i>i-</i> [
02	$\P i$ -[di] n	He gave
03	¶ i-din-nam	He gave me
04	¶ i-qi2-ša-am	He bestowed
05	¶ i-ri-ba-am	He is great
06	¶ e-ri-a-am	He helped
07	¶ i-tu-r[a-am]	He came back

The association of exercises in Akkadian words with TU-TA-TI is also found in *TIM* 9, 85, a text most probably from Tell Harmal²⁴⁶. The first column of this tablet has a TU-TA-TI version. The other columns (2-7) contain Akkadian words, ordered by first sign. The sections preserved are i-, a-, na-, nu-, ma-, li-, and mu-. Each section has dozens of entries.

The first few lines of column 2 are almost identical to the beginning of a list edited from Sippar texts by Tanret (1989)²⁴⁷. Two Tell Harmal lentils have the opening lines of the same text.

Sippar	(Tanret 1989) ²⁴⁸	Tell Harmal (A = TIM 9, 85; B = lentils ²⁴⁹)			
		A	В		
1	¶i		1	¶i	
2	¶ia	ii1	2	¶ia	
3	¶ i-din	ii2	3	¶ i-din	He gave
4	\P i-din-nam	ii3		\P i-din-nam	He gave me

²⁴⁶ See Ellis 1987, p.246 n. 54.

I do not understand why Si 503 and 510 (both *SFS* p.40) were not included by Tanret. Si 510, 1 (¶ *na-aw-ra-am*) parallels *TIM* 9, 85 IV 19. The other items (beginning with KUR) are anomalous, since no logograms are used otherwise. Scheil's edition, however, is unreliable, as Tanret has shown. Si 503 is completely similar in style to the other Sippar pieces, except for the repetition of the same item in 1-2. Line 4 (I *ma-gir*) probably parallels *TIM* 9, 85 V 12'.

The initial vertical wedge in each line is not indicated by Tanret, but see the original editions in Scheil SFS.

²⁴⁹ TIM 10/1, 136 and 142.

		ii4	\P i - bil_2	He reigns [?]
5	\P i - bi	ii5	¶ i-bi	He called
6	\P <i>i-pi</i> ₂ - <i>iq</i>	ii6	¶ i-pi-iq	Embrace of

As far as it is preserved, the Sippar list mainly consists of Akkadian words, most of which are well known from the Old Babylonian onomasticon. It is not as systematically arranged as *TIM* 9, 85, but the two texts have many items in common. Most of the words attested in Nippur TU-TA-TI recur here²⁵⁰. This is particularly true for those words which regularly appear in names and not, for instance, for expressions such as *ana kâšim*, or *lā teggi*. All these lists are of little interest in themselves. Their significance lies in the relations between Nippur TU-TA-TI, the Tell Harmal text and the Sippar list of Akkadian words. The lists have too much in common to be explained by chance. All have the tendency to group lines which share the same first sign. The list of Akkadian words appears to be a northern counterpart of TU-TA-TI.

Interesting for our present purposes is the relation with the so-called acrographic exercises of the Neo-Babylonian period. These exercises have nothing to do with the Old Babylonian acrographic lists such as Proto-Izi²⁵¹. They consist of strings of Akkadian words, primarily verbal forms, ordered by first sign²⁵². A characteristic of these lists is that a word is often repeated in an alternative spelling. A Consonant-Vowel-Consonant sign is broken up into a Consonant-Vowel and a Vowel-Consonant sign: *a-lam-mad*; *a-lam-ma-ad* (I learn)²⁵³. These lists are not standardized, they seem to have been improvised in class. The exercise belongs to an elementary stage of the education. It appears that over the course of time the southern variant, TU-TA-TI, was abandoned, whereas the northern variant, the list of Akkadian words, was transformed into its typical Neo-Babylonian format.

This pattern of transmission is not restricted to this one exercise. Another elementary exercise well known from Neo-Babylonian sources is the sign list S^a. The name S^a is an abbreviation for Syllabary A. The text has nothing to do with Syllable Alphabet A²⁵⁴. S^a is in origin a northern text. It is attested in late Old Babylonian Sippar-Amnānum (Tanret 1982). S^a may be regarded as a simplified version of Proto-Ea (see Civil in *MSL* 14, pp.165-167). In Nippur Proto-Ea was studied after ur₅-ra, by students with some experience in cuneiform writing. In the north S^a was probably treated as an elementary exercise before ur₅-ra. Again, the northern variant survived and was transmitted to the first millennium as a standard element of scribal education. Unlike TU-TA-TI, Ea was not abandoned. It survived but took on another role. First millennium exercise tablets with Ea are rare²⁵⁵. The text was copied and preserved as a learned reference work.

²⁵² See Cavigneaux 1981, pp.117-123 and Maul 1991, p.859.

Eight school tablets are listed in MSL 14, p.157; six from Babylon and two from Sippar.

See also the two Uruk exercises edited by Cavigneaux 1996, p.91 (text 202 with parallel).

²⁵¹ See §2.4.1.3.

²⁵³ The example is taken from Maul 1991, p.859 (= *OECT* 11, 137 col. II).

²⁵⁴ See §2.4.1.1.

Ki-ulutin-bi-še₃ has a similar history. In the first millennium this list of business terminology and grammatical paradigms is not attested as an exercise. The only sources we have are library copies. In the late version of ur₅-ra, tablets 1 and 2 represent a text that is very close in style and content to ki-ulutin-bi-še₃. These two tablets were added in front of ur₅-ra in the Middle Babylonian period. They belong to the most frequently attested exercises on Neo-Babylonian school tablets. In the first millennium the two cognate compositions are clearly distinguished. The one is transmitted as an elementary exercise, the other as a learned reference work. In the Old Babylonian period, however, the two texts are merely variants of the same. In Nippur Proto-ki-ulutin-bi-še₃ is occasionally used as a relatively advanced exercise that was treated in the phase after ur₅-ra (see §2.4.1.3). From Sippar we have a number of late Old Babylonian tablets which clearly represent a predecessor of first millennium ur₅-ra 1-2²⁵⁶. The existence of a variety of similar traditions is further demonstrated by the lexical text from Dhibā'ī published by Al-Fouadi (1976). This tablet duplicates neither the Sippar version, nor the Nippur text, but is related to both²⁵⁷.

With the abandonment of the southern cities the scribes brought their knowledge and their traditions to the north. The Neo-Babylonian curriculum, with S^a, ur₅-ra 1-2 and the acrographic lists of Akkadian verbal forms, is related to the late Old Babylonian curriculum as it was known in Sippar. This tradition may well have been influenced by southern refugees; at present there is no way of knowing. The Nippur exercises Ea and ki-ulutin-bi-še₃ were somehow transmitted and developed, even though they were no longer used in education in that form. We do not know who was responsible for this transmission process; we may speculate that it was a group of Nippur refugees who wanted to keep to their own traditions. The standardization process that started in the Kassite period was apparently aimed at preserving as much as possible. This worked out in two ways. Some compositions, such as the main part of ur₅-ra, show a thorough mix of all traditions that had survived into the Kassite period. In other cases the process led to a secondary distinction between two versions of one composition, thus creating two independent texts. This is the case with S^a and Ea, and ur₅-ra 1-2 and ki-ulutin-bi-še₃, respectively. The prestige of Nippur as a centre of Sumerian learning is still tangible in the transmission process. The Nippur variants of both compositions came to be the most prestigious ones. Ur₅-ra 1-2 and S^a became elementary exercises. Ea and ki-ulutin-bi-še₃ were transmitted as reference works.

2.6 Some Conclusions

The aim of this chapter was to provide a context for the Old Babylonian list of trees and wooden objects. The series ur₅-ra was located within the corpus of contemporary scholastic exercises, and allotted its place in the chronologically distinguishable phases of the lexical tradition.

2

MSL 5, p.7: Si 207, Si 489, Si 659, Si 699; and two Sippar fragments with unknown numbers. Si 207, Si 489, and Si 659 were briefly inspected from a photograph in the Lieberman collection, now in the University Museum, Philadelphia. Similar texts are found in Meturān (personal letter by A. Cavigneaux).

Related texts: *TIM* 10/1, 8; 38; 61; 72; 138 (Tell Harmal lentils); *YOS* 1, 28 (see Roth 1995, pp.42-45); Greengus 1979, no.279 (Ishchali); Arnaud *BBVOT* 3, 34 (Larsa); FLP 1287 (Roth 1995, pp.46-54); AO 7796 (provenance unknown; *RA* 33, pp.87-90); Cavigneaux 1996, texts 181-184 (Uruk). Unpublished: AO 7012; YBC 4745; and MLC 1960, all of unknown provenance.

The main feature that separates the Old Babylonian lexical tradition from both earlier and later ones is its textual flexibility. Each Old Babylonian school used its own version of a common lexical corpus. When studying the Nippur version of the list of trees and wooden objects (Chapter 3), we will see that even the exercises from this one single site exhibit some variation among themselves. The contrast with third millennium lexical sources could not be greater. Archaic lexical compilations, devised at the conception of writing in Uruk, were transmitted virtually unchanged over the centuries. Copies of these texts from third-millennium Fāra and Abū Şalābīkh are not elementary exercises by apprentice scribes. They are generally well (even very well) written, and they are not usually extracts but tend to cover a complete composition. The difference in flexibility between the Old Babylonian and earlier lists coincides with a difference in use. The early texts belonged to advanced, academic knowledge, which may explain their extreme conservatism or traditionality. Pupils and teachers were probably well aware that this knowledge was antiquarian, putting the copyist in a line of tradition all the way back to the very beginnings of writing. Elementary teaching in the third millennium is represented by exercise business documents (Foster 1982) rather than by lexical texts.

The flexibility of the lexical corpus is lost again after the Old Babylonian period. The process of canonization transformed a body of school texts into a collection of scholarly tools. Writing itself had undergone profound changes. The lexical tradition of the first millennium has a different place in the cultural system. Lexical lists were still used in exercises but at the same time these lists functioned as learned exegetical handbooks. They reflect the world of scribes to whom writing itself had become a prime source of knowledge²⁵⁸. The need for reliable knowledge explains the textual stability which makes the later tradition so different from Old Babylonian 'forerunners'.

Old Babylonian ur₅-ra is part of a corpus of educational texts. This corpus is not a random collection of traditional compositions. The scribal curriculum approaches the Sumerian writing system from various angles, each list elaborating one aspect. The lists may be characterized as follows:

Syllable Alphabet B
TU-TA-TI
Syllabic values
Name lists
name writing
Ur₅-ra
vocabulary
Proto-Ea
polyvalency

Acrographic lists ? (perhaps simply remainders)

Proto-Diri complex signs
Mathematical tables number writing
Models and Proverbs sentences

Syllable Alphabet B, TU-TA-TI, and the thematic lists approach the writing system from three basic elements: form, sound, and meaning. From an educational point of view it makes sense to treat names before nouns. Names are nouns of a special type: they are not translated. Akkadian names appear in Akkadian in Sumerian texts and vice versa. Name lists are one dimensional.

For a short characterization of first millennium literate circles see Michalowski 1990, in particular p.395.

They are, therefore, less complex than ur₅-ra, where the pupils had to learn both how to write and pronounce a Sumerian word, and how to translate it into Akkadian. Mathematical tables are often interpreted as exercises in multiplication and division. However, multiplication may be learned without the use of writing, simply by recitation. For computation it is more useful to know a table by heart than to have it written on a clay tablet. Mathematical tables are primarily exercises in writing. The numerical system is relatively independent of the rest of the writing system. A separate treatment of how to handle the sixty-based numbers is more than justified. The so-called acrographic series (Proto-Izi, Proto-Kagal, and Nigga) do not seem to concentrate on one particular aspect of literacy in Sumerian. Being organized by first sign, they create the opportunity to teach whatever had found no place elsewhere.

Most interesting is the position of Proto-Ea and Proto-Diri in the curriculum. The two lists elaborate two specific aspects of the writing system: polyvalency and complex signs. When pupils started to study Proto-Ea and Proto-Diri they had already encountered numerous examples of polyvalent and complex signs in the lists of names and in ur₅-ra. For the modern scholar Ea and Diri are reference works of fundamental importance. They are almost the only entrance available to elementary aspects of the Sumerian writing system. For a pupil of the Nippur eduba things were different. When copying his list of trees and wooden objects he encountered the line GIŠ.KU three times. He did not need another specialized list to learn that these signs had to be read giš taskarin, boxwood, the first time; giš tukul, mace, the second time; and giš dur₂, board, only a few lines further on. He had a teacher to tell him. Pronunciation and translation belonged to the oral explanation provided in class. Proto-Ea and Proto-Diri, therefore, do not introduce polyvalency or complex signs to beginning students. They systematize something long familiar from practice and put it on a higher level of abstraction.

The teaching of the writing system cannot be split up into various aspects without producing an overlap. It is not surprising, therefore, that modern dictionaries often give several ancient sources for one and the same lexical entry. The systematic character of the lexical corpus is demonstrated in citations which link one list to another. In §3.5 we will discuss some such links between ur₅-ra and Proto-Diri. The standardization of the lexical lists in and after the Kassite period included an increase in and systematization of such cross references.

This overview of the Old Babylonian curriculum raises the question of the goals of education at the eduba. In the absence of contemporary reflective statements we cannot hope to recover specific information about the educational goals pursued by this programme. What we can do, however, is to compare the programme with the skills needed in scribal practice. We will see that a would-be scribe learned both too little and too much. A trained scribe had to be able to produce both Sumerian and Akkadian texts. The majority of letters and lawsuit protocols were written in Akkadian. Written Akkadian is all but neglected in the eduba. Those bilingual lists that do exist call for advanced scribes, such as Proto-Diri or Proto-Aa, or are relatively rare (such as the bilingual versions of the acrographic lists and ugu-mu). The exercises Syllable Alphabet B, TU-TA-TI, and the name lists all have their relevance for Akkadian syllabic writing in various ways, but they cannot be interpreted as a systematic introduction to Akkadian writing. TU-TA-TI leaves out important sets of syllables (the emphatics) and introduces other sets which are not relevant for Akkadian at all. Some form of instruction in Akkadian letter-writing did exist. Several letters may be identified as exercises because they duplicate each other but for address

and sender²⁵⁹. However, those excavations that clearly hit an eduba, in Nippur, Ur, and Isin, yielded no more than one or two Akkadian exercise letters²⁶⁰. These texts, in other words, may either belong to another educational tradition, or were used as on-the-job training.

Comparing the training in Sumerian with the skills needed to be a competent scribe shows that the pupils learned far too much. The Sumerian business documents a trained scribe had to produce are relatively simple and straightforward. They mainly consist of a standard set of formulas to be filled in with numbers and names. Moreover, for non-standard formulas the scribe could fall back on Akkadian. The point may be illustrated by two Nippur examples. Stone and Owen 1991 no. 10 is a contract of multiple adoption²⁶¹. The final phrase (21-23) reads: ¹*ip-qu2-daa-mu* ad-d[a-ni] u₃ ibila-a-ni a-na-me-a-bi še-ga-ne-ne *u2-pa-am iš-[tu-ru]*. 'Ipqu-Damu, his father, and all his heirs, have written this tablet in mutual agreement²⁶².' For a reason unknown to me line 23 replaces the formula found in all other comparable texts: 'In mutual agreement they swore in the name of the king' (še-ga-ne-ne-ta mu lugal-bi in-pad₃-eš). In order to formulate the irregular phrase, the scribe switched to Akkadian. Similarly, in another adoption contract, edited as no. 31 of the same volume²⁶³, in order to include direct speech in a document an introductory formula from Akkadian letters is borrowed (*kāam iqbi umma šūma*).

For a future scribe of business documents by far the most relevant exercises are Proto-ki-ulutin-bi-še₃, which is comparatively rarely used, and the model contracts. Lists such as ur₅-ra contain many words which a scribe would never need again. Literary Sumerian, exercised in proverbs and literary texts, had no practical application at all. To sum up, I strongly disagree with Alster (1990, p.11) and Waetzoldt (1986, p.41) who emphasize the practical character of the scribal education. The corpus of lexical lists is well structured, providing various approaches, in rising degree of complexity, to the Sumerian writing system. As to its contents, however, it can hardly count as a practical preparation for the scribal profession. Right from the beginning of the history of writing the archaic lexical texts contain much that is superfluous from a purely utilitarian point of view. And this continues to be the case throughout the history of the Mesopotamian lexical tradition.

The teaching of Sumerian in the Nippur eduba was not guided by the list of skills a future scribe had to master. The lack of attention to Akkadian and the overdose of high-brow Sumerian point in another direction. It seems that handing down the Sumerian language and tradition as

See for such exercise letters: Kraus 1964; Michalowski 1983. An additional example is found in Greengus 1979, no. 20 (Stol 1996).

In addition to the letters discussed by Kraus there are two fictitious Sargon letters. One is from Nippur (unpublished; see §2.4.2) and one from Ur (*UET* 7, 73; the letter is followed by a list of professions; see Sjöberg 1996). Both will be edited by Joan Goodnick-Westenholz in her forthcoming book on Sargon legends. Content and style of the Sargon letters are unlike the more ordinary topics treated in the exercise letters studied by Kraus (see previous note).

²⁶¹ SAOC 44, 15

See for this text, and the translation 'his father' rather than 'their father', Van de Mieroop 1993a, p.126.

OECT 8, 11. Republished in photograph in Stone and Owen 1991, Pls. 50-51.

completely as possible was considered to be all important. A pupil of the scribal school was introduced to the technique of writing, but more importantly he was introduced to the heritage of Sumerian writing and Sumerian poetics.

Chapter 3 The Organization of the Nippur List of Trees and Wooden Objects

In the preceding chapter we characterized the scholastic exercises in use in the Nippur eduba. Now we will focus on one such exercise, the list of trees and wooden objects. This list is the first division of the thematic series ur₅-ra. In Sumerian writing trees and wooden objects are introduced by the determinative GIŠ¹. Therefore, every entry in this list begins with this sign. For this reason we will often use the short name giš list. The divisions of ur₅-ra are organized along semantic principles. The wooden objects are not listed haphazardly; there is a section chariots, a section doors, and another section for the plough and its parts. As we will see presently, other principles are active as well. The question that this chapter seeks to answer is: which principles are at work in the organization of the giš list, and how do these principles interact?

In the discussion I will occasionally refer to other ur₅-ra divisions, in order to test the extent to which the results may be generalized. Due attention will be paid to historical descendants of the giš list. Between the middle Old Babylonian period, the period in which the Nippur tablets were written, and the early 'canonical' texts of the Kassite period the lexical texts were subject to all kinds of changes. If the organizational principles identified here had some objective existence, we may expect them to operate on the development of the list.

3.1 The Main Sections of the Nippur Giš List

In some divisions of Nippur ur₅-ra sections are more easily identifiable than in others. In the list of animals the change to another animal is indicated by a horizontal line. Such lines are absent in the giš list. The transition from one animal to another usually coincides with a change of initial sign, or the sign indicating the main word. In the section snakes each line begins with the sign MUŠ. It is followed by a section where each line begins with UR (dogs and related animals). Throughout ur₅-ra a horizontal line indicating a section is employed where such a graphemic criterion is present. The boundaries between the various parts of division 4: stones, plants, fish, birds, and clothing, are generally indicated by such lines. Each of these parts is graphemically distinguished by its own determinative. In the giš list, however, every single line begins with the sign GIŠ. The division of this list into sections is nowhere indicated in the layout of the ancient texts. The following summary is based upon a semantic interpretation of its contents. In a few cases the boundaries of a section cannot be determined with certainty.

1-141	trees
142-159	miscellaneous wooden objects
160-260	furniture and household utensils
261-320	boats
321-325	staffs

Determinatives do not belong to the word, they belong to the written system only. Determinatives are transcribed in superscript, for instance giš-apin (plough). If the actual word begins with giš- (for instance giš-nimbar: date palm), no determinative is used. Even though giš-nimbar denotes a tree, you will never find the writing giš-nimbar. In some cases we do not know whether the GIŠ is a determinative or constitutes a part of the word.

326-373	chariots and wagons
374-406	doors and locks
407-425	tools for weaving and spinning
426-435a	repetitive items: giš LAGAB and giš BU
436-441	balances
442-495	agricultural tools
496-507	maces
508-514	boards
515-526	measuring vessels
527-561	traps and throwing weapons
562-570	axes
571-579	miscellaneous, including wooden wheel parts
580-591	shovels
592-594	'old wood' (three times ^{gis} sumun)
595-596	knob on a saddle
597-620	musical instruments
621-629	racks for vessels
630-633	unclear, includes 'slaughter bench' and 'straw chopper'
634-644	siege engines
645-706	varia; including repetitive items (giš KUR, giš KAL, giš NIM) and figurines.
707	subscript: praise be Nisaba

Until the beginning of the section treating doors ($^{gi\check{s}}$ ig) this sequence of sections agrees with the late version. After the wagons ($^{gi\check{s}}$ mar-gid₂-da) the first millennium recension continues with agricultural implements (gišapin, etc.). The boundary between wagons and doors in the Old Babylonian version coincides with a physical dividing point: those type I tablets which have only half of the list usually divide the composition exactly there (see $\S 2.4.1.2$)². The second half of the Old Babylonian list (374-end) is less organized than the first half. The first half has a roughly hierarchical arrangement. The sections are themselves subdivided into smaller sections. Thus the section vehicles consists of the subsections chariots (giš gigir), and wagons (giš mar-gid2-da). Between these subsections smaller passages are inserted which treat related words: other types of wagons, whips, etc. (see §3.2). The looser organization of the second half may be exemplified by the treatment of the weapons. There are several sections devoted to different kinds of weapons: maces (gištukul etc.), throwing/shooting weapons (gištukul etc.), th dili, etc.). They are not brought together under a more abstract heading. One might argue that these different types of weapons, which could be easily brought together as one category in our semantic system, may have seemed to be much further apart to the Old Babylonian scribes. Still, it remains difficult to see how measuring vessels could be inserted between weapon categories if this were a thoroughly systematized list of words.

An anomalous passage in the first half of the list is the section miscellaneous wooden objects, immediately following the trees. The position of this section is unexpected because, as we have

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In Middle Babylonian Western versions (Ugarit, Emar) the list of trees and wooden objects is always divided over two tablets with the same point of demarcation (see §2.5.1.2).

argued above, the first half of the list seems to be well organized. The presence of a varia section immediately after the trees calls for an explanation. My hypothesis is that this section bears witness to the earlier history of the list. To demonstrate this point it is necessary first to discuss the section trees.

The section trees is divided into three subsections:

1-120	trees ³
121-134	pharmacopoeia
135-141	parts of a tree

The pharmacopoeia section is the only part of the tree list that is not ordered by natural family, but by use. Most items appear in the late list of drugs called Uruanna⁴. It contains such items as giš šušin (licorice) and giš ši-iq-dum (almond). The latter item is a loan from Akkadian (*šiqdum*). The Sumerian word for almond, written giš LAM, is found in an earlier part of the list in lines 23-24 of the subsection trees⁵. The Akkadian loan giš ši-iq-dum in this section was perhaps considered as the specialized word for almond or almond wood in a pharmacological context. The word was not ordered with its natural kind, which proves that putting the pharmacopoeia together was a conscious decision. The pharmacopoeia is followed by words for the parts of a tree, including roots and branches. The two subsections are semantically related since roots and branches are the parts often used in medical prescriptions.

The overall organization of the trees, into natural kinds, pharmacopoeia, and parts of a tree is not unlike the organization of other main sections. The part treating boats, for instance, is divided into the subsections kinds of boats, parts of a boat, and shipping accessories (see the discussion in §3.2). The subsections pharmacopoeia and the parts of a tree are followed by a section that runs as follows in the standardized Nippur version⁶:

		Translation
142	^{giš} as ₄ -lum	yardstick
143	gisSUG-da	(unexplained)
144	^{giš} dib-dib	water clock
145	giš u ₅	(unexplained)
146	giš dha-ia ₃	(a scribal tool?)
147	gis dub-dim ₂	tablet mould
148	^{gıš} šumun-gi	(very probably a scribal tool)
149	^{giš} ti-bal	sign/signal

The trees themselves are further divided over a number of subsections for natural kinds. See Powell 1987 for the first millennium version.

This list is still unedited. It is known from numerous first millennium sources, including *KADP*, 1-32 and *CTN* IV 192-193.

For the reading of gis LAM see the commentary to lines 23-24 in §5.3.

A number of words from this section (or rather its first millennium counterpart) are discussed by Lieberman 1980, pp.347-351.

```
gišŠID-ma
150
                                     wooden object used for accounting
         giš
tun3
151
                                     case
         giš ba
152
                                     a tool (?)
         <sup>giš</sup>ba-amar
153
                                     ? for a calf
         gišba-še
154
                                     ? for grain
         gišba-šab
155
                                     a tool for cutting
         gišhub<sub>2</sub>
156
                                     (unexplained)
         giš
na-ru<sub>2</sub>-a
                                     stele<sup>7</sup>?
157
         gišešgiri-šu-du7
                                     neck stock
158
         gišnig<sub>2</sub>-na-UD
159
                                     (unexplained)
(Followed by the section furniture, beginning with gis gu-za: chair).
```

Most of the items which can be understood are somehow related to the school. The water clock is known from Old Babylonian mathematical problem texts⁸. The yardstick could be used for metrological exercises. It is often found in passages in royal hymns where the achievements of the king in the eduba are praised⁹. The object ^{giš} ^dha-ia₃ is unknown, but ^dHa-ia₃ is the spouse of ^dNisaba, the patroness of the eduba. The line ^{giš} u₅ (145) is in some texts replaced by ^{giš} le-u₅ (writing board). This reading is retained in later versions¹⁰. Other Nippur texts, however, replace the same item with ^{giš} GAN (unexplained). The reading ^{giš} le-u₅ may well be an attempt to make more sense out of a section that has little unity in itself. A similar explanation may be used for line 143 (^{giš} SUG-da) which is replaced in two texts by ^{giš} maš-da. This may be equivalent to later ^{giš} maš-dara₃, a loan from the Akkadian *maš taru* = inscription, text (see *MSL* 5, p.151, 3). The tool ^{giš} ba is not known to be of specific use in education. A neck stock (line 158) might possibly

have functioned as a punishment, but even then the connection with tablet-making or accounting is more contextual than strictly semantic. Perhaps the interpretation of this section as a collection of words for objects in the eduba turns out to be the right one after all. Nevertheless, the section is still anomalous. None of the other sections, as far as I can tell, is organized by such a local or contextual principle. The confusing number of variants, especially in the first few lines, rather

It is possible that this 'miscellaneous wooden objects' section originally concluded an independent tree list. We can find early forebears of this hypothetical list in the archaic Wood list¹¹. This list mainly consisted of names of trees, but had in its final and least standardized section a

indicates a collection of little used words or varia, which were not all well understood.

The common spelling is ^{na}4na-ru₂-a, with the determinative for stone object. ^{gis}Na-ru₂-a is either a wooden stele, or some wooden part of a stele.

Which does not necessarily imply, however, that a water clock belonged to the standard inventory of a school. The mathematical exercises were meant to be solved by computation, not by experiment.

For instance in Lipit-Estar B (Vanstiphout 1978). For other examples see Sjöberg 1975.

Hattuša: *KBo* 26, 5 (+) 6 IV06': ^{giš}li-um; Ugarit: Thureau-Dangin 1931 pl. 46-47: no.3+no.4 IV40: ^{giš}li₂-u₅-[
] (see photograph of the tablet in *RSO* V, p.24 figure 6a); Emar: *Emar* 6/2, p.415 Msk 74163b IV 19:

^{giš}l[i²-]. For the first millennium version see *MSL* 5, p.151: 2.

See Englund and Nissen 1993, pp.23-25.

number of wooden objects. Between the archaic and the Old Babylonian period the Wood list is known only from a few scattered fragments¹². Somewhere, however, it must have survived since all Old Babylonian versions have retained the opening lines of their most ancient ancestor. In the redaction of the thematic lists in the Old Babylonian period the tree list took on an entirely new character. The short section wooden objects at the end was expanded at great length and given a somewhat systematic organization. Those items from the old section wooden objects that did not find a place in this organization may have been retained as a coda to the tree list.

The second half of the giš list (374-end), beginning with the section doors, shows much more diachronic instability and local variation in its overall organization than the first half. The Middle Babylonian Emar version¹³ generally follows the Nippur tradition but has some interesting deviations. The section ^{giš}tukul (maces) has been moved to a later place in the list. A rough comparison of this part of the list provides the following picture:

Nippur Emar

agricultural tools agricultural tools

maces

boards boards

measuring vessels measuring vessels

By consequence in Emar the section agricultural implements is directly followed by boards (such as the bottom board of a basket) and measuring vessels. These objects may be understood as having at least some relation with agriculture. Thus, in a way, the list becomes better organized than it was before, even though the weapons are still distributed over several sections. The late redaction, as edited in MSL 6, has a completely different version of the second part of the giš list. Some items are moved from the varia sections to a place in the list with semantically related words. For instance the gisgisal entries (oar; lines 645-647) are found in the Nippur text after the siege engines. In the late version they are connected with the section boats, after gis gi-mus (rudder; MSL 5, p.184: 410ff.). Similarly the sections gišligima (shoot; 554-556) and gišdih₃ (camel thorn; 676-679) are moved to the section trees (MSL 5, p.115: 268-272; and p.136: 476f.). However, the late version is so different from the Nippur tradition that the two are difficult to compare. The semantic organization is stronger in the first millennium version than it was in the Old Babylonian period. The development of the list made for a more coherent organization. This is not to say that the late version is strictly organized along unequivocal principles. Plough and harrow are found in tablet 5, but hoe and shovel in 7A and 7B. Here the late version follows a tradition exemplified in Old Babylonian Ur¹⁴. The Old Babylonian Nippur tradition at least had the hoe with the other agricultural implements. The shovel (gis mar), however, had a separate section.

¹² IAS 18-20; TM 75.5197 (see Archi 1992, p.9); SF 68 and 74; OSP I, 8.

The Ugarit version is probably very similar but only a few fragments have been published so far: *PRU* III, Plate X (RS 13.53; see Veldhuis 1996); and *RSO* 7, no. 49.

In general the order of the sections in ur_s-ra 5-7B is more in agreement with the Old Babylonian version from Ur than with that from Nippur (see §5.6.2).

To what extent is the overall organization of the Nippur list of trees and wooden objects representative for other parts of Old Babylonian ur₅-ra? A unique feature of the giš list is that a whole division is filled by only one subject. In the other divisions we find reed combined with hides, ceramics, and metals; or stones with fish, birds, and other subjects. The giš list is the only one that has one and the same determinative all the way through. The list of reed and reed objects (first part of division 2) is formally comparable in that it first lists kinds of reeds, and then continues with reed objects, organized in a way not unlike the wooden objects. However, only a few kinds of reed were distinguished. Therefore, this section is not much more than a short introduction, quite different from the quasi-independent status of the list of trees. In the list of stones (see *MSL* 10) stone objects are generally listed with the kind of stone they are made from. There are a few sections which consist of two parts: first, varieties of a certain stone, then objects made of that stone. An example is the short section ^{na}_igug (carnelian) in *MSL* 10, p.56.

```
na<sub>4</sub>gug
44
                                                          carnelian
           na<sub>4</sub>gug-gazi
                                                          veined?15 carnelian
45
           na<sub>4</sub>gug-me-luh-ha
                                                          Meluhha carnelian
46
           na<sub>4</sub>gug-gid<sub>2</sub>-da
47
                                                          long carnelian
           ^{na_4}gug-lugud_2-da
48
                                                          short carnelian
           na<sub>4</sub>gug-bur<sub>3</sub>-bur<sub>3</sub>-da
49
                                                          perforated carnelian
           na<sub>4</sub>kišib-gug
50
                                                          seal of carnelian
           <sup>na₄</sup>lagab-gug
51
                                                          block of carnelian
           na<sub>4</sub>ellag<sub>2</sub>-gug
52
                                                          bead of carnelian
(The list continues with <sup>na</sup><sub>4</sub>nir<sub>2</sub>).
```

The objects in 50-52 constitute a set that is listed for almost every kind of stone. Further on there is a special section with single entries (71-102) containing, for instance, ^{na}₄u₃-tu, the stone of birth-giving, used in the magico-medical treatment of women in labour, and ^{na}₄igi-muš, the snake-eye stone. For these stones no varieties are listed, nor any objects made of them. The section includes a subsection with colour terms: white stone, black stone, red stone, green stone, and speckled stone ¹⁶. The list of stones concludes with a number of objects without specification of the kind of stone. Here are found, for instance, ^{na}₄na-ru₂-a (stele) and a large number of stone weights, listed in descending order from 1 gu₂ to 1 grain. The stone list, therefore, is best regarded as organized into sections, each section representing a natural kind. The sections may contain both varieties and objects made from this kind of stone. The exceptions discussed could not be made to fit the scheme. This scheme is rather different from the overall organization of the giš list. In the first place the wooden objects are kept separate from the trees. In the second place the kind of wood is almost never indicated for the objects ¹⁷.

Gazi (Akkadian *kasû*) is a plant used as a spice, and as an ingredient in brewing beer. Its identification was discussed most recently by Stol (1994a, pp.175-179), who argues for the old identification dodder (*cuscuta*). The appearance of the dodder suggests the interpretation 'veined' in the present context.

For this set of colour terms see §3.5.3.

There are a few exceptions in the section furniture. See lines 189-194 and 198 of the Nippur version.

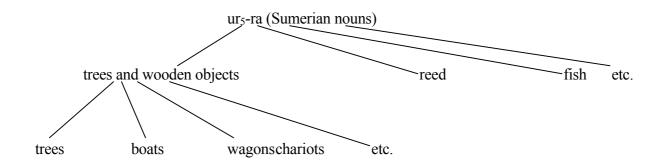
The manner of overall organization, therefore, differs in the various parts of Old Babylonian ur₅-ra. This variation is partly due to the nature of the objects listed, and partly to the graphemic organization of the list. The products of trees are listed with the trees since they share the same determinative. The same holds true for stones and stone products. The products of animals and plants, however, do not immediately follow the animals or plants, but are listed with foodstuffs or with clothing. Cows are found in division 3, but milk and milk products in division 6¹⁸:

 $\begin{array}{lll} ga & milk \\ gara_2 & cream \\ ga-uz_3-da & goat's milk \\ ga-še_x(SIG_7)-a^{19} & sour milk \\ ga-ur_4-a & milk product? \\ ga-tak_4-a & milk product? \\ ga-kin-gal_2-la & milk product?^{20} \\ etc. \end{array}$

The products of cows and goats are not listed with the respective animals; unlike wooden objects, they do not graphemically show their origin.

3.2 The Organization of a Section: Two Examples

The sections of the giš list as discussed in §3.1. may be subdivided into subsections, and such subsections often contain even smaller units. The question that interests us here is that of semantic hierarchy. The division of ur₅-ra over tablets is the most general level of the semantic organization of Sumerian nouns. All trees and wooden objects have found their way into the first division. The analysis of the giš list demonstrates at least some degree of hierarchical organization. For instance:



There is no fixed order of items in this part of ur₃-ra. See Civil in *MSL* 11, p.109. The entries are cited here in the order of source B (*MSL* 11, p.122 section 8).

90

For the reading and translation of ga-SIG₇-a see Englund 1995, pp.418-419, with earlier literature.

Akkadian *i-su*. See Civil 1983, pp.237-238; Stol 1994, p.200.

The question is: how deep did the hierarchical organization go, and how consistently has it been applied?

We will discuss two examples. The first covers lines 261-373. This is a long passage, with subdivisions for specific kinds of vehicles. The second is the passage 442-514 which contains the well-organized section agricultural tools, followed by two short sections: maces and boards.

3.2.1 Boats and Wagons

The section furniture and household utensils ends with words for mortar and pestle²¹. Then follows a passage with boats and wagons. This section has 3 main subsections: boats (giš ma2), chariots (giš gigir), and wagons (giš mar-gid2-da). Inserted between them we find some smaller sections.

Boat (giš má) construction material types of boats parts of a boat accessories for shipping	261-320 261-264 265-296 297-311 312-320
Various words for standard and staff	321-325
Chariot (giš gigir) parts of a chariot	326-346 326-346
Related words giš usan ₃ (whip) giš gag-sal ₄ (chariot or wagon) giš šid-du ₃ (pole pin?)	347-356 347-350 351-353 354-356
Wagon (giš mar-gid2-da) parts of a wagon	357-373 357-373

The section boats differs in structure from the sections treating chariots and wagons. It is much more complete, covering a wider field of terms somehow related to boats and shipping. It not only includes entries for types of boats and parts of a boat but also for construction material and accessories. The section has some rather strange anomalies in its organization. Strangest of all is that the ferry (giš ma2-addir; line 307) is listed among the parts of a boat²². Also unusual is the placement of the geographical types (giš ma2-ma2-ri2: Mari boat; giš ma2-dilmun-na: Dilmun boat). They are not placed together (lines 274 and 296 respectively). The Dilmun boat is found at the very end of the list of types, after procession boats.

For gis naga, and gis gan-na see Steinkeller 1989, pp.36-38.

For the ferry see Selz 1995 with previous literature.

The sections ^{giš}gigir (chariot) and ^{giš}mar-gid₂-da (wagon) do not list any specific types. ^{giš}Gigir and ^{giš}mar-gid₂-da are in themselves two types of wheeled vehicles. The first is used for warfare and ceremonial occasions. The second is intended for the transportation of goods. Still, we would expect geographically distinguished kinds here, or wagons of different capacities such as are found for the boats. The small passages between chariot and wagon are somehow related to both. The ^{giš}usan₃ (whip) may be interpreted as an accessory. The ^{giš}gag-sal₄ is another word for chariot (or a different kind?). The meaning of ^{giš}šid-du₃ is still uncertain²³ but it probably belongs to the same semantic field.

In a truly hierarchically organized vocabulary, the proximity of the sections boats and chariots/wagons could be interpreted as an indication for the existence on a higher level of abstraction of a super-section vehicles. This, however, does not seem to be the case. The short passage standard/staff between boat and chariot has no overt relation with the subject vehicles. This location of the standard/staff passage survived over the centuries. In the late version the sections boats and standard/staff conclude tablet 4, chariot and wagon begin tablet 5. This caesura in the late version again suggests that the abstract idea of vehicles was not recognized in the organization of the list. The proximity of boats to wheeled vehicles in the list is probably due to chance.

The unusual characteristics discussed in the previous paragraphs all disappear in the first millennium version of ur₅-ra. The Dilmun boat is listed with other geographical varieties (*MSL* 5, 174: 281); the ferry (^{gis}ma₂-addir) is found with other kinds of boats (*MSL* 5, 180: 352-353). The subsections on chariots and wagons now both have a passage listing types (*MSL* 6, p.5: 7-14: chariots of various gods; p.12: 74-79: kinds of wagons). One of the effects of the transmission over the centuries appears to be the levelling out of such anomalies.

We will now narrow our focus to see how the subsection chariots is organized in detail²⁴.

326	^{giš} gigir	chariot
327	^{giš} e ₂ -gigir	cabin of the chariot
328	gise2-usan3-gigir	box for the whip of the chariot
329	^{gis} SUM-KI-A-gigir	(unidentified)
330	^{giš} kun-gigir	rear part of the chariot
331	giš GUL-gigir	(part of) the yoke of the chariot?
332	^{giš} sahar-gi-gigir	'dustguard' of the chariot
333	^{giš} su-din-gigir	part of the pole of the chariot?
334	^{giš} su-lum-mar-gigir	tethering ropes of the chariot
335	^{giš} sag-kul-gigir	side poles' of the chariot
336	giš sag-dur ₂ -gigir	seat of a chariot
337	gisgir3-gub-gigir	footboard of the chariot
338	^{giš} mud-gigir	handle of the chariot

See Civil 1968, p.8; and Steinkeller 1990, p.23.

For the terminology of the parts of a chariot see Civil 1968, Klein 1989, and the older study by Salonen 1951.

339	giš gag-mud-gigir	peg of the handle of the chariot
340	gis šudul-gigir	yoke of the chariot
341	^{giš} gag-šudul-gigir ^{giš} umbin-gigir	peg of the yoke of the chariot
342	^{giš} umbin-gigir	wheel of the chariot
343	^{giš} gag-umbin-gigir	peg of the wheel of the chariot
344	giš si-gigir	horn of the chariot
345	^{giš} gaba-gigir ^{giš} gaba-gal ₂ -gigir	front guard of the chariot
346	^{gıš} gaba-gal ₂ -gigir	front guard of the chariot

The meaning of some of these terms is still uncertain or only understood in a very general sense. Such uncertainties hinder the semantic analysis of this passage. From what is understood, however, there is no clear relation between the structure of a chariot and the sequence of the list. The ^{giš} su-lum-mar, the tethering ropes²⁵ (or some wooden part attached to the tethering ropes?), belong to the front part of the chariot. Other items belonging to the front part are listed further on: ^{giš} gaba-gigir and ^{giš} gaba-gal₂-gigir. The ^{giš} e₂-gigir and the ^{giš} sahar-gi-gigir probably refer to the same superstructure on the chariot. The second item (dustguard) may be the canopy or a special kind of canopy. If an ordering derived from the structure of the chariot is absent (or at least not strong enough to be recognized as such), there is another principle that is clearly at work here. Items sharing the initial sign are paired:

^{giš} e ₂ -gigir	^{giš} su-din-gigir	^{giš} sag-kul-gigir	^{giš} gaba-gigir
giš e ₂ -usan ₃ -gigir	^{giš} su-lum-mar-gigir	giš sag-dur ₂ -gigir	^{giš} gaba-gal ₂ -gigir

There is no evident semantic proximity that explains the pairing of ^{giš}su-din-gigir with ^{giš}su-lum-mar-gigir. The reason for putting them together is that they share the initial sign SU. The ^{giš}su-lum-mar-gigir entry is attested in a variant spelling ^{giš}su-lu-mar-gigir. Well known outside the lexical corpus is the spelling ^{giš}zu₂-lum-mar (see Civil 1968, p.8f.). This spelling, however, would break the graphemic alliteration with ^{giš}su-din-gigir and is conspiciously absent in the extant copies of the giš list. Similarly, all items which have or can have a peg (gag) are put together (lines 338-343). 'Having a peg' is a semantic principle, though only in a very weak sense. Visually this ordering has a strong effect. The word gag is written with the sign KAK, a simple and easily recognizable sign consisting of two main strokes crossing each other, with one small vertical through the lower stroke. In this sequence every other line begins with a KAK sign, a pattern which can hardly escape the eye. The same pattern is used at other places in the giš list as well, for instance in the section ^{giš}apin (plough). In some exercises the order of the ^{giš}umbin and the ^{giš}sudul items is inverted. Others move ^{giš}GUL-gigir (331) to appear before ^{giš}gir₃-gub-gigir (337). Both variants are found in CBS 6068 (SLT 170²⁶):

```
334 rI01' <sup>giš</sup>su-l[um-mar-gigir]
335 rI01' <sup>giš</sup>KA-[kul-gigir]<sup>27</sup>
336 rI03' <sup>giš</sup>KA-[dur<sub>2</sub>-gigir]
```

²⁵ See Civil 1968, pp.8-9.

Ni I-01.

In this and the next item KA must be an error for SAG; the two signs have the same general shape.

```
giš GU[L-gigir]
        rI04'
331
337
        rI05'
                 gišgi[r<sub>3</sub>-gub-gigir]
                 gišmud-[gigir]
338
        rI06'
                 giš gag-mud-[gigir]
339
        rI07'
                 gišumbin-[gigir]
342
        rI08'
343
        rI09'
                 giš gag-um[bin-gigir]
                 giššu[dul-gigir]
340
        rI10'
                 giš gag-[šudul-gigir]
341
        rI11'
344
                 gišs[i?-gigir
        rI12'
```

This variant order does not affect the pattern of putting together all items which have or can have a peg. Such variants as there are in sequence and spelling (in this passage the 'standard text' is only one choice among various possibilities) never violate the patterns described above²⁸.

Items commonly found outside the lists, such as ^{giš}da-gigir (side-board) and ^{giš}ma-gid₂ (pole), are missing²⁹. This passage, therefore, is not an exhaustive description of the parts of a chariot. Nor is it generated by walking around a chariot and listing its parts.

3.2.2 Agricultural Tools, Maces, and Boards (442-514)

The passage 442-514 is divided here into three units of unequal length. The first and largest unit is the section agricultural tools. The other two treat maces and boards. As we will see presently, the boards have a strong relation with the agricultural tools, but the maces are inserted in between in the Nippur text.

3.2.2.1 Agricultural tools

Following a short passage on scales (giš-rin₂) the section agricultural tools begins with ^{giš}apin (plough). The section is interesting for the present discussion because its organization is relatively complex.

There is one exception: in N 2210 + N 6202 + HS 1845 (= Ni II-175) line 328 reads ^{gis}usan₃-gigir instead of ^{gis}e₂-usan₃-gigir. Now the graphemic relation with the item ^{gis}e₂-gigir is lost. This, however, is clearly an error. The item occurs on the obverse of a type II tablet. The teacher's model (N 2210 + N 6202) contains the error, which is faithfully copied by his pupil (HS 1845). The teacher's model contains another error:

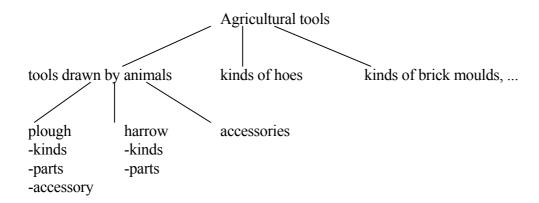
^{gis}su-mar-gigir, instead of ^{gis}su-lum-mar-gigir (line 334). This line is not preserved in the pupil's text.

References for gist da and gist ma-gid, are collected in Civil 1968.

Agricultural Tools	442-495
Plough (gišapin) kinds of ploughs parts of the plough accessory	442-467 442-448 449-466 467
Harrow (giš gan2-ur3) kinds of harrows parts of the harrow	468-473 468-470 471-473
Objects related to draught animals (part of) the harness? goads	474-476 474 475-476
Hoe (gišal) kinds of hoes	477-482 477-482
Brick mould (giš u3-šub) kinds of brick moulds	483-486 483-486
Stick (giš gag) for uprooting kinds of sticks	487-490 487-490
Irrigation device (gišzi-ri2-qum; etc.) irrigation device part of an irrigation device irrigation device parts or accessories	491-495 491 492 493 494-495

The organization of the subsection ^{giš}apin (plough) is almost equivalent to the organization of the section boats (^{giš}ma₂), except that the latter includes an introductory passage for construction materials. However, boats appear to be a unit on their own, whereas plough is but the first of a number of subsections under the heading agricultural implements. Moreover, plough and the next subsection harrow belong together in being tools drawn by animals. That this is a relevant feature in the organization is shown by the short passage (474-476) that follows harrow containing words for harness(?) and goad. The hierarchy that organizes the agricultural tools is, therefore, as follows:

According to Hruška 1995, p.36 the gis gag is used for sowing. One of the items here is gag-sum-ba-al-la₂, which rather indicates a use for uprooting onions at the harvest. See Stol 1987, p.65.



The left half of the scheme is more complex and has more depth than the right half. The plough is the most complex and prestigious of the implements listed. This is probably the reason why the agricultural tools begin with giš apin, and why plough has the longest and most elaborate subsection. There is no inherent reason why, for instance, the tooth of the hoe (giš zu2-al) should not be listed. It is apparently due to the lower status of the tool. Interestingly, the difference in prestige between the complicated plough and the simple hoe is also used, and subverted, in the literary text 'The Debate between the Hoe and the Plough' (see Vanstiphout 1984). In this text the complexity of the plough is reason to accuse it of conceit as well as clumsiness. Whenever some small part is broken the whole thing is useless, and a bunch of craftsmen is needed to get it back into working order (see also Hruška 1995, pp.32-33). In the final verdict precedence is given to the simpler and humbler of the two: the hoe.

The last subsection of the agricultural implements is the least organized. It lists various words for irrigation machine ($d\bar{a}$ liya or sh \bar{a} d \bar{u} f³¹) and its parts:

491	gišzi-ri ₂ -qum	irrigation device
492	giš gu ₂ -zi-ri ₂ -qum	'neck' of the irrigation device
493	giš nam-nu-tar-re	irrigation device
494	^{gıš} I-LU	irrigation device?
495	^{giš} I-DIB	part of an irrigation device?

The word ^{giš}zi-ri₂-qum is a loan from Akkadian *zuruqqum* or *ziriqqum*. The ^{giš}nam-nu-tar-re (extant in only one manuscript) is found in peripheral Middle Babylonian versions as ^{giš}nam-lú-da-ri-a³², and in late ur₅-ra as ^{giš}nam-tar-(ra) (*MSL* 6, p.65; ur₅-ra 6, 153-154). In the late version ^{giš}nam-tar is rendered *zuruqqum*. The Emar version has *dil_tu* (another word for d_liya, or a similar device) for ^{giš}nam-lú-da-ri-a. In other lexical lists *dil_tu* is the rendering of ^{giš}a₂-la₂ (see *PSD* a-la₂, lexical section), the common Sumerian term for this device. In the Ebla Vocabulary

The Iraqī word dāliya is probably related to *dilūtu*, one of the Akkadian terms for this machine.

Emar version line 264' and 469' (see Civil 1989, p.14). Ugarit version *PRU* III, Plate X: RS 13.53 Rev. II04' (see Veldhuis 1996).

giš a₂-la₂ is translated as šu-ri₂-gum₂, which is again the same word as *zuruqqum/ziriqqum* (Civil 1994, p.69).

Suprisingly, the word ^{giš}a₂-la₂ does not appear in the Old Babylonian lists³³. The items ^{giš}I-LU and ^{giš}I-DIB (494-495) are poorly understood³⁴. The Nippur evidence is not abundant here as there are only two texts. The signs LU and DIB are not always distinguished. In careful writing DIB has two horizontals, LU only one. One of the two Nippur texts (a teacher's model) makes a clear distinction between ^{giš}I-LU and ^{giš}I-DIB, the other does not. The late version (*MSL* 6, p.65:156-158) has:

The sequence in the late version seems to imply that 'threshold' (giš kun₄ = askuppu) is used in Sumerian as a metaphor for an irrigation machine (one can imagine that the water has to cross a 'threshold'). The two Akkadian translations in 157-158, then, are of a different kind. The first (157) resolves the metaphor and gives the common word for irrigation machine in Akkadian; the second (158) retains the metaphor and translates the Sumerian literally. We will see another example of this treatment of metaphors in our discussion of giš dih₃ (camel thorn) in §3.3.2. The metaphorical explanation, however, cannot account for the distinction between giš I-LU and giš I-DIB in one of the Nippur sources³⁵.

Whatever the correct solution turns out to be, this subsection is poorly organized and may already have been poorly understood in ancient times. This is suggested in particular by the subsequent reinterpretations of the word gis nam-nu-tar-re. Translated literally, this wooden object is called an 'undecided fate'. The Middle Babylonian variant gis nam-lú-da-ri-a could be interpreted as 'the human-for-ever device'. The late gis nam-tar is homophonous with the Namtar demon. With the vital importance of water and irrigation for the production of food, the connection between an irrigation device and fate is itself understandable as a source for metaphors. The variants indicate that the metaphor was easily misunderstood. Alternatively, the original item was not a metaphor at all but an attempt to render a foreign word.

The organization of the section agricultural tools is, therefore, not only based upon referential semantics but also on prestige (plough first) and on internal, textual features. The longer and better organized subsections of the agricultural tools are treated first. The most unorganized passage, treating irrigation machines, concludes the section. Not all agricultural tools are

There is an item $^{gis}a_{2}$ -la₂ among the musical instruments but not among the irrigation machines.

³⁴ ^{gis}I-LU and ^{gis}I-DIB may both be read ^{gis}kun₄. Common Akkadian renderings are *askuppu* (threshold) and *simmiltu* (ladder). The Sumerian ^{gis}kun₄ is treated elsewhere in the giš list (O.B. Nippur 246-251), where it is to be rendered *simmiltu* (ladder), as is demonstrated by the late version (ur₅-ra 4: 225-232; *MSL* 5, p.169f.). Ladder and threshold are represented by the same word in Sumerian, but not in Akkadian.

One might entertain the possibility of reading gis i-lu as a deviant spelling for gis a₂-la₂. For this word see Civil 1994, p.100 n.9. Known variant spellings are a-la₂ and perhaps u_5 -la.

included here. The ^{giš}mar (shovel³⁶) is found in a later part of the list (580-591).

3.2.2.2 Maces

The agricultural implements are followed by several words for mace. This section is treated here particularly for its variants. It is a good example of what may be lost in a score edition. The composite text runs as follows:

```
<sup>giš</sup>tukul
496
                                            weapon / mace
         gištukul-šu
497
                                            hand weapon
         gištukul-ur2-ra
498
                                            weapon carried in the belt?
         <sup>gıš</sup>tukul-kun
499
                                            weapon with a tail?
         gišTUKUL-DINGIR
500
                                            divine weapon
         <sup>giš</sup>tukul-gaz
501
                                            shattering weapon
         giš sag-tukul
502
                                            front part of a weapon
         giša-ga-tukul
503
                                            rear end of a weapon
         giš mi-tum
504
                                            mace
         gišmi-tum-sag-50
505
                                            fifty-headed mace
         giš utug<sub>2</sub>
506
                                            mace
507
         gišutug<sub>2</sub>-sag-50
                                            fifty-headed mace
(continues with gis dur<sub>2</sub> items)
```

This sequence is found in CBS 14143 (= SLT 126³⁷), a teacher's model text. One of the points here is the reading of line 500. The combination of signs GIŠ-TUKUL-DINGIR may be read giš middu2, meaning mace, or giš tukul-dingir: weapon/mace of a god. Middu2 is a complex sign that still makes sense when the signs are read separately. giš Middu2 is a loan from Akkadian; it may also be written giš mi-tum, this spelling is found in 504-505. The Akkadian word probably corresponds to the genuinely Sumerian giš utug2 (506-507)³⁸. The identity of the two is visible here because both have a fifty-headed variety. The presence of the giš mi-tum items and the placement of giš TUKUL-DINGIR between other giš tukul items suggests that the intention was to read line 500 as giš tukul-dingir = mace of a god. But another tablet reads:

```
N 5223<sup>39</sup>:
                 gištuk[ul]
496
        rII02'
497
                 gištukul-šu
        rII03'
                 gištukul-ur3-ra
498
        rII04'
                 gištukul-kun
499
        rII05'
                 gištukul-gaz
        rII06'
501
```

³⁶ See Civil 1994, p.95.

Ni II-127.

See Cooper 1978, pp.123-124, 126, and 130; Lambert 1981, p.94ff.; Civil 1985a, p.35f.; Ludwig 1990, p.225. The fifty-headed utug-mace is traditionally associated with the warrior god Ninurta.

³⁹ Ni I-06.

```
502 rII07' giš sag-tukul
503 rII08' giš a-ga-tukul
506 rII09' giš utug<sub>2</sub>
500 rII10' giš TUKUL-DINGIR
(continues with giš dur<sub>2</sub> items).
```

The line gis TUKUL-DINGIR follows gis utug₂ (mace) and the gis mi-tum items are absent. Here the reading gis middu₂ seems to be the most appropriate. The fifty-headed varieties are omitted in this tablet. A third text (HS 1745+)⁴⁰ has:

```
rIV19 gištukul
496
                 <sup>gıš</sup>tukul-šu
497
        rIV20
498
        rIV21
                 gištukul-ur<sub>3</sub>-r[a]
                 giš tukul-kun
499
        rIV22
                 glišTU]KUL-DINGIR
500
        rIV23
504
                 [] mi-tum
        rIV24
                 [] m[i-tu]m-s[ag-5]0
505
        rIV25
(continues with gis dur<sub>2</sub> items)
```

Here the ^{giš}utug₂ items are missing. Probably, ^{giš}TUKUL-DINGIR is intended here to be read ^{giš}middu₂, giving two alternative spellings in sequence (^{giš}middu₂; ^{giš}mi-tum). CBS 6514⁴¹ is badly damaged. The order of the items under discussion, however, is not in doubt:

```
502
                 giš sag?-tukul?-[
        rI03'
                gištukul-ma[h]
501a
        rI04'
                 gišTUKUL-DIN[GIR]
500
        rI05'
                 gišmi-tum
504
        rI06'
                 gišmi-tum-sag-50
505
        rI07'
        rI08'
                 giš {traces}
507
        rI09'
                 [ ut]ug<sub>2</sub>-[
(followed by a break)
```

What appears from all these variants is, firstly, that $^{gi\$}$ mi-tum and $^{gi\$}$ utug₂ were considered to be essentially the same thing. The one is the Akkadian loanword, the other the genuine Sumerian designation. Secondly, $^{gi\$}$ middu₂ and $^{gi\$}$ mi-tum, where both are given, are spelling variants. However, there is nothing to prevent a scribe from reading $^{gi\$}$ TUKUL-DINGIR as $^{gi\$}$ tukul-dingir: 'divine weapon', as seems to have happened in Ni II-127 (= *SLT* 126), cited as the 'standard text'. This reading found its way to Ugarit (*RSO* VII, p.107: 20), where it is glossed de₄-gi-[ra] (for dingir-ra). As expected, the late version (ur₅-ra 7A) has collected all possibilities (*MSL* 6, 84f.):

9	^{giš} tukul-dingir-ra	MIN (=kakku) ili	divine weapon
10	gišmiddu2 (TUKUL.DINGIR)	MIN ša ilānī	weapon of the gods
11	gišmiddu (TUKUL.BAD)	MIN ša tāhāzi	combat weapon

⁴⁰ Ni II-173.

Ni II-210.

3.2.2.3 Boards

The section 'maces' is followed by a section $g^{i\dot{s}}$ dur₂. This word is rendered *kiskirru* in bilingual texts and is understood as a board, or the wooden bottom of something. The peculiarity of this passage is that it almost duplicates the section $g^{i\dot{s}}$ u₃-šub (brick mould).

483	^{giš} u3-šub	508	$^{\mathrm{gi\check{s}}}\mathrm{dur}_{2}$
		509	^{giš} dur ₂ -pisan
484	^{giš} u3-šub-ab-ba	510	giš dur2-ab-ba
485	^{giš} u ₃ -šub-sig ₄	511	^{giš} dur ₂ -sig ₄
486	gišu ₃ -šub-sig ₄ -al-ur ₅ -ra	512	giš dur2-sig4-al-ur5-ra

giš Dur₂-pisan (509) is probably the bottom board of a basket. The words sig₄, and sig₄-al-ur₅-ra mean brick and kiln-fired brick respectively. It appears from mathematical problem texts that the two brick types not only differ in their production process but also in size⁴². Lines 485-486 refer to brick moulds of different sizes. The corresponding boards (511-512) must designate the bottom boards of these brick moulds. Less clear is the ^{giš}_{u₃-šub-ab-ba}, which is translated as *nalbatti apti*, or mould for a window, in the late tradition⁴³. Whatever this mould is, there is a corresponding board listed in line 510. There is no semantic reason why the section ^{giš}_{tukul} ('mace') should be inserted between ^{giš}_{u₃-šub} and ^{giš}_{dur₂}. In the first millennium versions this inconsistency is repaired and the section ^{giš}_{u₃-šub} is immediately followed by ^{giš}_{dur₂}. On the graphemic level the connection between ^{giš}_{tukul} and ^{giš}_{dur₂} is clear enough: both are written by the same sign (KU). What is demonstrated here is a conflict between two associative principles, and different solutions of that conflict in the different versions of the giš list.

3.2.3 The Organization of Sections in Other Parts of Ur₅-ra

In other parts of Old Babylonian ur₅-ra some degree of hierarchical organization is not uncommon. The depth of hierarchy such as was found in the section agricultural tools is rare, however. The Nippur list of domestic animals (*MSL* 8/1, pp.83-88) has a transparent structure, listing male animals, female animals, and their young, classified into ovine and bovine species. Interestingly, a large tablet from the Yale collection (YBC 4679) has an alternative organization using the same categories. The Yale tablet, which is almost completely preserved, is of unknown origin. The order of the sections in both lists may be summarized as follows:

⁴³ MSL 6, p.98: 173; similar for ^{gis}dur₂-ab-ba in line 178. See further Emar 6/4 p.71: 189'; p.73: 270'. In mathematical problem texts (see previous note) we find sig.-ab₂, which is translated as *arhu*: half-brick

See Neugebauer and Sachs 1945, p.92; and Friberg 1996, p.10.

mathematical problem texts (see previous note) we find sig₄-ab₂, which is translated as *arhu*: half-brick (literally: cow-brick). There does not seem to be a relation with ^{gis}_{u3}-šub-ab-ba. In mur-gud both ^{gis}_{u3}-šub-ab-ab and ^{gis}_{dur₂}-ab-ba are explained as the *birru* or lattice of the opening of a window (*MSL* 6, p.111: 96-97).

Nippur YBC 4679				
1	1	udu	sheep	
2	2	u_8	ewe	
3	4	uz_3	nanny goat	
4	6	$ma\check{s}_2$	billy goat	
5	3	sila ₄	lamb	
6	5	ešgar	female kid	
7	9	gud	bull	
8	7	ab_2	cow	
9	8	amar	calf	
10	11	anše	donkey	
11	10	eme ₃	female donkey	

The sequences are interesting, because both exhibit some kind of system. In the following scheme the plain numbers indicate the ordinal number of the section in the Nippur version, whereas the numbers between brackets refer to the sections in the Yale version.

	Ovine				Bovine		
	Sheep		Goat	oat			
	Male	Female	Male	Female	Male	Female	
Grown	1 [1]	2 [2]	4 [6]	3 [4]	7 [9]	8 [7]	
Young	5 [3]			6 [5]	9 [8]		

In the Nippur version the grown ovine animals are listed first, followed by their young. Then the bovine animals are listed, again followed by their young. The Yale text has the sequence female - young - male. The only exception is udu (sheep). This is probably due to the fact that udu is the incipit after which this list was named. The Nippur version also has an exception: nanny goat precedes billy goat, whereas in the other categories the male is in first position. The word for the female of the species coincides with the general word for 'goat'. Linguistically speaking, uz₃ is unmarked, maš₂ is marked as male. In Nippur the opposition used for sequencing in this section is not male-female, but unmarked-marked.

In the reconstruction in *MSL* the Old Babylonian list of domestic animals has 269 lines. The section udu (sheep), with 106 lines, is by far the longest. Within the udu section several subsections may be distinguished, so that this list has a fairly deep hierarchy.

In §3.1 we saw that the overall organization of the list of stones differs from the giš list. The giš list has a clear distinction between natural kinds and wooden objects. Among the wooden objects the usual order is: first the object and its types, then its parts. In the list of stones the stone objects are usually listed directly after the varieties of the stone they are made from. On the level of a single section, however, the result is rather similar. In both lists we have first a section main

word + secondary word, and then a section secondary word + main word:

```
Main word + Secondary word:
           varieties of carnelian:
                                                        types of ploughs:
           na<sub>4</sub>gug
                                                                   gišapin
                                                        442
44
          na<sub>4</sub>gug-gazi
                                                                  giš apin-šu
45
                                                        443
           na<sub>4</sub>gug-me-luh-ha
                                                                   giš apin-šu-du<sub>7</sub>
                                                        444
46
          na<sub>4</sub>gug-gid<sub>2</sub>-da
                                                                   giš apin-šu-nu-du7
47
                                                        445
           ^{na_4}gug-lugud<sub>2</sub>-da
                                                                   giš apin-tug<sub>2</sub>-sig<sub>18</sub>
48
                                                        446
                                                                   giš apin-sag-e<sub>3</sub>
           na<sub>4</sub>gug-bur<sub>3</sub>-bur<sub>3</sub>-da
49
                                                        447
                                                                   giš apin-gud-4-la<sub>2</sub>
                                                        448
Secondary word+Main word:
           objects of carnelian:
                                                                   parts of a plough:
                                                                   giš sag-apin
50
           <sup>na₄</sup>kišib-gug
                                                        449
                                                                   giš eme-apin
           na<sub>4</sub>lagab-gug
51
                                                        450
           na<sub>4</sub>ellag<sub>2</sub>-gug
                                                                   giška-šu<sub>2</sub>-apin
52
                                                        451
                                                                   giš šu-sag-apin
                                                        452
                                                                   gišnig2-kud-apin
                                                        453
                                                                   etc.
```

Similar sections may be found in the list of metals (MSL 7, p.231ff). Each of the sections zabar (bronze), ku₃-babbar (silver) and ku₃-sig₁₇ (gold) begin with qualities (written as metal + quality) and continue with objects made of that metal (written object + metal).

3.3 The Role of Akkadian

Unlike the first millennium 'canonical' version, Old Babylonian ur₅-ra is a unilingual list of Sumerian words. However, it is assumed with good reason that in class the Sumerian words were orally translated into Akkadian (see §2.4.1.2). Without translation the Sumerian words would probably make little sense to the beginning pupil. There are various ways in which Akkadian influences the organization of the giš list.

3.3.1 Akkadian Loan Words in Ur₅-ra

Loans from Akkadian, apart from their Akkadian etymology, have two characteristics. In the first place they usually retain the Akkadian nominative ending *-um*. In the second place their spelling, as Akkadian spelling in general, is more liable to variation than that of genuinely Sumerian words. Thus ^{gis}ga-an-nu-um (a wooden rack for vessels) is sometimes spelled ^{gis}ga-nu-um in Nippur (624-627). Other spellings are ^{gis}gan-nu-um (Old Babylonian Sippar; *MSL* 6, p.155) and ^{gis}ka-an-nu-um (*LTBA* I, 78 column ix). The late version has ^{gis}gan-nu (*MSL* 6, p.93f). Similarly, ^{gis}zi-ri₂-qum (an irrigation machine; Nippur 491-492) is spelled in late versions ^{gis}zu-ruq-qum

(*MSL* 6, p.64f.), in accordance with the contemporary form of the word in Akkadian⁴⁴. Or, to take an example from another part of ur₅-ra, ^{kuš}hu-lu-lu-um (leather armour; *MSL* 7, p.219: 103) is found as ^{kuš}ul-lu-lu in the late version (*MSL* 7, p.152: 186).

In Old Babylonian ur₅-ra we may distinguish between three types of loans from Akkadian: isolated loan words, passages with loan words, and pairs of items where a genuinely Sumerian word is followed by its Akkadian translation or vice versa.

1 Isolated Loan Words

Akkadian words may be encountered in the middle of a sequence of Sumerian entries. An example may be found at the end of the section giš mar-gid2-da (wagons)

370	^{giš} u ₄ -sakar-mar-gid ₂ -da	'crescent' (half a wheel) of a wagon
371	giš gag-u4-sakar-mar-gid2-da	peg of the 'crescent' of a wagon
372	^{giš} nam-ha-ru-um-mar-gid ₂ -da	shaft? of a wagon
373	gišen3-dur-mar-gid2-da	'umbilical cord' of a wagon

Line 372 is given a more Sumerian look in later versions⁴⁵: $^{gi\check{s}}$ nam-hara_x(NUNUZ+AB₂+BI)-mar-gid₂-da = $namhar\hat{u}$. In morphology the item $^{gi\check{s}}$ nam-ha-ru-um-mar-gid₂-da follows the rules of Sumerian grammar, rather than those of Akkadian⁴⁶. It is, therefore, treated as a real loan in Sumerian, not as an Akkadian intrusion in the list.

Another example, again in the section ^{giš}mar-gid₂-da, may be found in the Old Babylonian version from Ur (see §5.6: Ur I-01 Col I, 32'):

This line parallels the Nippur line 363: giš gir₃-gub-mar-gid₂-da. This item is translated *manzāzu* footboard of a wagon in later versions (see *MSL* 6, p.13: 86).

Some loans have a short passage of their own. An example is the section ^{giš}zi-ri₂-qum (irrigation device: 491-492). Their treatment does not differ from that of originally Sumerian words. Akkadian loans are found throughout the ur₅-ra versions of all periods, and do not require further comment in themselves.

2 Sets of Loan Words

 $^{^{}gi\check{s}}$ ma-an-za $_3$ -ma $[r-gid_2$ -da]

The Emar version has the form ^{gis}zi-ri-qu (*Emar* 6/4, p.72:262'f. and p.78: 467'f.). NBC 10915 (Kassite unilingual version of early 'canonical' ur₅-ra 6; unpublished) has ^{gis}zi-ri-qum.

Ur₅-ra 5, 88; MSL 6, p.13. See the commentary to line 372 in §5.3.

In Akkadian the genitive construction would require the pre-genitive form ('construct') without case ending (*namhar*).

There are some passages where Akkadian loans are collected. The most important of these is found in the section trees:

```
gišza-ba-lum
054
          giše-la-ma-kum
055
          giš gi-ri<sub>2</sub>-lum
giš gi-rim
056
057
          giš zi-ir-dum
058
          giš ur-nu-um
059
          gišti-a-ru-um
060
          gišri<sub>2</sub>-a-num<sub>2</sub>
061
          gišur-zi-num<sub>2</sub>
062
          gišmi-ri2-iš-gar-ra
063
```

Most items in this section are recognizable as Akkadian loan words by the nominative ending - um. ^{giš}Gi-rim (line 57) is a genuinely Sumerian word (olive.) One of the Akkadian translations of ^{giš}gi-rim is *girimmu* ('a kind of fruit'), a Sumerian loan in Akkadian. In other words, what we have here is a collection of loans, either Akkadian loans in Sumerian, or Sumerian loans in Akkadian. The passage lists entries which are identical or almost identical in the two languages. Seen from this perspective the passage is even longer, since it is preceded by ^{giš}mes (*mēsu*; 49-51), ^{giš}erin (ceder: *erēnu*; 52), and ^{giš}šu-ur-min₂ (cypress: *šurmēnu*; 53). The section giš-nimbar (date palm) that follows may also belong here (Akkadian *gišimmaru*; 65-104). The only exception is ^{giš}isi₂-mu₂, found between ^{giš}mi-ri₂-iš-gar-ra and giš-nimbar. This item may have been attracted by its Akkadian-like /u/ ending. This section Akkadian loans, as expected, is more than usually prone to orthographic variants. In the late version the section has been considerably extended (see *MSL* 5, pp.111-114: 226-264).

Comparable sections may be found in other parts of ur₅-ra, but I am unaware of any other example of this length. Among the stones, in Nippur division 4, we find (MSL 10, p.59f.)⁴⁷:

The section vessels of Nippur division 2 includes (MSL 7, p.200):

041	^{dug} za-hu-um	container ^{?48}
042	^{dug} la-ha-nu-um	bottle

_

For parallels from the Middle Babylonian Western periphery see *MSL* 10, p.49: 331-335 (Ugarit); and *Emar* 6/4, p.124: 196'-201'.

See Grégoire, 1970, p.254 (commentary to no. 206, 1), with previous literature. The word often occurs in Ur III texts with the zabar ('bronze') determinative. See now Sallaberger 1996, p.109 sv ^{dug}za-hum with many references.

043 ^{dug}za-ad-ru-um ?⁴⁹

3 Sumerian/Akkadian Item Pairs

The third type of loan entries are those which are found in connection with the genuinely Sumerian equivalent. One example is found in the sequence of Akkadian loans treated above. ^{giš}Gi-rim is followed by ^{giš}zi-ir-dum, both meaning olive. The first is the Sumerian word, the second an Akkadian loan for the same (Akkadian *sirdum*). Another example is found among the weapons:

504	^{giš} mi-tum	mace
505	gišmi-tum-sag-50	fifty-headed mace
506	giš utug ₂	mace
507	gišutug ₂ -sag-50	fifty-headed mace

This section was treated in more detail in §3.2.2.2. There the passage appeared to have a number of variants, showing that ^{giš}mi-tum (mace) is a loan from Akkadian, referring to the same weapon as the Sumerian ^{giš}utug₂.

A third example is the word ^{giš}ebir, which is the equivalent of Akkadian *kannum* (= wooden rack for vessels). The Nippur list runs as follows:

621	^{giš} ebir	rack for vessels
622	^{giš} ebir-a	rack for water jars
623	^{giš} ebir-kaš	rack for beer jars
624	^{giš} ga-an-nu-um ^{giš} ga-an-nu-um-a	rack for vessels
625	^{giš} ga-an-nu-um-a	rack for water jars
626	^{giš} ga-an-nu-um-ga ^{giš} ga-an-nu-um-kaš	rack for milk jars
627	^{gıš} ga-an-nu-um-kaš	rack for beer jars

In two exercise tablets (Ni II-033 and Ni II-087) the ^{giš}ga-an-nu-um-ga is omitted, so that the ^{giš}ebir and the ^{giš}ga-an-nu-um passages are exactly equivalent.

In a few instances the Akkadian equivalent of a Sumerian entry is found as a variant. This is the case in the following lines on the reverse of Ni II-095:

```
rI15 rI16 rI16 ris gag-nir-gigir
```

The lines represent the entries 340-341, which in the standard text have šudul instead of nir. The Sumerian $g^{i\bar{s}}$ šudul (yoke) is rendered $n\bar{v}$ in Akkadian.

The word appears as ^{im}ŠID, with reading zadru or zadri in Ea and other lexical lists. See *CAD* Z sv *zadrû*. The translation proposed by *CAD* (half-tile for a drain) is no more than a guess.

The lentil IM 58046 (= 2N-T730)⁵⁰ has ^{giš}zu-ti-a-nu-um for standard ^{giš}peš₇-gal (a tree; line 117)⁵¹ and ^{giš}za-ri₃-aš-tum, instead of regular ^{giš}zar-si (another tree; line 123). In both cases the variant represents the Akkadian translation of the Sumerian entry (*gudānum* and *zaraštum* respectively). The tablet in question, however, is anomalous in several respects. It has the shape of a lentil (type IV). Textually, it has a mixed format. The obverse looks like a regular type IV text, with a two-line model text by the teacher, repeated by the pupil. The reverse, however, has a longer abstract in three columns, ending with the passage exercised on the obverse. This is exactly what we would expect on the reverse of a type II tablet. Another anomalous feature of this tablet is that the text on the reverse is abbreviated. Many items of the standard Nippur text are omitted to an extent not found in any other example. The whole giš-nimbar section, lines 65-104 in the composite text, is reduced to two entries. Since the tablet cannot be related properly to the main corpus, its evidence is difficult to evaluate.

4 Loans in Late Ur₅-ra

In the late version of ur₅-ra loan words are a very important element in the fabric of the text. A good example comes from the section vine in ur₅-ra 3 (MSL 5, p.94)⁵²:

20	gišKIN-geštin	ishunnatum	bunch of grapes
21	^{giš} KA-geštin	MIN	idem
22	^{giš} ka-ra-an-geštin	MIN	idem
23	^{giš} ka-ra-an-geštin	tillatum	young plant?
24	^{giš} til-la-geštin	MIN	idem
25	giš pa-pa-al-geštin	MIN	idem
26	pa-pa-al-geštin giš pa-pa-al-geštin giš pa-pa-al-tur-geštin	papallum	young plant
27	^{gıš} pa-pa-al-tur-geštin	$MIN [_{S}ehru]$	small young plant

Very probably, gis KA-geštin (21) is an abbreviation for gis ka-ra-an-geštin. The Assur texts contain the variants gis GA-geštin and gis ga-ra-an-geštin respectively. Such abbreviations are common in late ur₅-ra. Another example is ur₅-ra 4: 449-451; MSL 5, p.134:

449	^{giš} gal	_s udānu	(a tree)
450	^{giš} peš-gal ^{giš} su-da-num	MIN	idem
451	^{giš} su-da-num	MIN	idem

Edited as Ni IV-12 in §5.5. The obverse was published as *TIM* X/1, 130. The reverse was partly edited by Landsberger in *MSL* 5, p.132f.

See also the Tell Harmal lentil *TIM* X/1, 86 line 2: ^{gis}_şu-di-a[n²-num]. Furthermore, the word is found as a loan from Akkadian in Sumerian economic texts of the Ur III period (see Steinkeller 1991). For the passage in late ur_s-ra (ur_s-ra 4:449-451) see below.

Text B (Nineveh) and Kish 38. Two other texts used in *MSL* are from Assur (A and M). Their variants are taken into consideration in the discussion below.

From earlier versions it is clear that ^{giš}peš-gal is the full spelling of the Sumerian word. In the geštin passage, the ^{giš}ka-ra-an-geštin item is repeated in the Sumerian column, and used for the transition to *tillatum* items in the Akkadian column⁵³. There may or may not be some use of Sumerian ga-ra-an that justifies the equation with *tillatum*, but its presence is more easily explained by the vertical connection that it provides between the *ishunnatum* and the *tillatum* entries. There are three Sumerian words rendered *tillatum* in the Akkadian column. The first (^{giš}ka-ra-an-geštin), as explained above, is used to make the connection with the preceding section. The next item is the Akkadian word, copied to the Sumerian column (^{giš}til-la-geštin). Only the third is the common Sumerian word: ^{giš}pa-pa-al-geštin⁵⁴. This word is again copied to the Akkadian column to produce a Sumerian loan word in Akkadian: ^{giš}pa-pa-al-geštin = *papallum*. The most plausible reconstruction of the basic linguistic data may be summarized as follows:

 $g^{i\dot{s}}$ ka-ra-an-geštin = *ishunnatum* bunch of grapes $g^{i\dot{s}}$ pa-pa-al-geštin = *tillatum* young plant

The other items are constructed by abbreviations, by loans either way, or are invented to provide vertical connections.

3.3.2 Multiple Translations of the Same Entry

The Akkadian loan words in the Sumerian column of Old Babylonian ur₅-ra are an overt influence of Akkadian on the unilingual lexical text. A covert way in which Akkadian interferes with the lists is found in repeated entries. Such entries are of two kinds. An item may be repeated to cover various Sumerian readings of the same sign. This is the case with ^{giš}BU, repeated four times (to be read ^{giš}mudla; ^{giš}madla; ^{giš}madla; and ^{giš}gazinbu). Examples will be treated in §3.5.2. By comparison with other lists, such as sign lists, and later versions of ur₅-ra, it is clear that in other cases repetitions signal different Akkadian translations.

The section gišNIM runs as follows in the Old Babylonian Nippur version:

676 gišNIM

677 gišNIM

678 ^{giš}NIM

679 giš NIM-kur

The passage is found almost at the end of the list, in a section of varia. In Middle Babylonian Emar the lines have a comparable context. The Emar version is very important, because it

_

Text M uses the same technique, but here the Sumerian gistil-la-gestin does the job: [gistil-l]a-gestin = MIN (ishunnatum); gistil-la-gestin = tillatum.

Note that this word was considered 'ursprachlich' (not Sumerian) by Landsberger (1967a, p.19 n.59). This makes no difference to the present argument since the word entered Akkadian by way of Sumerian. From an Akkadian point of view *papallum* is a loan from Sumerian.

provides glosses to the Sumerian column and Akkadian translations. Here the passage reads⁵⁵:

527'	^{ti-hi} NIM	baltum	camel thorn
528'	^{[n]i-eš-še} NIM	asâtu ⁵⁶	chaos, turmoil
529'	^{[t]i-hi} NIM	ašāgu	acacia
530'	^{[t]i-hi} NIM	i _s u hannapširu	?
531'	[N]IM-kur-ra	balti šadî	mountain camel thorn

The glosses point at a reading ^{giš}dih₃ for most lines. A problem, however, is the gloss ni-eš-še for the second line. Ni-še is the common gloss for giš in the Emar text. It is possible that this is an assimilated rendering of giš-nim (compare the Akkadian rendering of giš-nimbar as *gišimmaru*, where the /n/ is regressively assimilated).

The corresponding passage in late ur₅-ra tablet 3 is now broken⁵⁷. No ^{giš}NIM passage is found in Proto-Diri. In first millennium Diri II 245-249 we find⁵⁸:

te-hi	GIŠ.NIM	baltu	camel thorn
		hištu	?
		sahmaštu	chaos, turmoil
		za'tu	?
		handašpiri (var. handaštu)	?

Comparison of the passages in Emar ur₅-ra and Diri II yields interesting results. *Baltu* (camel thorn) is the usual rendering of $^{gi\bar{s}}$ dih₃(NIM)⁵⁹. $I_{\varsigma}u$ hannapširu is related to the late form handašpiri⁶⁰ in Diri II. The variants in Diri II show that the late scholars were not certain about the correct form either. *Asâtu* (*ešâtu*) means chaos, turmoil. In Diri II we find the synonym *sahmaštu*. In *CAD* it is assumed that both Akkadian words for chaos have lent their names to some kind of shrub (either the same kind or two different kinds). An easier interpretation works the other way round. A Sumerian word for shrub, $^{gi\bar{s}}$ dih₃, is used metaphorically for chaos or turmoil. The Akkadian translations interpret the metaphor⁶¹. *Ašāgu* (kind of acacia) is generally

⁵⁵ *Emar* 6/4, p.79.

A variant text has ud^2 -du-tu in the Akkadian column. The gloss for the Sumerian entry is not preserved. The Akkadian is probably a writing for eddettu. Eddettu and $a\bar{s}\bar{a}gu$ (line 529') share the sumerogram $^{gis}U_2$ -GIR₂, which may have something to do with the confusion here.

See *MSL* 5, p.136: 476f. The evidence from Emar and the parallel in Diri II suggests that the ^{gis}NIM passage should take up more lines than the two reconstructed in *MSL*.

Similar equations are found in Aa (see *MSL* 14, p.506).

For gis dih, see Civil 1987a, p.41.

Hištu, za'tu, and handašpiru are translated as 'plant of the brier group' in CAD. These words hardly appear outside the lexical corpus.

The Akkadian word *baltu* may have been used metaphorically for chaos in a procession omen in *Šumma*

equated with Sumerian giš U₂-GIR₂ (kiši₁₆) and often associated with baltu.

Though some questions remain unanswered as to the interpretation of the Nippur ^{gis}NIM passage, the following points seem to be clear. In all or most lines we have to read ^{gis}dih₃. The repetition of the item is justified by different Akkadian translations. These Akkadian words denote various kinds of prickly shrub. One of the entries may denote thorny bush in Sumerian, but was interpreted metaphorically as turmoil. In the late version of ur₅-ra the passage is transferred to the section trees, where it properly belongs semantically.

Another example of a repeated entry is the item ^{giš}IGI-TUR-TUR (544-546). In the lexical tradition this word has three Akkadian equivalents, all meaning offshoot, sapling, etc.: *ligimû*, *ziqpu*, *niplu*. Because of its relevance for the relation between ur₅-ra and Diri this passage will be treated in more detail in §3.5.2.

Further examples are 426-428: ^{giš} ellag(LAGAB); 592-694: ^{giš} sumun(BAD); 663-665: ^{giš} kur; and 666-668: ^{giš} esi(KAL). All these passages repeat the same Sumerian entry three times. In first millennium ur₅-ra 6 they are collected and expanded into a section entirely devoted to repetitive passages (see *MSL* 6, pp.54-59). The Old Babylonian KUR and KAL(esi) entries may be compared with the Emar version:

```
Nippur:
663 <sup>giš</sup>kur
664 <sup>giš</sup>kur
665 <sup>giš</sup>kur
666 <sup>giš</sup>esi
667 <sup>giš</sup>esi
```

(followed by a break; the missing lines may include giš URI and/or giš gibil items).

```
Emar<sup>62</sup>
        ku-ri-ni-šeKUR
498'
                                 kūri
                                                  log
        ku-riKUR
499'
                                 ki-it-t[a-
        ku-riKUR
500'
                                 kiškibirru
                                                  kindling wood
        e-šaKAL
503'
                                                          ebony
                                          ešû
        gi-iš-kal-laKAL
504'
                                 martû
                                                  stick?
        ren -ešKAL
505'
                                                  pole or stick? (lexical only)
                                 nappasu
```

This Emar passage is followed by similar sections for URI.KI and probably GIBIL.

Repeating passages with different Akkadian translations are known in other parts of Old

_lu: 'if the procession boat capsizes into the river, *baltu* will be set'. (Pongratz-Leisten 1994, p.259: 38). Pongratz-Leisten, in her commentary (p.265), rightly argues that the interpretation of *baltu* as a spelling for *baštu* (vital force) is implausible here. A negative apodosis is expected. 'Chaos' would fit this context.

Emar 6/4, p78f. There is no gap between 500' and 503'. On this passage see Civil 1989, pp.13-14.

Babylonian ur_5 -ra as well. From the section GI we may cite gi-gur-da (MSL 7, p.183: 27-28) with three different Akkadian translations (all referring to a kind of reed basket) in the late version (*MSL* 7, p.39: 43-45):

```
gi gur-da gurdû (or: gigurdû)
gi gur-da maššû
gi gur-da mangarum
```

In the late version of the list of wild animals in ur_5 -ra 14 we find the item uh repeated four times. It is rendered in Akkadian by four different words for louse or parasite (MSL 8/2, p.28: 250-253):

```
uh uplu
uh nābu
uh kalmatum
uh puršu'u
```

The Old Babylonian version contains the same fourfold repetition, though of course without the Akkadian translations⁶³.

In the late version of ur₅-ra repetitions of the same Sumerian item are very common. In §3.3.1 a passage from the section gis geštin (vine) was treated, where it was shown how a chain of items is constructed by giving either multiple translations to one Sumerian entry, or the same translation to various Sumerian entries, or by transferring the Sumerian to the Akkadian column and vice versa ('loan words'). Such passages are frequent and could be cited from almost every page in MSL. The following example is taken from ur₅-ra 7A (MSL 6, p.87):

34	giš nig ₂ -ur ₂ -gaz	nahpû	a tool
35	gisur ₂ -gaz	MIN	idem
36	gisur ₂ -gaz	mēkiku	scratcher or scraper
37	giš ur ₂ -gaz-ku ₆	MIN nūni	idem, for fish
38	gısur ₂ -gaz-mušen	MIN $i_{SS}\bar{u}ri$	idem, for birds
39	^{giš} šu-nir	šurinnu	standard or emblem
40	^{giš} šu-nir	kakku	weapon
41	^{giš} šu-nir	ma _s rahu	standard or emblem
42	^{giš} ru ₃ -a	MÏN	idem
43	^{giš} ru ₃ -a	$nappa_S^{}u$	pole or stick (lexical only)
44	^{giš} mud	MIN	idem
45	giš mud	šulbû	part of a lock? (lexical only)
46	^{giš} mud	ирри	handle

In this passage almost every Sumerian entry has been repeated two or three times. The last giš šu-

The Old Babylonian list of wild animals is unedited. The passage appears in UM 29-16-31 rev. col. IV, 22-25. The same passage may be reconstructed in the traces preserved in the last few lines of *SLT* 56 rev. col. III. The uh items are preceded by a-za-lu-lu (2x) and nig₂-zi-gal₂-edin-na.

nir item has the same Akkadian rendering as the first $^{gi\dot{s}}$ ru₃-a item. Similarly, $nappa_{s}u$ is used to connect $^{gi\dot{s}}$ ru₃-a with $^{gi\dot{s}}$ mud.

3.4 Graphemic Principles

From our general treatment of the corpus of Old Babylonian lists in §2.4.1 it appeared that texts such as Proto-Ea, Proto-Diri, and the acrographic lists (Proto-Izi, Proto-Kagal, Nigga) are primarily ordered by graphemic principles, whereas ur₅-ra is ordered by semantics. In practice, however, this distinction is far from absolute. Graphemic organization is very important in ur₅-ra as well. This is for the simple reason that in Sumerian writing semantics and graphemics cannot be divorced from each other. One example of this is the determinative, which graphemically indicates a semantic class⁶⁴.

Determinatives are a fundamental aspect of the general organization of ur₅-ra. Ur₅-ra never disrupts the graphemic classification of the determinatives. There is, for instance, no section agricultural objects where objects made of wood, reed, or metal are mixed. The geographical list is subdivided into lists of field names, names of places, names of water courses, etc. Alternative organizational principles are easily conceivable: a list of cities each with its field names and canals would make perfect sense. The organization chosen in ur₅-ra means that the place names, indicated by the determinative KI, appear together. The connection of trees with wooden objects in one list, therefore, is not made by any decision of the compiler of ur₅-ra. It is inherent to the cuneiform writing system.

The interweaving of graphemics and semantics goes further than determinatives only. The thematic organization of the giš list has a counterpart in the writing system. All items in the section plough contain the sign APIN. The graphemic organization is not usually operative on its own. The sections ^{giš}mar (shovel) and ^{giš}mar-gid₂-da (wagon) share MAR as their initial sign, but they are not adjacent in the list. Occasionally, however, a graphemic principle becomes dominant. One example is found in the section boats, discussed in §3.2.1. There are two subsections ^{giš}MA₂-DU₃ (308-313); the first to be read ^{giš}ma₂-du₃, the second ^{giš}durgul⁶⁵:

```
308 giš ma<sub>2</sub>-du<sub>3</sub>
309 giš BAL-ma<sub>2</sub>-du<sub>3</sub>
310 giš gir<sub>2</sub>-ma<sub>2</sub>-du<sub>3</sub>
311 giš durgul (MA<sub>2</sub>-DU<sub>3</sub>)
312 giš an-ta-durgul (MA<sub>2</sub>-DU<sub>3</sub>)
```

The gišma2-du3 is a part of a ship; gišdurgul is the mooring pole. Both words belong to the

For the system of determinatives see the introduction to Chapter 3.

In Old Babylonian orthography, durgul (mooring pole) may be written MA₂-DU₃ (later always MA₂-MUG). See §5.3, commentary to the lines 308-313.

semantic field of boats, and therefore the treatment of these sections together still has a semantic justification.

An example treated above (§3.2.2.2) is the position of the section ^{giš}tukul (mace). It is placed before ^{giš}dur₂ (board), apparently because tukul and dur₂ are readings of the same sign KU. The position of the section ^{giš}tukul breaks the semantic coherence of the sections ^{giš}u₃-šub (brick mould) and ^{giš}dur₂ (board).

Graphemic principles operate on the placement and arrangement of sections and subsections, as demonstrated above, but also influence the sequencing of entries within a single section. This was demonstrated for the section ^{gis}gigir (chariot) in §3.2.1. Those items that begin with the same sign are put together. Similarly, in the section trees there is a brief passage with words beginning with ŠU:

```
118 giš ŠU.KAL
119 giš šu-dib-ba
120 giš ŠU.KAL
```

These trees have not been identified; the odds are that they are put together primarily because of their first sign. In the section ^{giš} apin (plough) we find the following passage:

449	giš sag-apin	'head' of the plough
450	giš eme-apin	ploughshare
451	giš ka-šu ₂ -apin	(part of the plough)
452	giš šu-sag-apin	(part of the seeder funnel?)

The signs SAG, EME, and KA belong to the same sign family, with great similarity in their general appearance.

In later versions of the giš list graphemic principles may be demonstrated as well. An example is the section Akkadian loans in the list of trees in first millennium ur₅-ra 3. The Akkadian column is for the greater part reconstructed. Where extant it has ŠU, meaning: 'the same' (as in the Sumerian column). A few lines from this section will suffice to illustrate the role of graphemic organization here (*MSL* 5, p.114):

254	^{giš} ur ₂ -nu	[ŠU]
255	gısur ₂ -zi-nu	[ŠU]
256	^{gis} si-lum	[ŠU]
257	^{giš} si-li-lum	[ŠU]
258	^{giš} ta-a-lum	[ŠU]
259	^{giš} ta-li-lum	[ŠU]

In 254-259 the lines are grouped in three pairs in such a way that the entries of each pair share both the initial and the final sign. Throughout the 'Akkadian loans' section (ur₅-ra 4, 241-264) entries sharing one or more signs are grouped.

In other parts of Old Babylonian ur₅-ra the same interweaving of semantic and graphemic

organization is attested. Putting together all kinds of sheep (division 3) is a semantic principle. The effect is a long series of entries, each beginning with the same sign UDU. Another example is found in the section stones (Nippur division 4)⁶⁶:

146	^{na} 4na	pestle
147	^{na} ₄na-ru₂-a	stele
148	^{na} ₄na-za₃-hi-li	mortar (for herbs)
149	^{na₄} šu-za₃-hi-li	pestle
150	^{na} ₄na-dub-ba-an	stone plaque [?]
151	^{na} ⁴na-gu₂-bi₂-na	$small\ bowl^?$

The word ^{na}4na may refer to a kind of stone ⁶⁷ but it also means pestle ⁶⁸. Some of the entries belong to this semantic field and are derived from the basic word ^{na}4na. This is not the case, however, for ^{na}4na-ru₂-a (stele), and probably not for ^{na}4na-dub-ba-an. In later versions the section is expanded with other words beginning with NA, some of them clearly unrelated to ^{na}4na = pestle. An example is the entry ^{na}4na-pa-_Sum in the Ugarit version (*MSL* 10, p.46, 245). This is a loan word from Akkadian for a kind of stone.

3.5 Relations to Other Lexical Lists and Literary Texts

Each of the Nippur lexical compositions exemplifies and teaches another aspect of Sumerian and the Sumerian writing system (see §2.6). The main focus of ur₅-ra is Sumerian vocabulary, Proto-Ea deals with polyvalent signs, Proto-Diri with complex signs, and so on. In teaching the Sumerian writing system, however, one cannot easily isolate one single feature. The polyvalent or complex signs in Proto-Ea and Proto-Diri can hardly be taught apart from semantics. Therefore the idea of teaching the Sumerian writing system by using various compositions, each focusing on one specific aspect of the whole, necessarily produces overlap. Moreover, within the semantic organization of ur₅-ra not every word will fit neatly into one and only one section of the series. There are passages in the giš list which are duplicated in the list of copper objects, the main difference being the determinative urud instead of giš. Another kind of relation between the lists is found in standard patterns, or paradigmatic sets. The existence of such sets has long been recognized for the colour terms (Landsberger 1967). The colour terms, in a fixed order, are used to qualify all kinds of nouns throughout ur₅-ra. But the same set is also found in other text types, such as literary texts and omen collections.

3.5.1 Correspondences with Other Parts of Old Babylonian Ur₅-ra.

There are a number of objects which appear in ur₅-ra both under 'wooden objects' and in some

⁶⁶ MSL 10, p.59.

The stone is attested in Lugal-e XI. Van Dijk 1983, Vol I p.113: 483.

⁶⁸ See Cohen 1973, p.272.

other division. An example is the whip (usan₃). In context this word normally carries the determinative kuš for leather objects. In Nippur ur₅-ra it appears twice: among the leather objects and in the section chariots and wagons of the list of wooden objects (see §3.2.1 for this section).

```
Nippur giš: Nippur kuš (MSL 7, p.219f.)<sup>69</sup>: 347 <sup>giš</sup>usan<sub>3</sub> 111 <sup>kuš</sup>usan<sub>3</sub> 112 <sup>kuš</sup>usan<sub>3</sub>-lá 349 <sup>giš</sup>eme-usan<sub>3</sub> 113 <sup>kuš</sup>KA-usan<sub>3</sub> 350 <sup>giš</sup>ama-usan<sub>3</sub> 114 <sup>kuš</sup>ama-usan<sub>3</sub>
```

Though the two passages show some differences they are clearly related. The inclusion of these items in the giš list is probably justified by the fact that a whip has a wooden part. The item giš usan₃ still appears in the Middle Babylonian ur₅-ra versions from Emar and Ugarit⁷⁰ but is abandoned in the first millennium text.

A lengthier example is a passage listing kinds of hoes (lub-bi-da; gin₂-sal) and axes (aga), shared by the giš list and the list of copper objects (urud; Nippur ur₅-ra division 2). Some of these instruments are used both as weapons and as agricultural implements⁷¹. In the giš list this section is found immediately after a passage treating spear, javelin, bow, and arrow.

Woode	en objects:	Coppe	r objects (MSL 7, p.224f.):
562	^{giš} lib-bi-da	168	urud lib-bi-da
563	^{gıš} ha-bu-da	169	^{urud} ha-bu ₃ -da
564	^{giš} igi-gal ₂	170	urud. igi-mar
565	$^{ m gis}{ m gin}_2$	171	urud gin2
566	giš gin ₂ -sal ⁷²	172	urud gin2-sal
567	gis aga	173	urud aga
568	^{giš} aga-GIN ₂ -ma	174	urud aga-X-ma
569	^{giš} aga-šilig-ga	175	^{urud} aga-šilig-ga
569a	^{giš} aga-AŠ-GAR	176	^{urud} aga-AŠ-GAR
570	giš aga-e-da?		
571	$^{\mathrm{gis}}\mathrm{U}_{2}$ -e-[177	$^{\mathrm{urud}}\mathrm{U}_{2}\text{-}\mathrm{U}_{2}\text{-}\mathrm{e}\text{-}\mathrm{GIM}$
572	^{giš} KID-a ₂ -gar		
573	^{giš} KID-tukul-mah		

Sources in the University Museum were collated (V1: CBS 11392; V12: CBS 14159+; V15: CBS 11335; V 16: UM 29-16-391+; V18: CBS 9868; and V21: CBS 9876). In line 113 EME is expected rather than KA. Only one manuscript has the sign undamaged where it is a clear KA (V12). See *MSL* 7, p.133: 224: https://doi.org/10.1007/html.

Emar 6/4 p.67: 37'-42'. An Ugarit source is cited in MSL 6, p.11 (V1).

⁷¹ See Civil 1994, p.149.

The reading of this item is uncertain. It appears on only one tablet in an almost illegible line. Another source (a teacher's model on the obverse of a type II tablet) has the variant ^{gis}gin₂-MIN₃. This variant may indicate a reading mi₂ for SAL, but that is rather improbable in this context. The reading ^{gis}gin₂-sal is preferred because this word is well attested for a light kind of hoe (see Civil 1994, p.57 and 70f.).

574	^{giš} KID-dim	178	^{urud} KID-dim
575	^{giš} KID-dim-[179	urud KID-dim-tur

The similarities between the two passages are even more striking when the variants are taken into account. For urud ha-bu₃-da (169) there is a variant urud ha-bu-da. At least one text has gi8 igi-mar instead of gi8 igi-gal₂ (564)⁷³. The enigmatic lines urud U₂-U₂-e-gim and gi8 aga-e-da[?]; gi8 U₂-e-[(571-572) probably represent the same words in both lists. The entry in the copper list has the variants urud U₂-U₂-TUN₃ and urud AGA-e-GI[M]. The reconstruction of the lines 571-572 in the gi8 list is very uncertain because all sources are damaged at this point.

The duplication of this set of words for axes and hoes in the two lists is probably to be explained in the same way as the ^{giš}usan₃ (whip) section discussed above: the objects have both wooden and copper parts.

In the first millennium version the section under discussion was changed considerably. Notwithstanding these changes the passages in the giš list and the list of copper objects still duplicate each other. In the giš list it runs as follows (ur₅-ra 6 227-239; MSL 6, p.73)⁷⁴:

227	^{giš} aga	agû	kind of axe
228	giš aga-gin2	MIN <i>pāši</i>	kind of axe
229	^{giš} aga-šilig	agašilikkum	kind of axe
230	^{giš} aga-šilig	kalmakru	kind of axe
231	giš gin ₂	pāšu	kind of axe
232	$^{\text{gis}}$ tun ₃ (GIN ₂)	quddu	kind of axe
233	giš gin2-sal	ahzu	small hoe
234	gišdalla2(IGI.KAK)	_S illu	arrow
235	giš šukur(IGI.KAK)	šukurru	spear
236	^{giš} šukur-gal	šukurgallum	large spear
237	gišša ₃ -ri ₂ -du	azmarû	lance
238	^{gıš} i-mit-tum	imittu	lance
239	^{giš} nig ₂ -gid ₂ -da	ariktum	lance

In ur₅-ra 11 we find the same passage with the determinative for copper object (MSL 7, p.143f., 371-383). Compared to the Old Babylonian version the KID items and the items beginning with U₂ are omitted. The word ha-bu₃-da apparently became obsolete and is found nowhere in the first

That igi-mar and igi-gal₂ are orthographic variants of the same word is demonstrated by corresponding passages in Middle Babylonian texts from Nuzi (SMN 2559: 2-3; see Civil 1976, p.94) and Emar (*Emar* VI/4 545, 318b'-318c'; see Civil, 1989, p.13); and from late ur₅-ra 6: 27-28 (*MSL* 5, p.152). The syllabic Sumerian of the Nuzi text has i-ki-mar. The Emar text reads ^{gis}igi-kal. The late version has ^{gis}igi-gal₂. The Akkadian column of the Emar text is lost, but Nuzi and the late version agree (_gaddu). See also *MSL* 6, p.92: 105-106 (same Sumerian items, with alternative translations).

The text in the Sumerian column was partly reconstructed from the ur₅-ra 11 passage in *MSL* 6. It is confirmed by NBC 10915 rev. col. 3 (unilingual; probably Kassite). Variants in NBC 10915: line 229 ^{gi8} aga-si; line 230 missing; line 237 ^{gi8} za-ri₂-tum. For the reading of line 237 see the commentary to line 549 in §5.3.

millennium lexical tradition. The lib-bi-da entry was moved to another place in the list (ur₅-ra 7A, 242ff.). The IGI.KAK items (234-236) are inserted. They are not new in themselves. In the Old Babylonian giš list they are found in lines 547-548, just before the section under discussion. Now that the IGI.KAK items are inserted into this passage of the giš list, they are also inserted into the corresponding passage in the copper list⁷⁵.

Duplicating passages are also found between other sections of Old Babylonian ur₅-ra. A good example is the list of hides, when compared to the list of wild animals. The order of the sections in the two lists differs. The list of hides, for instance, has the aurochs (am) and elephant (am-si) immediately after the domestic animals (MSL 7, p.213f.). In the animal list the domestic animals are followed by snakes, dogs, gazelle and related animals (maš-da3; šeg8; dara3), and only then the aurochs (am) and elephant (am-si). The individual sections, however, are closely related. By way of example I will present the section ur (large canines and felines):

	Hides (MSL 7, 214f.)	Animals ⁷⁶	
38	kuš ur-mah	ur-mah	lion
39	kuš ur-nig	ur-nig	lioness
40	kuš ur-bar-ra	ur-bar-ra	wolf
41	kuš ur-gi ₇	ur-gi ₇	dog
42	kuš ur-ki	ur-ki	badger?
42a	kuš ur-dib	ur-dib ⁷⁷	lion
43	kuš ur-tur	ur-tur	puppy
44	kuš ur-šub5	ur-šub₅	tiger ⁷⁸
45	kuš ur-šub5-kud-da	ur-šub₅-kud-da	?

In first millennium ur₅-ra the idea of duplicating a section in another part of the series was further exploited. In the Old Babylonian Nippur version there is a section gisbugin (wooden bucket) and another section ^{gl}bugin (reed bucket). The giš passage has only three lines:

```
252 gišbugin
253 giš bugin-tur
254 gišbugin-ZU-bar-ra
```

The GI counterpart is much longer. It is badly preserved (MSL 7, pp.189-190) but what is left bears little resemblance to the gis bugin passage. In late ur₅-ra the two sections are almost identical

For the reading \$ub₅(NUMUN₂) see the references in the lexical section of the CAD lemma *mindinu*.

The IGI.KAK items are found in the Middle Babylonian versions of the copper list from Emar and Alalakh (MSL 7, p.158 and Emar VI/4, p.95). ""d Sukur is spelled ""d Su-gur in the Alalakh text (see also sugur in *Emar* VI/4, p.74; and below §3.5.2).

Wild animals are listed in Nippur ur, ra Division 3, between domestic animals (edited in MSL 8/1, pp.79-88) and meat cuts (edited in MSL 9, pp.41-48). No edition of the wild animals exists. A provisional reconstruction was made from SLT 37 (now joined to SLT 46 + N 5491); SLT 52; 56; and 57; and UM 29-16-31 (photograph). *SLT* 45 is probably post-Old Babylonian; it has a variant recension.

This item is omitted in some sources.

3.5.2 Kagal and Diri

In addition to ur₅-ra, there are two other Old Babylonian lexical lists with a giš section: Proto-Kagal and Proto-Diri⁷⁹. Proto-Kagal belongs to the acrographic lists (sequenced by first sign). The section giš is the final section of this list⁸⁰. There is no clear relation between the giš list in ur₅-ra and the section in Proto-Kagal in Old Babylonian Nippur. The Proto-Kagal section seems to be intended for words beginning with the GIŠ sign which do not denote trees or wooden objects⁸¹. There are, however, a few wooden objects listed (^{giš}bal, ^{giš}ba-an). Both words are also found in ur₅-ra, but these are isolated agreements which do not imply duplicate sections or similarities in patterns.

The relation between Diri and ur₅-ra is more complicated⁸². Lines 166-234 of Old Babylonian Nippur Diri all begin with GIŠ. A considerable number of these items denote trees and wooden objects⁸³. Such items are usually found in both lists. As an example I will discuss Proto-Diri 214-217, which has the items beginning with GIŠ.ŠU:

gloss: complex sign: Akkadian equivalent:

su ₂ -hu-ub	GIŠ.ŠU.DI.EŠ	mēdelum
su ₂ -hu-ub	GIŠ.ŠU.GA	naprakum
gi-ra-ah	GIŠ.ŠU.DIM ₂	suppin itinnim
giš-gi-ri	GIŠ.ŠU.LU ₂	nēmettum ša awīlim

Mēdelum and naprakum both mean bolt. The standard Nippur version of the giš list has the item giš ŠU.DI.EŠ-ig (bolt of the door, line 394). A few tablets include the variants giš ŠU.DI (394a) and giš ŠU.GA (394b). The meaning of the next item in the Proto-Diri passage is unclear. The Akkadian rendering suppin itinnim seems to point at some tool for a construction worker. In Ur III texts the word giš ŠU-DIM₂ appears among building materials for the construction of a boat. In that context the item is found in Old Babylonian ur₅-ra (line 261). The item GIŠ.ŠU.LU₂ is attested in the last part of the giš chapter of Nippur ur₅-ra (line 681). It follows

Both lexical compositions are discussed in §2.4.1.3.

Proto-Kagal 509-542 (MSL 13, p.81f.) and Proto-Kagal Bilingual Section E 44-80 (MSL 13, p.87f.).

See the discussion of Proto-Kagal by Civil in MSL 13, pp.63-64...

I was able to study Diri through the HyperText version which M. Civil kindly placed at my disposal. I am happy to be able to express my gratitude for his generosity here.

In many cases our understanding of the writing system interprets the graphemic complexes in the GIŠ section of Proto-Diri as consisting of a determinative and a simple sign (for instance: GIŠ.TUG₂ = ^{giš}taskarin), rather than as one complex sign. Apparently, our understanding of the system is not always identical with theirs. Here we will discuss the history of the relations between ur₅-ra and Diri without going into these questions.

Nēmettum is a kind of staff. In conclusion, most of the Proto-Diri items in this passage have a parallel in ur₅-ra, but the section is not duplicated as such.

There are, however, two passages where a more substantial agreement between Proto-Diri and the Nippur giš list may be detected.

```
Nippur ur<sub>5</sub>-ra:

543 <sup>giš</sup>igi-gal<sub>2</sub>

544 <sup>giš</sup>IGI-TUR-TUR

545 <sup>giš</sup>IGI-TUR-TUR

546 <sup>giš</sup>IGI-TUR-TUR

547 <sup>giš</sup>IGI-NI

548 <sup>giš</sup>IGI-KAK
```

The items have little in common in meaning. ^{giš}IGI-TUR-TUR is read ^{giš}ligima (see presently) and means shoot or bud. ^{giš}IGI-KAK is read ^{giš}dalla₂ (needle or arrow) or ^{giš}šukur (spear). The section is brought together because of the initial sign (IGI) of the items.

The gis igi-gal₂ ($_{s}$ addu = sign or signal⁸⁴) line has no parallel in Proto-Diri. The IGI-TUR-TUR items are paralleled by three lines in Proto-Diri (150-152):

150	li-gi-ma	GIŠ-IGI-TUR-TUR	ligimûm	shoot
151		GIŠ-IGI-TUR-TUR	ziqpum	shoot
152		GIŠ-IGI-TUR-TUR	niplum	shoot

Even though the entries begin with GIŠ they are found in the IGI section of Proto-Diri (the GIŠ is treated as determinative). The gloss li-gi-ma in line 150 is intended for all three lines. Only the Akkadian translation differs. The Akkadian words *ligimû*, *ziqpu*, and *niplu* mean offshoot, sapling, etc. Since the item is repeated three times both in ur₅-ra⁸⁵ and in Proto-Diri we may safely assume that the sections duplicate. The words for sapling are rather misplaced in this part of ur₅-ra. We are in the midst of words for nets, traps, and several kinds of weapons. The Nippur version, in fact, is the only version known so far that puts the ^{giš}IGI.TUR.TUR items in this particular place. In Middle Babylonian and later versions of ur₅-ra the items are located immediately before the date palms in the section trees (*MSL* 5, pp.114-116)⁸⁶. They there join various other words for offshoot which are also found at that place in the Old Babylonian Nippur version (^{giš}isi₂-mu₂, and in some sources ^{giš}bil₂)⁸⁷.

For the translation saddu in this context see SMN 2559 (Civil 1976, p.94; and Civil 1987, p.187).

In CBS 4827 rev. (Ni II-033) the item is found only once. This is probably also the case in N 5589 (Ni I-04). Similarly, in Proto-Diri source P1 (UM 55-21-354 = 3N-T601) omits line 151.

This sequence is also found in the Old Babylonian type II text of unknown origin *BRM* IV, 31 (edited in §5.6.4 as NP II-01).

In the Isin version ^{gis} isi₂-mu₂ is followed by other words for shoot: ^{gis} u₃-luh, and ^{gis} nunuz, but not ^{gis} ligima (Is I-02 Obv. III19-21; edited in §5.6.1). Isin may have had the ^{gis} ligima items in the same place as the Nippur text but the passage is not preserved.

The ur₅-ra items ^{giš}IGI-NI and ^{giš}IGI-KAK (547-548) are paralleled by Proto-Diri 142-145, again in the IGI section.

142 [-b]u [?]	IGI.KAK	hebburum	stalk
143 [da]-la	IGI.KAK	_S illum	arrow
144 šu-ku-ur	IGI.KAK	šukurrum	spear
145	IGI.KAK	halwûm	?

The first item is probably identical to henbur₂(ŠE.KAK) = habburu: shoot or stalk (see CAD habburu for references). I am not able to identify the word $halw\hat{u}m$ in the last entry. The two remaining words are dalla₂ = sillum and sukur = sillum. These words are also found in the bilingual Middle Babylonian ur₅-ra version from Emar (Emar 6/4, p.74, 322'-325')⁸⁸:

322'	dalla ₂ (IGI-KAK)	_S il[lu]
323'	šu-gur	šukurru
324'	šu-gur-gal	šukurgal[lu]

These lines appear in approximately the same context as the corresponding lines in Nippur ur₅-ra. Both passages are found in a section preceding ^{giš}illar = throwing stick⁸⁹. The three lists, Nippur Proto-Diri, Nippur ur₅-ra, and Emar ur₅-ra, differ in the spelling of the Sumerian:

	Proto-Diri	Nippur ur ₅ -ra	Emar ur ₅ -ra
dalla ₂	IGI-KAK	^{giš} IGI-NI	IGI-KAK
šukur	IGI-KAK	^{giš} IGI-KAK	šu-gur

Both ur₅-ra versions graphemically distinguish between dalla₂ and šukur. The Emar text uses a syllabic writing of šukur. In Nippur ur₅-ra a secondary differentiation⁹⁰ is introduced. The sign NI is distinguished from KAK by one small vertical only. The spelling IGI-NI for dalla₂ is, as far as I know, not attested outside this particular context.

The relation between Nippur ur₅-ra and Proto-Diri in this IGI section is admittedly not very strong. A single section in ur₅-ra (544-548) corresponds to two separate passages in Proto-Diri (142-145 and 150-152), and the spelling of ^{giš}dalla₂ differs in the two texts. Still, there is reason

See Civil 1989, p.13. For a Nuzi parallel see Civil 1976, p.94f.; and Civil 1987, p.187f. See also the Alalakh forerunner of ur₅-ra 11, *MSL* 7, p. 158: 14-16 (determinative urud) and *Emar* 6/4 p.95 247'-249' (urud; version does not agree with Alalakh).

In general the Emar text follows the order of the Nippur version rather closely.

There is little reason to suspect an error here since the IGI-NI item is found in a variety of sources, including a teacher's model on the obverse of a type II tablet (UM 55-21-409 = 3N-T911r; edited as Ni II-126).

to believe that the two compositions have influenced each other here. Semantically, the ^{giš}ligima(IGI.TUR.TUR) items do not belong in this section of ur₅-ra. They belong with the trees where they are found in all other ur₅-ra versions. The ^{giš}ligima items are associated with ^{giš}dalla₂ and ^{giš}šukur for reasons of spelling. All are written with a complex sign beginning with IGI. The ur₅-ra passage has apparently collected together those relevant items which appear in the IGI section of Diri.

Another passage where we find agreement between Proto-Diri and Nippur ur₅-ra is more complex than the one discussed above. It is the section ^{giš}BU. In Nippur ur₅-ra the passage runs as follows:

```
429 gišBU

430 gišBU

431 gišBU

432 gišBU

433 gišsahar-BU

434 giš-bu<sup>91</sup>

435 giš-bu-gima-an-sim
```

The passage corresponds to first millennium ur₅-ra 6, lines 81-92 (MSL 6, p.58f.)⁹²:

```
giš mu-ud-laBU
81
                                  muttû
                                                    pole (lexical only)
        giš ma-ad-laB[J
82
                                  makkû
                                                    pole (lexical only)
        giš ma-al-laBU
83
                                  malallu
                                                    a container
        giš ga-zi-in-buB[]
84
                                  gašīšu
                                                    pole
        giš MINBU
85
                                  maššû
                                                    basket
        giš MIN<sub>BI</sub> J
86
                                  ma'dû
                                                    pole (lexical only)
        giš MINBU
87
                                  mand[û]
                                                    pole (lexical only)
        giš MINBU
88
                                                    stick (lexical only)
                                  nappa[_{S}u]
        giš ga-zi-in-buBU
89
                                  gazimānu
                                                    pole (lexical only)
        giš giš-šá-áš-kuRI J
90
                                  giššaškû
                                                    pole (lexical only)
91
                                  alallû
                                                    irrigation device
        giš 「sahar<sup>?</sup>¬-MINBU
92
                                                    agricultural implement (lexical only)
                                  argugu
```

The glosses mudla, madla, and malla probably represent variants of one and the same Sumerian word. The Akkadian translations create an artificial differentiation. Most of the Akkadian equivalents are, in fact, only preserved in the lexical tradition, and their meaning is established primarily by the lexical contexts in which they appear. Sections comparable to ur₅-ra 6, 80-88 may be found in Emar Diri (*Emar* 6/4, p.37), Diri II (first millennium), and Emar ur₅-ra (*Emar*

For the reading and interpretation of this line and the next see the commentary to 434-435 in §5.3.

For a variant recension of lines 81-88 see MSL 6, p.57f. (lines 80a-80h).

6/4, p.68, 91'-94'⁹³). Notwithstanding many minor variants in reading and translation, the tradition agrees in providing four Sumerian readings for ^{giš}BU (mudla, madla, malla, and gazinbu) and in the approximate ranges of meaning ⁹⁴. These four readings are represented by the lines 429-432 in Nippur ur₅-ra.

The line $^{gi\$}$ sahar-BU of the Nippur version is related to the lines ur₅-ra 6, 91-92 cited above. The gloss in 91 represents the reading gidim₃ for BU. The line is known from first millennium Diri (Diri II 337): gi-di-im GIŠ.BU *alallû*. In *MSL* 6 line 92 was read $^{gi\$}$ gi₄ $^{MIN(=gi-di)}$ BU = argugu. The reading of this line is based upon one manuscript only (source A, Sippar). The copy by Zimmern shows that the sign read GI₄ is damaged. A new source for ur₅-ra 6 (NBC 10915, unilingual) has:

```
90 gišBU
91 gišsahar-BU
```

Very probably these lines are related to the lines immediately following the ^{gis}BU section in Emar ur₅-ra (*Emar* 6/4 p.68):

95' gi-TUR *ma-al-lu-u* 96' suhur-gi-TUR *ma-an-ki-gu*

The sign TUR is to be read di₄ to form a syllabic spelling of gidim₃(BU). The SUHUR in line 96' demonstrates the reading sahar for IŠ. *Ma-al-lu-u* and *ma-an-ki-gu* must be garbled spellings of *alallû* and *argugu* respectively⁹⁵. On the basis of these parallels, the reading GI₄ in late ur₅-ra 6 line 92 is very improbable. Zimmern's copy does not allow reading a SAHAR or SUHUR sign with any degree of certainty, though the latter would fit the traces better than the former. The reading sahar, as proposed above, is based upon the new source⁹⁶.

The ^{giš}BU section in Old Babylonian Nippur ur₅-ra still leaves a number of questions unanswered. There can be little doubt, however, that it is paralleled by Proto-Diri 179-184⁹⁷:

The gloss ki-ši-mu (line 94') is a variant of gazinbu. Note that KI is used for standard GA in the Akkadian translation: *ki-ši-šu* (= *gašīšu*).

See also the Emesal vocabulary in Veldhuis 1996a, p.233 rI02': [m]u-ga-šim-bi = giš-BU, with the z/š shift characteristic for Emesal; and Herrero and Glassner 1996, p.79 no.281 (Haft-Tépé; Middle Babylonian). In the latter text gis BU is rendered ši-id-rdu²-ú (2x); ma-la-lu-ú; ga-zi-im-bi; and ga-ši-šu. The ŠU under ga-zi-im-bi may indicate that this is a gloss rather than a translation (all other words in the Akkadian column have the nominative ending -u), to be rendered gazimbû or gazimānu (as in ur_s-ra 6: 89).

Both words have a shift $l'a/ \rightarrow lma/$. The shift $lg/ \rightarrow lk/$, in *mankigu* for *argugu* is often found in the Akkadian of the Emar lexical texts. For instance $ki-\check{s}i-\check{s}u$ for $ga\check{s}i\check{s}u$ ($Emar\ 6/4$, p.68: 94').

A variant version of this passage is found in Herrero and Glassner 1996, p.79, 282 10-11: giš-gi-im *hi-le-pu*; giš-gi-im far¹-[gu-gu]. Line 10 parallels Diri II: 242: giš-ki-im GIŠ.BU *hilēpu*. In line 11 SAHAR is apparently not followed by a BU.

For this passage of Proto-Diri no text with glosses is available.

179	GIŠ.BU	irru	pole
180		matûm	pole
181	GIŠ.BU	maššûm	basket
182	[GIŠ].BU	mahlalum	container
183	[GIŠ.BU]	gašīšum	pole
184	[GIŠ.BU]	[alall]ûm	irrigation device
185ff.	broken		-

The relation between the Nippur giš list and Proto-Diri, as demonstrated above, is relatively weak when compared to the number of mutual entries and passages in the late versions. The beginning of the giš section in first millennium Diri II is a duplicate of the beginning of the list of trees in ur₅-ra 3. Existing relations are expanded and systematized. The Nippur giš list has a number of sections where the same item is repeated several times. Above we discussed the section ^{giš}BU; other examples were treated in §3.3. In the late version of ur₅-ra, in tablet 6, such sections are collected and augmented with comparable ones (^{giš}GIBIL₂, ^{giš}KUD, etc.).

```
ur<sub>5</sub>-ra 6 (MSL 6, pp.54-59)
                                  O.B. Nippur
43-45 gišellag(LAGAB)
                                  426-428
                                  663-665 (<sup>giš</sup>kur)
46-48 gur<sub>4</sub>(LAGAB)
49-51 giškibir(GIBIL<sub>2</sub>)
52-54 <sup>gıš</sup>esi(KAL)
                                  666-668
55-57 <sup>giš</sup>uri(URI)
                                  [669ff?]
58-60 giš sumun(BAD)
                                  592-594
61-63 giš sumun(BAD)
64-66 gišhaš(KUD)
67-69 <sup>giš</sup>haš(KUD
70-72 giškud(KUD)
73-74 giškud(KUD)
75-77 <sup>giš</sup>lah(UD)
78-80 gišgibil(GIBIL)
81-88 giš BU
                                  429-432 (see above)
```

Nearly all these sections, except for the ^{gis}KUD entries, have their counterparts in Diri (see *MSL* 6, p.54). It is impossible to say which text has been adapted to which. On the one hand, the section ^{gis}gibil is found in Proto-Diri, but not in this form in Old Babylonian ur₅-ra. Here first millennium ur₅-ra is apparently adapted to Diri. On the other hand, Proto-Diri has only one entry ^{gis}ellag(LAGAB) whereas Nippur ur₅-ra agrees with the late tradition in having three lines. In the development of Diri and ur₅-ra the shared entries and passages became more numerous. This development is to be interpreted as an exponent of a more general development towards systematization in the lexical corpus. There is no need to theorize about the direction of the influence.

3.5.3 Paradigmatic Sets

A paradigmatic set is a special kind of relation between texts. The best example of a paradigmatic set in Mesopotamian texts is found in the set of colour terms. Landsberger (1967) showed that these terms recur in the same order in a wide variety of lexical lists, literary texts, and omen compendia. The set is found, for instance, in several places in the Nippur list of domestic animals (*MSL* 8/1, pp.83-88):

sheep:	goat:	bull:	calf:	
udu-babbar	maš ₂ -babbar	gud-babbar	amar-babbar	white
udu-gi ₆	maš ₂ -gi ₆	gud-gi ₆	amar-gi ₆	black
udu-su ₄ -a	maš ₂ -su ₄ -a	gud-su ₄ -a	amar-su ₄ -a	red/brown
udu-sig7-sig7		gud-sig7-sig7	amar-sig7-sig7	yellow/green
udu-gun3-a		gud-gun3-a	amar-gun ₃ -a	speckled

For some reason the colour terms are only listed for the male species. The repetition of the same set of colour terms throughout the list of domestic animals is not surprising. This list is very systematic in nature, using almost the same attributes for various animals ⁹⁸. For instance, all female species (ewe, cow, female donkey) are listed with the following set:

u ₃ -tu	having given birth
nu-u ₃ -tu	not having given birth
giš ₃ -zu-zu	having mated
giš ₃ -nu-zu	not having mated

The set of colours is also found in the Nippur list of stones (*MSL* 10, p.57, 80-84). Surprisingly, it is almost absent from the Nippur giš list. There is only one place where a variant recension has the opposition babbar -- gi₆ (white -- black):

006	^{giš} kin ₂	<i>kiškanû</i> ⁹⁹ tree
006a	^{giš} kin ₂ -babbar	white kiškanû tree
006b	giškin ₂ -gi ₆	black kiškanû tree
007	giš gi ₆	black tree

There are in the present reconstruction 42 Nippur manuscripts which preserve line 6. Eight of these have the items 6a and 6b. There is no tablet which demonstrably has only 6a or only 6b. Old Babylonian versions from outside Nippur (Isin and texts from unknown places) always have $^{gi\$}$ kin₂-babbar and $^{gi\$}$ kin₂-gi₆. The Ugarit version uses an almost complete set of colours 100 :

This was already the case in the Archaic Cattle list. See Englund and Nissen 1993, p.22; and Veldhuis 1995, p.438f.

⁹⁹ *Kiškanû* is the Akkadian rendering of ^{giš}kin₂.

Sources: Thureau-Dangin 1931, pl. XLVI-XLVII (no.3 + no.4); Thureau-Dangin 1932, p.235, no.10; Arnaud and Kennedy 1979, pl.VIII/2 (bilingual); and *RSO* V/1, p.281 (photograph of RS 21.005). See also *Emar* 6/4, p. 55, 12-17.

006	giskin ₂	<i>kiškanû</i> tree
007	giškin2-babbar	white kiškanû tree
800	^{giš} kin ₂ -gi ₆	black kiškanû tree
009	giškin2-su4	red kiškanû tree
010	giškin2-gun3-a	speckled <i>kiškanû</i> tree

The only colour term missing from the traditional set in this passage is sig₇-sig₇: green/yellow. In the late version some sources add the ^{giš}kin₂-sig₇-sig₇, apparently to fill the open slot (*MSL* 5, p.92, 6-9b). In this version the set of colours further appears in the section giš-nimbar-u₄-hi-in: date palm carrying fresh/unripe dates. The word u₄-hi-in may refer to unripe dates, or to dates which have not yet been dried.

Ur₅-ra 3, 335-340 (MSL 5, p.121)¹⁰¹:

giš-nimbar-MIN(=u ₄ -hi-in)-babbar	$pe_{\hat{S}}\hat{u}$	date palm carrying white fresh dates
giš-nimbar-MIN-gi ₆	_s aĺmu	date palm carrying black fresh dates
giš-nimbar-MIN-su ₄	sāmu	date palm carrying red fresh dates
giš-nimbar-MIN-gun3-gun3-nu	burrumu	date palm carrying speckled fresh dates
giš-nimbar-MIN-sig ₇ -sig ₇	arqu	date palm carrying green fresh dates
giš-nimbar-MIN-sig7-sig7-ga		
-al-šeg ₆ -ga ₂	aruq bašil	date palm carrying green fresh ripe dates

This passage is interesting because it shows the generative power of the set. There is little hope of finding date palms carrying *uhinnu* dates in all these colours. The *uhinnu* items are not attested in the Old Babylonian Nippur version, but the last item, line 340, probably corresponds to Nippur line 80: giš-nimbar-sig₇-sig₇-al-šeg₆. It is the adjective sig₇-sig₇ (green) that has triggered the whole set of colour terms.

The colour terms show that paradigmatic sets grow considerably in importance after the Old Babylonian period. Another set that is attested throughout late ur_5 -ra is the geographical set Dilmun - Magan - Meluhha: date-palms (ur_5 -ra 3, 284-287), tables (ur_5 -ra 4, 194-195; without Dilmun), ships (ur_5 -ra 4, 281-283), bronze (ur_5 -ra 11, 340-343), and carnelian (ur_5 -ra 16, 127-128; without Magan). The correspondence between the pertinent passages for date palms and bronze is revealing:

ur ₅ -ra 3, 284-287 (MSL 5, p.117)		ur ₅ -ra 11, 340-343 (MSL 7, p.142)	
giš-nimbar-dilmun giš-nimbar-dilmun giš-nimbar-ma ₂ -gan-na	tilmunû asnû makkanû	^{urud} dilmun ^{urud} dilmun ^{urud} ma ₂ -gan-na ^{urud} me-luh-ha	tilmunû asnû makkanû
giš-nimbar-me-luh-ha	meluhhû	me-luh-ha	meluhhû

This passage is also found in Middle Babylonian texts from Ugarit, though without the speckled variant.

Geographical terms in ur₅-ra are discussed by Pettinato 1972.

The Akkadian *asnû* is a well-known word for Dilmun date palm or Dilmun date. The rendering *tilmunû* for giš-nimbar-dilmun is more or less forced by the systematics of ur₅-ra: -dilmun, designating a variety of something, is always translated *tilmunû*. It is worth noting that the Dilmun date palm is the only variety listed here that is actually known outside lexical lists. It is also the only one that is found in the Old Babylonian Nippur version (line 68). The Magan and Meluhha varieties are probably included because the set Dilmun - Magan - Meluhha was triggered by the first item. For copper the situation is the other way around. The translation *asnû* for ^{urud} dilmun is simply wrong. The Akkadian word is not known as a designation for copper. It is copied from the giš-nimbar-dilmun entry. The giš-nimbar section is adapted to the general patterns of Sumerian-Akkadian translation. The copper section is adapted to the giš-nimbar section.

By contrast, in the Old Babylonian Nippur giš list the set Magan - Meluhha is found only a few times:

050	^{giš} mes-ma ₂ -gan-na ^{giš} mes-me-luh-ha	Magan mes-tree
051		Meluhha mes-tree
179	giš gu-za-ma ₂ -gan-na	Magan chair
180	^{giš} gu-za-me-luh-ha	Meluhha chair
181	gu-za-ma ₂ -lah ₄	boatman's chair
182	giš gu-za-ma ₂ -gan-na giš gu-za-me-luh-ha giš gu-za-ma ₂ -lah ₄ giš gu-za-aratta	Aratta chair
193	^{giš} gu-za- ^{giš} mes-ma ₂ -gan.ki ^{giš} gu-za- ^{giš} mes-me-[luh-ha]	chair made of Magan mes-wood
194	giš gu-za-giš mes-me-[luh-ha]	chair made of Meluhha mes-wood

The mes-trees (lines 50-51) recur in the chairs made of mes-wood (193-194). The Magan chair and the Meluhha chair (179-180) are followed by the boatman's chair (181) and the Aratta chair (another geographical name). The boatman item is attracted by the phonemic similarity between me-luh-ha and ma₂-lah₄. Meluhha appears alone (without a corresponding Magan item) in line 40 of the list: ^{giš}ab-ba-me-luh-ha = Meluhha abba-tree.

Magan and Meluhha are also found together in the Nippur list of geographical names (*MSL* 11, p.104, 253-254). Otherwise, geographical names hardly function as a set in the Old Babylonian Nippur version.

3.5.4 Relations between Lexical and Literary Texts

There are few direct relations between literary texts and the lexical corpus in Old Babylonian Nippur. In a well-known passage in 'Enmerkar and the Lord of Aratta' the lord of Aratta gives Enmerkar three impossible tasks, which, of course, Enmerkar manages to fulfil anyway. One of these involves a dog (or hero?, Sumerian: ur), which is neither black, nor white, nor red, nor green, nor speckled (see most recently Vanstiphout 1995, pp.12-14). It has been noted in commentaries on this passage that the same set of dogs is found in the list of wild animals in ur₅-ra (MSL 8/2, p.13f., 89-93). This link, however, is not as clear as it might seem. The ur₅-ra

passage referred to is the first millennium version. The standard Old Babylonian Nippur list of wild animals, which belongs to Nippur ur₅-ra division 3, does not include the coloured dogs. It is possible, however, that they are found in one of the variant recensions of this list¹⁰³. At least one Old Babylonian list of dogs (of unknown provenance) included all the coloured varieties¹⁰⁴. The coloured dogs are not only found in the Enmerkar story. In a first millennium apotropaic ritual for the protection of a house, figurines of dogs in all colours are to be made (Wiggermann 1992, p.15, 191-205). The same set of dogs probably appears in an Old Babylonian Akkadian incantation from Ishchali¹⁰⁵. The coloured dogs may have had an independent existence in folklore. 'Enmerkar and the Lord of Aratta' appears to use many folklore elements (see Vanstiphout 1995). There is no reason, therefore, to assume that the inclusion in ur₅-ra of the coloured dogs is a direct influence from the Enmerkar story or vice versa. The impetus to include the white, black, red, speckled, and green dogs in ur₅-ra may well come from the existence of these dogs at various places in the Stream of Tradition.

More important is a functional relation between literary and lexical texts. Quite a few of the Sumerian literary texts used in the Nippur eduba contain passages that may be regarded as exercises in the vocabulary of one specific semantic field. Miguel Civil has edited a text in which all kinds of plants are enumerated (Civil 1987a) in a list-like formulaic fashion. The hymn 'Išme-Dagan and Enlil's Chariot' (Civil 1968; Klein 1989)¹⁰⁶ is a very important source for the names of parts of the chariot. The praises of Enlil's chariot are sung by mentioning a part and describing it in a poetic metaphor. Several hymns go to considerable lengths in the detailed description of a cultic boat (see Klein 1990, pp.88-96). The composition 'Home of the Fish' mentions all kinds of fish (Civil 1961 and Vanstiphout 1982). Lugal-e has a lengthy section on stones (Van Dijk 1983). By way of example I will treat a short passage from the Nungal hymn¹⁰⁷. In this hymn, a song to 'lady prison', the terminology for doors, locks, and bolts is treated briefly. The text begins with a poetic address to the house (that is, the prison), each line beginning with the invocation 'House, ...' (e₂). Lines 13-24 metaphorically describe various parts of the gate. At line 25 a new passage starts. This is formally indicated by the resumption of the address 'House, ...' (e₂) with which this line begins. Lines 13-24 are all constructed in a similar way: Its (= the prison's) X is a Y that Z. The first half (13-18) describes the (larger) architectural elements of the gate. Lines 19-24 concentrate on the door and its parts.

The reconstruction of the Old Babylonian list of wild animals, or the 'forerunners' of ur₅-ra 14, was promised for *MSL* 8/3, which never appeared. The Nippur version of the section ur has been edited above, §3.5.1. Variant Nippur recensions of the list of wild animals include: *SLT* 45 (probably post-Old Babylonian) and HS 1765 (square prism). *SLT* 51 does not preserve the ur section but is highly idiosyncratic in the section snakes (muš).

YBC 11118 (unpublished) obverse 9-13. Line 11 reads ur-BU-a. The writing su₁₃(BU) for su₄ is also found in a lexical prism from Kisurra (domestic animals) *FAOS* 2, 215 fr. Š376/e iii10' (uz₃), and Seite B iii27' (ab₂); and in the animal sections of the Diyala region cylinders A 7895 and A 7896, kept in the Oriental Institute, Chicago. For these cylinders see above §2.2.3.

Greengus 1979, no.302; see Farber 1981, p.57.

See also Ludwig 1990, pp.10-11 (Išme-Dagan I).

Edition by Sjöberg (1973); additional texts in Sjöberg (1977). Subsequently identified sources were collected by Attinger (1993, p.51). See further Civil (1993) with previous literature. Sjöberg's sources C (UM 29-16-49) and K (CBS 13931 = *SEM* 51) were joined by the present writer.

```
19 gišnu-kuš<sub>2</sub>-u<sub>3</sub>-bi u<sub>11</sub>-ri<sub>2</sub>-in mušen umbin-be<sub>2</sub> nig<sub>2</sub> šu-ti-a
```

Its pivot is an urin-bird, catching prey with its claws.

Its door is a huge mountain that does not let out the wicked,

but the righteous - he is not carried in by force - it does let out 108.

Its bar: raging lions, embracing in their power^{?109}.

Its latch?: a sag-kal snake, who sticks out its tongue and hisses?110.

Its bolt: a womb-snake, entering a hole in fear¹¹¹.

The parts of the door described here may be compared to the section doors and locks in Nippur ur₅-ra. This section may be subdivided as follows:

ur5-ra			Nungal
374-393	^{giš} ig	door	20
394	^{giš} suhub ₄	latch?	23
395-397	^{giš} nu-kuš ₂ -u ₃	pivot	19
398-401	^{giš} sag-kul	bar	22
402-404	gis si-gar	bolt	24
405-406	^{giš} mud	handle	-

The word ^{giš}suhub₄ (latch?) is found in some sources of Nippur ur₅-ra as the last item in the section doors (^{giš}suhub₄-ig), but also appears without ig, as an independent item. The sections in ur₅-ra, therefore, correspond fairly closely to the parts of a door described in Nungal. The only part that is not found in the hymn is the ^{giš}mud (handle). The same or similar set of terms is also found in other literary texts, for instance in the 'Lamentation over Sumer and Ur' (see

²⁰ gišig-bi hur-sag-gal lu₂-erim₂-ra gal₂ nu-un-ta-tak₄-tak₄

²¹ lu₂-zi šu-ba la-ba-ni-in-ku₄-ku₄ gal₂ mu-un-ta-tak₄-tak₄

²² giš sag-kul-bi pirig-huš nam-šul-ba gu₂-da la₂-a

²³ giš suhub4-bi muš-sag-kal eme-e3-de3 e-ne-PAR3 si-il-si-le-de3

^{24 &}lt;sup>giš</sup>si-gar-bi muš-ša₃-tur₃ ki-šur₂-ra ni₂-bi ur₃-ur₃-ru-dam

Gal₂ -- tak₄(-tak₄) = $pet\hat{u}$ 'to open'. Context, and the infix -ta-, suggest the possibility that 'to open' is meant in the specific meaning of 'to allow someone to leave'. See Frymer 1977, p.80. The phrase šu-ba la-ba-ni-in-ku₄-ku₄ is interpreted here as 'he is not brought in through its (= the prison's) power'. In other words the lu₂-zi, if he happens to be in the prison, is there of his own free will, and the door allows him to leave.

^{&#}x27;Embracing' (gu₂-da la₂-a) refers to fighting animals (perhaps nam-šul may refer to a fight). Probably, sag-kul is the wooden beam used to close a door. It needs to be a larger element of the door since it can be mentioned separately in house-selling contracts (see also Potts 1990, p.191, who prefers the translation 'bolt'). The same word is used for a pole of a chariot or wagon (sag-kul-gigir and sag-kul-mar-gid₂-da; Nippur giš list 335 and 361). The embracing in this line may refer to the beam lying in the wooden structure that secures the beam to the door. For 22-24 see Michalowski 1989, p.102.

The meaning of e-ne-PAR₃ si-il(-si-il) is unclear. It is used with a snake as subject. See Heimpel 1968, p.467 (81.4); and p.501 (92.1) for two other examples.

See Civil 1994, p.78.

Michalowski 1989, pp.62-65, 428-433). One may regard such passages in Nungal and other texts as poetic elaborations of the vocabulary treated in the list. Or, alternatively, the list may be considered as an introduction to the language of the literary texts. Again it is not necessary to decide upon a dependence in either direction. The similarities are due to the educational context and purpose shared by lexical and literary texts.

Pursuing the relations between the literary and lexical corpus along this line would require another book at least. For my present purposes it is enough to have indicated the existence of such relations. One possible line of future research that suggests itself would be to study the literary texts from an educational point of view. The scholastic function of these texts is not exhausted by teaching Sumerian vocabulary, but that may well be one of the aims in treating them.

3.6 The Place of ur₅-ra in the Stream of Tradition

Just as it is impossible to describe one phoneme without referring to the phonemic system as a whole at a given stage in the development of a language, so is a composition not only characterized by its internal organization, but also by the place it occupies among other contemporary compositions. Compositions differ in use and in prestige. Use and prestige, moreover, may change over time no less than the inner organization of the composition itself. Further, these two lines of evolution may well be interrelated. To get a clear idea of the character of Nippur ur₅-ra, therefore, it must be contrasted to other contemporaneous compositions and to later versions of itself. In preceding sections we have practised this combination of diachronic and synchronic contrast by comparing features of the Nippur giš list to other Old Babylonian lexical lists, to contemporaneous literary texts, and to later versions of the composition. In this section I will do the same from a more remote point of view. The question will be: what is the place and function of ur₅-ra within the Nippur Stream of Tradition, and how does this place compare to that of first millennium ur₅-ra? This will take up the questions treated in the preceding pages on a higher level of abstraction.

The concept 'Stream of Tradition' was introduced by Oppenheim (1977, p.13) to distinguish the learned tradition of the scribes, handed down from one generation to the next, from daily texts such as letters and administrative records. The Nippur Stream of Tradition may be roughly divided into two parts: the lexical tradition and the literary tradition. These two parts correspond to the two stages of scribal education discussed in §2.4. Most of the compositions in both 'currents' are found in numerous duplicates. These are exercise tablets, written by pupils to master the cuneiform script and the Sumerian language, and to achieve the cultural level deemed necessary for a scribe. In addition to the well-attested compositions, there are a number of texts found in only one or a few copies. For the lexical corpus we have at least two examples: Short Ea and Syllable Alphabet A.

'Short Ea'112 is a list of signs indicating the main paragraphs of Proto-Ea. Each group or family of

The composition has not been described before. The following sources have been identified (all unpublished): CBS 2336; CBS 10468; CBS 15418; and Ni 137. A handcopy of Ni 137 by Hilprecht is

signs in Proto-Ea is represented by one line¹¹³. As in Proto-Ea each line is introduced by a single vertical. The list begins as follows:

01 ¶ A 02 ¶ KU 03 ¶ ME 04 ¶ PAP 05 ¶ BAR 06 ¶ DU₃ 07 ¶ NI etc.

Short Ea is found on a few characteristically square tablets which do not conform to the common tablet typology (see §2.3.3). These square tablets have three columns on both sides, and seem to cover the whole list. They do not agree, however, in the length of the composition. One of the sources is an exercise on the reverse of a regular type II tablet. The column preserved has the beginning of Short Ea in a very bad hand. The obverse has an extract from the giš list (CBS 15418)¹¹⁴.

Syllable Alphabet A (SA A) is a list of syllable combinations, apparently without meaning, used as an elementary exercise outside Nippur. It is a variant version of the Nippur exercise Syllable Alphabet B (see §2.4.1.1). Two pieces of SA A, clearly not belonging to the same tablet, have been found among the Nippur tablets in Philadelphia¹¹⁵. Both are well written. They were not used as elementary exercises. Further, there is a fragment of a Syllable Vocabulary A from Nippur (*SLT* 243). Each syllable combination of SA A is explained by an Akkadian word, as in a bilingual word list¹¹⁶.

Short Ea and SA A fall outside the common Nippur scribal curriculum, and outside the known tablet typology. Their existence as such, however, does not call for a specific explanation. Short Ea is generated by the (Proto)-Ea family. SA A is a text that must have been known in Nippur, if

kept in Philadelphia. It was intended for a PBS volume which was never published,

- One could defend the view that Short Ea is the Nippur version of S^a.
- The obverse is edited as Ni II-220.
- CBS 14150 and UM 29-15-460. According to Falkowitz (1984, p.19) the lentil CBS 13706 has an extract from SA A, and this was reason for him to doubt the Nippurian origin of the piece. The lines extracted are SA A 1-2: me-me; pap-pap. However, SA B 5-8 reads me-me; me-a; me-me-a; pap-pap. Rather than assigning this piece to SA A, it is more reasonable to assume that either the final A of line 7 was forgotten, or that the exercise has lines 5 and 8 of SA B.
- The traditional label 'Syllable Vocabulary A' is somewhat misleading. There are four Old Babylonian examples, all from different places. These four tablets share no other similarity than being explanatory works to SA A. They are independent as to the contents of the explanation. In the post-Old Babylonian period a standard Syllable Vocabulary A came into being. See Nougayrol 1965, and *Emar* 6/4, pp.194-198.

only because it was known everywhere. What these compositions show is that the body of lexical texts available to a Nippur scribe or schoolmaster was larger than the well-known set. It demonstrates how much we depend on pupils' exercises for our knowledge of this corpus. What falls outside the standard set is known to us by mere chance.

Within the Nippur Stream of Tradition we may thus distinguish between two groups of lexical compositions. First there are those which are regularly used for writing exercises. This group includes the well-known texts, such as SA B, ur₅-ra, Proto-Ea, and so on. In the second place there are compositions which were used in a different way and have left no traces (or only very few) for us. Compositions of the first group are found in large numbers on tablets of regular types. Compositions of the second group are found in small numbers, and usually on tablets that fall outside the common tablet typology. Some of these texts may be completely unknown to us, having left no traces in the archaeological record.

The probability of this reconstruction is supported by a few lexical compositions which are to be located somewhere between the two groups. The first is the Nippur God list. This text is found in relatively few exemplars, and is not transmitted as such to later periods. Another example is Proto-ki-ulutin-bi-še₃, a list of business terminology (see §2.4.1.3). This list is also found in relatively small numbers, though more than the God list. The prime difference with the God list is that ki-ulutin-bi-še₃ is transmitted to the first century. Both lists are usually found on regular tablet types. These are examples of lists that were occasionally used for writing exercises but did not belong to the standard set. Alternatively, one might explain the relative paucity of Proto-ki-ulutin-bi-še₃ and Nippur God-list tablets by differences between individual teachers. We have seen in our discussion of TU-TA-TI in §2.4.1.1 that there are reasons to believe that such differences existed.

The situation for literary texts is comparable to that for the lexical lists. Little has been done so far towards counting and classifying duplicates of literary texts. There are a number of literary singletons among the Nippur literary compositions. At least three of these have representations elsewhere. The 'Marriage of Martu,' known from a single Nippur exemplar, is found on a literary catalogue text from Ur¹¹⁷. 'Enki and Ninhursag', unique in Nippur, is represented in Ur and at an unknown place (Attinger 1984). The Sumerian Sargon story¹¹⁸ is known from one Nippur exercise, and one piece from Uruk. A short exercise from Babylon (*VS* 24, 75)¹¹⁹ has three lines of a bilingual version of the same or a related story. The piece is late Old Babylonian or early Middle Babylonian, showing that the composition survived, notwithstanding the scarcity of written sources. These three examples show that the body of literary texts available for school exercises was not identical with a standard curriculum. There was a pool of texts which were rarely used for writing exercises but could be used for that purpose if a teacher wished to do so.

For the 'Marriage of Martu' see most recently Klein 1993, with previous literature. The catalogue is *UET* 5, 86; see Hallo 1966, p.90.

Cooper and Heimpel 1983. The Nippur piece and the Uruk piece do not overlap but there is little doubt that they represent the same story about Sargon and Urzababa. They may, of course, belong to different versions or recensions.

The piece was recently studied by Joan Goodnick-Westenholz (1997, pp.52-55 and p.382). The tablet format agrees with the Kassite exercise type discussed in §2.5.2.1.

The argument may be summarized into two related points. First, the corpus of school texts in Nippur was probably larger than the corpus we have. Second, writing an exercise tablet was no more than one possible performance of a lexical or literary composition. Only those texts which were performed that way are known to us. The second point implies that there must have been other types of use. For literary texts this may have included musical or dramatic performance ¹²⁰. The most likely alternative use for a lexical text is recitation and rote learning. In fact, some of the compositions well-attested in writing bear witness to such another type of performance. The unilingual ur₅-ra exercises were orally provided with Akkadian translations. In many cases Proto-Ea and Proto-Diri exercises omit the glosses that were no doubt an essential part of the text. These texts, therefore, preserve in writing only part of the text as it was used in class.

We may take this point one step further and argue that the main mode of existence of Old Babylonian ur₅-ra was in the mind, not in writing. Our analysis of the giš list in the preceding sections has shown that variation is not confined to accidental omissions or additions. Such variants could have been regarded as errors, if necessary. The exercises include variant applications of a number of basic rules which govern the list. Writing or dictating a lexical exercise implies creating one particular realization of a composition that existed in memory, rather than making a duplicate of a text fixed in writing. David Rubin (1995), in his study of the cognitivepsychological aspects of memory in the oral transmission of epics, ballads, and counting-out rhymes, argues that oral texts are not stored verbatim in the memory. The memory actively employs the rules and expectations that belong to the genre in a way that resembles so-called schemas or scripts (see Rubin 1995, Chapter 2)¹²¹. An example of a schema is 'going to the dentist'. This involves a sequence of events (making an appointment, reading magazines in the waiting room, etc.) which are taken for granted by anyone who is culturally competent. The oral genres investigated by Rubin employ numerous such schematic features. The story line need not be recalled in detail for every single composition. The schemas provide constraints on what happens and how it happens, and thus help the memory in recalling for example the continuation of a song¹²². The kinds of variants that occur in recall are related to these constraints. From his evaluation of schema theories Rubin derives five predictions for verbal recall (Rubin 1995, p.36):

- 1. A piece matching a schema will be recalled more accurately in order and in content.
- 2. Changes will make the recall more like the schema.
- 3. Schema-based inferences will be drawn about omitted material.
- 4. Portions of variants that play the same role in a story will tend to be confused and substituted for each other, even if they bear no obvious resemblance.
- 5. Aspects of pieces that the schema determines are more important will be better recalled.

For the musical performance of the hymn Lipit-Eštar B (Vanstiphout 1978) see Kilmer and Civil 1986 and Kilmer 1992.

Strictly speaking in Rubin's terminology a script is a specific kind of schema, but the two terms will be used as synonyms here.

Rubin discusses a number of other constraints, such as the use of rhythm, music, and rhyme, that are less relevant for lexical texts.

We can see such schemas at work in the colour paradigms discussed in §3.5.3. Prediction 2, in particular, explains the gradual growth of the importance of such features in the tradition. The variants in order that we found in the section giš gigir (chariot; §3.2.1) prove to represent different applications of the same set of rules. In other words: the schema does not decide for one or other variant, and the various sequences are equivalent. Rubin's prediction 3 is very important. It implies that when one or two items are inadvertently forgotten by one teacher, this does not necessarily imply a break in the tradition. As long as such items are somehow related to the rules governing the list, they may be recovered by a pupil without this pupil even being aware of adding something to what he was taught. The theories reviewed by Rubin allow for a 'flexibility that maintains stability' (Rubin 1995, p.37). This is a most appropriate description of what we find empirically in the Old Babylonian lexical tradition. Lexical compositions existed primarily in memory, not only from rote learning but also by acquiring the generic principles behind them. The lexical tablet as written had no extra authority over the text as it was recited or stored in memory. For the great majority of lexical tablets we may say that the main raison d'être of the written text was the act of writing itself. Beyond that the tablet was of little use 123.

This situation is in sharp contrast with the Stream of Tadition as it is found in the post-Old Babylonian period. Two important changes occurred to the lexical texts themselves. In the Old Babylonian period every city had its own tradition. The lexical traditions of neighbouring cities like Nippur and Isin differed only slightly. Much greater differences are found with those of the far south (Ur) or in Northern Babylonia. In the first millennium the lexical compositions were standardized and we find virtually the same texts all over Mesopotamia through several centuries (see §2.5.2.2). In the second place a number of organizational principles that could already be identified for the Nippur lists are used in a more systematic way. Relations between ur₅-ra and Diri existed in Old Babylonian Nippur but are more fully exploited in the late period. Repeating an entry to allow for various Akkadian translations is a technique that is greatly expanded in the first millennium, though it was already used in the earlier versions. Other examples have been discussed in the preceding sections. Both changes are related to an underlying change in uses of literacy. In the Stream of Tradition of the first millennium the written text has become authoritative. It is not enough anymore to learn the Akkadian renderings by heart. They must be included in the written text. The bilingual nature of ur₅-ra is not new in itself. The novelty is that it is represented in the written format, in the layout, with one column for the Sumerian words and another for the Akkadian translations. The written text must cover every possibility, even implausible ones. In the Old Babylonian period the rules generating items and governing their sequence had some independence. They were still productive, generating variants in almost every duplicate. In the late texts the primacy is not with the rules but with the written text. This is why rules had to be applied in a more systematic way, even to produce unlikely results. The new status of written lexical texts is apparent from the existence of library copies and from quotations in commentary texts. Lexical texts have become authoritative texts, reference to which has the status of an argument.

The Stream of Tradition as it is known from first millennium libraries consisted not only and not primarily of literary and lexical texts. The majority of traditional texts contained omen

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Exceptions are prisms and perhaps lentils. These tablet types were not regularly recycled. They may have been produced as tokens of the pupil's competence or progress.

collections. These omen collections are important for understanding the lexical compositions of the first millennium. An omen has the format 'if ... then ...'. The 'if' sentence (protasis) describes an ominous phenomenon (an event in a dream, a miscarriage, or the behaviour of an animal). The 'then' sentence (apodosis) gives the interpretation of the meaning of the event described in the protasis. There are several series of omen collections, each specializing in specific kinds of omina. The series *Šumma Ālu* (over 100 tablets) is a collection of terrestrial omina, such as animal behaviour or the flight of the falcon. Astronomical omina were collected in the series *Enūma Anu Enlil*. Other series collected dream omina, physiognomic omina, diagnostic omina (based on the symptoms of a sick person), and so on. An important series is devoted to the interpretation of the entrails of sacrificial sheep, which were slaughtered for this purpose. The omen collections make up a vast corpus¹²⁴. By far the largest group of texts in Assurbanipal's celebrated library belonged to one or other omen series.

Omen collections are organized by systematic variation of protasis and apodosis. The following example is found in tablet 27 of $\check{S}umma~\bar{A}lu$, devoted to the behaviour of cats:

(CT 39, 48 BM 64295, 11.5-9):

If a white cat is seen in the house of a man, hardship will seize that land. If a black cat is seen in the house of a man, this land will see prosperity. If a red cat is seen in the house of a man, this land will be rich. If a speckled cat is seen in the house of a man, this country will not be all right. If a green cat is seen in the house of a man, this country will have a good reputation.

Underlying this variation is the same set of colours used at various places in the lexical corpus (see §3.5.3). We may assume that the same mechanism is active. One colour term tended to attract the whole set and produced a number of new items (in a lexical text) or omina (in Šumma $\overline{A}lu$). However, there are more fundamental similarities between the two corpora. Mesopotamian culture has no textual modes for abstract reasoning nor, in other terms, any meta-discourse 125. Abstract notions such as morpheme, polyvalency of graphemes, square, and square root are demonstrated by listing. First millennium lexical lists are to be read in two dimensions. The horizontal dimension is represented by the single item that clarifies the reading of one sign or the translation of one Sumerian word. The vertical dimension clarifies the abstract principles through the sequentiality of the items. This same two-dimensional format is found in the omen collections. The horizontal dimension is the connection of one protasis with one apodosis. The vertical dimension is the collection of omina and the system behind the collection. The set of colours, illustrated above, is a relatively simple example of such a vertical reading. Ann Guinan has shown in various articles how the vertical reading of an omen collection may disclose information that remains hidden when reading individual lines. She demonstrates how moral knowledge, or perhaps one should say common sense, is implied in the first few tablets of \underline{N}_{126} . The message is: inside and outside may not match, the proud and mighty may fall, the humble may rise to power. Similarly, in another article she demonstrates how the sexual

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See Cryer 1994 for an overview of the omen corpus.

See Michalowski 1994.

Guinan 1989.

omina in *Šumma Ālu* convey the picture of what it is to be male in ancient Mesopotamia¹²⁷. To be a male in sexual relations means to be in control. Whenever the female takes the initiative, the apodosis is negative. The description of the mechanics and semantics of omen collections, therefore, is not exhausted by the definition of an omen as fortune-telling based on observation. From this perspective one may understand why and how impossible protases are found in omen collections. They may be understood not so much, or not only, in their horizontal aspect (an apodosis connected to a protasis), but in the vertical aspect of patterns which emerge from listing protasis-apodosis connections in their systematic variation. This is not a case of being consistent *ad absurdum*. Rather it is a way of expressing an abstract principle. Omina and lexical entries, therefore, do not exist as single lines or entries. They exist as systematic collections.

The list-like format of omen collections is a formal feature matched by the systematic character of their contents. These two features make omen collections similar to lexical lists. The body of texts in list format and with systematic variation is even larger than the two genres discussed so far. It includes, with the omen collections, all the *šumma* (if ... then...) texts: law codes, medical texts, glass-making texts, and so on ¹²⁸. These text types are not all of one kind, each has particular distinctive characteristics. What unites them is their sharing of a feature of form: the list-like format, and a feature of content: the systematic variation. These two features establish the basic characteristics of a knowledge-conveying text, prototypically represented by the lexical list.

First millennium lexical texts therefore belonged to a large body of scholarly texts which existed primarily in a written form. Omen collections, especially on extispicy, already existed in a comparable format in the Old Babylonian period ¹²⁹. Unique pieces such as the Old Babylonian *Šumma Ālu* text from Ur (Weisberg 1970) show again that much more was in existence than what is preserved. The shift towards written texts may have affected the extispicy collections first of all. Old Babylonian omen collections, however, do not seem to share background and use with contemporary lexical compositions. They are not attested on exercise tablets. The context of Old Babylonian lexical texts differs radically from the context of their first millennium counterparts.

Between the Old Babylonian period and the first millennium the mode of existence of lexical compositions had shifted towards a written form. The written form had become authoritative and subject to interpretation. The compositions are inscribed on large and beautiful library exemplars, where they are stored for consulting.

The first millennium uses of literacy are more similar to what is familiar to us: texts which are authoritative, fixed in wording, and which are consulted for reference. The contrast with the Old Babylonian period and the similarity with our own notion of writing should not be taken in an

Guinan 1979 and 1990.

The ancients had a word for this class of texts: *šummu*. See Michalowski 1984, p.91.

See Goetze: *YOS* 10, (with a list odf previously published texts on p.2f.); Jeyes 1989 (with a list of previously published Old Babylonian extispicy compendia on p.7f.); Köcher and Oppenheim 1958; Pettinato 1966; Weisberg 1970; Rochberg-Halton 1988, p.19; Joannès 1994; Dietrich 1996.

absolute sense. Few texts were fixed in a way comparable to, for instance, the Hebrew bible. Consulting a clay tablet is no doubt more complicated, and thus probably more restricted, than consulting a scroll or codex. The modern dichotomy between knowledge stored in a reference book and knowledge stored in memory is not applicable to first millennium texts, and probably not to any pre-modern text. The contrast between Old Babylonian and first millennium literacy is nonetheless of prime importance. In the Old Babylonian period there was probably no concept of a library. The copying of texts from the Stream of Tradition was not primarily directed at storage, let alone at preservation. Literacy was not, or only marginally, used for cultic purposes (see Michalowski 1993a, pp.159-160). The 'forerunners' of the knowledge-conveying texts of the first millennium are for the greater part school texts, their existence is due to their use in writing exercises.

The giš list as edited in this study is not identical to the one known in Old Babylonian Nippur. No edition can simulate the flexibility and the open character of a text stored in memory. Within the body of school compositions ur₅-ra was specialized in Sumerian vocabulary, as opposed to other lists which specialized in other aspects of writing. The educational character of the list precluded a strict and rigid application of this specialization. We have demonstrated in this chapter how much of the organization of the giš list falls outside the scope of semantics. The Sumerian writing system may be approached from various angles but these approaches cannot be made mutually exclusive. For an educational purpose it is more useful to exploit such overlap than to avoid it. Moreover, the semantic organization of ur₅-ra is not based upon a theoretical analysis of Sumerian vocabulary. Such an analysis might have been useful if ur₅-ra were a real encyclopedia, designed to understand the language or the world. Even though such wider purposes may not be completely absent, the first purpose was the writing system and no such artificial sequentiality is needed for that. At the same time, the result of all this is not a matter of straightforward utility. The list does not merely exercise the words and signs that a pupil will need most in his later career. Ur₅-ra covers much more than that. Education is hardly ever a purely utilitarian business. Education connects the educated with a tradition. The connection with this tradition, no less than the technical requirements of writing, belonged to the necessary qualifications for the bureaucratic jobs of Old Babylonian society 130.

For this point see Michalowski 1987a; Høyrup 1995, pp.3-13; and Chapter 4 of the present study.

Chapter 4 Old Babylonian Lexical Lists and the Science of Writing

4.1 Listenwissenschaft?

From early in the history of Assyriology lexical lists have been associated with Wissenschaft or science. Von Soden in his article 'Leistung und Grenze sumerischer und babylonischer Wissenschaft' (1936) introduced the term Listenwissenschaft. To him this Listenwissenschaft exemplified a typically Sumerian psychological trait: Ordnungswille. In origin, according to von Soden, the lists had to mirror the order of the world as it was established by the gods. The lists, therefore, had a cosmological background. The Sumerians, thus von Soden, were not able to codify their views in a coherent argument. Scholarship therefore never went beyond the level of the lists. As an example of von Soden's approach we may take his discussion of Sumerian zoology (1936, p.459f.)¹: 'Bei den Sumerern bildet die Zoologie einen der vielen Teile der Listenwissenschaft, d.h. sie begnügten sich damit, die Tiere und - an anderen Stellen - die Körperteilnamen in Listenform aufzuführen.' The organization of the animal kingdom in the lists was based on linguistic principles rather than proper zoological ones. Thus animals sharing the same root elements in their names were put together. Sumerian zoology never questioned this organization: 'Bemerkenswert ist nur, daß die sumerische "Wissenschaft" offenbar über diese primitive Ordnung der Tiere nach äußeren Ähnlichkeiten nie hinausgekommen ist; man begnügte sich eben mit der einmal gegebenen Ordnung und hatte kein Bedürfnis, sie durch ein näheres Studium der Tiere nachzuprüfen und durch ein andere, bessere zu ersetzen.'

Von Soden's essay became an influential classic. The term *Listenwissenschaft* entered modern scholarship as a technical term. Notwithstanding Oppenheim's protests², the idea that at least some of the lists contained an early form of natural science has been widely accepted. Waetzoldt's description of Mesopotamian biology (1988, pp.32-33) still basically follows the same line of reasoning found in von Soden's treatment of zoology.

In view of recent research in folk biology, von Soden's description of the Sumerian achievements in this field have lost much of their plausibility. The categorization of animals into a hierarchical system is a universal phenomenon. Moreover, the features that are deemed significant for the distinctions between kinds and families are not culturally determined. The categorization of the natural world is cross-culturally very similar and nowhere differs significantly from the taxonomies used in Western biology. The pre-disposition to distinguish living kinds from other objects and to categorize living kinds in a meaningful way is nowadays regarded by cognitive scientists as an innate feature of the human mind, not unlike the 'language instinct³'. It is unlikely that Sumerian science will prove to be the exception here. There is, therefore, reason to doubt that lists of animals have anything to do with Sumerian biology or folk-biology.

Resumed in an abbreviated form in von Soden 1985, p.152.

See below.

The Language Instinct is the title of an introductory book on language and cognition by Pinker (1994). See pp.421-427 for folk biology. Some relevant discussions of the same topic are found in a volume edited by L.A. Hirschfeld and S.A. Gelman, most importantly Atran 1994 and Boyer 1994.

Another development that necessitates a re-evaluation of von Soden's approach has taken place in the historiography of the sciences. It has been recognized that the concept of science and its division into disciplines cannot be treated as unproblematic⁴. Science and scholarship are themselves historically defined human enterprises, with a specific social function and background. Barton (1994) argues that Roman scholarship included astrology, physiognomy, and medicine on approximately equal footings. An ancient body of knowledge may contain things rather different from our conception of science, and may be put to uses far removed from what seems proper for a scholarly subject in our eyes. The history of science has for a long time been satisfied with tracing the course of modern scientific ideas through the past. Now it is becoming clear that such an approach is very limited. It isolates those ancient ideas which 'fit' from ideas which cannot be related to ours. Moreover, ideas tend to be treated as more or less independent things, separate from the social context in which they functioned. The unreflected application of the modern concept of science necessarily distorts the relations between the data, putting together what was separate, and separating things that belong together⁵. The first part of the giš list which enumerates the trees might be subsumed under botany, but what to make of the much longer list of wooden objects? Lists other than ur₅-ra, sign lists, or acrographic lists will not even come under consideration. At the same time the concept biology puts into focus a text such as šammu šikinšu⁶. Šammu šikinšu (The plant, its appearance is ...) is a first-millennium list which describes medicinal plants by comparison. The descriptions end with a prescription in which the plant in question is used':

The plant which looks like the $urn\hat{u}$ -plant, and whose fruit is like that of the black $a\underline{s}_gu$; this plant is called myrrh. It is good against diarrhoea⁸. You must apply it fresh on the anus. Then (the patient) will get well.

The series is to be classified with medical texts and inventories of pharmacopoeia rather than

It is assumed that KU is to be read *nišhu* here.

Oppenheim (1977, p.248) already pointed out the problems involved in trying to identify something comparable to our idea of natural science in Mesopotamian culture. See also Oppenheim 1978, pp.634-636.

The problems touched upon here are discussed in more detail in Lloyd 1992, where they are applied to the understanding of ancient Greek science. In Assyriology the point was discussed as early as 1926 by Landsberger in his famous 'Eigenbegrifflichkeit' essay. Ironically, this essay was reprinted in 1965 and 1974 together with von Soden's 'Leistung und Grenze' by the Wissenschaftliche Buchgesellschaft. Unfortunately, referring to Wilhelm von Humboldt, Landsberger located the most fundamental elements of this 'Eigenbegrifflichkeit' in the structure of the language. The thesis that the structure of a language predetermines what may be said and what may be thought in a given culture was to be developed later by Sapir and Whorf, but has not stood the test of time (see Pinker 1994, pp.59-67).

No edition of *šammu šikinšu* exists. Published tablets and fragments are *KADP* 33-35; *BAM* IV, 327 and 379; Beckman and Foster 1988, p.7 no.4; *STT* I, 93; *SpBTU* III, 106; and *CTN* IV, 195+196. Related texts are *abnu šikinšu* (stones) and _Şēru šikinšu (snakes). See Oppenheim 1978, p.636 with note 9. For the *šikinšu* texts see Reiner 1995, pp.29-31; and p.120ff. with further literature.

⁷ *KADP* 33, 10-11.

with lexical lists⁹. Treating *šammu šikinšu* together with selected thematic lists under the heading biology can only lead to misunderstanding.

4.2 A Science of Writing

In order to understand Old Babylonian ur₅-ra on its own terms it is necessary to consider the context in which it was used. The thematic lists are school texts and belong to the same category as all other contemporary lexical lists. We cannot understand ur₅-ra separately from the elementary exercises Syllable Alphabet B and TU-TA-TI, or apart from the specialized sign lists Proto-Ea and Proto-Diri, or apart from the other lists. The corpus acquires its unity from its treatment of writing. The lists form a curriculum that is organized to treat various aspects of the writing system one by one (Chapter 2). In addition to semantics, which governs the arrangement of ur₅-ra into divisions and sections, graphemic principles are largely responsible for the organization on a lower level, and for the range of variation that is allowed (Chapter 3). Old Babylonian lexical lists do not treat trees, animals, vessels, birds, or whatever. They treat cuneiform writing.

These same lists cover much of the Sumerian language, and one might be tempted to see in them a treatment of the Sumerian language as well. This is true to some extent. Lists such as TU-TA-TI, Syllable Alphabet B, and Proto-Ea are not directly related to language because they treat the design and phonemic values of signs rather than their meaning. In the other lists both Sumerian and Akkadian play an important role. Necessarily so, because the distance between writing and language in the cuneiform system is much smaller than in alphabetic systems. The point is similar to the comparison between ancient lists and modern science. It can hardly be ignored that some of the thematic lists bear some resemblance to our sciences. One might even argue that learning an endless number of names for trees would sharpen the pupils' eyes to the subtle differences between species and kinds. Sumerian language and empirical reality, however, cannot fully account for the basic unity of the Old Babylonian lexical corpus. The interest in language is a derived one, closely related as it is to the writing system. The relation of this corpus with the reality out there, with the referents of the words listed, is at the most a by-product. The Old Babylonian lexical lists may be considered to be a giant encyclopedia, but an encyclopedia of writing. The intellectual effort involved in compiling and transmitting these lists, in analysing and classifying the single entries was directed at the system of writing. To take the most eloquent examples, the list of polyvalent signs Proto-Ea and the list of compound signs Proto-Diri are products of a theoretical approach to the writing system. They isolate two formative aspects of this system (polyvalency and the combination of signs, respectively) and elaborate these principles in a systematic arrangement. This analysis of the cuneiform system in the lists was very much an analysis in its own right, not guided by an interest in direct applicability. It is appropriate, therefore, to say that the Old Babylonian scribes invented a Science of Writing.

How may we understand the achievement of the Old Babylonian schools in creating this

It is possible that the consistent use of comparison in the description of the plants is a function of their use in a basically homeopathic kind of medicine. Plants which look alike may have been treated as functionally equivalent. This is perhaps reflected in Reiner's (1995, p.30 and p.120) translation of *šikinšu* as 'its nature'.

science? The question acquires further pertinence from the irrelevance of much of the contents of the lists for the actual practice of a scribe. As pointed out in §2.6, for a career as a scribe a pupil of the eduba learned both too much and too little. He learned far too much about Sumerian and he learned hardly anything about writing Akkadian. The lexical lists dealt with a writing system that was used in literary texts. Literary texts were only written in the context of the school. And thus we come full circle. Høyrup has demonstrated that a similar point may be made for mathematical school texts. The Old Babylonian period saw an explosion in mathematical progress. Mathematical problem texts start from daily life situations: a canal to be dug, a ramp to be built, and so on. The problem may often be reduced mathematically to a second-order equation, that is, a quadratic equation with two unknowns¹⁰. Notwithstanding their self-presentation, these problem texts are puzzles with no relevance for daily life whatsoever. Høyrup (1994, p.81f.) discusses the example of the unfinished ramp that is to be used to besiege a city. Among the numbers given are the height already reached and the amount of earth to be used. Among the unknowns is the intended final length of the ramp. This, of course, is nice as a puzzle, but rather difficult to imagine as a real-life problem.

The existence of the Science of Writing might be approached through the theories of literacy advanced by the anthropologist Jack Goody¹¹. Goody is one of the few writers outside Assyriology who have paid attention to the Mesopotamian lexical lists. In an article written in 1963, together with I. Watt, Goody argues that the introduction of alphabetic writing was a decisive factor in the development of abstract and theoretical thinking in classical Greece. In later publications Goody considerably qualified his original thesis and widened his scope to nonalphabetic writing systems. The crucial point of his thesis, however, remained unchanged: the importance of the technology of communication for the development of human cognition. Changes in this technology include the introduction of writing, the transition from non-alphabetic to alphabetic systems, and the introduction of the printing press. Goody denies proposing a mono-causal theory; he claims to be describing a 'trend', not an all-decisive cause. In later studies (Goody 1986 and 1987) he explicitly allows for different uses of writing in different societies. Nevertheless, according to Goody a general pattern may be discerned in all these particularities. The importance of writing for cognitive and intellectual development is due to its decontextualizing effect¹². A message, or a body of knowledge which is put into writing, is abstracted from the immediate context in which it was used or created. Outside this original context it may be re-evaluated. One of the factors contributing to the decontextualizing effects of writing, according to Goody, is layout. Speech has no spatial aspect but writing has. With the introduction of writing existing knowledge may be put into other formats which may have considerable heuristic value. One of the text formats discussed by Goody is the list (Goody 1977, pp.74-111), with due attention to the Mesopotamian lexical texts. The author maintains that in an oral situation there are few occasions which give rise to the recitation of a list. The concept of an oral list, so he argues, is not inconceivable, but a list put into writing has a beginning and an end, and therefore requires definite decisions being taken about what is to be included and what not, and where each specific item is to be placed. The cognitive challenge of a written list is therefore

See Neugebauer 1957, Chapter 2.

Goody's theories have found little response in Assyriology so far. See, however, Larsen 1987 and Michalowski 1994.

In the Assyriological context this point has been discussed by Vanstiphout 1995a, p.2187.

not comparable to that of an oral list. Written lists, according to Goody, trigger potentially important questions of classification.

With respect to the Old Babylonian lexical lists one might argue against Goody that we have no evidence that Mesopotamian lexical lists incited closer observation of the objects listed. As von Soden already remarked, Mesopotamians did not ask the classificatory questions which might have led to a Greek kind of biology. We have plenty of evidence, however, that the lists were modified and reinterpreted. Most lists had no fixed text in the Old Babylonian period. In §3.2 we have seen examples of sections where the problem of the exact arrangement of the items was kept open. The exercises containing the section giš gigir (chariot) show various alternative sequences. Most exercises share approximately the same set of items but there is no one standard sequence. In all cases, however, the solution to the sequencing problem follows one of a few basically graphemic rules. In other words: the lists do trigger important classificatory questions within their own field, the field of the Science of Writing.

However, in the light of the history of the Mesopotamian lexical lists this interpretation of Goody's theory leads to paradoxical results. The flexibility of the lexical lists in the second millennium is the exception. Third millennium and first millennium lists are generally fixed in their wording and in their organization. For first millennium lists one could argue that the process of interpretation went on in the creation of the commentary lists (mur-gud; see §2.5.2.2). In other words, the lists still triggered questions, though apparently not questions of order nor questions of selection. For third millennium lists no such mitigating circumstances can be found. There is no evidence that these lists were functional in creating the questions necessary for an intellectual commitment to the writing system, or to anything else. Moreover, as we have argued in §3.6, the opposition between a written list and an oral list - fundamental to Goody's account - is too rigid to understand the Old Babylonian lexical texts. The tablets with extracts from the list of trees and wooden objects we have are, obviously, written artefacts. But none of these tablets, not even the large type I examples, represent the giš list as such. The variants found in the section chariots are variants of a modern construct: the standardized text. No such standard existed in ancient times, except on a more abstract level. On this abstract level the rules that govern the organization of the text and that limit its variability are defined. It may be said, therefore, that this abstract text includes all possible variants, or rather that the abstract text contains the rules that generate variants. The generative character of the rules governing the sequentiality of the items justifies our taking later developments of the list such as are found in Emar and in first millennium sources as evidence. The development of the list over time is the diachronic counterpart of the synchronic set of variants¹³. The problem of classification, of inclusion or exclusion, is not a problem that arises from re-evaluating a written document but from transforming a virtual text stored in and shaped by memory - into a material text. The intellectual commitment to cuneiform writing as it is found in the schools cannot, therefore, be explained by Goody's theory of the cognitive challenge raised by reducing a list to writing. Quite the contrary, the intellectual commitment precedes the lists and explains them.

4.3 The Social Uses of the Science of Writing

Which is not to deny that the rules themselves changed over time.

Recent critiques of Goody's understanding of writing as a technique with more or less predictable effects on society have been conveniently summarized by Probst (1992). Historical and ethnological research has shown that in different cultures writing is used and perceived differently and has different consequences. Writing is much more than a technique, it is also a social phenomenon affected by socially determined meanings. Probst argues that an understanding of literacy includes understanding the meaning of writing, the symbolic value of the written text, the symbolic value of being able to read and write or not being able to, and the social uses to which this meaning is put. Probst's arguments tally well with recent research into the history of sciences, where the place of the scholar in society and the social uses to which knowledge is put have become the focus of attention¹⁴.

To gain a better understanding of the social meaning of the Science of Writing we may look for general explanatory models regarding the social uses of knowledge and writing and its relation to education. Young (1971) has pointed out that societies invariably recognize a stratification of knowledge. Some kinds of knowledge are seen as intrinsically more worthwhile than others. This stratification is a cultural construct and is subject to historical change. Theology is an example of a field of knowledge that has moved down the hierarchy since the establishment of the medieval universities. The hierarchy of knowledge is an important factor in the arrangement of curricula. According to Young (p.38) higher level knowledge is characterized, among other things, by its unrelatedness. It has no direct application and the higher the status of the knowledge is, the more removed it is from daily practice.

In the Old Babylonian period writing was located high in the hierarchy of knowledge. The scribal system was so complicated that mastery of this system implied a high status. But its complexity was an unnecessary one. As exemplified by Old Assyrian writing - slightly earlier in time than our material - cuneiform writing can make do with about 100 to 200 signs, with almost no polyvalency. The flexibility of the cuneiform system is such that simplifications of this kind may be carried through without modification of the basic principles. Since there is no reason to believe that the scribes in Nippur were less clever than those in Assur or Kaniš, the conclusion is that the Old Babylonian scribes did not want a simpler system. They wanted a more complicated system and so created it. We should not think of this complicated system as a kind of cryptography. There is very little evidence, if any, that there are Old Babylonian texts which deliberately conceal their contents from outsiders. The explanation must be that the Old Babylonian scribes were interested in a complicated writing system because it created a realm of high-status knowledge. Young's account explains why writing, as taught in the eduba, is not conceived of as a practical skill but as a scholarly subject.

In the eduba this complicated writing system is closely connected with a body of Sumerian literary texts, some traditional, some newly created. This literature has no practical value either, though some compositions may have been valued for their ideological utility (see Michalowski 1987a). Among the apparent exceptions is the literary composition known as the 'Farmers Instructions' (Civil 1994), a Sumerian Georgica, which gives instructions for proper farming. The

A summary of recent developments in the historiography of the sciences is found most conveniently in Barton 1994, pp.1-25.

instructions found in the text represent the current farming practice of the time. However, the very fact that it has been composed in literary Sumerian shows that its practical value is not primary. There is nothing in it that could not - with less effort - be transmitted orally. The 'Farmer's Instructions' represent a kind of nostalgia, a reliable indication of the feelings of superiority on the part of the occupants of the eduba over the farmers. This was not their daily world, this was a world they could objectivize and transform into an aesthetic object.

To sum up, the eduba created a field of higher knowledge by first employing a writing system more complicated than necessary, and then creating a curriculum that contained much more than was needed to master this writing system. This must still seem an unwarranted investment in nothing, an irrelevant loss of energy and intellectual power. Cooper (1993) has proposed that Babylonian national identity be understood as a 'textual community'. The term, originally coined to explain some characteristics of medieval sects (Stock 1990), is felicitous, though I would rather restrict this community to the circle of scribes¹⁵. The curriculum of the eduba creates a community of graduates who have read and learned the same body of lists and literary texts, placing themselves in the tradition of Sumerian literature and scholarship. They share a common background and common interests. The teaching of Latin and Greek may have, or have had, a similar effect in modern times. People sharing their knowledge of Greek paradigms, having read the same passages of Homer, share experiences even if they have never met before. And by the same token they can effectively exclude those who do not share this experience. The sense of recognition, of being a group with a group identity (a textual identity, that is), may have been important for the position of the scribes in the administration. The common textual background may have helped the scribes to locate their identity and loyalty with the other scribes and administrators rather than with their own clan or family 16.

The issue may be placed into a wider perspective by referring to the concept 'cultural capital' by Pierre Bourdieu. Cultural capital is used by one social group to distinguish itself from other groups. Bourdieu's analysis of the social function of 'good taste' (one aspect of cultural capital) therefore bears the title *La Distinction* (1979). This distinction is a covert form of power. It regulates the inclusion and exclusion of people in certain circles, not by physical force but by implicit rules of behaviour and taste. The pupils at the eduba learn a skill but also, and more importantly, they acquire cultural capital. They need this capital to legitimize their future place in society. A true scribe is a scribe who fits the social definition of his group. He knows Sumerian, is at home in the lexical texts, and shares his appreciation for the literary corpus with his fellow scribes. As a part of the 'textual community' he possesses, in short, nam-lu₂-ulu₃: 'humanity' 177,

Stock used the concept 'textual community' to describe the identity of a group in some relation to a text. The groups described were 'sects' because they ventured their own interpretations of biblical texts. In Stock's definition a textual community may well contain a majority of analphabetics. Similarly one could argue that the textual community in Babylonia was larger than the group of literati, but there is no way of knowing whether or how the non-literati related themselves to the classical texts. Further, it should be stressed that in Stock's view the content of the defining text (or rather the content as it was assimilated by the group) is a major aspect of the social organization of the group. This is not necessarily the case for the Old Babylonian scribes. The important point here is simply that they shared knowledge of a group of texts.

For this point see Michalowski 1987a, especially p.52.

For the translation of nam-lu₂-ulu₃ as humanity see Van Dijk 1953, p.23f.; Limet 1982.

distinction. Sumerian literary texts contain plenty of evidence for this self-esteem of the scribe, and of the social distance created between the scribe and the common man. One example is a well-known Sumerian riddle¹⁸:

A house which has a foundation (strong) like heaven, a house which is covered with a veil like a tablet box, a house put on a base like a goose, one enters it blind, leaves it seeing.

Solution: the eduba.

The connection between supreme wisdom, writing, and the eduba is found in numerous royal hymns extolling the deeds of kings from the Ur III and the early Old Babylonian periods¹⁹.

It is impossible to do justice here to the complex relations in Bourdieu's analyses between power, capital, taste, social background, art, knowledge, and other elements of private and social life. A few elements may be isolated here. First, one might be inclined to assume that the acquisition of cultural capital at school provides an opportunity for upward social mobility. This may indeed be the case for individuals but Bourdieu's analysis has shown that schooling does not have the effect of levelling out differences between social classes. Even if access to school is not restricted to specific groups in society, social background remains an important determinant in scholastic success. Moreover, and more importantly, social background influences the actual profit that can be taken from scholastic success in the form of career and income (Bourdieu 1979, passim). Bourdieu argues that the parvenu who succeeds in climbing the social ladder still bears the birth marks which qualify him as a parvenu, and which effectively distinguish him from the legitimate inhabitants of the social space into which he has intruded. We know little or nothing about the social background of those who attended the eduba, or about the social value of knowledge. There is reason to assume that all societies (or rather: all social groups) have some set of mechanisms to protect the social status quo. At any rate, access to school is impossible without the economic means to allow oneself to be temporarily unproductive²⁰. The more complicated the curriculum is, the more time it will take and the more effective this economic barrier will be. It is more reasonable, therefore, to interpret the school as a barrier against social mobility.

Second, Bourdieu pays attention to the ambivalent position of the autodidact. The autodidact has acquired a certain amount of cultural capital, but not through the legitimate channels. In the main he is not accepted socially as being on an equal footing with those who acquired similar knowledge and skills through proper schooling. We must ask whether all scribes had in fact gone through the full curriculum of the eduba. We have no direct evidence to answer this question. A few considerations are in order. First, higher education is necessarily for the few. All evidence suggests that the Nippur eduba represented higher education. Second, there are a number of

¹⁸ Civil 1987b, pp.19-20.

These passages have been translated in Sjöberg 1975.

Schooling, according to Bourdieu, is a conversion of economic into cultural capital. On economic, cultural, and social capital and the means of conversion between them see Bourdieu 1983.

scribal tasks which could well be performed by someone with minimal literacy. An extreme example is the writing of animal tags. Such tags were fastened to the neck of an animal. They contained no more than the name of the shepherd and the word for the animal involved:

1 ewe Shepherd: Dadia²¹.

These tags are lumps of clay. They have three holes; apparently they are formed around a knot in a rope. The tag must be inscribed at the moment that it is attached to the rope, probably a rope that is already around the sheep's neck. It is perfectly possible that Dadia was capable of writing

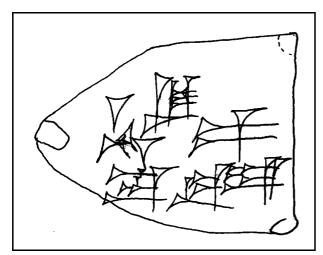


Fig 4.1 Animal Tag. Collection University of Groningen; 2x3cm.

a tag like this himself. It is improbable that he went to a scribal workshop with his ewe to let someone else write it for him.

For the Ur III period the existence of different levels of scribal competence has been demonstrated (Steinkeller 1989, pp.6-7). Scribes of lower competence were not in charge of the administration but hired themselves out to private individuals²². The relation between differences in competence and different occupations is likely to have a counterpart in a different trajectory of learning, and a different volume of cultural capital. It is plausible that a similar differentiation existed in the Old Babylonian period. The very fact that at the Nippur eduba the pupils were taught such an

excessive amount of Sumerian may suggest that this was done to create a clear differentiation between properly educated scribes, and scribes who had merely acquired the necessary skills. The Nippur school is described in a school essay as the eduba par excellence (Van Dijk 1989, p.450). This characterization possibly reflects a historical reality in which various local schools were distinguished by prestige and by the cultural capital that could be acquired there. Perhaps it is no accident that Nippur has yielded by far the richest harvest of literary school tablets. Aristocracy, according to Bourdieu, is characterized by a taste for the unnecessary. Put another way, aristocracy transforms the necessities of life such as eating into an art. The eduba

The tag belongs to the collection of the Institute of Near Eastern Languages and Cultures of the University of Groningen. The shepherd Dadia is known from other tags (e.g. *BRM* 3, 60). Published animal tags are listed in Waetzoldt 1986a. In themselves these objects are rather uninteresting. It is therefore probable that many more examples remain unpublished.

Ur III incantations may be classified with the products of lower-level scribes (see Veldhuis 1993). One of the Old Babylonian incantations from Nippur similarly demonstrates a low level of competence in Sumerian (UM 29-15-5). According to its editor the scribe 'ne semble pas être passé par les meilleurs écoles de Nippur' (Cavigneaux 1995, p.94).

transformed the necessary skills of literacy into the art of being versed in literature and in the Science of Writing. What a scribal pupil learned has been characterized by Høyrup (1994, p.66) as virtuosity in writing, implying both a thorough knowledge and distance from necessity. Even more implicit and hidden in the curriculum are the dispositions and values the scribal pupil acquired, in short the 'habitus' necessary for admission to the dominant class.

The treatment of writing as a science was to be of profound influence on the history of Mesopotamian literacy. In the Old Babylonian period it is restricted to the school. In the first millennium more and more of the intellectual specialists entrusted their knowledge to writing. The importance of written texts for all kinds of specialized knowledge increased, and the corpus of traditional texts was set free from the narrow context of scribal education. The Science of Writing similarly broadened its scope. It is not only used to understand writing itself, but also applied to traditional texts in order to unveil a hidden message. The analysis of the names of Marduk in Enuma Eliš (Bottéro 1977), the treatment of temple names in Tintir (George 1992), and the complex exegetical tools in the late commentary texts (Livingstone 1986) are a few examples of this inheritance. Not only the uses of literacy but also the social place of the scribes had undergone profound changes. One of the factors in the latter change was the fact that cuneiform had to compete with alphabetic Aramaic writing. In short, the transmission of the Science of Writing to the first millennium was accompanied by important shifts in context and application and it therefore acquired an almost entirely new identity.

Chapter 5 Edition of the Giš Lists

This chapter contains the edition of the Old Babylonian giš lists. Included in the edition are tablets from Nippur, Isin, Ur, Uruk, and unknown places. Excluded are tablets from Northern Babylonian centres such as Kiš, Babylon, Tell Harmal, Sippar, and Tell Haddad. What is known of the Northern Babylonian lexical texts indicates a tradition that is very different from the tradition in Nippur and the south. Since many northern texts are either unavailable (Tell Haddad, Tell ed-D_r, most of the school tablets from Kiš) or very poorly documented (Tell Harmal, Sippar) it is impossible as yet to study this tradition in a meaningful way. The northern tradition is of immense importance for the transmission of the Old Babylonian lexical tradition to the Kassite period. The meeting of northern and southern traditions after the abandonment of the south is a promising area of research. It is to be hoped, therefore, that northern texts will soon be available in larger numbers and more reliable editions than has been the case so far.

The Nippur giš list is first edited as a reconstructed eclectic text (§5.2). In this edition the main words are provided with translations. The composite text is meant for easy orientation. It is followed by a brief philological commentary (§5.3). In the second place the Nippur tablets are edited in a score (§5.4), a format that has gained popularity over the last few decades. In the score for each line of the composite text the evidence from the extant tablets is reproduced. This is particularly important for those entries which have many variants, or which are poorly preserved. Moreover, the score allows the reader to reconstruct variants in the line order in individual tablets. A few Nippur tablets which, for one reason or another, could not be adequately represented in the score are edited separately (§5.5). The texts from Ur, Isin, Uruk, and unknown places are added in §5.6. The chapter is closed by a catalogue of the tablets used.

To make full use of the available variants a more flexible tool than a printed edition is needed. For this reason the Nippur standard text, the tablet descriptions, and the line-by-line transcriptions have been included in three separate databases. These databases, rather than the printed score, have been the basis of the present study and they are available for the reader on a floppy disk. The next two sections (§5.1.1 and 5.1.2) contain an explanation of the methodological background of these databases and a short technical description.

5.1 Editing the Nippur Giš List: Methodological Considerations

The present edition of the Nippur giš list includes over 350 tablets. Some of these contain long sequences, others contribute no more than one or two lines. The amount of text on an individual tablet depends on the tablet type and on its state of preservation. Most tablet types, and the most common tablet types, contain extracts. Even if they are completely preserved (which they rarely are) they do not contain more than a part of the composition they represent. Prisms and type I tablets were inscribed with an entire lexical composition, or at least a large part of it. Of these no completely preserved example has been found, and the discovery of such a complete exemplar is unlikely. There is, therefore, no one tablet or one set of tablets that contains the whole giš list, or even approximately so. The concept of a 'best manuscript' is meaningless here. The composition has to be pieced together from all the giš tablets available. Moreover, the tablets contain many variants. These variants not only include minor variations in spelling but also variations in order,

omissions, and additions. Whether an item is 'omitted' in one tablet, or rather 'added' in another, is in many cases an arbitrary decision. Similarly, the adoption of one order as the 'standard' and all others as 'variant' is often a matter of taste rather than anything else. The standard text is a modern construct and does not coincide with any text that existed in antiquity.

5.1.1 The Concept Standard Text

From the extant Nippur giš tablets it is clear that there was no one rigidly standardized composition. Moreover, the cases where we may distinguish between variant traditions occurring in more than one tablet are very rare. In most cases a variant in one line is restricted to one tablet, or to a group of tablets which show no cohesion otherwise. This does not mean that the Nippur giš tablets show no mutual similarities at all. Quite the contrary, they may be contrasted as a group with, for instance, corresponding texts from Isin or Ur. They do represent one line of the Mesopotamian lexical tradition. The Nippur giš list exists, though it does not exist as a composition with one authoritative wording.

A similar problem exists for many medieval compositions. Zumthor (1972, pp.65-75) introduced the concept *mouvance* to describe and explain the variation between the extant manuscripts of the *Chanson de Roland*. If at the time of the production of the manuscript the composition is in motion, the idea of the existence of one primal and authoritative text becomes meaningless. The *Chanson de Roland* is in essence one single composition, but it has materialized differently in different manuscripts. The composition does not coincide with one existing manuscript, nor with the collection of manuscripts, nor with a lost manuscript postulated from an analysis of the variants. The composition which we call *Chanson de Roland* is an abstraction behind or above the manuscripts. The relation manuscript-composition is much like the relation between a genre and its examples. The concept *mouvance* is intended to describe the fluid existence of a composition that has an identity but is not fixed in wording¹.

For our purposes it is necessary to distinguish clearly between the giš text as an ancient composition and the modern composite text. The modern text is first of all a tool that is helpful in reading individual tablets and reconstructing broken lines. In the second place it is one possible, sometimes arbitrary, modern representation of an ancient composition, with which it should not be confused. The ancient composition is characterized by *mouvance*, the standard text is a printed edition with fixed line numbers. In content the modern standard text and the ancient composition have much in common, but the nature of the ancient composition and its mode of existence are radically different from anything a printed edition can be.

The ancient composition was not located in one exemplar to be used as a reference copy. It was rather found in the memories of those who learned it by heart: first the teacher and then his pupils. The teacher produced the model texts that the pupils had to copy from his memory. In their turn the pupils produced passages from their memories once they had learned them by heart. There was no one-to-one relation, however, between the text in the memory and the text as

Zumthor's point has been elaborated by a number of scholars in Romance linguistics and literary history. See the summary in Fleischman 1990, particularly pp.25-27.

written. First of all, there are many reasons for assuming that the memory text was bilingual, though the Akkadian renderings were never included in writing. Moreover, both the analysis of the variants and modern research into the operation of the memory² corroborate in showing that the memory text was something more abstract, more powerful and richer, than a mere list of words. In remembering a text or a list of words there is an important role for the rules by which this text or list is organized. The materialization of the composition when it is written down from memory is, therefore, not so much a process of copying something already present in memory, but rather the production of a text following the rules by which it is governed. These rules belong to what defines a genre³. Different applications of the same rules result in different specimens of one type. The technical details of cognitive psychology and genre theory may be put to one side here. What matters is that the standard text as it is edited here is as far as we can go, but still many steps removed from the composition as it existed and functioned in the Nippur eduba.

In conclusion, the composition that we want to study is neither identical with the extant tablets, nor with the reconstructed text. Yet this is no reason for despair. The almost endless number of variants available in the over 350 Nippur tablets gives an invaluable and unique insight into how these texts actually functioned. It is the interplay between the composite text and the individual tablet that gives a much richer picture of the composition and its *mouvance* than any securely fixed text could do. In order to utilize these resources it is necessary to have an edition in which it is easy to switch between the representation of the text on a single tablet and a standard text, representing the giš list as a whole. In printed form it is virtually impossible to adopt two alternative perspectives on the same data. In digital form, however, there is nothing more natural than organizing data in various ways. For this reason the giš lists were originally edited in a set of databases.

5.1.2 The Digital Edition

The edition consists of three separate databases: Tablets, Transliterations, and Reconstructed text. The databases were originally devised in a program called Nisaba, which was written in Clipper 5.1 and runs under DOS. The databases may be imported and browsed in any dBase-related program.

The following fields have been defined:

Description	Field name	Field length
TABLETS: Siglum Period	TEXTID PERIOD	10 10

Much of this research has been summarized in Rubin 1995.

See Rubin 1995, particularly p.304.

Provenance	PROVENANCE	15
Museum Number	MUS_NO	50
Publication	PUBLIC	100
Edition	EDITION	100

Remarks REMARKS (Memo field)

TRANSLITERATION:

Standard Line no.	L_NO	10
Siglum	TEXTID	10
Column/line no.	TEXT_LNO	10
Text	TEXT	254

Remarks REMARKS (Memo field)

RECONSTRUCTED TEXT:

Standard Line No. L_NO 10 Standard Text STANDARD 254

Remarks REMARKS (Memo field)

The program Nisaba was designed specifically for the purposes of the present project. Nisaba is able to show two databases on screen simultaneously. A line from the Standard text may be viewed together with all its occurrences in the tablets. Or one may examine the description of a tablet together with the transliteration of its contents. Moreover, and most importantly, Nisaba can easily switch between a 'tablet-oriented' and a 'standard text-oriented' approach to the transliterations simply by alternating indexes. Unfortunately Nisaba is an experimental program, not suitable for distribution.

5.2 Standard Nippur Text

In the following edition most lines have two numbers. The first number is the line number in the present text. The second number is the corresponding line in the first millennium version of ur₅-ra. Thus the number 013 3032 means: line 013 of the Nippur text, which corresponds to line 32 of ur₅-ra tablet 3. The relevant tablets of first millennium ur₅-ra are edited in *MSL* 5 and 6.

For the orientation of the reader the main words have been translated. Thus the word ^{gis}apin is rendered 'plough', but the various kinds of ploughs and their parts are not translated. In the commentary (§5.3) and in Chapter 3 a number of words are discussed and references to relevant literature are given.

001 3001	giš taskarin	boxwood
002 3002	giš esi	ebony
003 3003	giš nu ₁₁	
004 3004	giš ha-lu-ub ₂	oak
005 3005	giš ša ₃ -kal	
006 3006	giš kin ₂	
006a 3007	giš kin ₂ -babbar	
006b 3008	giš kin ₂ -gi ₆	
007 3011	giš gi ₆	
008 3012	giš geštin	vine
009 3013	giš geštin-kir ₄	
010 3015	giš geštin-ka ₅ -a	
011 3017	giš geštin-gam-ma	
012 3029	giš peš ₃	fig
013 3032	giš hašhur	apple tree
014 3033	giš hašhur-kur-ra	
015 3050	giš še-dug ₃	
016 3049	giš še-nu	
017 3052	giš še-še	
018 3067	giš šinig	tamarisk
019 3072	giš šinig-dili	
020 3068	giš šinig-kur	
021 3053	giš šar _x (NE)-ša ₄ -bid ₃	
022 3054	giš MES-šar _x (NE)-ša ₄ -bid ₃	
023 3061	giš lam	pistachio
024 3062	giš LAM	
025 3074	giš u ₃ -suh ₅	fir
025a 3075	giš u ₃ -suh ₅ -tur	
025b 3079	giš u ₃ -suh ₅ -pa-kud	
025c	giš u ₃ -suh ₅ -a-de ₂ -a	
026 3083	giš še-u ₃ -suh ₅	
027 3088	giš pa-u ₃ -suh ₅	
027a	giš an-u ₃ -suh ₅	
028 3091	giš bir-GAM-la-e	
029 3092	giš šim-gig	

000 010	1V. V	
030 3126	giš šennur	
030a 3128	giš šennur-kur-ra	
031 3136	giš lam-gal	
032 3137	giš lam-tur	
033 3133	giš al-la-nu-um	
034 3138	giš ildag ₂	poplar
035 3140	giš ildag ₂ -kur	
036 3141	giš ildag ₂ -bur-ra	
037 3146	giš ildag ₂ -šita ₃ -na	
038 3152	giš kur-ra	
039 3154	giš ab-ba	
040 3155	giš ab-ba-me-luh-ha	
041 3156	giš gi ₆ -par ₄	
042 3158	giš ma-nu	willow
042 3138 043 3163		WIIIOW
	giš ma-nu-šu-AG	
044 3164	giš ma-nu-gibil ₂ -AG	
044a 3171	giš ma-nu-kal-la	
045 3186	giš nu-ur ₂ -ma	pomegranate tree
046 3195	giš KID-da	
047 3196	giš KID-da	
048 3199	giš KID-da-zil-la ₂	
049 3200	giš mes	
050 3204	giš mes-ma ₂ -gan-na	
051 3205	giš mes-me-luh-ha	
051a	giš mes-alan	
051b 3211	giš mes-tu	
051c 3206	giš mes-ki-gar-ra	
051d 3216	giš mes-ha-lu-ub ₂ -har-ra-an-na	
051e 3214	giš mes-gi ₆	
052 3217	giš erin	cedar
052a 3222	giš BAD-erin	
052b	giš pa-erin	
052c	giš LU-DUG ₃ -A	
052d	giš A.TU.GAB.SIG.GAR	
053 3225	giš šu-ur ₂ -min ₃	CVDress
053 3225	giš za-ba-lum	cypress
	<u>e</u>	
055 3227	giš e-la-ma-kum	
056 3229	giš gi-ri ₂ -lum	
057 3231	giš gi-rim	
058 3237	giš zi-ir-dum	
059 3254	giš ur-nu-um	
060 3260	giš ti-a-ru-um	
061 3250	giš ri ₂ -a-num ₂	
062 3255	giš ur-zi-num ₂	
063	giš mi-ri ₂ -iš-gar-ra	
064 3265	giš isi ₂ -mu ₂	shoot
064a 3266	giš gibil	shoot

065 3280	giš nimbar	date palm
066 3289	giš nimbar-tur	date paint
067 3282	giš nimbar-kur-ra	
068 3284	giš nimbar-dilmun-na	
069 3315	giš nimbar-al-dar-ra	
070 3309	giš nimbar-al-kud-da	
071 3310	giš nimbar-al-šab	
072	giš nimbar-gu ₂ -na	
073 3344	giš nimbar-LU ₂ -IM	
074 3294	giš nimbar-libiš-bu-ra	
075 3312	giš nimbar-al-kum-ma ₃	
075a	giš nimbar-kum ₂ -ma	
076	giš nimbar-izi-gu ₇ -a	
077 3304	giš nimbar-uh-gu ₇ -a	
077a 3306	giš nimbar gig-[
078 3301	giš nimbar-al-ug5-ga	
078a 3313	giš nimbar-al-gaz-za	
079 3303	giš nimbar-al-uš ₂ -a	
080	giš nimbar-sig7-sig7-al-šeg6	
081 3351	giš ša ₃ -nimbar	
082 3355	giš suhur-nimbar	
083 3293	giš ama-nimbar	
084	giš KU-giš.kiri ₆ -nimbar	
085	giš KU-giš.kiri ₆ -NE-nimbar	
086 3356	giš pa-nimbar	
087 3357	giš pa-kud-nimbar	
088 3359	giš dalla ₂ -nimbar	
089 3398	giš mud-nimbar	
090 3360	giš ze ₂ -na-nimbar	
091 3369	giš zu ₂ -nimbar	
092	giš zu ₂ -gan-na-nimbar	
093 3373	giš zu ₂ -gu-la-nimbar	
094 3380	giš TUG ₂ -nimbar	
095	giš pi-el-la ₂ -nimbar	
096	giš u ₃ -luh-nimbar	
097 3389	giš ga ₂ -li-nimbar	
098 3402	giš an-na-nimbar	
099	giš ki-ta-nimbar	
099a	giš ša ₃ -ta-zu ₂ -lum-ri-ri-ga-nimbar	
100 3407	giš nig ₂ -ki-luh-ha-nimbar	
101	giš nig ₂ -ga ₂ -nimbar	
102 3384	giš peš-nimbar	
103	giš peš-murgu-nimbar	
104	giš peš-banda ₃ -zi-nimbar	E1
105 3411	giš asal	Euphrates poplar
106 3412	giš asal ₂ -kur	
107	giš asal ₂ -dug ₃	

```
108 3416
                 giš NE-asal<sub>2</sub>
109 3421
                 giš numun-asal<sub>2</sub>
110 3422
                 giš il-ur<sub>2</sub>
111
                 giš ad<sub>2</sub>
112 3439
                 giš kiši<sub>16</sub>
                                                              acacia
113 3441
                 giš kiši<sub>16</sub>-har
114 3441a
                 giš kiši<sub>16</sub>-har-kur
115 3447
                 giš sa-ma-na<sub>2</sub>
116 3448
                 giš sa-ma-zum
117 3450
                 giš peš<sub>7</sub>-kal
                 giš ŠU.KAL
118
119
                 giš šu-dib-ba
                 giš ŠU.KAL
120
                 giš šušin (MUŠ<sub>3</sub>-ERIN)
121 3466
                                                              licorice
122 3238
                 giš ši-iq-dum
123 3455
                 giš zar-si
124
                 giš mu-TUM-da
124a
                 giš zi<sub>2</sub>-ir-dum
125 3469
                 giš gi-zu<sub>2</sub>-lum-ma
126 3470
                 giš BU-zu<sub>2</sub>-lum-ma
127 3480
                 giš dili-bu-um
128 3482
                 giš an-ta
129 3483
                 giš huš
130 3486
                 giš maš
131 3488
                 giš maš-gurum
132 3489
                 giš guru5-uš
                 giš sag-EZEN
133
134
                 giš si-sag-EZEN
135 3493
                 giš i-ri<sub>9</sub>-na
                                                              root
136 3494
                 giš a-ri9-na
137 3498
                 giš gilim-an-na
138
                 giš gilim-ezen
139 3505
                 giš u<sub>3</sub>-luh
                                                              branch
140 3515
                                                              branch
                 giš pa
141 3512
                 giš pa-kud
141a
                 giš SUG
142 4001
                 giš as<sub>4</sub>-lum
                                                              measuring rod
142a
                 giš [N]I?-gu<sub>2</sub>
143
                 giš SUG-da
144 4006
                 giš dib-dib
                                                              water clock
145
                 giš u<sub>5</sub>
145a
                 giš GAN-[
145b
                 giš kal-la-bi
145c
                 giš [ ]-bi
145d
                 giš gu<sub>7</sub>
                 giš <sup>d</sup>ha-ia<sub>3</sub>
146
                 giš dub-dim<sub>2</sub>
                                                              tablet mould
147 4021
```

```
148 4022
                  giš šumun-gi<sub>4</sub>
149 4024
                  giš ti-bal
150 4016
                  giš ŠID-ma
                                                               accounting board
151 4029
                  giš tun<sub>3</sub>
152 4036
                  giš ba
                                                               a tool (knife?)
152a 4038
                  giš ba-KA
153
                  giš ba-amar
154
                 giš ba-še
155 4041
                  giš ba-šab
155a
                 giš ba-kal
155b
                  giš ba-PA
156 4053
                 giš hub<sub>2</sub>
157 4054
                  giš na-ru<sub>2</sub>-a
                                                               stele
158 4055
                 giš ešgiri-šu-du<sub>7</sub>
                                                               neckstock
159
                  giš nig<sub>2</sub>-na-UD
                                                               chair or throne
160 4069
                 giš gu-za
161 4070
                  giš gu-za-sig<sub>5</sub>
162 4071
                 giš gu-za-gid<sub>2</sub>-da
163 4072
                  giš gu-za-sir<sub>3</sub>-da
163a 4073
                  giš gu-za-munus-e-ne
164
                  giš gu-za-ma<sub>2</sub>-lah<sub>5</sub>
                 giš gu-za-<sup>giš</sup>kin-ti
165 4097
166 4083
                  giš gu-za-nig<sub>2</sub>-ba
                  giš gu-za-nig<sub>2</sub>-šu
167 4084
                 giš gu-za-<sup>giš</sup>gigir
168 4085
169 4095
                  giš gu-za-anše
170 4079
                  giš gu-za-kaskal
171
                  giš gu-za-garza<sub>2</sub>
172
                  giš gu-za-nam-lugal-la
173
                  giš gu-za-nam-en-na
174
                  giš gu-za-nam-nin-a
175 4094
                  giš gu-za-ša<sub>3</sub>-hul<sub>2</sub>-la-a
176 4116
                  giš gu-za-šu-SAR-e-du<sub>3</sub>-a
177 4118
                  giš gu-za-KA-[ ]-e-du<sub>3</sub>-a
178 4096
                  giš gu-za-ša[h-šum]-ma
179 4098
                 giš gu-za-ma<sub>2</sub>-gan-na
180 4099
                  giš gu-za-me-luh-ha
181 4100
                 giš gu-za-ma<sub>2</sub>-lah<sub>4</sub>
182 4076
                  giš gu-za-aratta
183 4081
                 giš gu-za-nita
184 4082
                  giš gu-za-munus
                 giš gu-za-ukkin-na
185
186
                  giš gu-za-lukur
186a 4093
                 giš gu-za-gi[dim?]
187 4078
                  giš gu-za-ki-uš<sub>2</sub>
                  giš gu-za-silim-ma
188
                 giš gu-za-<sup>giš</sup>taskarin
189 4110
```

```
giš gu-za-<sup>giš</sup>esi
190 4111
                     giš gu-za-<sup>giš</sup>ša<sub>3</sub>-kal
191 4113
                     giš gu-za-<sup>giš</sup>mes
192 4113a
                     giš gu-za- mes-ma<sub>2</sub>-gan.ki
193 4114
                     giš gu-za-<sup>giš</sup>mes-me-[luh-ha]
194
195 4103
                     giš gu-za-gar3-ba
196 4105
                     giš gu-za-gar<sub>3</sub>-ba-ku<sub>3</sub>-babbar-[
197 4107
                     giš gu-za-gar<sub>3</sub>-ba-zabar
                     giš gu-za-gar<sub>3</sub>-ba-<sup>giš</sup>kin<sub>2</sub>-[
198 4108
199 4123
                     giš BAD-[gu-za]
200 4126
                     [giš sag-gu-za]
201 4124
                     [giš di<sub>5</sub>-gu-za]
202 4125
                     [giš i-zi-gu-za]
203 4121
                     [giš umbin-gu-za]
204 4129
                     giš šu<sub>2</sub>-a
                                                                            stool
205 4130
                     giš šu<sub>2</sub>-a-du<sub>10</sub>-sa
206
                     giš šu<sub>2</sub>-a-nagar
207 4134
                     giš šu<sub>2</sub>-a-bur-gul
208 4135
                     giš šu<sub>2</sub>-a-tibira
209 4133
                     giš šu<sub>2</sub>-a-kaskal-la
210 4140
                     giš šu<sub>2</sub>-a-nig<sub>2</sub>-gu-la
211 4143
                     giš gir<sub>3</sub>-gub
                                                                            footstool
                     giš gir<sub>3</sub>-gub-<sup>d</sup>lama
212 4144
213 4145
                     giš gir<sub>3</sub>-gub-zu<sub>2</sub>-am-si
214 4146
                                                                            bed
                     giš nu<sub>2</sub>
                     giš nu<sub>2</sub>-AŠ-nu<sub>2</sub>
215 4147
216 4148
                     giš nu<sub>2</sub>-ki-nu<sub>2</sub>
                     giš nu_2-g[u_2]-z[i]-g[a]
217 4149
220 4157
                     giš nu<sub>2</sub>-ša<sub>3</sub>-tuku
221 4158
                     giš nu<sub>2</sub>-ša<sub>3</sub>-tuku-sik<sub>2</sub>-ga-rig<sub>2</sub>-ak
222
                     giš nu<sub>2</sub>-ur<sub>4</sub>-ma
223 4165
                     giš zag-an-dul<sub>3</sub>-nu<sub>2</sub>
224
                     giš bar-si-nu<sub>2</sub>
225
                     giš BAD-[nu<sub>2</sub>]
226 4166
                     giš sag-[nu<sub>2</sub>]
227 4170
                     giš di<sub>5</sub>-[nu<sub>2</sub>]
228 4172
                     giš i-[zi-nu<sub>2</sub>]
229 4173
                     [giš umbin-nu<sub>2</sub>]
230 4175
                     giš dilim<sub>2</sub>-gal
                                                                            spoon
231 4174
                     giš dilim<sub>2</sub>
232
                     giš dilim<sub>2</sub>-da
233 4181
                     giš ma-al-tum
234 4188
                     giš banšur
                                                                            table
235 4200
                     giš dilim<sub>2</sub>-banšur
236 4203
                     giš umbin-banšur
237 4198
                     giš banšur-zag-gu-la
238 4199
                     giš banšur-zag-gar-ra
```

239 4204	giš ka-kara ₄ (KAD ₄)	type of table
240 4208	giš ka-kara ₄ -zu ₂ -am-si-si-ga	type of table
241	giš maš-tak-da	
242 4209	giš emerah	bowl
243	giš emerah-GAM-ga	bowi
244	giš emerah-ti	
245 4223	9	
246 4225	giš muru ₅ -za-nu-um	ladder
240 4225	giš kun4	laudei
247 4220	giš kun ₄ -bad ₃ -da	
250 4231	giš kun ₄ -M[E?-]-U-SI?	
	giš u ₃ -[kun ₄]	
251 4232	giš S[UH-kun4]	
252 4233	giš bu[gin (LAGABxA)]	container
253 4235	giš bugin-tur	
254 4238	giš [bugin]-ZU-bar-ra	
255 4242	giš naga ₃	mortar
256 4243	giš naga ₃ -še	
257 4244	giš naga ₃ -še-giš-i ₃	
258	giš naga ₃ -esir-e ₃ -a	
259 4247	giš tukul-naga ₃ -si ₃ -gaz	pestle
260 4248	giš gan-na	pestle
261 4251	giš girah (ŠU-DIM ₂)	building material for a boat
261a	$[]-DIM_2$	
262 4252	giš eme-sig	small plank
263 4254	giš mi-ri ₂ -za	board
264 4255	giš mi-ri ₂ -za-zag-gi-a	
265 4262	giš ma ₂	boat
266 4263	giš ma ₂ -gur	
267 4273	giš ma ₂ -sig-ga?	
268	giš ma ₂ -[] x	
269 4265	giš ma ₂ -u ₅	
270	giš ma ₂ -da-la ₂	
271 4274	giš ma ₂ -gur-šu-ku ₆	
272 4275	giš ma ₂ -peš-peš	
273	giš ma ₂ -gur-šu-gi ₄	
273a	giš ma ₂ -X-LAGAB	
274 4277	giš ma ₂ -ma ₂ -ri	
275 4284	giš ma ₂ -su-a	
276 4285	giš ma ₂ -dim-dug ₄ -ga	
277 4287	giš ma ₂ -NE	
278	giš ma ₂ -du ₈	
279 4354	giš ma ₂ -60-gur	
280 4355	giš ma ₂ -50-gur	
281 4356	giš ma ₂ -40-gur	
282 4357	giš ma ₂ -30-gur	
283 4358	giš ma ₂ -20-gur	
283a	giš ma ₂ -15-gur	

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284 4359
                      giš ma<sub>2</sub>-15-gur
285 4360
                      giš ma<sub>2</sub>-10-gur
286 4361
                      giš ma<sub>2</sub>-5-gur
                      giš ma<sub>2</sub>-tur
287 4264
288 4293
                      giš ma<sub>2</sub>-an-na
289 4295
                      giš ma<sub>2</sub>-aš-te
                      giš ma<sub>2</sub>-gur<sub>8</sub>-<sup>d</sup>nin-lil<sub>2</sub>
290 4299
                      giš ma<sub>2</sub>-gur<sub>8</sub>-<sup>d</sup>da-mu
291 4319
292 4308
                      giš ma<sub>2</sub>-kar-nun-ta-e<sub>3</sub>-a
293 4304
                      giš ma<sub>2</sub>-dara<sub>3</sub>-abzu
294 4312
                      giš ma<sub>2</sub>-nu-ri
294a 4313
                      giš ma<sub>2</sub>-nu-ri-ban<sub>3</sub>-da
294b
                      giš ma<sub>2</sub>-UD-nu-ri
295 4297
                      giš ma<sub>2</sub>-gur<sub>8</sub>-nu-ub<sub>2</sub>-zu
296 4281
                      giš ma<sub>2</sub>-dilmun-na
297 4362
                      giš u<sub>3</sub>-ma<sub>2</sub>
298 4380
                      giš e<sub>2</sub>-ma<sub>2</sub>
299 4367
                      giš si-ma<sub>2</sub>
300 4373
                      giš anše-ma<sub>2</sub>
301 4374
                      giš dim-ma<sub>2</sub>
302
                      giš dib-ma<sub>2</sub>
303
                      giš lu<sub>2</sub>-KA-ma<sub>2</sub>
304
                      giš u<sub>5</sub>-zi-pa-ah-ma<sub>2</sub>
305 4376
                      giš egir-ma<sub>2</sub>
306
                      giš peš-eš<sub>3</sub>-ma<sub>2</sub>
307 4352
                      giš ma<sub>2</sub>-addir
307a
                      giš ma2-lugal
308 4391
                      giš ma<sub>2</sub>-du<sub>3</sub>
309
                      giš bal-ma<sub>2</sub>-du<sub>3</sub>
309a
                      giš zag-ma2-du3
310 4393
                      giš gir<sub>2</sub>-ma<sub>2</sub>-du<sub>3</sub>
310a
                      giš peš-ma<sub>2</sub>-du<sub>3</sub>
311 4392
                      giš uš<sub>2</sub>-ma<sub>2</sub>-du<sub>3</sub>
312 4388
                      giš durgul (MA<sub>2</sub>-DU<sub>3</sub>)
                                                                               mooring pole or mast
313 4389
                      giš an-ta-durgul (MA<sub>2</sub>-DU<sub>3</sub>)
314 4417
                                                                               rudder
                      giš zi-gan
315 4419
                      giš dilim2-zi-gan
316 4420
                      giš sig-zi-gan
317 4025
                      giš an-ti-bal
318
                      giš zi-in-hur
319 4421
                      giš kak
320 4422
                      giš ir
321 4428
                      giš ENxKAR<sub>2</sub>
                                                                               staff
322 4428a
                      giš gag-ENxKAR<sub>2</sub>
                                                                               'peg' of a staff
323 4429
                      giš šibir
                                                                               staff
324 4430
                      giš gag-šibir
                                                                               'peg' of a staff
325 7b146
                      giš kab-bar
                                                                               shepherd's crook
```

326 5006 giš gigir chariot 327 5015 giš e ₂ -gigir 328 5016 giš e ₂ -usan ₃ -gigir 329 giš SUM-KI-A-gigir 330 5042 giš kun-gigir 331 5056 giš GUL-gigir 331a giš ŠIBIR-en-DU-[
328 5016 giš e2-usan3-gigir 329 giš SUM-KI-A-gigir 330 5042 giš kun-gigir 331 5056 giš GUL-gigir	
329 giš SUM-KI-A-gigir 330 5042 giš kun-gigir 331 5056 giš GUL-gigir	
330 5042 giš kun-gigir 331 5056 giš GUL-gigir	
331 5056 giš GUL-gigir	
331a giš SIBIR-en-DU-[
332 5023 giš sahar-gi-gigir	
333 5047 giš su-din-gigir	
giš su-lum-mar-gigir	
335 5052 giš sag-kul-gigir	
336 5040 giš sag-dur ₂ -gigir	
337 5034 giš gir ₃ -gub-gigir	
338 5045 giš mud-gigir	
giš gag-mud-gigir	
340 5049 giš šudul-gigir	
341 5050 giš gag-šudul-gigir	
342 5054 giš umbin-gigir	
343 5055 giš gag-umbin-gigir	
344 5025 giš si-gigir	
giš gaba-gigir	
346 5021 giš gaba-gal ₂ -gigir	
giš usan ₃ (grip of the) wh	nip
348 giš usan ₃	-г
349 giš eme-usan ₃	
350 giš ama-usan ₃	
351 5059 giš gag-sal ₄ type of wagon	
352 giš za-ra-gag-sal ₄ type of wagon	
353 giš umbin-gag-sal ₄	
354 giš šid-du ₃ -gar	
355 5068 giš šid-du ₃ -bar	
356 5070 giš šid-du ₃ -a-ša ₃	
357 5073 giš mar-gid ₂ -da wagon 357a giš mar-gid ₂ -[da-	
<u> </u>	
6 6 -	
359 giš za-ra-mar-gid ₂ -da	
360 giš gag-za-ra-mar-gid ₂ -da	
361 giš sag-kul-mar-gid ₂ -da	
362 giš sag-dur ₂ -mar-gid ₂ -da	
363 5085 giš gir ₃ -gub-mar-gid ₂ -da	
364 giš mud-mar-gid ₂ -da	
giš gag-mud-mar-gid ₂ -da	
366 giš šudul ₄ -mar-gid ₂ -da	
367 giš gag-šudul ₄ -mar-gid ₂ -da	
368 5092 giš umbin-mar-gid ₂ -da	
369 5095g giš gag-umbin-mar-gid ₂ -da	
370 5090 giš u ₄ -sakar-mar-gid ₂ -da	

```
371 5091
                    giš gag-u<sub>4</sub>-sakar-mar-gid<sub>2</sub>-da
372 5088
                    giš nam-ha-ru-um-mar-gid<sub>2</sub>-da
373 5083
                    giš en<sub>3</sub>-dur-mar-gid<sub>2</sub>-da
374 5199
                    giš ig
                                                                      door
375 5200
                    giš ig-gal
376 5233
                    giš ig-i3
377 5234
                    giš ig-i<sub>3</sub>-šeš<sub>2</sub>
378 5210
                   giš ig-li
379 5207
                   giš ig-dib
380 5244
                    giš ig-suh<sub>4</sub>
380a 5236
                    giš ig-pa-pah
381 5218
                   giš ig-maš-tab-ba
381a
                    giš ig-ba-ša<sub>3</sub>-ga
382 5251a
                   giš ig-u<sub>3</sub>-ma
383 5206
                    giš ig-ul-la
384 5239
                   giš ig-ze<sub>2</sub>-na
385 5237
                   giš ig-mi-ri<sub>2</sub>-za
386 5250
                   giš ig-ka<sub>2</sub>-tilla<sub>2</sub>
387 5247
                    giš ig-ka<sub>2</sub>-e<sub>2</sub>-gal-la
388 5252
                   giš suku<sub>5</sub>-ig
389 5253
                   giš u<sub>3</sub>-ig
390 5254
                   giš u<sub>4</sub>-sakar-ig
391 5259
                    giš bar-du<sub>3</sub>-ig
392 5255
                   giš dun<sub>3</sub>-la<sub>2</sub>-ig
393
                    giš ir-ig
394 5267
                   giš suhub<sub>4</sub>-ig
                    giš ŠU-DI
                                                                      latch
394a 5267
394b 5268
                   giš šu-ga
395 5264
                    giš nu-kuš<sub>2</sub>-u<sub>3</sub>
                                                                      pivot
                    giš nu-kuš<sub>2</sub>-u<sub>3</sub>-an-na
396 5265
397 5266
                    giš nu-kuš<sub>2</sub>-u<sub>3</sub>-ki-ta
398 5270
                   giš sag-kul
                                                                      bar
399 5271
                    giš sag-kul-nim-ma
400 5275
                   giš eš<sub>2</sub>-sag-kul
401
                    giš sag-kul-la<sub>2</sub>-a
402 5294
                   giš si-gar
                                                                      bolt
403 5295
                    giš gag-si-gar
404
                   giš si-gar-gu<sub>2</sub>-e<sub>3</sub>-a
                                                                      handle
405 5286
                   giš mud
406 5287
                   giš gag-mud
                                                                      heddle of the loom
407
                   giš šerim(TAG)
408 5300
                   giš TAG-TUG<sub>2</sub>
409 5307a
                    giš kur-ra
410 5308
                   giš nu-ra
411 5314
                    giš il<sub>2</sub>-il<sub>2</sub>
                   giš bar-bar
                                                                      shuttle
412 5312
413 5317
                    giš tug<sub>2</sub>-tug<sub>2</sub>
```

```
414 5319
                   giš nig<sub>2</sub>-zu
415 5318
                                                                   cloth beam
                   giš nig<sub>2</sub>-gi-na
416 5313
                   giš nig<sub>2</sub>-menbulug<sub>2</sub>(BULUG/BULUG)
417
                   giš a<sub>2</sub>-šu-du<sub>7</sub>-tug<sub>2</sub>-ga
418 6012
                   giš ga-rig<sub>2</sub>
                                                                   comb
419 6013
                   giš ga-rig<sub>2</sub>-sig<sub>2</sub>
420 6014
                   giš ga-rig<sub>2</sub>-sag-du
421 6015
                   giš ga-rig<sub>2</sub>-pa-mušen
421a 6018
                   giš ga-rig<sub>2</sub>-e<sub>2</sub>-pa-na
422 6019
                   giš bal
                                                                   spindle
423 6030
                   giš e<sub>2</sub>-bal
424 6026
                   giš sag-bal
424a
                   giš BAR?-bal
425 6028
                   giš me-te-bal
426 6043
                   giš LAGAB
427 6044
                   giš LAGAB
428 6045
                   giš LAGAB
429 6081
                   giš BU
430 6082
                   giš BU
431 6083
                   giš BU
432 6084
                   giš BU
433 6092
                   giš sahar-BU
434 6097
                   giš bu
                                                                   handle
435 6098
                   giš bu-<sup>gi</sup>ma-an-sim
                   giš bu-ŠID
435a
436 6108
                                                                   scales
                   giš rin<sub>2</sub>
437 6110
                   giš rin<sub>2</sub>-lib-lib-bi
438 6113
                   giš rin<sub>2</sub>-1-gun
439
                   giš rin2-ma-na
440 6116
                   giš e<sub>2</sub>-rin<sub>2</sub>
441 6115
                   giš dilim<sub>2</sub>-rin<sub>2</sub>
442 5110
                                                                   plough
                   giš apin
443 5116
                   giš apin-šu
444 5117
                   giš apin-šu-du<sub>7</sub>
445 5118
                   giš apin-šu-nu-du<sub>7</sub>
446 5123
                   giš apin-tug<sub>2</sub>-sig<sub>18</sub>
447
                   giš apin-sag-e<sub>3</sub>
448 5131
                   giš apin-gud-4-la<sub>2</sub>
449 5135
                   giš sag-apin
450 5137
                   giš eme-apin
451 5144
                   giš ka-šu<sub>2</sub>-apin
452 5152
                   giš šu-sag-apin
452a 5151
                   giš igi-gal<sub>2</sub>-apin
453 5157
                   giš nig<sub>2</sub>-kud-apin
454 5158
                   giš nig<sub>2</sub>-PI-apin
455 5161
                   giš sal-la-apin
456 5162
                   giš gag-sal-la-apin
```

```
457 5159c
                  giš nig-apin
458
                  giš gag-nig-apin
459 5166
                  giš šudul-apin
460 5167
                  giš gag-šudul-apin
                  giš muš-apin
460a
460b
                  giš gag-muš-apin
                  giš da-apin
461 5139
                  giš gan-apin
462
463 5141
                  giš li-apin
464 5146
                  giš ninda<sub>2</sub>-apin
465
                  giš a<sub>2</sub>-gud-apin
466
                  giš an-za-am-apin
467
                  giš gag-sa-la<sub>2</sub>
                                                                  peg to attach a rope
468 5173
                  giš gan<sub>2</sub>-ur<sub>3</sub>
                                                                  harrow
469 5174
                  giš gan<sub>2</sub>-ur<sub>3</sub>-sar-ra
                  giš gan2-ur3-zu2-gal-la
470 5175
471
                  giš sa-gan<sub>2</sub>-ur<sub>3</sub>
472 5185
                  giš u<sub>5</sub>-gan<sub>2</sub>-ur<sub>3</sub>
473 5183
                  giš sag-gan<sub>2</sub>-ur<sub>3</sub>
474 5160
                  giš da-an-ga
475 7a148
                  giš suhur
                                                                  goad
476 7a149
                  giš suhur-gud
477 7a152
                  giš al
                                                                  hoe
478 7a155
                  giš al-zu<sub>2</sub>
479 7a166
                  giš al-šub
480 7a159
                  giš al-zu<sub>2</sub>-2
481 7a160
                  giš al-zu<sub>2</sub>-3
482 7a161
                  giš al-zu<sub>2</sub>-4
483 7a169
                  giš u<sub>3</sub>-šub
                                                                  brick mould
484 7a173
                  giš u<sub>3</sub>-šub-ab-ba
485 7a170
                  giš u<sub>3</sub>-šub-sig<sub>4</sub>
486 7a171
                  giš u<sub>3</sub>-šub-sig<sub>4</sub>-al-ur<sub>5</sub>-ra
487 6133
                  giš gag-du<sub>6</sub>-ba-al-la<sub>2</sub>
                                                                  stick for uprooting
488 6134
                  giš gag-sum-ba-al-la<sub>2</sub>
489
                  giš gag-sum-sal-la
490 6135
                  giš gag-sum-šir-dili
491 6150
                  giš zi-ri<sub>2</sub>-qum
                                                                  irrigation device
492
                  giš gu<sub>2</sub>-zi-ri<sub>2</sub>-qum
493 6153
                  giš nam-nu-tar-re
494 6157
                  giš I-LU
                  giš I-DIB
495 6158
                  giš tukul
496 7a006
                                                                  weapon or mace
497 7a014
                  giš tukul-šu
498 7a015
                  giš tukul-ur<sub>2</sub>-ra
499 7a024
                  giš tukul-kun
500 7a010
                  giš TUKUL-DINGIR
501
                  giš tukul-gaz
```

```
501a
                   giš tukul-mah
502 7a028
                   giš sag-tukul
503 7a030
                   giš a-ga-tukul
504 7a012
                   giš mi-tum
                                                                    mace
                   giš mi-tum-sag-50
505
506 7a001
                   giš utug<sub>2</sub>
                                                                    mace
                   giš utug<sub>2</sub>-sag-50
507
508 7a174
                   giš dur<sub>2</sub>
                                                                    bottom board
509 7a200
                   giš dur<sub>2</sub>-pisan
510 7a178
                   giš dur<sub>2</sub>-ab-ba
511 7a175
                   giš dur<sub>2</sub>-sig<sub>4</sub>
                   giš dur<sub>2</sub>-sig<sub>4</sub>-al-ur<sub>5</sub>-ra
512 7a176
513 7a204
                   giš dur<sub>2</sub>-bi-eš-gar-[ra]
514 7a205
                   giš bar-bi-eš-gar-ra
515 7a226
                   giš lid<sub>2</sub>-ga
                                                                    measuring vat
516 7a218
                   giš ba-ri<sub>2</sub>-ga
517 7a231
                   giš ba-an
518 7a235
                   giš ba-an-5-sila<sub>3</sub>
                                                                    measuring vat of 5 sila
519
                   giš nig<sub>2</sub>-2-sila<sub>3</sub>
520 7a237
                   giš 1 sila<sub>3</sub>
521
                   giš 1/2 sila<sub>3</sub>
522 7a239
                   giš 1/3 sila<sub>3</sub>
523 7a240
                   giš 2/3 sila<sub>3</sub>
524
                   giš 10 gin<sub>2</sub>
525
                   giš 5 gin<sub>2</sub>
525a
                   giš 3 gin<sub>2</sub>
525b
                   giš 2 gin<sub>2</sub>
526
                   giš 1 gin<sub>2</sub>
527 6160
                   giš sa
                                                                    net
528 6164
                   giš sa-gal
529
                   giš sa-sig
530 6169
                   giš sa-ur<sub>3</sub>-ra
531 6183a
                   giš sa-giš-gi
532 6171
                   [giš sa-šu]-uš-gal
533 6190
                   [giš sa]-hir
534 6175
                   [giš sa]-du<sub>3</sub>
535
                   [giš sa]-NI
536 6220
                   giš har-mušen-na
                                                                    trap for birds
537 6221
                   giš gidru-har-mušen-na
538 6222
                   giš gur<sub>2</sub>-har-mušen-na
539
                   giš ellag<sub>2</sub>-du
                                                                    trap
540
                   giš ellag<sub>2</sub>-du-tur-ra
541
                   giš šul-ka-tar-ra
541a
                   giš šul-HAR-tur-ra
542
                   giš šu-uš
543 4027
                   giš igi-gal<sub>2</sub>
544 3269
                   giš ligima(IGI-TUR-TUR)
                                                                    shoot
```

545 3270	giš ligima(IGI-TUR-TUR)	
546 3271	giš ligima(IGI-TUR-TUR)	
547 6234	giš IGI-NI	arrow
547a	giš IGI-NI	
548 6235	giš IGI-KAK	spear
549 6237	giš za-am-ru-tum	lance
550 7a039	giš šu-nir	standard
551 6239	giš gid ₂ -da	standard
551a	giš lugud ₂ -da	
552 7a066		iovolin
	giš illar	javelin
552a	giš illar-šu-lugal	
553 7a069	giš illar-šub-ba	
554 7a077	giš illar-e-ba-an	
554a	giš [illa]r-NUN-dili	
554b	giš illar-DU.šeššig-DU-a	
554c 7a079	giš LAGAB-illar	
555 7a048	giš pan	bow
556 7a049	giš e ₂ -pan	
557 7a052	giš gag-pan	
558	giš gag-si-sa ₂	arrow
559	giš gag-si-eš	
560	giš eš-ad	snare
561 6192	giš sa-ad	
562 7a243	giš lib-bi-da	axe
563	giš ha-bu-da	axe
564 7a105	giš igi-gal ₂	
565 6231	giš gin ₂	
566 6233	giš gin ₂ -sal	
567 6227	giš aga	
568 6228	giš aga-GIN ₂ -ma	
569 6229		
	giš aga-šilig-ga	
569a	giš aga-AŠ-GAR	
570	giš aga-e-da?	
571	giš U ₂ -e-[
572	giš KID-a ₂ -gar	
573	giš KID-tukul-mah	
574	giš KID-dim	
575	giš KID-dim-[
576	giš [u ₄ -sakar]	half wheel
577	giš gag-[u4-sakar]	
578 7a116	giš ni ₃ -sakar	
579 7a118	giš ni ₃ -sakar-bur ₃ -bur ₃	
580 7b001	giš mar	shovel
581 7b010	giš mar-šu	
582 7b012	giš mar-ninda	
583	giš mar-ninda-sig ₅	
584 7b014	giš mar-nig ₂ -sur-ra	
201 /0011	510 11mi 11152 0mi 1m	

```
585 7b026
                 giš mar-im-ma
586 7b005
                 giš mar-še-bad
587
                 giš mar-še-du<sub>3</sub>
                 giš mar-zabar
588
589
                 giš ŠID-mar
590 7b030
                 giš eme-mar
591 7b033
                 giš kul-mar
592 6058
                 giš BAD
593 6059
                 giš BAD
594 6060
                 giš BAD
595 7a145
                 giš dag-si
                                                            saddle knob
596 7a147
                 giš dag-si-e-ba-na
597 7b039
                 giš balag
                                                            musical instrument
598 7b040
                 giš balag-di
599
                 giš a<sub>2</sub>-balag
600 7b062
                 giš a<sub>2</sub>-la<sub>2</sub>
601 7b063
                 giš al-gar
602 7b059
                 giš al-gar-sur<sub>9</sub>
                                                            harp
603 7b074
                 giš sa-bi<sub>2</sub>-tum
604 7b077
                 giš mi-ri<sub>2</sub>-tum
605 7b079
                 giš ur-za-ba<sub>4</sub>-ba
606 7b086
                 giš ur-gu-la
607 7b055
                 giš h[ar]-har
                 giš nig<sub>2</sub>-har-mu[šen]
608
609
                 giš []-gal<sub>2</sub>?
610 7b044
                 giš za<sub>3</sub>-mi<sub>2</sub>
                                                            lyre
611
                 giš kul-za<sub>3</sub>-mi<sub>2</sub>
612 7b050
                 giš dub-za<sub>3</sub>-mi<sub>2</sub>
613
                 giš tigidlu
                 giš tigidlu-kaskal-la
614
                 giš tigidlu-sa-III
615
                 giš tigidlu-NIM-ma
616
617 7b117
                 giš gu<sub>3</sub>-di
618 7b126
                 giš du<sub>3</sub>-a
619
                 giš šu-kar<sub>2</sub>
620
                 giš šu
621 7a134
                 giš ebir
                                                            rack for vessels
622
                 giš ebir-a
                 giš ebir-kaš
623 7a135
624 7a128
                 giš ga-an-nu-um
                                                            rack for vessels
625 7a129
                 giš ga-an-nu-um-a
626 7a129
                 giš ga-an-nu-um-ga
627 7a129
                 giš ga-an-nu-um-kaš
627a
                 giš DUG-DUG-7-bi
628 7a139
                 giš DUG-gub
629 7a141
                 giš zabar-gub
                 giš ma<sub>2</sub>-gaz
630
                                                            slaughtering bench
```

```
631
                  giš ma<sub>2</sub>-gaz-bur<sub>3</sub>-bur<sub>3</sub>
632 7b037
                  giš in-nu-šu-gur<sub>10</sub>-a
                                                                 straw chopper
633
                  giš pap-hal-la
                  giš gud-si-dili
634 7a088
                                                                 battering engine
635 7a090
                  giš zu<sub>2</sub>-gud-si-dili
                  giš eme-gud-si-dili
636
                  giš murgu-gud-si-dili
637 7a091
638 7a092
                  giš gešpu<sub>2</sub>-gud-si-dili
639 7a081
                  giš ze<sub>2</sub>-na
                                                                 siege engine
640 7a083
                  giš ze<sub>2</sub>-na-mah
641
                  giš ur<sub>2</sub>-TUG<sub>2</sub>
642
                  giš ur<sub>2</sub>-eš<sub>5</sub>
643
                  giš ur<sub>2</sub>-limmu
644
                  giš ur<sub>2</sub>-tal<sub>2</sub>-la
645 4410
                  giš gisal
                                                                 oar
646 4411
                  giš gisal-šu
647 4413
                  giš gisal-anše
648
                  giš kab
                                                                 shaft (of a knife)?
649
                  giš kab-gir<sub>2</sub>
650
                  giš kab-UR<sub>4</sub>-LAGAB
651
                  giš kab-nig<sub>2</sub>-kiši<sub>16</sub>
652
                  giš gišgal
                                                                 plinth
653 7a142
                  giš halba<sub>5</sub>
654
                  giš tir-ug<sub>5</sub>-ga
655
                  giš pa-gibil-ug<sub>5</sub>-g[a]
                  [g]iš pa-kud-ug<sub>5</sub>-ga
655a
                                                                 part of the funnel of a seeder plough
656
                   giš ni[nda<sub>2</sub>]
                  giš ninda<sub>2</sub>
657
658
                  giš en-ninda<sub>2</sub>
662
                  [giš] gir<sub>3</sub>-re
663 6046
                  giš KUR
664 6047
                  giš KUR
665 6048
                  giš KUR
666 6052
                  giš KAL
667 6053
                  giš KAL
668 6054
                  giš KAL
673
                  giš gi-dub
674
                  giš KA-gud
675
                  giš LUM-LUM-anše
676 3476
                  giš NIM
                                                                 camel thorn
677
                  giš NIM
678
                  giš NIM
679 3477
                  giš NIM-kur
680 7b141
                  giš rab
                                                                 stock
                  giš šu-lu<sub>2</sub>
681 7b139
682 7a209
                  giš kun-UMBIN
683 7a210
                  giš nig<sub>2</sub>-UMB[IN]
```

684	giš šagan-la ₂	
685	giš u ₃ -nu-di[b?]	
686	giš [
687	giš im?	
688	giš ur ₂	
689	giš dub-ba?	
690	giš šu	
691 7b230	giš gu ₂	
692	giš an-ti-bal-gu ₇ -a	
693 7a119	giš dur	
694 7a120	giš dur-si	
695 7a121	giš dur-piš-piš	
696 7b152	giš alam	statue
697 7b159	giš az	(figurine of a) bear
698 7b161	giš pirig	
699	giš pirig-tur	
700	giš ur	
701	giš za-na	figurine
702	giš e ₂ -za-na	
703	giš nam-ra	
704 7b304	giš ša-u ₁₈ -ša	a weapon
705 7b307	giš ar-gibil ₂	
706 7b312	giš šu-nigin ₂ -na	total of 'wood'
707	^d nisaba za ₃ -mi ₂	praise be Nisaba

021-022 For the reading $g^{i\dot{s}}$ sar_x(NE)- \dot{s} a₄-bid₃ see Bauer 1992, p.1.

The first of the two gišLAM items is to be read gišlam. This is demonstrated by the 023-024 variant ^{giš}lam₂ in Ni II-085. The reading of line 24 is more problematic. The two Nippur lines correspond to four giš LAMxKUR items in late ur₅-ra 3 (lines 61-64). giš LAMxKUR is there rendered *šiqdu*, *šiqittu*, *lup_nu*, and *lammu* (see MSL 5, p.98, restored by CTN IV, 214; and the parallel passage in Diri II 223-226). All these words refer to varieties of nut-bearing trees, including almond (see Steinkeller and Postgate 1992, pp.58-60). The rendering lammu suggests that at least one of the items is to be read gislam, corresponding to gislam in the Nippur version (line 23). A more common reading of LAMxKUR is e₃₂₂ (or i₃₁₁). For this reading see S^b Voc I, 217 in MSL 3, p.115 and Proto-Ea 915 in MSL 14, p.63. In Diri II 223-226 GIŠ.LAMxKUR is given the same four Akkadian renderings as quoted above from ur₅-ra 3. In all cases the Sumerian is glossed eš (in some sources e-še). It is very probable that line 24 of the Nippur version is likewise to be read gišeš_x(LAM). The possibilities of a reading lam₇ in gišLAMxKUR on the one hand and a reading gis es_x(LAM) on the other are both confirmed by CBS 14130 (SLT) 11) (+) 13922. This text is a commentary on the Early Dynastic list of containers. For this type of text see Civil and Biggs 1966. M. Civil generously allowed me to use his unpublished edition. *SLT* 11 Obv. II1-2:

```
giš <sup>e-eš</sup>2 「LAM「
giš <sup>la-am</sup>LAMxKUR
```

According to Civil the gloss e-eš₂, which is distorted in Chiera's copy, is perfectly clear on the original (personal communication). The lines comment on the items DUGxLAM and DUGxLAMxKUR respectively, both apparently containers for or with nuts. Steinkeller and Postgate (1992, pp.58-60) in their discussion of ^{giš}LAM differentiated between ^{giš}eš₂₂, ^{giš}lam, and ^{giš}lug_x(LAM). The reading ^{giš}lug_x(LAM) is found in the Boghazkoy version of Diri II:

```
lu-ug 「GIŠ.LAM」 lu-ku-ú la-am-mu ši-iq-du
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However, both the Akkadian rendering luk'u and the Sumerian value $lug_x(LAM)$ are unique to this text and may well belong to the idiosyncrasies of the western peripheral lexical tradition. Pending independent confirmation the value lug_x is to be rejected.

The evidence leads to the conclusion that there are two names for nut-bearing trees, the one /eš/, the other /lam/. The spelling of both words vacillates between ^{giš}LAM and ^{giš}LAMxKUR. The words ^{giš}eš₂₂ and ^{giš}lam appear side by side in the Ebla Vocabulary (*MEE* 4, p.251, 462-463), though there is only one source in which they are both found.

025c This line is very rare in Nippur sources but appears in the one-line Susa lentil *MDP* 18,43.

028 The reading bir is suggested by the variant ^{giš}bi-GAM-la-e in Ni II-047. The value of GAM remains unknown.

- 046-048 The reading of KID is most probably kid because of the -da ending. However, the relation with later versions of the list remains unclear. In Ugarit the item is found as giššed-du. LTBA I, 78, a text that follows the Ugarit/Emar tradition closely, has the sequence giš šu-da; gišSAR-da; gišKID-da; gišKID-da-zil-la2 (col. II 1-4). In first millennium sources the word is spelled gišše-du₃-a (see MSL 5, p.108) and rendered in Akkadian by various words for twig or shoot. Line 48 giš KID-da-zil-la₂ (stripped twig) is probably equivalent to MSL 5, p.109, 199 giš še du_3 -a g^{is} še- du_3 -a i_3 -la₂ = ziqpu šitl_ nad_tu
- The variant reading giš mes-il (Ni II-211) instead of giš mes-alan may indicate a reading giš mes-al₂(ALAN). Comparable variants are found in lines 110 (giš alan-nu for giš il-ur₂ in Ni II-208) and 411 (gis ALAN- $i[l_2]$ for gis il₂- il_2 in Ni II-241).
- The item giš gibil (or giš bil2) is found in only two Nippur sources. The word is 064a found in the same place in the Ugarit tradition and in the late version (see MSL 5, p.114). The item is attracted by a semantic association with gisisi2-mu2. Both are rendered pir'u in the late version. One of the Isin texts (Is I-02; edited in §5.6.1) adds two other synonyms: giš u₃-luh-giš kiri₆ and giš nunuz-giš kiri6. Still other sources have inserted the section giš ligimu(IGI.TUR.TUR) here (e.g. NP II-01; edited in §5.6.4). In the late version all these words are collected in the section before giš-nimbar.
- 065-104 The section date palm. For the reading giš-nimbar instead of the traditional giš giš immar see Civil 1987b, p.28. The terminology of the date palm has been discussed by Landsberger 1967a. The date palm section in the Nippur list contains a number of items that do not recur in later versions and were not included in Landsberger's study. The passage has a considerable degree of variation: items are omitted, other items are added or the order is inverted. There is one variant that recurs in a number of sources. In most Nippur texts we find the order (97-99):

There is a semantic association of an-na and ki-ta (high and low). In 4 of the 17 Nippur sources which have the line giš an-na-nimbar it is placed before 86 giš pa-nimbar and 87 giš pa-kud-nimbar (type II tablets 6, 84, 85, and 86).

- 073 $LU_2.IM = sarru$ (for references see CAD S sv). The item is written giš-nimbar-lul in first millennium ur₅-ra (MSL 5, p.121, 344). In CAD the expression is interpreted as 'mock date palm'. For the reading of LU₂.IM see Sjöberg 1973a, p.133.
- In Old and Middle Babylonian texts libiš is commonly written AB2.ŠA3, not AB₂xŠA₃. The item ^{giš}nimbar-ab₂-ri-ih-ra in *Emar* 6/4, p.58, 147' is to be read ^{giš}nimbar-libiš-bura. In Boghazköy the variant ^{giš}nimbar-libiš-bur-ra is found (*KBo* 26, 6 Aiii, 5'.).
- 104 The reading banda₃ for TUR follows from the writing ban₃-da in Ni II-147.
- 110 For the spelling with ALAN instead of IL (Ni II-208) see the commentary to line

giš ga₂-li-nimbar giš an-na-nimbar

giški-ta-nimbar

51a above.

111-114 In the standardized text a differentiation is made between $^{gi\check{s}}ad_2(GIR_2)$ and $^{gi\check{s}}ki\check{s}i_{16}(U_2.GIR_2)$. Both words refer to a kind of shrub (Akkadian *eddettum* and $a\check{s}_gum$ respectively; see the discussion by Civil 1960, p.67). Of the $^{gi\check{s}}ki\check{s}i_{16}$ two variants are listed: $^{gi\check{s}}ki\check{s}i$ -har and $^{gi\check{s}}ki\check{s}i$ -har-kur-ra. In a few cases, however, the items have been mixed up so that the section starts with $^{gi\check{s}}ki\check{s}i_{16};$ $^{gi\check{s}}ad_2$ and then continues with $^{gi\check{s}}ad_2$ -har; $^{gi\check{s}}ad_2$ -har-kur-ra. Powell (1992, p.102) suggests that $^{gi\check{s}}GIR_2gun\hat{u}$ in Old Sumerian texts is to be read $^{gi\check{s}}ki\check{s}ig_x$. The same suggestion is made by Biggs in his discussion of the sign (Biggs 1974, pp.69-70). The late tradition renders $^{gi\check{s}}U_2.GIR_2$ with both *eddettu* and $a\check{s}_gu$ (see MSL 5, p.130f., 432 and 439; Diri II 250-251). In Diri II $^{gi\check{s}}U_2.GIR_2 = eddettu$ is glossed at-tu, which demonstrates that this is a variant of, or a confusion with $^{gi\check{s}}ad_2(GIR_2) = eddettu$. In Old Babylonian sources the reading att $u(U_2.GIR_2)$ is not attested.

The reading har for HAR in the lines 113-114 is suggested by the Emar version which has giškiši₁₆-uh-ha and ^{giš}kiši₁₆-uh-ha-kur-ra (*Emar* 6/4, p.59, 191'-192').

117 The reading gis pe $_{7}$ (TUR)-kal appears from the comparison with later versions which have gis pe $_{7}$ -kal (*Emar* 6/4, p.59, 196') or gis pe $_{7}$ -gal (*MSL* 5, p.134, 450). The word is rendered $_{7}$ -and in Akkadian. The lentil Ni IV-12 (see §5.5) has on the reverse an abbreviated version of the Nippur tree list in three columns. In column II 24-26 it reads:

gišsa-ma-na₂ (115) gišzu-ti-a-nu-um (117) gišSi-ig-d[um] (122)

The item ^{giš}zu-ti-a-nu-um is the Akkadian rendering of ^{giš}peš₇-kal. The Akkadian word is occasionally found in Sumerian texts from the Ur III period (see Steinkeller 1991). See also *TIM* X/1, 86, a lentil from Tell Harmal: ^{giš}zu-di-a[n[?]-].

- 123 The item ^{giš}zar-si is rendered *zarraštum* in Akkadian (see *MSL* 5, p.135, 455-457). One source has the spelling ^{giš}zar₃(SUM)-si. SUM is the common sign for the value /zar/ in the third millennium, but is replaced in Old Babylonian by LAGABxSUM (see Steinkeller 1978 and 1979). On the reverse of Ni IV-12 (see §5.5) the item is found as ^{giš}za-ri₃(LAGAB)-aš-tum, an Akkadianized form of the word (for a similar case on this same tablet see the commentary to line 117 above).
- 127 This word was read *ašbum* in *CAD* A sv. The reading ^{giš}dili-bu-um is confirmed by Middle Babylonian sources which have ^{giš}dal-bu-um (KBo 26, 6 Bi 16' and Emar 6/4 p.59, 205'. Perhaps the word is identical to ^{giš}tu-lu-bu-um (Gudea) and Akkadian *dulbu* (plane tree). See CAD D sv for Sumerian and Akkadian references.
- **142-159** This section has been discussed in §3.1 of the present study.
- The generally accepted meaning of gis dib-dib is water clock or clepsydra. The word is discussed most recently in Al-Rawi and George 1992 (p. 56f. n.15). As far as I know the variants gis dub-dub and gis dab₅-dab₅ are not attested elsewhere. Perhaps the word is onomatopoeic, mimicking the sound of dripping water.

147-148 The words ^{giš}dub-dim₂ and ^{giš}šumun-gi₄ are discussed at length by Lieberman 1980, pp.346-351. Both words appear in Old Babylonian LU lists (see the discussion by Lieberman) and in the Ebla Vocabulary. *MEE* 4, p.242, 380: ^{giš}šumun-gi₄ = *ša-ma-gi-lum* (thus the interpretation of this line in *CAD* Š/3 p.266). *MEE* 4, p.245, 403 ^{giš}dub-dim₂ = *ma-ša-dab₆-ti-nu* (with orthographic variants). The Semitic word is related to Akkadian *muštaptinnu* or *multaptinnu*, a potter's device (see Krebernik 1983, p.15f.). This word follows ^{giš}dub-dim₂ - ^{giš}šume-gi in first millennium ur₅-ra 4 (*MSL* 5, p.152, 21-23). The Ebla evidence makes Liebermann's interpretation of ^{giš}dub-dim₂ ('accounting board') less plausible. The term refers to a wooden object for making tablets.

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The relation between ^{gi\check{s}} šumun-gi_4 and ur_5-ra 6, 4-5 is not clear (MSL 6, p.51): ^{gi\check{s}} šu-mu-un-gi ma-ah-su-\acute{u} (variant ^{gi\check{s}} šu-me-gim) ^{gi\check{s}} ša_3-mu-un-gi mu-um-mu (variants ^{gi\check{s}} ša_3-mu-un-gim; ^{gi\check{s}} ša-mu-un-gi)
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- The $^{gi\dot{s}}$ ŠID-ma is a computing device, an abacus or the like. According to Ludwig it is to be read $^{gi\dot{s}}$ šudum_x-ma (see Proto-Ea 555). The word often appears in royal hymns in the context of the king's wide learning and intellectual skills. References are collected in Ludwig 1990, pp.179-185.
- For the reading ešgiri(U.ENxKAR₂) see MSL 9, p.169, 55. See also KBo 26, 6 Bii 7': gis gir₃-šu-du₇. In canonical lú = $\check{s}a$ the line gis šibir-šu-du₇ is found (MSL 12, p.135, 198; see also line 193). There the reading šibir is assured by the Akkadian rendering na- $a\check{s}_2$ $\check{s}i$ -bir-ri. There is, however, no reason to assume that this has any relevance for the reading of the entry in the giš list.
- This item is found in various forms in Old Babylonian and Middle Babylonian sources but meaning and reading remain unknown. Old Babylonian: ^{giš}nig₂-na-UD (NP III-06; Ni II-206; and Ni II-278) and ^{giš}nig₂-na-BAD (Ni I-06). Middle Babylonian ^{giš}nig₂-na-MUD (*Emar* 6/4, p.61, 14'); ^{giš}nig₂-na-UD (*KBo* 26, 6 Bii 8'). No bilingual sources are known to me.
- Section giš gu-za. The reconstruction of this section is in places uncertain. The 160-203 main source for lines 172-178 is Ni I-05. Most lines can be confirmed in Ni II-053 (which, however, is badly effaced) and in Ni II-202, where the end of each line is preserved. The reconstruction of line 178 (giš gu-za-ša[h-šum]-ma) is based upon the partial signs preserved in Ni U-06, Ni I-05, and Ni II-202. The item is well known from later sources (MSL 5, p.157, 96; Emar 6/4 p.61, 27'; LTBA I, 78 IV25), always preceding gis ma₂-gan-na and gis me-luh-ha. The connection with lines 179ff. is based upon the reading of Ni U-06, and is confirmed by the traces in Ni II-202. There is no tablet that preserves the connection between 181 and 182. The assumption that ^{giš}gu-za-aratta follows ^{giš}gu-za-ma₂-lah₄ is based upon the following two considerations. Firstly, in Ni II-053 lines 172-174 are followed by two illegible lines. The traces in the next two lines are almost certainly ^{giš}gu-za-š[u-] and ^{giš}gu-za-K[A-], that is, lines 176-177 (this implies that Ni II-053 had an extra line between 174 and 176). After line 177 there are four lines with traces only, and then a gišgu-za-L[AM-], most probably to be read gišgu-za-ara[tta]. Consequently, the line number of this item should be 182. Secondly, the sequence makes sense. It is a passage of outlandish chairs (Maganna, Meluhha, Aratta), only interrupted by the gis gu-za-

 ma_2 -lah₄ apparently attracted by the graphic similarity with $^{gi\dot{s}}$ gu-za-ma₂-gan-na and the phonemic similarity with $^{gi\dot{s}}$ gu-za-me-luh-ha. It is assumed, therefore, that no line of the standard text is missing.

The reconstruction of lines 182-193 is based upon Ni II-156 and is sufficiently confirmed by what is preserved in the other sources. Line 193 (giš gu-za-giš mes-ma2-gan-na) is followed by giš gu-za-giš mes-me-luh-ha. This line is nowhere completely preserved, but since the item is expected at this place its reconstruction is not in doubt. The first line legible on side B of Ni P-05 has [] me-luh [], with no more than one sign missing at the beginning of the line. It is followed by giš gu-za-gar3-ba- items. The only plausible reconstruction is that Ni P-05 had the item giš gu-za-giš mes-me-luh-ha divided over two lines. Ni P-05 therefore provides the connection between the giš gu-za-giš mes items and the giš gu-za-gar3-ba section. This is confirmed by Ni II-053, which is almost illegible in this passage but clearly shows that the section giš gu-za-giš [] is followed closely by giš gu-za-ga[r3-].

In all versions of the giš list the section ^{giš}gu-za ends with a passage listing the parts of a chair. Only one line of this section has been partly preserved in a single source: ^{giš}BAD-[gu-za] in Ni II-048. The reconstruction of lines 200-203 is based upon the corresponding passage in the section giš-nu₂ (bed). In most versions of the giš list the passages 'parts of a chair' and 'parts of a bed' are very similar.

In the Middle Babylonian traditions the section ^{giš}gu-za is followed by a section ^{giš}na₍₅₎ (*Emar* 6/4, p61; and the Middle Babylonian Nippur text *PBS* 12/1, 17). In the first millennium tradition the two sections have been inverted (*MSL* 5, p.154f.). There is only one Old Babylonian tablet of unknown provenance which preserves part of this section (NP IV-16). In Ni II-053 there is no room for a section ^{giš}na or ^{giš}na₅. The same is probably true for Is I-01. It is assumed that in the Old Babylonian Nippur tradition the section ^{giš}Su₂-a immediately followed ^{giš}gu-za.

- The word $^{gi\check{s}}\check{s}u_2$ -a is rendered *littum* (stool) in bilingual versions. The reading of the word is indicated by the earlier spelling $^{gi\check{s}}\check{s}u_4$ -a (see Van de Mieroop 1987, p.152 and Steinkeller 1980, p.97f. n.40). The Emar lexical fragment Msk 74107u (*Emar* 6/4, p.64f. text E) provides a gloss: li-i \check{s} - $\check{s}a$:: $^{gi\check{s}}\check{S}[U_2$ -A]. It must be assumed that li-i \check{s} glosses gi \check{s} here (note that at other places in the Emar text gi \check{s} is glossed ni- \check{s}) and that $\check{S}U_2$ -A was read / $\check{s}a$ /. The reading of the word is complicated by the fact that later sources often use a ligature or complex sign ($^{gi\check{s}}\check{S}U_2$ +DI $\check{S}xA$ in Msk 731030 = *Emar* 6/4, p.62 text A; $^{gi\check{s}}\check{S}U_2$ +A in first millennium texts, see *MSL* 5, p.161). Old Babylonian lexical texts write the two signs separately.
- The gis Su₂-a-nagar (carpenter's stool) is not known from later sources, which all have the stool of the barber (su-i) instead (*Emar* 6/4, p.62, 64'; *MSL* 5, p.161, 132; *PBS* 12/1, 17, r11). The Nippur text is here based upon one source only (Ni II-053).
- For the reading giš- nu_2 (not giš nu_2) see Steinkeller 1980, p.79 n. 1.
- 217 The reconstruction of this line is based upon partially preserved signs in Ni I-05. Only the upper part of each sign is visible. The line is paralleled in *PBS* 12/1, 17 r22 (Middle Babylonian Nippur) and in first millennium ur₅-ra 4 (*MSL* 5, p164, 149). In Emar the sequence

giš-nu₂-zi-ga; giš-nu₂-gu₂-zi-ga (*PBS* 12/1, 17 and *MSL* 5, p.164) has been reinterpreted as giš-nu₂-zi-ga; giš-nu₂-nu-zi-ga, (*Emar* 6/4, p.62, 75'-76') thus conforming to a well-known pattern in lexical texts.

- The length of the gap in the reconstructed text is estimated on the basis of Ni I-08. After $[^{gi\bar{s}}gi]r_3$ -gu[b- d lama] (line 212) approximately nine lines are completely lost. The next identifiable line is giš-nu₂-u[r₄-ma]. This line therefore receives the standard line number 222. The line is duplicated by line three in Ni II-052. The first line in Ni II-052 is, therefore, standard line 220, and a gap of two lines (218-219) remains in the reconstruction.
- **227** The item is rendered *giltû* in Akkadian (see MSL 5, p.161, 124 and p.166, 170). It is assumed that the Akkadian is a loan from Sumerian, pointing at the reading giš-di₅ (see Selz 1995a, p.268 and p.271).
- All that has been preserved of this item is $^{gi\check{s}}$ i-[] in Ni I-08. The item may be found in various spellings: $^{gi\check{s}}$ i-zi-nu₂; $^{gi\check{s}}$ ezen-nu₂ (see *MSL* 5, p.166, 172 and p.160 note to lines 121-128). Emar has $^{gi\check{s}}$ i-izi-gu-za (*Emar* 6/4, p.61, 54'; the corresponding item in the giš-nu₂ section is lost). In *KBo* 26, 5 Ci, 24' read probably [$^{gi\check{s}}$ i]-zi-nu₂. The word has been discussed by Selz 1995a, p.268.
- **229-230** The reverse of Ni II-082 is very difficult to read. It provides the only connection in the Nippur sources between the sections giš-nu₂ and giš dilim₂. After giš sag-n[u₂] (226) Ni II-082 has three unidentified lines, followed by the section giš dilim₂. The first item of this section therefore has line number 230 in the reconstructed text. This reconstruction implies that one line is entirely missing in the standard text (line 229). Since all other traditions include here an item giš umbin-nu₂, it is assumed that this item is to be restored in 229.
- The reading emerah for ^{giš}UD-SAL-HUB₂ is found in Diri II, 272 and Diri Ugarit II, 168. ^{giš}Emerah is a wooden bowl, see Civil 1989a, p.58 n.40. In the Emar giš list the word is spelled ^{giš}SAL+HUB₂ (*Emar* 6/4, p.62, 99'ff.). For this spelling see Sallaberger 1993, p.238. The items 243-244 are only found in Ni II-082. The writing on this tablet is badly preserved and the reading of the lines is accordingly uncertain. Ni II-056 has only one ^{giš}emerah item.
- This line is attested only in Ni II-056. No satisfactory reading has been found.
- Ni II-053 rIV01 has $^{gi\dot{s}}u_3$ -[]. The last legible line in column three was $^{gi\dot{s}}$ emerah (242). No more than 5 lines are missing at the end of this column. Since line 248 in the present reconstruction is a line beginning with $^{gi\dot{s}}$ kun₄, we must assume that Ni II-053 either has left one or two items out (lines 243-244 are left out by Ni II-056), or that the column continued with one or two extra lines on the lower edge. In any case, the line number of this item in the reconstructed text can hardly be higher than 250, and no more than one line is entirely missing.
- Very little of this line has been preserved. The item ^{gis}SUH -kun $_4$ is expected here, and the traces do fit a reading S[UH-].

- There are various writings for the word bugin (bucket, trough), which appears both as ^{giš}bugin and as ^{gi}bugin. The most common spelling is bugin(LAGABxA). In first millennium lexical sources the word is usually spelled bugin₂(LAGABxGAR). The Emar sources (*Emar* 6/4, p.63, 115'ff.) have bugin₄(LAGABxU.A). For other references see *PSD* B sv.
- The item gis bugin-ZU-bar-ra is found in only one Nippur source (Ni II-053). In addition it is attested in the Emar version (*Emar* 6/4, p.63, 118'). In first millennium ur_5 -ra 4 the item appears as gis bugin₂-ŠID-bar-ra = muhhusu (MSL 5, p.170, 238). The corresponding item in ur_5 -ra 9 (reed objects) is written gi bugin₂-KU-bar-ra = muhhusu (MSL 7, p.46, 217).
- **255-260** Ni II-219 obverse consistently writes ^{giš}naga₂(KUM); Ni II-053 reverse ^{giš}naga₃(GAZ). Ni II-082 is too damaged to decide. The reading esir-e₃-a (not esir-had₂-du-a) in line 258 appears from the writing esir₂-e₂-a in early Isin administrative texts (see Van de Mieroop 1987, p.138). *Emar* 6/4, p.63, 124' is to be corrected accordingly. ^{giš}Naga_{2/3} means mortar (*CAD esittum* is to be corrected); ^{giš}gan-na is pestle (Steinkeller 1989, pp.36-38).
- **261-320** Section boats. Nautical terms have been discussed by Klein 1990 and Römer 1993. The ^{giš} gisal or oar is not found in this section of the list but appears among the varia in lines 645-647.
- **261-261a** ^{giš}ŠU.DIM₂ is glossed gi-ra-ah in Proto-Diri 216 and rendered *suppin itinnim* (see also ur₅-ra 4, 251 *MSL* 5, p.172). *Suppinnu* is a tool. The entry is translated as 'house builder's trowel' in *CAD* I/J, p.296. In administrative texts ^{giš}ŠU.DIM₂ is listed with ^{giš}eme-sig and other materials in boat-building texts, see Römer 1993, p.376 with references to earlier literature. The additional line 261a is only attested in Ni P-06 which clearly has two lines ending with []-DIM₂. One of these must be [^{giš}ŠU].DIM₂. The other is probably to be read [^{giš}me-te]-šidim, or [^{giš}me-ta]-šidim as in NP I-02 ii22'. See also *MSL* 5, p.171, 250.
- This item does not appear in later sources, nor in the literary texts discussed by Klein (1990) and Römer (1993). A word u_{2/3/5}-zi-pa-ah is unknown to me.
- **308-313** The items gis ma₂-du₃ (a part of a ship) are followed by gis durgul (mooring pole, or mast). In later cuneiform durgul is written consistently MA₂.MUK. In Old Babylonian writing the spelling MA₂.DU₃ is equally possible (e.g. Proto-Diri 178; Sjöberg 1993, p.5, 24). The latter writing is used in the Nippur giš list so that there are two sections gis MA₂-DU₃. The durgul items are found in a somewhat garbled form in the Emar version (*Emar* 6/4, p.64):
 - 164' giš dah-gul-ma2-da
 - 165' ^{giš}an-tag-dah-gul-ma₂
- 316 The variants $^{gi\bar{s}}$ sig-zi-gan and $^{gi\bar{s}}$ UMBIN-zi-gan indicate a sig_x reading for UMBIN. See for this reading the commentary at lines 682-683.
- **321-325** Lines 321-325 list words for 'staff'. In recent literature the complexes $^{(gi\S)}$ ENxKAR₂ and $^{(gi\S)}$ U.ENxKAR₂ have been read in various ways. Van Dijk (1966, pp.70-73)

argues that the two terms refer to 'insignia regalia'. Where both appear together, according to Van Dijk, they have to be read šibir₂ (staff) and eškiri (nose-rope) respectively. Where /šibir/ appears alone it may be written either way (ENxKAR₂= šibir₂ or U.ENxKAR₂ = šibir). The problem with this solution is that all lexical evidence, Old Babylonian as well as post-Old Babylonian, agrees that the regular spelling for both eškiri and šibir is U.ENxKAR₂. Van Dijk's reading ENxKAR₂ = šibir₂ is based on a single gloss (*CT* 42, 4, I 17). Later commentators accepted Van Dijk's interpretation of the two terms as regalia, but read enkar (ENxKAR₂) and šibir (U.ENxKAR₂), e.g. Charpin 1986, p.275, 21-22. The word enkar is usually understood as the equivalent of an/en-kar₂ in the Gudea cylinders and translated as 'enkar weapon'. Klein (1976, p.285) rightly comments that the reading enkar is doubtful. It appears in only one source of Proto-Ea (UM 55-21-47; see *MSL* 14, p.48, 417a-b with footnotes). Dr. H.L.J. Vanstiphout kindly collated UM 55-21-47 for me, for which I wish to express my sincere thanks. The ENxKAR₂ passage on this tablet reads as follows (see *MSL* 14, p.48, 417-418):

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3' ¶ bu-ru ENxKAR<sub>2</sub>
4' ¶ geš-ši-ir ENxKAR<sub>2</sub>
5' en-kar<sub>2</sub> ENxKAR<sub>2</sub>
6' ¶ eš-gi-ri U. ENxKAR<sub>2</sub>
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Line 5' is not introduced by the single vertical (here represented by ¶). The significance of this fact is not clear. In *MSL* 14 it was interpreted to imply that 4' and 5' belong together, representing one line on the tablet. This is implausible because the sign ENxKAR₂ is found in both. The omission of the vertical may be a simple error. I am inclined to explain the en-kar₂ gloss here as a theoretical elaboration, rather than as a genuine sign value. It represents an analysis of the components of the sign in question. The reading of gi[§]ENxKAR₂ must remain open. The complex is not found in Diri.

The reading ^{giš}Sibir for ^{giš}U.ENxKAR₂ in this context may be taken as certain. In the corresponding passage in first millennium ur₅-ra 4 one source has the gloss ši-bir, and the item is rendered in Akkadian as *šibirru* (*MSL* 5, p.185, 429). In Emar the passage reads as follows (*Emar* 6/4, p.64):

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184' <sup>giš</sup>EN
185' <sup>giš</sup>gag-EN
186' <sup>giš</sup>gag-KA
187' <sup>giš</sup>ka-bar
188' <sup>giš</sup>ZU-HUL
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Lines 184'-185' correspond to the ^{giš}ENxKAR₂ lines in the Nippur text (321-322). The omission of the inscribed KAR₂ is either an error (ancient or modern), or represents an abbreviated writing. More troublesome is line 186'. It is probably to be read ^{giš}gag-kiri₄, and argues for a reading ^{giš}eškiri (etymologically equivalent to eš₂-kiri₄) for ^{giš}U.ENxKAR₂ in the Nippur version (323-324). In our reading we have favoured the first millennium gloss over the rather unreliable Emar tradition. The Emar entry ^{giš}ka-bar is equivalent to ^{giš}kab-bar (another word for a shepherd's crook) in the Nippur text (line 325). Very probably, ^{giš}ZU-HUL (Emar line 188') is equivalent to ^{giš}sa₃-hul₂ in the Ugarit version (Thureau-Dangin 1931, Pl XLVIII no. 4 reverse ii, 1'; duplicate Thureau-Dangin 1932, p.235 no.10 rev. i 9'). In another part of the Emar giš list ša₃-hul₂-la is rendered *kaparru* (*Emar* 6/4, p.78, 488'). The same word very probably appears as ^{giš}ša₃-hi-li-a in the following passage in NP P-01 (§5.6.1):

```
vii37 <sup>giš</sup>ENxKAR<sub>2</sub>
vii38 <sup>giš</sup>gag-ENxKAR<sub>2</sub>
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- vii39 ^{giš}šibir vii40 ^{giš}gag-šibir vii41 ^{giš}ſša₃¬-hi-li-a vii42 ^{giš}ka-bar
- **326-346** Section chariot. The vocabulary of the chariot has been discussed by Civil (1968) and Klein (1989). The passage is discussed in §3.2.1 of the present study.
- 329 The word $^{gi\check{s}}SUM.KI.A$ -gigir (with variant $^{gi\check{s}}KI.A$ -gigir) is not known to me outside the Nippur list.
- 335 Ni II-082, a teacher's model text, has $^{gi\delta}$ sag-BAL-gigir instead of $^{gi\delta}$ sag-kul-gigir. BAL has a value kul_x, but this is otherwise restricted to third millennium texts (see Steinkeller 1991). Perhaps the teacher deliberately employed an archaic sign value.
- **340-341** Ni II-095 has the variant gis nir-gigir for gis sudul-gigir. Nir represents the Akkadian translation of sudul ($n_ru = yoke$).
- **347-350** The section ^{giš}usan₃ (whip) is not found in first millennium ur₅-ra. It does appear in the Middle Babylonian Western traditions, between the ^{giš}šid items and the section ^{giš}mar-gid₂-da (Ugarit: see *MSL* 6, p.11: V1; Emar: *Emar* 6/4, p.67, 37-42).
- **351-353** The reading ^{giš}gag-sal₄ for ^{giš}gag-QA is suggested by the variant spellings ^{giš}gag-QA-la₍₂₎ and ^{giš}gag-SI-la₂. See Durand 1979, p.167, and Van de Mieroop 1987, p.143.
- **354-356** The variant DU_{10} for GAG demonstrates that GAG should be read du_3 . See for this word Civil 1968, p.8 and Steinkeller 1990, p.23.
- **357a** There is no section listing varieties of the ^{giš}mar-gid₂-da, except for this additional line that is found only in Ni P-06. Unfortunately the end of the line is missing. Most probably it is to be read ^{giš}mar-gid₂-da-[su-bir₄^{ki}]. See Is I-01 and NP P-01 (both edited in §5.6.1).
- The variant DU₃ for za-ra in Ni II-095 may be read zara_x. See Civil 1968, p.8.
- **366-367** There is no Nippur text which has the common writing $\S U_2$ -DUN₄ = $\S U_3$ -DUN₄ = $\S U_4$ -DUN₄-
- 372 In the late redaction of ur_5 -ra this item is found as g^{ii} nam-hara_x-mar-gid₂-da = nam-ha-ru- u_2 (MSL 6, p.13, 88). The prolonged vowel of the Akkadian rendering is a common indicator used for loans from Sumerian. In CAD N the word namhar \hat{u} , for which the meaning 'shaft of a wagon' was proposed, is therefore distinguished from the genuinely Akkadian namharu, which is a kind of vessel. However, in Old Babylonian ur_5 -ra the wagon part is spelled

Akkadian *namharum* is found in various spellings in third millennium Sumerian texts (^{dug}nam-ha-ru-um; ^{dug}nam-hara₄; ^{dug}ma-(an)-hara₄; see Sallaberger 1996, p.73f. and p.104). It is more likely, therefore, that the vessel and the wagon part are identical, or have at least the same Akkadian etymology. The spelling *nam-ha-ru-u*₂ in first millennium ur₅-ra may be artificial, to give the word a Sumerian flavour. What 'vessel of a wagon' means is not clear to me. In the Mari texts edited by Guichard 1994 vessels are found among the equipment of wagons.

For the reading en₃-dur (rather than li-dur) see *UET* 7 93, 17: en₃ en-dur.

LAM in Ni II-083 is an error for SIG-LAM = šeš₂.

378 The entry $^{gi\dot{s}}$ ig-li is equivalent to $^{gi\dot{s}}$ ig-li-u₅ in the later tradition (*MSL* 6, p.23, 210). The item means 'door made of a wooden board', which is suitable in the context. It is followed by $^{gi\dot{s}}$ ig-dib-(ba) and $^{gi\dot{s}}$ ig-suh₄: a door made of a wooden board and a door made of reed matting respectively. See also at line 463 ($^{gi\dot{s}}$ li-apin).

380a-381a Ni II-137 has a number of variants in the section ^{giš}ig. The tablet includes some unique entries and has deviations in the order of the lines. Line 380a: ^{giš}ig-pa-pah (door of the cella; see Prang 1976, p.25) is written ^{giš}ig-pa-pa-ah in the later tradition. The item ^{giš}ig-ba-ša₃-ga is not understood.

388 The reading suku₅ for SUH appears from the Akkadian rendering $\check{s}uk\hat{u}$ (door pole) in the late version (*MSL* 6, p.26, 252). It is confirmed by the Emar entry $\check{s}uk(PAD)$ - $^{gi\check{s}}ig = \check{s}uk\hat{u}$ (*Emar* 6/4, p.71, 219').

394-394b In the Nippur giš list the word GIŠ.ŠU.DI.EŠ = $^{gi\delta}$ suhub₄ (latch) is found either as $^{gi\delta}$ suhub₄ or as $^{gi\delta}$ suhub₄-ig. Ni II-137 has 394 $^{gi\delta}$ ŠU.DI-ig; 394a $^{gi\delta}$ ŠU.DI. ŠU.DI is either an error for suhub₄ or an abbreviated writing. Is I-03 (§5.6.1) has the sequence 394 $^{gi\delta}$ suhub₄(ŠU.DI.EŠ); 394b $^{gi\delta}$ ŠU.GA. In Proto-Diri GIŠ.ŠU.GA is found immediately after suhub₄:

214 sú-hu-ub GIŠ.ŠU.DI.EŠ(suhub₄)*me-de-lum*

215 sú-hu-ub GIŠ.ŠU.GA(suhub₅) na-ap-ra-kum

GIŠ.ŠU.GA and GIŠ.ŠU.DI.EŠ share the same Sumerian reading gloss but are provided with different Akkadian renderings. The reading suhub₅ for GIŠ.ŠU.GA is not confirmed anywhere else. The late versions of Diri and ur₅-ra agree in reading ^{giš}sahab(ŠU.DIŠ) = *m_delu* and ^{giš}šu-gi = *napraku* (*MSL* 6, p.28 267-268; Diri II, 268 and 271). The two items seem to correspond to 226' ŠU.<DI>.EŠ; 227' šu-kam₂-ma in the Emar text (*Emar* 6/4 p.71 with Civil 1989, p.12). One could entertain the possibility that suhub/sahab; šu-ga/gi (with the Emar variant šu-kam₂-ma) are historical or orthographical variants of the same word, with alternation /s/ and /š/ and of /h/ and /g/. In a Susa lentil, published by M. Lambert (1975, p.45), the word is spelled ^{giš}ŠU.SI.SA₂-ig and glossed on the reverse za-he₂-ab-ig.

407-408 With line 406 the section doors and locks ends. Lines 407-408 begin the section looms and related wooden objects. Both entries are badly preserved. Enough remains to make plausible the reading ^{giš}TAG; ^{giš}TAG.TUG₂. ^{giš}TAG has a reading ^{giš}šerim, and refers to a part of

the loom (*MSL* 14, p.414, 243; see Waetzoldt 1972, p.135). The complex TAG.TUG₂ or TAGxTUG₂ is well known with the determinative for divinities, read ^duttu, the goddess of weaving. In Ni II-232 the item is found as ^{giš}TAG-ŠU-ma. The ŠU is no doubt a malformed TUG₂. The ending -ma suggests that TAG-TUG₂ is to be read šerim_x. TAG-TUG₂ is the spelling for *sis_tum* in Emar (see *Emar* 6/4, p.72 249'-252' with Civil 1989, p.12). In first millennium ur₅-ra TAGxTUG₂ is glossed še-ra (*MSL* 6, p.31, 300).

- 409 The line $^{gi\$}$ kur-ra is found in Emar as $^{gi\$}$ kur₄-ra (*Emar* 6/4, p.72, 246'), with the Akkadian rendering *i-si ku-ra*. The Ugarit text cited in *MSL* 6, p.32 note to 307a is therefore to be read $^{gi\$}$ ku-ra (not dur₂-ra). The meaning of the word in this context is not clear. See for lexical references $CAD \ k_ru \ C$.
- 410 The word ^{giš}nu-ra is found in other versions of the giš list as ^{giš}nir-ra (Old Babylonian: Ur I-01 rII40'; *Emar* 6/4, p.72, 247'; *MSL* 6, p.32, 308-311). The line in question in Ni II-137 is difficult to read. A reading ^{giš}nu-ra is excluded but ^{giš}nir-ra seems possible. That Nippur ^{giš}nu-ra is equivalent to ^{giš}nir-ra may be argued from the correspondence with the Middle Babylonian versions:

Nippur Emar 6/4, p.72, 246'f. Ugarit (MSL 6, p.32) 409 giš kur-ra giš kur₄-ra giš nir-ra giš nir-ra

The reading gišsir5(NU)-ra is to be rejected. The evidence for a reading sir5 for the NU sign is circumstantial and has not been confirmed by lexical evidence or glosses (see Jacobsen 1982, p.136).

- **411-413** The items ^{giš}il₂-il₂, ^{giš}bar-bar, and ^{giš}tug₂-tug₂ are found in Ur III weaving texts and are discussed by Waetzoldt (1972, pp.135-136; the word read ^{giš}ku-ku by Waetzoldt is probably identical with our item ^{giš}tug₂-tug₂). The variant ^{giš}ALAN-i[l₂] (Ni II-241) for ^{giš}il₂-il₂ is to be read ^{giš}al₂-il₂ (see the commentary to line 51a). It may be significant that these three words all consist of a reduplicated stem. Waetzoldt adduced literary evidence to demonstrate that ^{giš}barbar is the shuttle. Here the reduplication may be due to the repetitive character of the movements of the shuttle in weaving. A similar explanation may be valid for the other two items.
- 414-416 The ^{giš}(nig₂)-gi-na is known from Ur III administrative texts and is probably the cloth beam (see Waetzoldt 1972, pp.133-135; Freedman 1977, p.16). The other beam (warp beam) is probably called ^{giš} sag-du. It is remarkable that the latter term is absent from the list. The word is found in the version from Ur (Ur I-01 rII34'). The items ^{giš} nig₂-zu and ^{giš} nig₂-menbulug₂ are not known from the administrative texts. For the value menbulug₂ of the sign BULUG over BULUG see, for instance, Proto-Ea 804 (*MSL* 14, p.61). The item ^{giš} nig₂-menbulug₂ is written ^{giš} me-bulug₂ in the late tradition (*MSL* 6, p.33, 313 with note). It is rendered in Akkadian as *pallukku* (for references see *AHw* sv). Etymology and sign form point at a meaning 'two bulugs' for menbulug₂. Bulug is a needle (Akkadian *pulukku*). The nature of the relation between Akkadian *pallukku* and *pulukku* on the one hand and Sumerian bulug on the other is unclear. In post-Old Babylonian texts the Sumerian word may be written with the BAL sign (*Emar* 6/4, p.68, 68': nig₂-bal; *MSL* 6, p.33, note to 313: Sultantepe text: giš-BAL over BAL). This spelling, however, may have been influenced by the phonological shape of the Akkadian word.

418-425 gis Ga-rig₂ is comb and gis bal is spindle. The two additional items 421a and 424a are both found in Ni II-137, a text with numerous deviations. Unfortunately line 421a is unclear. Expected is gis kul-bal, an item found in various other traditions (*Emar* 6/4, p.68, 78' and *MSL* 6, p.52, 27). The traces do not exclude a reading gis KU-bal.

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In Ni II-173 the sections <sup>giš</sup>LAGAB, <sup>giš</sup>BU (426-432) are found as follows:
426-432
426
               giš [LAGAB]
       rII18
427
       rII19
               giš L[AGAB]
428
               giš LA[GAB]
       rII20
               giš LA[GAB]
       rII21
               giš LA[GAB]
       rII22
       rII23
               giš LA[GAB
431
       rII24
               giš BU
432
       rII25
               giš BU
```

There are three extra ^{giš}LAGAB items whereas two of the ^{giš}BU items are missing. It is assumed that the junior scribe lost track of the number of LAGABs and BUs he had to write. For this reason the extra LAGAB items have not been treated as variants in the reconstructed text. They are not included in the score.

426-428 In Nippur Proto-Diri there is one line GIŠ.LAGAB which is rendered *pukkum* (probably a ball) but has no gloss. In first millennium Diri II 295-297 there are three lines, all glossed el-lag, with the Akkadian renderings *pukku*, *mekkû* (driving stick for the ball) and *atartu* (wheel). The passage is duplicated in first millennium Ea (*MSL* 14, p.177, 35-37; see the corresponding passage in Aa *MSL* 14, p.210, 69-74). Other glosses are found in the canonical version of ur₅-ra (*MSL* 6, p.54, 43-45):

```
giš <sup>il-lag</sup>LAGAB pukku
giš <sup>gi-iš MIN</sup>LAGAB mekkû
giš <sup>il-lag</sup>LAGAB atartu
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Here a distinction is made between $g^{i\dot{s}}$ ellag = pukku and $g^{i\dot{s}}$ -ellag = $mekk\hat{u}$ or atartu. This distinction, however, seems to be artificial, the more so since the passage belongs to a section where this same pattern of glosses is found for various entries. In each case one entry has three Akkadian renderings. The first and the third line have the simple gloss, the second line the same gloss preceded by g^{i-1} .

The three LAGAB entries in the Nippur giš list may therefore be read ^{giš}ellag. This interpretation is not confirmed, however, by the Middle Babylonian tradition. The glosses in the Emar version are rather curious. The passage reads (*Emar* 6/4, p.68, 88'-90'):

```
lu-uk-ki-iš
LAGAB pa-ak-ku
lu-uk-ki-iš
LAGAB pi-ik-ku
la-ga-me
LAGAB ha-at-tu u<sub>3</sub> [
```

If the lu-uk-ki-iš glosses somehow represent ellag, it seems that we have here another instance of determinative inversion (lug-giš for giš-lug). See Civil 1989, p.14, commentary to line 498' for a comparable example in the same text. The gloss la-ga-me represents the reading lagab. The Akkadian pi-ik-ku may be a simple error for $mekk\hat{u}$. It should be noted, however, that the equation $^{gi\hat{s}}$ ellag = $mekk\hat{u}$ is restricted to lexical texts and is a priori rather unlikely. It makes little sense to call two closely related objects by the same name.

The section ^{giš}BU is discussed in §3.5.2. 429-435a

The reading giš-bu; giš-bu-gima-an-sim is suggested by the unprovenanced text 434-435 NP P-02, which has giš-bu₁₀(DIM₄); giš-bu₁₀(DIM₄)-^{gi}ma-an-sim. The reading giš-bu₁₀ for GIŠ.DIM₄ is attested in Diri III 1. Some of the Nippur sources have the variant reading ^{gis}gi-bu; gi-bu-gi-ma-an-sim (Ni I-10 and Ni II-173; see also Ur I-01).

The corresponding section in the late version of ur₅-ra 6 has been reconstructed as follows (MSL 6, p.59):

97 [gi]š-bu₁₀ [kip]-pa-tum 98 [giš-b]u₁₀-ba-an-du₈ MIN na-pa-tum 99 giš-gur₂ kip-pa-tum giš-gur₂-ba-an-du₈ MIN na-pa-tum 100

Kippatum is a well-known rendering of gur₂, meaning circle. In the present context it probably refers to the wooden brim of a circular object. The Akkadian na-pa-tum is not known as a rendering of ba-an-du₈. Comparison with the Old Babylonian parallels demonstrates that the entry is a corruption for giš-bu₁₀-ma-an-sim = kippat napp_tim: brim of a sieve. This reconstruction is confirmed by a new source for ur₅-ra 6 and by the Emar version. NBC 10915 is a unilingual text, probably of Kassite date. The relevant passage reads:

97

 $^{gi\check{s}}gur_2$ $^{gi\check{s}}gur_2$ -ma-an-sim 98

99 giš-bu₁₀

100 giš-bu₁₀-ma-an-sim

For the Emar text see *Emar* 6/4, p.68, 100' with Civil 1989 p.14.

435a This line appears in only two sources, one from Nippur (Ni II-022) and one from Ur (Ur I-01). In both cases it replaces line 435. The line reads giš-bu-ŠID in Ni II-022 and giš-gibu-ŠID in Ur I-01. This is the same variation as found in lines 434 and 435 (see above). The meaning and reading of SID remains unclarified.

436-441 The reading giš-rin₂ is found in Diri III, 20: giš-ri-in GIŠ.ERIN₂ gišrinnu (balance).

437 For the reading lib-bi of LUL-bi see Cavigneaux 1992.

442-495 The ancient agricultural terminology has recently been discussed by Civil (1994) and by Hruška in numerous contributions, now summarized in Hruška 1995. Hruška kindly made available to me his paper delivered at the Berlin Rencontre Assyriologique Internationale (1995) entitled 'Die Arbeitsgeräte in der altsumerischen Landwirtschaft.' It is a pleasure to be able to acknowledge my gratitude here.

First millennium ur₅-ra 5, 117-118 has ^{giš}apin-šu-du₇ (= *šuklulu*) and ^{giš}apin-nu-444-445 šu-du₇ (l MIN) (also Emar 6/4 p.69, 128'f.). The Old Babylonian Nippur texts have the better Sumerian giš apin-šu-nu-du₇. One Old Babylonian text has giš apin-nu-šu-du₇. Unfortunately its provenance is unknown (NP I-03; edited in §5.6.2)). The expression šu nu-du₇ also appears in other Nippur lexical texts (Proto-Izi II and Nigga).

- 446 The tug_2 -sig₁₈(KIN) plough (a kind of breaking plough) is discussed by Civil (1994, pp.167-171).
- **451** The $^{gi\check{s}}$ ka- $\check{s}u_2$, according to Civil (1994, p.80), is a part used to attach the seeder funnel to the plough.
- **452a** This item is found in a minority of sources and is nowhere completely preserved. It is found as igi-kal-MIN(=apin) in *Emar* 6/4, p.70, 151'. It is rendered there $\check{s}i$ -'-u. In the late version ${}^{gi\check{s}}$ igi-gal₂-apin is rendered $nabr_tu$ (MSL 6, p.18, 151).
- 453 For the ^{giš}nig₂-kud see Civil 1994, p.84 (probably a wedge used in the construction of the plough).
- **457-458** The item ^{giš}nig-apin is found in Middle Babylonian versions from Ugarit, Emar, and Nuzi (see Veldhuis 1996) but not in the first millennium recension. It is translated *kalbatum* in the bilingual Emar text. The Akkadian word is found in the mur-gud commentary to ur_5 -ra 11: ur_5 -ra 11: ur_5 -ra 11: ur_5 -ra 13: ur_5 -ra 14: ur_5 -ra 15: ur_5 -ra 16: ur_5 -ra 16: ur_5 -ra 17: ur_5 -ra 17: ur_5 -ra 18: ur_5 -ra 18: ur_5 -ra 18: ur_5 -ra 19: ur_5
- **460ab** The entries gis muš-apin and gis gag-muš-apin are found on only one Nippur tablet. They do appear, however, in the recension from Ur (Ur I-01). NP U-01 includes gis muš-apin. In the Nippur tablet the items seem to replace gis šudun-apin and gis gag-šudun-apin. The word gis muš-apin further appears in the bilingual Emar version (*Emar* 6/4, p.70, 154'f.). The Akkadian rendering, 5i-x-[], is not helpful.
- **463** giš Li-apin corresponds to giš li-u₅-(um)-apin (board of a plough) in later sources (*Emar* 6/4, p.70, 156'; *MSL* 6, p.17, 141). See also the commentary at line 378 above (giš ig-li). Note that in all sources of the 'Farmer's Instructions' the word is written giš li-um (see Civil 1994, p.214, 45).
- The ^{gis}gan-ur₃ (harrow) and its parts have been discussed by Civil 1994, p.77f.
- 474 The word gis da-an-ga is also found as gis dam-ga, but is distinct from gis dam. Both gis dam and gis da-an-ga appear in the literary composition 'Lipit Estar and the Plow' (Civil 1994, p.81 and p.102 note 55).
- **479** $g^{i\dot{s}}$ al-šub is a kind of hoe, in later sources incorrectly written $g^{i\dot{s}}$ al-u₃-šub (see the discussion by Civil 1994, p.149).
- **483-514** The sections $^{gi\dot{s}}u_3$ -šub (brick mould), $^{gi\dot{s}}$ gag (device for harvesting; stick for uprooting plants), $^{gi\dot{s}}$ zi-ri₂-qum, (irrigation device), $^{gi\dot{s}}$ tukul (mace), and $^{gi\dot{s}}$ dur₂ (bottom board) have been discussed in some detail in §3.2.2.1-§3.2.2.3 of the present study.

- The section 'measuring vessels' begins with $^{gi\bar{s}}$ lid₂-ga, with the variant $^{gi\bar{s}}$ lid₂-da (or $^{gi\bar{s}}$ li₂-da). See for this word Civil 1976c, p.76. In Emar the word is replaced by the entry u DIŠ = litiktu (Emar 6/4, p.73, 274'), corresponding to $^{gi\bar{s}}$ du₈-du₈ in the Ugarit text RS 13.053 (see Veldhuis 1996) and $^{gi\bar{s}}$ ŠA₃.DIŠ = litiktu in the late version (MSL 6, p.103 225). In first millennium texts $^{gi\bar{s}}$ ŠA₃.DIŠ is glossed lid-da, which may easily be understood as a development from earlier lid₂-ga. The reading du₈-du₈ or du-ut-tu in the Middle Babylonian Western sources remains unexplained.
- **518** This line parallels BM 76494 rev. line 9: $^{gi\$}$ ban2 $^{MIN (= ba-an)}$ -5-sila3 (George 1992, Plate 14). The new BM text restores ur₅-ra 7, 235 (*MSL* 6, p.104).
- **527-535** For the passage gis sa there are only two sources: Ni II-173, and Ni I-05. The two overlap in line 533: gis sa-hir. Lines 532-535 are incompletely preserved but may be restored from the gis sa sections in other lexical sources. The best parallels are found in the Old Babylonian bilingual Lu lists A and C₆ (*MSL* 12, p.170f. and p.196).
- The item was read gis sa-zal in MSL 6, p.66, with reference to the item gis sa-sal in the first millennium text. This correspondence, however, is unlikely. In MSL 12, p.196, 18 (with parallel in MSL 12, p.171, 438) lú sa-NI is equated with $\dot{s}a$ sisimtim, whereas gis sa-sal is rendered pasuttum and $\dot{s}alh\hat{u}$ (MSL 6, p.68, 176-179 and p.78, 35-36). The reading of NI remains unknown.
- The reading ellag₂(BIR) in gis ellag₂-du is now confirmed by the Akkadian rendering in the Emar version: ellag₂-du₃ = il-la-an-du-u (Emar 6/4, p.74, 311'; with Civil 1989, p.14).
- **541-541a** The expression šul ka-tar-ra is rendered *etlu muttallu* ('awe inspiring young man'; see Attinger 1993, pp.569-570). A wooden object of this name is otherwise unknown to me. In Ni II-154 there is only one sign between GIŠ and TAR, but the beginning of this sign is unclear, perhaps erased (see the copy in *SLT* 23 Col 2, 1'). The sign may be a damaged ŠUL. The entry ^{giš}šul-HAR-tur-re (541a) is found in only one Nippur source (Ni I-05).
- Unclear. The item is spelled ^{giš}šu-uš (Ni I-05) or ^{giš}šu-DU (to be read ^{giš}šu-ša₄?).
- There are two items $^{gi\dot{s}}$ igi-gal₂ in the Nippur gi \dot{s} list (see line 564). In late ur₅-ra we find three different translations on three different tablets of the series.

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Ur<sub>5</sub>-ra 4, 27-28 (MSL 5, p.152):
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gišigi-gal₂s addu sign/signal sigi-gal₂-bad₃ MIN d_ri sign on a wall

Ur₅-ra 6, 6 (*MSL* 6, p.51):

giśigi-gal₂ ammatum cubit

Ur₅-ra 7a, 105-106 (MSL 6, p.92):

giš igi-gal₂ MIN (= $mek\hat{u}$) ?

gišigi-gal₂-bad₃ MIN *d_ri*

In Middle Babylonian versions the items giš igi-gal₂ and giš igi-gal₂-bad₃ are listed among weapons

and rendered s*a-an-tum* (= s*addu*); s*a-am-mi du-ri* (Nuzi and Emar; see Civil 1976 and Civil 1987). The ur₅-ra 7a passage is found among siege engines. It may well be that the presence of the ^{giš}igi-gal₂ items in ur₅-ra 4 is secondary, attracted by the presence of other Sumerian words rendered s*addu* (lines 24-26).

544-548 This passage is treated in some detail in §3.5.2.

549 From Akkadian zamir_tum. In the five Nippur tablets where the item is extant there are 4 different spellings: giš za-mir-tum; giš za-am-ru-tum; giš za-mi-ru-tum; and giš za-am-ritum. This item occupies the same place as za-URU- $\delta a = a$ -za-am-ru in the Emar gi δ list (Emar 6/4, p.74, 325'), following giš dalla₂ and giš sukur (giš su-gur in Emar). The late version has giš sa₃-URU-DU = azmarû (ur₅-ra 6, 237 in MSL 6, p.73), again immediately following ^{giš}dalla₂ and giš sukur. Azmarû is probably the Akkadianized form of giš za-am-ri-tum, originally a loan from Akkadian to Sumerian. In MSL 6 the Sumerian was read gis sa₃-u₁₉(URU)-sa₄. However, an unpublished unilingual source for ur₅-ra 6 (probably Kassite) has ^{giš}za-ri₂-tum (NBC 10915). This demonstrates that in ur₅-ra 6 gis sa₃-URU-DU is to be read gis sa₃-ri₂-du = $azmar\hat{u}$. The Emar version, however, has a final syllable -ša, confirmed by a Nuzi parallel reading za-e-ri-za (edited in Civil 1987). The Middle Babylonian sources have confused the item with giš ša-u₁₈(GIŠGAL)ša (Nippur giš list 704). This item appears almost at the end of the Nippur list, and is found in Emar as za-URU-ša = sa-ba-[bu] in corresponding position (Emar 6/4 p.80, 573', with Civil 1989, p.14). The late version has $gis \times a_3 - u_{19}(URU) - sa_4 = sappu$, again in the final section of the gis chapter (ur₅-ra 7b, 304; MSL 6, p.135). Both in Emar and in the late version the items rendered azmarû and sappu respectively are spelled with the same graphemes. The material adduced in MSL 6, p.135 for a reading ^{giš}ša₃-u₁₉-ša₄ is valid for the items rendered *sappu*. The items rendered *azmarû* are to be read ^{giš}ša₃-ri₂-du and correspond to Old Babylonian ^{giš}za-am-ri-tum (and variants).

551a The item is known from one source only. The preceding item, gis gid₂-da (Akkadian *ariktu*), is a lance, but literally means 'long one'. The present item means 'short one'. This interpretation is confirmed by the parallel passage in *Emar* 6/4, p.74, 329'-330'. There the item gis lugud₂-da is rendered *ku-ru-tum* ('short one'; *kur_tum* in standard Babylonian). See also *MSL* 7, p.144, 384: urud lugud₂-da = kur_tum .

552-554c The section $g^{i\dot{s}}$ illar (javelin; see Römer 1994 with previous literature) has three items recurring in most sources: $g^{i\dot{s}}$ illar; $g^{i\dot{s}}$ illar-

557-558 The items gis gag-pan and gis gag-si-sa₂ are probably synonymous. Both are used as Sumerograms for Akkadian \check{silt}_hu (arrow, or the constellation Arrow).

560-561 The item ^{giš}sa-ad (561) appears after the section nets (^{giš}sa) in the Emar version.

Emar 6/4, p.74, 309': sa-ad = na-as-sa3-pu. This line is equivalent to ur5-ra 6, 192: g^{is} sa-ad = nassapu. In MSL 6, p.70 the Sumerian was reconstructed as $[g^{is}$ sa-du3] on the basis of lines 193-195 which list various parts of the sa-du3. The Sumerian of lines 192-194 may now be restored from the unilingual Kassite tablet NBC 10915:

```
    192 giš sa-ad
    193 giš PA-sa-du<sub>3</sub>
    194 giš gur<sub>2</sub>-sa-du<sub>3</sub>
    195 giš eš-ad² (later text: eš-sa-du<sub>3</sub>)
```

In CAD N nassapu is translated as 'a net'. However, the position of the Old Babylonian item suggests that gi§ sa-ad = nassapu is not related to gi§ sa. The word gi§ es-sa-du₃ is rendered nahbalu (snare) in Akkadian (MSL 6, p.70 195; for other references see the lexical section of CAD nahbalu).

This section is discussed in some detail in §3.5.1.

576-577 These two entries have not been preserved in any Nippur source. Their reconstruction here, however, is very plausible for three reasons. First, this pair of items appears in the Middle Babylonian sources among the weapons (see the discussion by Civil 1987). It is further found in one Old Babylonian source of unknown provenance (NP P-02 col. IV 10-11'). In the Nippur weapons section this is the only place left. Second, in Ni II-131 only the determinative giš of the first item has been preserved, and of the second line only giš gag-[]. After the giš in the first item there is some blank space. This indicates that the list does not continue with the preceding giš KID- section, but rather introduces a new word. The reconstruction giš [u4-sakar]; gag-[u4-sakar] fits perfectly and is very apt. Third, the next two items of the standard Nippur text contain the SAR sign. The present reconstruction results in a sequence of four items containing this sign, which is a common compository technique in the lists.

578-579 The same two items, without the giš determinative, are found in Nigga 145-146 (*MSL* 13, p.100). The reading giš ni₃-sakar-bur₃-bur₃ is suggested by the corresponding Emar passage (*Emar* 6/4, p.75):

```
354' IM-sahar-ra is-ki-il-lu
355' IM-sahar-[bir-b]ir-ra MIN pal-[
```

The Emar and Nippur versions agree in placing these items immediately before the section giš mar. The sign IM in the Emar text is to be read ni₂. Line 355' in the Emar text is so damaged that even a reading ni₂-sahar-[bur₃-bu]r₃-ra is not excluded. The Akkadian rendering may then be restored *pal-[lu-šu]* as in *Emar* 6/4, p.79 519' (with Civil 1989, p.14): nam-gaz-nig₂-bur₃-bur₃-re = *ta-aš-šu pal-lu-šu*. *Pallušu* (*pullušu*) means perforated. The Nuzi version (SMN 2560; Lacheman 1939, p.90) displays the same order of sections in this passage. It includes the lines giš ni₂-sahar-ra and giš ni₂-sahar-ra-bur₃-bur₃ (correct accordingly *MSL* 6, p.160 16-17).

The spellings ni₃-sakar and ni₂-sahar are found side by side in late ur₅-ra 7a (*MSL* 6, p.92, 116-118):

```
116 giš ni<sub>3</sub>-sakar išqarurtu
117 giš ni<sub>2</sub>-sahar-ra MIN
```

118 ^{giš}ni₂-sahar-ra-bir-bir-ra MIN *purrurtu*

580-591 For gis mar = marru (shovel) see Civil 1994, p.57. I have no clue for the reading of ŠID in line 589.

592-594 The reading of ^{giš}BAD is very probably ^{giš}sugin. The Emar giš list has a similar passage (*Emar* 6/4, p. 75, 377'-379'): ^{zu-uk-ki-in}BAD *su-uk-ki-nu*

zu-uk-ki-inBAD su-uk-ki-nu zu-uk-ki-inBAD na-ta-pu zu-uk-ki-inBAD is la-[bi-ru]

This passage is found in the same context as the ^{giš}BAD entries in the Nippur version. The Emar reading of ^{giš}BAD is confirmed by Proto-Diri 170 which has GIŠ.BAD = *sukkinnu* (no reading gloss preserved). In first millennium Diri II the item has grown into a small section:

```
312 su-gi-in GIŠ.BAD sukkinnu
313 nut_pu
314 isu lab_ru
```

This section virtually duplicates the Emar text quoted above. *Isu lab_ru* means 'old wood'. A similar meaning can be assumed for *nut_pu*, a word only attested in lexical texts (see *CAD* sv). *Sukkinnu* or *sumkinnu* probably means rotten (wood); the same word is also used for cereals (see *CAD* sv *sumkinnu*).

In the first millennium tradition the passage is found in ur₅-ra 6 together with other repetitive items such as $^{gi\check{s}}$ ellag(LAGAB) and $^{gi\check{s}}$ BU (see §3.5.2 of the present study). Now there are six lines $^{gi\check{s}}$ BAD (*MSL* 6, p.56, 58-63):

```
giš su-munBAD
58
                                    sunginnu
         giš <sup>gi-iš MIN</sup>BADkilzappu
59
         giš su-munBAD
60
                                    nut_pu
         giš <sup>su-mun</sup>BAD
61
                                    bulû
        giš <sup>gi-iš MIN</sup>BADnigru
62
         giš su-munBAD
                                    isu lab ru
63
```

The distinction made here between ^{gi8}sumun (lines 58, 60, 61, and 63) and gi8-sumun (59 and 62) may well be artificial. The glosses follow a pattern that is carried out over several sections in ur₅-ra 6 (see the commentary to 426-428 above). In each case the gloss for item 1 equals the gloss for item 3. The line between has the same gloss preceded by gi-i8. Another difference with the passages from Emar and Diri is that BAD is read sumun or, in other sources, sun but not sugin. The readings sugin and sumun are closely related. They are treated together in Ea II, 83-84 (*MSL* 14, p.250):

su-mu-un BAD *su-um-ki-nu* su-gi-in BAD *su-um-gi-nu*

A few lines before, the more common rendering su-mu-un BAD *lab ru* is found (Ea II, 79).

Compared to the parallels in Emar and Diri II, three Akkadian renderings are new in ur₅-ra 6. *Bulû* is translated as 'firewood'; 'dry wood' (*CAD* sv). *Niqru* derives from *naq_ru* and is translated 'split wood'. Both words are extremely rare. *Kilzappu* (or *kissappu*) was recently discussed by Steinkeller (1990, p.20). One meaning of the word is 'threshing sledge', and in this sense it is found in the bilingual version of the 'Farmer's Instructions' as the Akkadian rendering of ^{giš}bad. The reading sumun, as indicated by ur₅-ra 6, is incorrect, because in the 'Farmer's

Instructions' 97 and 99 the word has a complement -ra₂, with variants -da and du₈ (Steinkeller 1990, p.19; Civil 1994, pp.94f. and 224-225).

The almost complete agreement between Nippur ur₅-ra, the Emar giš list and Diri II demonstrates that we have to read ^{giš}sugin three times. The threshing sledge (*kilzappu*) would have fitted well into the present context of agricultural implements but it is unlikely that it was included here. Its inclusion in late ur₅-ra was due to the fact that it is also written ^{giš}BAD. The pattern of glosses used in this section pushed aside the correct reading ^{giš}bad-(ra₂).

595-596 For ^{giš}dag-si and ^{giš}dag-si-e-ba-na see Civil 1987a, p.47 and Sallaberger 1995, p.20. According to Civil the dag-si is a part of the donkey's harness for hanging leather bags on. Note that the items seem to be out of context here.

597-619 Most of the musical instruments listed here have been treated by Krispijn 1990 and Kilmer 1995.

602 The signs sur₉ and sur₁₀ are described in Borger's ABZ as MA₂.KASKAL.SIG₇ and MA2.SIG7 respectively. According to Civil the Old Babylonian form of sur_{9/10} is BALAGxUZ₃ (MSL 14, p.512 note to line 151; see also CAD algarsurrû). The sign transliterated sur₉ is well preserved in Ni II-128 where it is clearly UZ₃.UD. This should be understood as UZ₃.ERIN₂. The partial signs preserved in Ni II-064 and Ni I-04 are compatible with this reading. The line in Ni I-04 clearly ends with ERIN₂. Similar or identical sign forms may be found, for instance, in 'Išme-Dagan V_A' line 14, texts A and B (Ludwig 1990, photographs on plates 4 and 6), and in the 'Curse of Agade' line 35 text Y₂ (Cooper 1983, photograph plate XIV). A particularly clear example of UZ₃.ERIN₂ has been copied in Heimerdinger SLFN plate 10: 3N-T901, 44 line 3 ('Curse of Agade' 35; Cooper's text Z₃). The sign ERIN₂ has a /sur/ reading, as demonstrated by Steinkeller 1990a. According to Steinkeller this value was transferred to LAL in the Old Babylonian period. We have to assume, therefore, that UZ₃.ERIN₂ or UZ₃^{sur_x} is a spelling that belongs to an earlier period. This may explain the proliferation of alternative spellings. Spellings with BALAG are collected in Al-Fouadi 1969, p.131. In some of the references listed by Al-Fouadi UZ₃.BALAG is to be read UZ₃.ERIN₂ (for instance *UET* 6/1 68 obv. 17).

This item has been reconstructed from two fragmentary sources. Ni I-04 preserves the end of the line: []-har. Ni II-064 has the beginning of the line; the traces are compatible with a reading ^{giš}h[ar-].

608 In Ni I-04 the line is read [$^{gi\check{s}}$ nig₂-har-mušen]-na-x. The x is probably a half-erased HAR.

In Ni II-064 the line begins with some blank space. The traces preserved are compatible with SA, but too little is preserved for a positive identification. The sign begins with two horizontals and one vertical through the beginning of the lower horizontal. There seems to be no room for another sign in Ni II-064. In Ni I-04 the end of the line is preserved: [-g]al₂. Possibly the item is to be read ^{giš}s[a] in Ni II-064 with the variant [^{giš}sa-g]al₂, or perhaps [^{giš}sa-3-g]al₂ in Ni I-04.

- 613-616 The tigidlu is both a bird and a musical instrument. The word has been treated by Civil 1987c. As a musical instrument in Old Babylonian texts the word is spelled either gišŠA₃.TAR or gišDI.TAR. Both spellings are found in the Nippur lexical tablets (for later spellings see Civil 1987c). To the references collected by Civil may be added Van de Mieroop 1987, p.151 (early Old Babylonian Isin texts; spelling gišŠA₃.TAR) and *PRU* 3, Planche X RS 13.53 (Ugarit lexical text, spelling gišŠA₃.TAR; see Veldhuis 1996). That the gištigidlu is a stringed instrument is demonstrated by line 615 of the Nippur list.
- The word ^{giš}šu-kar₂ may be used as a word for tool in general. Here it most probably refers to a musical instrument. The word is found in an almost identical context in Proto-Lu 640a, among musical instruments and musicians.
- The reading ^{gis} ebir for ^{gis} DUG is found in various lexical sources. ^{gis} DUG is glossed e-bi/pi-ir in late ur₅-ra 7a, 131b and 134. The reconstruction in *MSL* 6 is somewhat confusing here. There is one source (source F) which has both line 131b and line 134, but there they follow each other immediately. A unilingual Kassite exercise text from Nippur (UM 29-13-947) has an extract from this passage (for this type of extract see §2.5.2.1). It reads as follows:

```
gišgan-[nu-um-gu-l]a
2
         gan-n[u-um-gu]-la
3
          gan-nu-um-a
       giš gan-nu-um-a
4
5
          gan-nu-um-kaš
6
          gan-nu-um-tur
7
          gan-nu-um-ki-sig
       giš ma-at-gan
8
       giš ma-at-gan
9
       giše-bi-ir
10
(end of exercise)
```

In Diri Ugarit II the word is written GIŠ.A or GIŠ.KAŠ (172-173); in first millennium Diri II GIŠ.A, GIŠ.KAŠ, or GIŠ.GA (292-294).

The word is translated as kannum in Akkadian, meaning a rack for storing vessels. Lines 624 to 627 treat the same object. Here the Akkadian loan $g^{i\bar{s}}$ ga-an-nu-um is used.

The item is probably to be read ^{giš}ebir-dug-imin-bi (a rack for seven jars).

630-631 The reading ^{giš}ma₂-gaz-bur₃-bur₃, rather than ^{giš}ma₂-gaz-GAM-GAM (as in *MSL* 6, p.155, 174) is based upon the following lines in the Emar version (*Emar* 6/4, p.79 with Civil 1989, p.14):

```
518' nam-gaz ta-a\check{s}-\check{s}u :: i-da-nu \check{s}a g^{i\check{s}}PAN
```

519' nam-gaz-nig₂-bur₃-re *ta-aš-šu pal-lu-šu*

The reading bur₃-bur₃ (Civil) rather than niš (Arnaud) in line 519' must be correct, because of the Akkadian rendering *pallušu* (*pullušu* = perforated). A comparable variation in spelling involving nam- and ma- is found for the vessel ^{dug}nam-hara₄, Old Sumerian ^{dug}ma-hara₄ (see Sallaberger 1996, p.73 with note 285 and p.104). The word ^{giš}ma₂-gaz further appears in SIG₇.ALAN 20, 22-23 where it is rendered MIN (= *mah_su*) *makassi* (*MSL* 16, p.180). This word was interpreted as a slaughtering bench in *CAD*. The Sumerian column reads [^{giš}]ma₂-gaz-min₃-da; [^{giš}]ma₂-gaz-gaz-min₃-da;

min₃-du₃-du₃. The passage is preserved in one tablet only (K 11926+; handcopy in *CT* 12, 42). In this case a reading bur₃-bur₃ instead of min₃ is unlikely. The signs on this tablet are clearly separated, and the two winkelhaken of the min₃ are written together (collated). This is probably a transmission error.

- 632 The gis in-nu- su -gur $_{10}$ -ra is a straw chopper. For the reading gur_{10} for KIN in contexts like these see Civil 1976d, p.186.
- **634-638** For the ^{giš}gud-si-dili (battering ram) see Steinkeller 1987a and Van de Mieroop 1987, p.140.
- **638** The item $^{gi\check{s}}$ ge \check{s} pu $_2(\check{S}U.DIM_4)$ -gud-si-dili is written in first millennium ur $_5$ -ra gi \check{s} -pe $\check{s}_{10}(KI.A)$ -gud-si-dili, with variant pe \check{s} for pe \check{s}_{10} (*MSL* 6, p.90, 92). In Emar (*Emar* 6/4, p.77, 430') the same word is written with pe \check{s}_5 . The entry $^{gi\check{s}}$ \check{s} u-dim-dim in Ni II-064 is probably erratic.
- **641-644** In the reconstruction the section $^{gi\check{s}}ur_2$ has four items, but in Ni I-10 it certainly had no more than 3. The only item that is found in more than one source is $^{gi\check{s}}ur_2$ -tal₂-l[a] (Ni II-139 and Ni I-04). There may be a relation with the items in ur_5 -ra 7b 182-185 (*MSL* 6, p.129):
- []-1(AŠ) naturru
- []-2 MIN
- []-3 namsaru
- []-4 MIN

In *CAD* N the broken lines are reconstructed as [giš na₄]-1 etc. The word ur₂-tal₂-tal₂ is known as a plant name but any relation with the giš item is uncertain (*MSL* 10, p.111 111). For ur₂-tal₂-tal₂ see Klein 1981, p.163f. and Civil 1976a, p.91.

648-651 The section giš kab is found only in Ni I-10. In Ni U-28 the giš gisal items are followed by a section giš gam₃. This word is commonly rendered \check{sikru} (haft) in the first millennium lexical tradition (see *CAD šikru* lexical section), and has a section in late ur₅-ra 7b (*MSL* 6, p.133, 291-297). In the Emar version the giš gisal entries are followed by a section giš kin = \check{sakru} (*Emar* 6/4, p.77 437'-445'; with a parallel from Ugarit in André-Salvini 1991, p.107 no. 49). The passages giš kin in Emar and giš gam₃ in Ni U-28 are very similar:

Emar: Nippur U-28: giš gam3 kin ša-ak-ru $^{gi\check{s}}gam_{3}\text{-}gir_{2}$ kin-gir₂ ša-kar pa-at-ri giš gam3-gir2-šu-i kin-gir₂-šu-i MIN gal-la-bi -g]ir₂-mu[haldim[?]] MIN nu-ha-at-ti-mi kin-gir₂-muhaldim (break) (continues with more kin-gir₂ items)

From this comparison it appears that ^{giš}kin (Emar) and ^{giš}gam₃ (Ni U-28 and first millennium) are equivalent. The question is whether ^{giš}kab (Ni I-10) is yet another writing for the same word. The section begins ^{giš}kab; ^{giš}kab-gir₂, corresponding to the beginning of the sections quoted above. Then, however, the text in Ni I-10 diverges. The interpretation of the ^{giš}kab section therefore remains uncertain.

The estimation of the length of the gap after line 658 is based upon the following

considerations. In Ni U-04 line 591 in column I is found at the same relative height as line 631 in column II. The computed column length in Ni U-04 is therefore 40. Line 627 in column II is at the same height as the first ^{giš}KUR entry in column III. On this evidence the three ^{giš}KUR items would receive the numbers 667-669. On the other hand the column length on the obverse of Ni I-10 may be computed as 37. Since the second NIM item is at the same height as line 634 this would result in the line numbers 670-672 for the three ^{giš}NIM lines. The two computations are incompatible since the section ^{giš}KUR is followed by at least three items and the ^{giš}NIM is preceded by at least three other items. However, the reverse of Ni I-10 is more densely inscribed than the obverse, whereas the second column of Ni U-04 is less crowded than its first column. The present line numbering is based upon a compromise. The resulting reconstruction implies that the second column of Ni U-04 had 36 lines, and that the reverse of Ni I-10 had 43 lines per column.

This section has been discussed at some length in §3.3.2.

For the estimation of the length of the gap after line 668 see at line 662.

676-679 This section has been treated in some detail in §3.3.2.

682-683 The item GIŠ.NIG₂.UMBIN has a reading /nisiki/ in Diri II and is rendered *mumarr_tu* in Akkadian. In line 316 of the Nippur giš list we find the variants ^{giš} sig-zi-gan and ^{giš} UMBIN-zi-gan (see the commentary at line 316 above). The /sik/ reading for UMBIN is further confirmed by the variant ^{giš} nig₂-sik₂ for ^{giš} nig₂-UMBIN in ur₅-ra 7a, 210 (see *CAD mumarr_tu* lexical section). Similar variation between UMBIN and sig₂ is found in ur₅-ra 7a, 26 (see *MSL* 6, p.86 with footnotes). The item ^{giš} kun-UMBIN is written ^{giš} kun-sik₂ in *Emar* 6/4, p.79, 521' and ^{giš} kun-zi in NP I-03 rII06' (§5.6.2). For other lexical references see *CAD zappu*.

696-702 The animals listed in this section are wooden figurines. This is demonstrated by the inclusion of the more general words ^{gis}alan (statue) and ^{gis}za-na (figurine), and the 'box for a figurine' (^{gis}e₂-za-na).

704 This item has been discussed above at line 549.

705 The reading gis ar-gibil₂ is confirmed by the Emar parallel ar-ga-bi-nu (*Emar* 6/4, p.80, 574').

5.4 Score Edition of the Nippur Giš List

004 2004	• • •			T00	
001 3001	giš taska		Ni II-070		giš esi
Ni II-002	rII04'	giš taskarin	Ni II-096		giš esi
Ni II-015	rIO1	giš [tas]karin	Ni II-110	rIO2	giš esi
Ni II-017	rIO1	giš tas[karin]	Ni II-110	rIII17	[] esi
Ni II-020	rIO1	giš taskarin	Ni II-112	rIO2	giš esi
Ni II-023	rI01	giš t[askarin]	Ni II-116	rI02	giš es[i]
Ni II-025	rI01	giš taskarin	Ni II-124	rI02	giš esi
Ni II-027	rI01	[gi]š taskarin	Ni II-141	rI02	giš e[si]
Ni II-030	rI01	giš taskarin	Ni II-149	rI02	giš esi
Ni II-036	rI01	[] taskarin	Ni II-155	rI02	giš esi
Ni II-047	rI02	giš taskarin	Ni II-162	rI02	giš e[si]
Ni II-050	I01	giš t[askarin]	Ni II-164	rI02	giš es[i]
Ni II-051	rI01	giš taskarin	Ni II-165	rI02	giš esi
Ni II-054	rI01	giš t[askarin]	Ni II-205	rI02	giš esi
Ni II-070	rI01	giš taskarin	Ni II-225	rII04'	giš esi
Ni II-096	rI01	giš taskarin	Ni II-229	rI02	giš esi
Ni II-110	rI01	giš tas[karin]	Ni II-238	rI02	giš esi
Ni II-110	rIII16	[] taskarin	Ni II-248	rI02	[] esi
Ni II-112	rI01	giš taskarin	Ni II-265	rI02	giš esi
Ni II-116	rI01	giš [taskari]n	Ni II-283	rI02	giš esi
Ni II-124	rI01	giš taskarin	Ni II-287	rI02	giš esi
Ni II-141	rI01	giš ta[skarin]	Ni IV-12	rI02	giš esi
Ni II-149	rI01	giš taskarin	Ni U-05	I01'	[e]si
Ni II-155	rI01	giš taskarin			
Ni II-162	rI01	giš [003 3003	giš nu ₁₁	
Ni II-164	rI01	g[iš	Ni II-002	rII06'	giš nu ₁₁
Ni II-205	rI01	giš taskarin	Ni II-015	rI03	giš nu ₁₁
Ni II-225	rII03'	giš taskarin	Ni II-017	rI03	giš n[u11]
Ni II-229	rI01	giš taskarin	Ni II-020	rI03	giš nu ₁₁
Ni II-238	rI01	giš [Ni II-023	rI03	giš n[u11]
Ni II-248	rI01	[] taskarin	Ni II-025	rI03	giš nu ₁₁
Ni II-265	rI01	giš taskarin	Ni II-027	rI03	giš nu ₁₁
Ni II-283	rI01	giš taskarin	Ni II-030	rI03	[gi]š nu ₁₁
Ni II-287	rI01	giš taskarin	Ni II-036	rI03	giš nu ₁₁
Ni IV-12	rI01	[gi]š taskarin	Ni II-044	rI03	giš nu ₁₁
			Ni II-047	rI03	giš n[u ₁₁]
002 3002	giš esi		Ni II-051	rI03	$[n]u_{11}$
Ni II-002		giš esi	Ni II-054	rI03	giš nu ₁₁
Ni II-015	rI02	giš esi	Ni II-058	rI03	giš nu ₁₁
Ni II-017	rI02	giš es[i]	Ni II-070	rI03	giš nu ₁₁
Ni II-020	rI02	g[iš] esi	Ni II-085	rI03	giš n[u ₁₁]
Ni II-023	rI02	giš e[si]	Ni II-096	rI03	giš nu ₁₁
Ni II-025	rI02	giš esi	Ni II-110	rI03	giš nu ₁₁
Ni II-027	rI02	giš esi	Ni II-110	rIII18	[] nu ₁₁
Ni II-030	rI02	giš esi	Ni II-112	rI03	giš nu ₁₁
Ni II-036	rI02	giš esi	Ni II-116	rI03	giš nu ₁₁
Ni II-044	rI02	giš esi	Ni II-124	rI03	giš nu ₁₁
Ni II-047	rIO1	giš esi	Ni II-140	rI03	giš $n[u_{11}]$
Ni II-051	rI02	giš esi	Ni II-141	rI03	giš [
Ni II-054	rI02	giš e[si]	Ni II-149	rI03	giš nu ₁₁
Ni II-058	rI02	giš e[si]	Ni II-155	rI03	giš nu ₁₁
000		Ø L J	11 100		O11

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Ni II-162 rI03
                                                                               Ni II-205 rI04
                            giš nu<sub>11</sub>
                                                                                                         giš ha-lu-LU(!)
  Ni II-164 rI03
                                                                               Ni II-222 rI04
                            giš nu<sub>11</sub>
                                                                                                         giš h[a-
  Ni II-165 rI03
                                                                               Ni II-229 rI04
                                                                                                         giš ha-lu-ub,
                            giš nu<sub>11</sub>
  Ni II-174 rI03
                            giš n[u_{11}]
                                                                               Ni II-238 rI04
                                                                                                         giš [h]a-lu-ub,
  Ni II-178 rI02'
                                                                               Ni II-248 rI04
                                                                                                         [] ha-lu-ub,
                            giš n[u_{11}]
                                                                                                         giš lu-ha-ub, (sic!)
  Ni II-205 rI03
                            giš nu...
                                                                               Ni II-265 rI04
  Ni II-225 rII05
                                                                               Ni II-271
                            giš n[u_{11}]
                                                                                             rI02'
                                                                                                         giš ha-lu-[
  Ni II-229 rI03
                                                                               Ni II-279 rI01'
                                                                                                         giš ha-lu-u[b<sub>2</sub>]
                            giš nu<sub>11</sub>
  Ni II-238 rI03
                                                                               Ni II-283 rI04
                                                                                                         giš ha-KU?-ub,
                            giš nu<sub>11</sub>
  Ni II-248 rI03
                                                                               Ni II-287
                                                                                             rI04
                                                                                                         giš ha-lu-ub,
                            [] nu<sub>11</sub>
  Ni II-265 rI03
                                                                               Ni IV-12
                                                                                             rI04
                                                                                                         giš ha-lu-ub,
                            giš nu<sub>11</sub>
  Ni II-271 rI01'
                                                                                             I02'
                            giš n[u_{11}]
                                                                               Ni U-05
                                                                                                         [ h]a-l[u-u]b,
  Ni II-283 rI03
                                                                               Ni U-25
                                                                                             I04
                            giš nu<sub>11</sub>
                                                                                                         giš ha-lu-ub,
  Ni II-287 rI03
                            giš nu.
  Ni IV-12 rI03
                                                                             005 3005
                                                                                             giš ša,-kal
                            giš nu<sub>11</sub>
  Ni U-25
                103
                                                                               Ni II-001 rI05
                            giš n[u_{11}]
                                                                                                         giš ša<sub>3</sub>-k[al]
                                                                               Ni II-002 rII08'
                                                                                                         giš ša<sub>3</sub>-kal
004 3004
                giš ha-lu-ub,
                                                                               Ni II-013 rI02'
                                                                                                         [g]iš ša<sub>3</sub>-kal
  Ni II-001 rI04
                                                                               Ni II-015 rI05
                                                                                                         giš ša<sub>3</sub>-kal
                            giš h[a-
  Ni II-002 rII07'
                            giš PEŠ ha-lu-ub<sub>2</sub>
                                                                               Ni II-017 rI05
                                                                                                         giš [š]a_3-ka[1]
                                                                                                         giš ša<sub>3</sub>-kal
  Ni II-013 rI01'
                                                                               Ni II-020 rI05
                            [g]iš [h]a-l[u-
                                                                                                         giš ša<sub>3</sub>-[
  Ni II-015 rI04
                            giš ha-lu-ub<sub>2</sub>
                                                                               Ni II-023 rI05
  Ni II-017 rI04
                            giš ha-[
                                                                               Ni II-025 rI05
                                                                                                         giš ša<sub>3</sub>-k[al]
  Ni II-020 rI04
                            giš ha-lu-u[b<sub>2</sub>]
                                                                               Ni II-027 rI05
                                                                                                         giš ša<sub>3</sub>-kal
  Ni II-023 rI04
                            giš ha-l[u-
                                                                               Ni II-036 rI05
                                                                                                         giš š[a<sub>3</sub>]-kal
  Ni II-025 rI04
                            giš ha-lu-u[b<sub>2</sub>]
                                                                               Ni II-044 rI05
                                                                                                         giš ša<sub>3</sub>-kal
                                                                                                         giš ša<sub>3</sub>-kal
  Ni II-027 rI04
                            giš ha-lu-ub,
                                                                               Ni II-047 rI05
  Ni II-030 rI04
                            [-1]u-u[b<sub>2</sub>]
                                                                               Ni II-051 rI05
                                                                                                              ]-kal
  Ni II-036 rI04
                            giš ha-lu-u[b<sub>2</sub>]
                                                                               Ni II-054 rI05
                                                                                                         giš ša<sub>3</sub>-kal
  Ni II-044 rI04
                                                                               Ni II-057 I01
                            giš ha-lu-ub<sub>2</sub>
                                                                                                         giš ša<sub>3</sub>-kal
  Ni II-047 rI04
                            giš ha-lu-u[b<sub>2</sub>]
                                                                               Ni II-058 rI05
                                                                                                         giš š[a<sub>3</sub>]-kal
  Ni II-050 I04
                            giš ha-[
                                                                               Ni II-070 rI05
                                                                                                         giš ša<sub>3</sub>-kal
  Ni II-051 rI04
                                                                               Ni II-074 rI02'
                            [ -1]u-ub<sub>2</sub>
                                                                                                         giš ša<sub>3</sub>-[
  Ni II-054 rI04
                            giš ha-lu-ub,
                                                                               Ni II-085 rI05
                                                                                                         giš ša<sub>3</sub>-ka[1]
  Ni II-058 rI04
                            giš lu-ub<sub>2</sub>-ha
                                                                               Ni II-091 rI04'
                                                                                                         giš ša<sub>3</sub>-k[al]
  Ni II-070 rI04
                            giš ha-lu<sub>2</sub>-ub<sub>2</sub>
                                                                               Ni II-096 rI05
                                                                                                         giš ša<sub>3</sub>-kal
  Ni II-085 rI04
                                                                               Ni II-105 rI05
                            giš ha-lu-u[b<sub>2</sub>]
                                                                                                         giš š[a<sub>3</sub>-
  Ni II-091 rI03'
                            giš ha-lu-[
                                                                               Ni II-109 rI01'
                                                                                                         [ \check{s}]a_3-ka[1]
  Ni II-096 rI04
                            giš ha-lu-u[b<sub>2</sub>]
                                                                               Ni II-110 rI05
                                                                                                         giš ša<sub>3</sub>-k[al]
                            giš ha-[
  Ni II-105 rI04
                                                                               Ni II-110 rIII20
                                                                                                         [] ša<sub>3</sub>-kal
  Ni II-110 rI04
                            giš ha-lu-ub,
                                                                               Ni II-112 rI05
                                                                                                         giš ša<sub>3</sub>-kal
  Ni II-110 rIII19
                            [] ha-lu-ub<sub>2</sub>
                                                                               Ni II-116 rI05
                                                                                                         giš ša<sub>3</sub>-kal
  Ni II-112 rI04
                            giš ha-lu-ub,
                                                                               Ni II-124 rI05
                                                                                                         giš ša<sub>3</sub>-kal
  Ni II-116 rI04
                            giš ha-lu-ub<sub>2</sub>
                                                                               Ni II-140 rI05
                                                                                                         giš š[a<sub>3</sub>-
  Ni II-124 rI04
                            giš ha-lu-ub,
                                                                               Ni II-141 rI05
                                                                                                         giš ša<sub>3</sub>-[
  Ni II-140 rI04
                            giš h[a-
                                                                               Ni II-149 rI05
                                                                                                         giš ša<sub>3</sub>-k[al]
  Ni II-141 rI04
                            giš ha-[
                                                                               Ni II-155 rI05
                                                                                                         giš ša<sub>3</sub>-kal
  Ni II-148 rI04
                            giš ha-[
                                                                               Ni II-162 rI05
                                                                                                         giš ša<sub>3</sub>-kal
  Ni II-149 rI04
                                                                                                         giš ša<sub>3</sub>-ka[1]
                            giš ha-lu-ub<sub>2</sub>
                                                                               Ni II-164 rI05
  Ni II-155 rI04
                            giš ha-lu-ub,
                                                                               Ni II-165 rI05
                                                                                                         giš ša<sub>3</sub>-kal
  Ni II-162 rI04
                            giš ha-lu-ub<sub>2</sub>
                                                                               Ni II-174 rI05
                                                                                                         giš š[a<sub>3</sub>-
  Ni II-164 rI04
                                                                               Ni II-178 rI04'
                            giš ha-lu-ub<sub>2</sub>
                                                                                                         giš ša<sub>3</sub>-kal
  Ni II-165 rI04
                            giš ha-lu-ub<sub>2</sub>
                                                                               Ni II-205 rI05
                                                                                                         giš ša<sub>3</sub>-kal
  Ni II-174 rI04
                            giš ha-lu-[
                                                                               Ni II-222 rI05
                                                                                                         giš š[a<sub>3</sub>-
  Ni II-178 rI03'
                                                                               Ni II-229 rI05
                            giš ha-lu-ub<sub>2</sub>
                                                                                                         giš ša<sub>3</sub>-kal
```

```
006a 3007 giš kin<sub>2</sub>-babbar
  Ni II-238 rI05
                             giš [š]a<sub>3</sub>-kal
  Ni II-248 rI05
                             [ š]a<sub>3</sub>-kal
                                                                                   Ni II-017 rI07
                                                                                                                      ]-babbar
  Ni II-265 rI05
                             giš ša<sub>3</sub>-kal
                                                                                   Ni II-054 rI07
                                                                                                               giš kin,-babbar
  Ni II-271 rI03'
                             giš ša<sub>3</sub>-kal
                                                                                   Ni II-155 rI07
                                                                                                               [gi]š kin<sub>2</sub>-babbar
  Ni II-279 rI02'
                             giš ša<sub>3</sub>-k[al]
                                                                                   Ni II-205 rI07
                                                                                                               giš kin,-babbar
  Ni II-283 rI05
                             giš ša<sub>3</sub>-kal
                                                                                   Ni II-238 rI07
                                                                                                               -bab]bar
  Ni II-287 rI05
                             giš ša<sub>3</sub>-kal
                                                                                   Ni II-271
                                                                                                  rI05'
                                                                                                               giš kin,-babbar
  Ni IV-12 rI05
                             giš ša<sub>3</sub>-kal
                                                                                   Ni II-279 rI04'
                                                                                                               giš kin2-babbar
  Ni U-05
                 I03'
                             [ š]a<sub>3</sub>-kal
                                                                                   Ni U-05
                                                                                                  I05'
                                                                                                               [ k]in<sub>2</sub>-babbar
  Ni U-25
                 I05
                             giš ša<sub>3</sub>-kal
                                                                                 006b 3008
                                                                                                  giš kin<sub>2</sub>-gi<sub>6</sub>
006 3006
                 giš kin<sub>2</sub>
                                                                                    Ni II-017 rI08
                                                                                                               [
                                                                                                                      -g]i_6
  Ni II-001 rI06
                                                                                   Ni II-054 rI08
                              giš kin,
                                                                                                               giš kin<sub>2</sub>-gi<sub>6</sub>
  Ni II-002 rII09
                             giš kin,
                                                                                   Ni II-155 rI08
                                                                                                               [gi]š kin,-g[i,
  Ni II-013 rI03'
                             [g]iš kin,
                                                                                   Ni II-205 rI08
                                                                                                               giš kin,-gi
  Ni II-015 rI06
                                                                                   Ni II-279 rI05'
                             giš kin,
                                                                                                               [gi]š kin_2-g[i_6]
  Ni II-017 rI06
                             [gi]š k[in_3]
                                                                                   Ni U-05
                                                                                                  I06'
                                                                                                               [ k]in<sub>2</sub>-gi<sub>6</sub>
  Ni II-020 rI06
                             giš kin,
  Ni II-036 rI06
                             [gi]š kin<sub>2</sub>
                                                                                 007 3011
                                                                                                   giš gi<sub>6</sub>
                                                                                   Ni I-08
                                                                                                   I02'
  Ni II-044 rI06
                             giš kin<sub>2</sub>
                                                                                                               giš gi<sub>6</sub>
                             [ k]in,
  Ni II-051 rI06
                                                                                   Ni II-001 rI07
                                                                                                               giš gi<sub>6</sub>
  Ni II-054 rI06
                             giš kin<sub>2</sub>
                                                                                   Ni II-002 rII10'
                                                                                                               giš gi<sub>6</sub>
                                                                                   Ni II-013 rI04'
  Ni II-057 I02
                             giš kin<sub>2</sub>
                                                                                                               [g]iš gi<sub>6</sub>
  Ni II-058 rI06
                             giš kin<sub>2</sub>
                                                                                   Ni II-015 rI07
                                                                                                               giš gi<sub>6</sub>
  Ni II-070 rI06
                                                                                   Ni II-020 rI07
                             giš kin,
                                                                                                               giš gi<sub>6</sub>
  Ni II-085 rI06
                                                                                   Ni II-021 rI01'
                             giš [
                                                                                                               [gi]š g[i_6]
  Ni II-091 rI05'
                             giš k[in<sub>2</sub>]
                                                                                   Ni II-036 rI07
                                                                                                               [ ] gi<sub>6</sub>
  Ni II-109 rI02'
                             giš k[in<sub>2</sub>]
                                                                                   Ni II-044 rI07
                                                                                                               giš gi<sub>6</sub>
  Ni II-110 rI06
                             giš kin<sub>2</sub>
                                                                                   Ni II-054 rI09
                                                                                                               giš gi<sub>6</sub>
  Ni II-110 rIII21
                                                                                   Ni II-057 I03
                             [] kin<sub>2</sub>
                                                                                                               giš gi<sub>6</sub>
  Ni II-112 rI06
                             [] kin<sub>2</sub>
                                                                                   Ni II-074 rI04'
                                                                                                               giš g[i<sub>6</sub>
  Ni II-116 rI06
                             giš [
                                                                                   Ni II-085 rI07
                                                                                                               giš g[i<sub>6</sub>]
  Ni II-124 rI06
                                                                                   Ni II-091 rI06'
                             [] kin<sub>2</sub>
                                                                                                               giš g[i<sub>6</sub>]
  Ni II-140 rI06
                             giš ki[n<sub>2</sub>]
                                                                                   Ni II-096 rI06
                                                                                                               giš < še > gi_6
  Ni II-141 rI06
                             giš k[in<sub>2</sub>]
                                                                                   Ni II-109 rI03'
                                                                                                               giš g[i<sub>6</sub>]
  Ni II-144 rI01'
                                                                                   Ni II-110 rI07
                             giš k[in<sub>2</sub>]
                                                                                                               giš gi<sub>6</sub>
  Ni II-149 rI06
                                                                                   Ni II-112 rI07
                             giš ki[n<sub>2</sub>]
                                                                                                               [] gi<sub>6</sub>
  Ni II-155 rI06
                             giš kin<sub>2</sub>
                                                                                   Ni II-116 rI07
                                                                                                               giš gi<sub>6</sub>
  Ni II-162 rI06
                             giš kin<sub>2</sub>
                                                                                   Ni II-140 rI07
                                                                                                               giš g[i<sub>6</sub>]
  Ni II-164 rI06
                             giš kin<sub>2</sub>
                                                                                   Ni II-141 rI07
                                                                                                               giš [
                                                                                   Ni II-144 rI02'
  Ni II-165 rI06
                             giš geštin k[in<sub>2</sub>]
                                                                                                               giš gi<sub>6</sub>
  Ni II-178 rI05'
                             giš kin<sub>2</sub>
                                                                                   Ni II-162 rI07
                                                                                                               giš gi<sub>6</sub>
  Ni II-205 rI06
                                                                                   Ni II-164 rI07
                             giš kin<sub>2</sub>
                                                                                                               giš gi<sub>6</sub>
  Ni II-222 rI06
                             giš [
                                                                                   Ni II-165 rI07
                                                                                                               giš gi<sub>6</sub>
  Ni II-229 rI06
                                                                                   Ni II-178 rI06'
                             giš k[in<sub>2</sub>]
                                                                                                               giš gi<sub>6</sub>
  Ni II-238 rI06
                             giš [ki]n<sub>2</sub>
                                                                                   Ni II-205 rI09
                                                                                                               giš g[i<sub>6</sub>]
  Ni II-248 rI06
                             [gi]š kin,
                                                                                   Ni II-222 rI07
                                                                                                               giš g[i<sub>6</sub>]
  Ni II-265 rI06
                                                                                   Ni II-248 rI07
                             giš kin<sub>2</sub>
                                                                                                               giš gi<sub>6</sub>
  Ni II-271 rI04'
                                                                                   Ni II-265 rI07
                             giš kin<sub>2</sub>
                                                                                                               [gi]š gi<sub>6</sub>
  Ni II-279 rI03'
                             giš ki[n<sub>2</sub>]
                                                                                   Ni II-283 rI07
                                                                                                               giš gi<sub>6</sub>
  Ni II-283 rI06
                             giš kin<sub>2</sub>
                                                                                   Ni IV-12 rI07
                                                                                                               giš gi<sub>6</sub>
  Ni IV-12 rI06
                                                                                   Ni U-05
                                                                                                  I07'
                             giš kin<sub>2</sub>
                                                                                                               [] gi<sub>6</sub>
  Ni U-05
                 I04'
                             giš kin<sub>2</sub>
                                                                                   Ni U-25
                                                                                                  I07
                                                                                                               giš g[i<sub>6</sub>]
  Ni U-25
                 I06
                             giš kin<sub>2</sub>
                                                                                 008 3012 giš geštin
```

```
Ni I-08
              I03'
                                                                      Ni II-140 rI09
                         giš geštin
                                                                                             giš geš[tin-
  Ni II-001 rI08
                         giš geštin
                                                                      Ni II-141 rI09
                                                                                             giš ge[štin-
  Ni II-002 rII111
                         giš geštin
                                                                      Ni II-143 rI01'
                                                                                             [ gešt]in-k[ir<sub>4</sub>]
  Ni II-015 rI08
                         giš geštin
                                                                      Ni II-144 rI04'
                                                                                             giš geštin-k[ir<sub>4</sub>]
  Ni II-020 rI08
                                                                      Ni II-148 rI09
                         giš gešt[in]
                                                                                             giš geštin-[
  Ni II-021 rI02'
                         giš geštin
                                                                      Ni II-155 rI10
                                                                                             [] geštin-[
  Ni II-036 rI08
                         [ ge]štin
                                                                      Ni II-162 rI09
                                                                                             giš geštin-[
  Ni II-044 rI08
                                                                      Ni II-163 rI09
                         giš geštin
                                                                                             giš geštin-[
  Ni II-054 rI10
                                                                      Ni II-164 rI09
                         giš geštin
                                                                                             giš geštin-kir<sub>4</sub>
  Ni II-057 I04
                                                                      Ni II-165 rI09
                                                                                             giš geštin-X
                         giš geš[tin
  Ni II-074 rI05'
                         giš geš[tin]
                                                                      Ni II-178 rI08'
                                                                                             giš geštin-[
  Ni II-085 rI08
                         giš geštin
                                                                      Ni II-222 rI09
                                                                                             giš geštin-
                                                                      Ni II-248 rI09
  Ni II-091 rI07'
                         giš gešt[in]
                                                                                             giš geštin-kir<sub>4</sub>
  Ni II-096 rI07
                         giš <še> geštin
                                                                      Ni II-265
                                                                                   rI09
                                                                                             [] geštin-gir,
  Ni II-109 rI04'
                         giš geš[tin]
                                                                      Ni II-283 rI09
                                                                                             giš geš[tin-
  Ni II-110 rI08
                                                                      Ni U-05
                                                                                   109
                         giš geštin
                                                                                             giš geštin-k[ir<sub>4</sub>]
  Ni II-116 rI08
                         giš geštin
                                                                      Ni U-25
                                                                                   I09
                                                                                             giš geštin-k[ir<sub>4</sub>]
  Ni II-140 rI08
                         giš g[eštin]
  Ni II-141 rI08
                                                                    010 3015
                         giš [
                                                                                   giš geštin-ka<sub>5</sub>-a
  Ni II-144 rI03'
                         giš geštin
                                                                      Ni I-08
                                                                                   I05'
                                                                                             giš geštin-ka<sub>5</sub>-a
  Ni II-148 rI08
                                                                      Ni II-001 rI10
                         g[iš gešt]in
                                                                                             giš geštin-ku
  Ni II-155 rI09
                         [gi]š g[eštin]
                                                                      Ni II-002 rII13'
                                                                                             [giš geš]tin-[k]a₅-a
                                                                      Ni II-015 rI10
  Ni II-162 rI08
                         giš gešt[in]
                                                                                             giš geštin-k[a<sub>5</sub>]-a
  Ni II-164 rI08
                         giš geštin
                                                                      Ni II-020 rI10
                                                                                             giš geštin-k[a<sub>5</sub>-
  Ni II-165 rI08
                         giš geštin
                                                                      Ni II-021 rI04'
                                                                                             giš geštin-[k]a<sub>5</sub>-a
                                                                      Ni II-036 rI10
  Ni II-178 rI07'
                         giš geštin
                                                                                             [ ge]stin-k[a_5]-a
                                                                      Ni II-037 rI07'
  Ni II-222 rI08
                         giš ge[štin]
                                                                                             giš geš[tin-
                         giš geštin
  Ni II-248 rI08
                                                                      Ni II-044 rI10
                                                                                             [gi]š geštin-[k]a<sub>5</sub>-a
 Ni II-265 rI08
                         [] geštin
                                                                      Ni II-054 rI12
                                                                                             giš gešt[in-k]a<sub>5</sub>-[
  Ni II-283 rI08
                                                                      Ni II-055 rI01'
                         giš geš[tin]
                                                                                             giš geštin-k[a<sub>5</sub>-
  Ni IV-12 rI08
                         giš geštin
                                                                      Ni II-058 rI10
                                                                                             giš geštin-k[a<sub>5</sub>]-a
  Ni U-05
              I08'
                         [] geštin
                                                                      Ni II-074 rI07'
                                                                                             giš geštin-[
  Ni U-25
              I08
                         giš geštin
                                                                      Ni II-085 rI10
                                                                                             giš geštin-ka5-a
                                                                      Ni II-091 rI09'
                                                                                             [] geštin-k[a_5-
009 3013
              giš geštin-kir,
                                                                      Ni II-096 rI09
                                                                                             giš geštin-x
              I04'
  Ni I-08
                         giš geštin-kir,
                                                                      Ni II-105 rI10
                                                                                             giš g[eštin-
                                                                      Ni II-107 rI01'
  Ni II-001 rI09
                                                                                             giš geštin-k[a<sub>5</sub>-
                         giš geštin-ga<sub>2</sub>
  Ni II-002 rII12'
                         giš geštin-gir,
                                                                      Ni II-109 rI06'
                                                                                             giš geštin-ka<sub>5</sub>-a
  Ni II-015 rI09
                                                                      Ni II-110 rI10
                         giš geštin-kir,
                                                                                             giš geštin-[
 Ni II-020 rI09
                         giš ge[štin]-kir<sub>4</sub>?
                                                                      Ni II-116 rI10
                                                                                             [gi]š geštin-[k]a<sub>5</sub>-a
  Ni II-021 rI03'
                         giš geš[tin]-kir<sub>4</sub>
                                                                      Ni II-140 rI10
                                                                                             giš geštin-ka<sub>5</sub>-[
  Ni II-036 rI09
                         [ ge]štin-kir<sub>4</sub>
                                                                      Ni II-141 rI10
                                                                                             giš ge[štin-
 Ni II-037 rI06'
                         giš geš[tin-
                                                                      Ni II-143 rI02'
                                                                                             giš geštin-k[a<sub>5</sub>-
 Ni II-044 rI09
                         [gi]š geštin-kir<sub>4</sub>
                                                                      Ni II-144 rI05'
                                                                                             giš ge[štin-
  Ni II-054 rI11
                                                                      Ni II-148 rI10
                                                                                             giš geštin-[
                         giš geštin-kir,
  Ni II-057 I05
                         giš geštin-[
                                                                      Ni II-155 rI11
                                                                                             [ geš]tin-[k]a<sub>5</sub>-a
 Ni II-058 rI09
                         giš geštin-[
                                                                      Ni II-162 rI10
                                                                                             giš geštin-k[a<sub>5</sub>-
  Ni II-074 rI06'
                         giš geštin-[
                                                                      Ni II-163 rI10
                                                                                             giš geštin-[
  Ni II-085 rI09
                         giš geštin-kir<sub>4</sub>
                                                                      Ni II-164 rI10
                                                                                             giš geštin-ka<sub>5</sub>-a
  Ni II-091 rI08'
                                                                      Ni II-165 rI10
                         [] geštin-k[ir<sub>4</sub>]
                                                                                             giš geštin-X
  Ni II-096 rI08
                         giš <še> geštin-[
                                                                      Ni II-174 rI10
                                                                                             giš ge[štin-
                                                                      Ni II-239 rI01'
  Ni II-105 rI09
                         giš ge[štin-
                                                                                                        ]-a
  Ni II-109 rI05'
                         giš geštin-kir<sub>4</sub>
                                                                      Ni II-248 rI10
                                                                                             giš geštin-ka,
  Ni II-110 rI09
                         giš geštin-[
                                                                      Ni U-05
                                                                                   I10'
                                                                                             giš geštin-k[a<sub>5</sub>]-a
                                                                      Ni U-25
  Ni II-116 rI09
                         giš geštin-kir<sub>4</sub>
                                                                                  I10
                                                                                             [gi]š geštin-ka<sub>5</sub>-a
```

```
Ni II-116 rI12
                                                                                      [] pe\S_3
011 3017
             giš geštin-gam-ma
                                                                 Ni II-140 rI12
                                                                                      giš peš<sub>3</sub>
 Ni I-04
             I01'
                                                                 Ni II-141 rI12
                                -m]a
                                                                                      giš [
 Ni I-08
             I06'
                       giš geštin-gam-ma
                                                                 Ni II-143 rI04'
                                                                                      giš peš<sub>3</sub>
 Ni II-001 rI11
                       giš geštin-gam-ma
                                                                 Ni II-155 rI13
                                                                                      [ ] peš<sub>3</sub>
 Ni II-002 rII14'
                       giš geštin-gam-ma
                                                                 Ni II-162 rI12
                                                                                      giš pe[š<sub>3</sub>]
 Ni II-015 rI11
                                                                 Ni II-164 rI12
                       giš geštin-[
                                                                                      giš peš,
 Ni II-020 rI11
                       [g]iš gešt[in]-gam-ma
                                                                 Ni II-165 rI12
                                                                                      giš peš,
                                                                 Ni II-245 I01
 Ni II-021 rI05'
                       giš geštin-[
                                                                                      [ ] p[eš<sub>3</sub>]
  Ni II-036 rI11
                          ge]štin-gam-ma
                                                                 Ni II-248 rI12
                                                                                      g[iš pe]š,
 Ni II-037 rI08'
                                                                 Ni IV-12 rI09
                       giš geš[tin-
                                                                                      giš peš,
 Ni II-044 rI11
                                                                            I12'
                       [gi]š geštin-gam-ma
                                                                 Ni U-05
                                                                                      giš p[eš<sub>3</sub>]
                                                                            I01'
 Ni II-054 rI13
                                                                 Ni U-24
                       giš geštin-gam-ma
                                                                                      [] peš<sub>3</sub>
                       giš geštin-gam-ma
 Ni II-055 rI02
 Ni II-058 rI11
                       giš geštin-gam-ma
                                                               013 3032
                                                                             giš hašhur
                                                                 Ni I-04
                                                                             I03'
 Ni II-074 rI08'
                                                                                      [] hašhur
                       giš geštin-[
                                                                             I08'
 Ni II-085 rI11
                       giš geštin-gam-ma
                                                                 Ni I-08
                                                                                      giš hašhur
                       giš geštin-gam
 Ni II-096 rI10
                                                                 Ni II-001 rI13
                                                                                      giš hašhur
 Ni II-107 rI02'
                       giš geštin-gam-ma
                                                                 Ni II-002 rII16'
                                                                                      giš hašhur
 Ni II-109 rI07'
                       giš geštin-gam-ma
                                                                 Ni II-003 rI02'
                                                                                      giš hašhur
 Ni II-110 rI11
                                                                 Ni II-020 rI13
                                                                                      giš hašhur
                       giš geš[tin-
 Ni II-116 rI11
                       [ ge]štin-gam-ma
                                                                 Ni II-035 rI12
                                                                                      giš haš[hur?
 Ni II-140 rI11
                                                                 Ni II-036 rI13
                       giš geštin-ma
                                                                                      giš haš[hur]
 Ni II-141 rI11
                       giš ge[štin-
                                                                 Ni II-037 rI10'
                                                                                      giš ha[šhur]
 Ni II-143 rI03'
                                                                 Ni II-054 rII01
                       giš gešti[n-
                                                                                      giš [haš]hur
 Ni II-148 rI11
                                                                 Ni II-055 rI04
                       [] geš[tin-
                                                                                      giš hašhur
 Ni II-155 rI12
                                                                 Ni II-058 rI14
                                                                                      giš hašhur-MA
                       [ geš]tin-gam-ma
 Ni II-162 rI11
                       giš geštin-gam-m[a]
                                                                 Ni II-065 rI02'
                                                                                      [ haš]hur
 Ni II-163 rI11
                       giš gešt[in-
                                                                 Ni II-085 rI13
                                                                                      giš hašhur
 Ni II-164 rI11
                       giš geštin-gam-ma
                                                                 Ni II-089 rI02'
                                                                                      giš hašhur
                                                                                      giš hašhur
                                                                 Ni II-096 rI12
 Ni II-165 rI11
                       giš geštin-[
                       giš geš[tin-
 Ni II-174 rI11
                                                                 Ni II-107 rI04'
                                                                                      giš hašhur
 Ni II-239 rI02'
                                                                 Ni II-109 rI09'
                                                                                      giš hašhur-[ha]šhur
                                ]-ma
 Ni II-248 rI11
                       giš geštin-gam-ma
                                                                 Ni II-110 rI13
                                                                                      giš hašhur
 Ni U-05
             I11'
                       giš geštin-[ -m]a
                                                                 Ni II-116 rI13
                                                                                      [ ha]šhur
                                                                                      giš hašhur
 Ni U-25
             I11
                       [gi]š geštin-gam-ma
                                                                 Ni II-140 rI13
                                                                 Ni II-141 rI13
                                                                                      giš [
                                                                 Ni II-143 rI05'
012 3029
             giš peš,
                                                                                      giš hašhur
 Ni I-04
             I02'
                       [] peš<sub>3</sub>
                                                                 Ni II-155 rI14
                                                                                      [] hašhur
 Ni I-08
             I07'
                                                                 Ni II-162 rI13
                                                                                      giš [
                       giš peš<sub>3</sub>
 Ni II-001 rI12
                                                                 Ni II-164 rI13
                                                                                      giš hašhur
                       giš peš<sub>3</sub>
 Ni II-002 rII15'
                       giš peš<sub>3</sub>
                                                                 Ni II-165 rI13
                                                                                      giš haš[hur]
 Ni II-020 rI12
                                                                 Ni II-174 rI13
                                                                                      giš ha[šhur]
                       [gi]š peš,
 Ni II-036 rI12
                                                                 Ni II-245 I02
                                                                                      [] hašhur
                       giš peš<sub>3</sub>
 Ni II-044 rI12
                                                                 Ni IV-12 rI10
                                                                                      giš hašhur
                       [ p]eš<sub>3</sub>
                                                                 Ni U-24
                                                                            I02'
 Ni II-054 rI14
                                                                                      giš hašhur
                       giš peš,
 Ni II-055 rI03
                       giš peš<sub>3</sub>
 Ni II-058 rI13
                                                                             giš hašhur-kur-ra
                                                               014 3033
                       giš peš,
 Ni II-065 rI01'
                                                                 Ni I-04
                                                                             I04'
                                                                                      [ haš]hur-kur-ra
                       [ ] p[eš<sub>3</sub>]
 Ni II-074 rI09'
                                                                 Ni I-08
                                                                             I09'
                                                                                      giš hašhur-ku[r]
                       giš p[eš<sub>3</sub>]
                                                                                      giš hašhur-kur
 Ni II-085 rI12
                                                                 Ni II-001 rI14
                       giš peš<sub>3</sub>
 Ni II-089 rI01'
                                                                 Ni II-002 rII17'
                                                                                      giš hašhur-kur-ra
                       [ pe]\S_3
 Ni II-107 rI03'
                       giš peš<sub>3</sub>
                                                                 Ni II-003 rI03'
                                                                                      giš hašhur-kur-ra
 Ni II-109 rI08'
                       [g]iš pe[š_3]
                                                                 Ni II-014 rI01'
                                                                                            ]-kur
 Ni II-110 rI12
                                                                 Ni II-017 rII01
                                                                                      [gi]š hašhur-kur-r[a
                       giš p[eš<sub>3</sub>]
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```
Ni II-020 rI14
                                                                  Ni II-162 rI15
                       giš hašhur-[ ]-ra
                                                                                        giš še-[
 Ni II-035 rI13
                                                                  Ni II-164 rI15
                       giš haš[hur?
                                                                                        giš še-dug<sub>3</sub>
 Ni II-036 rI14
                       giš haš[hur]-kur
                                                                  Ni II-165 rI16
                                                                                        giš še-dug<sub>3</sub>
 Ni II-037 rI11'
                       giš hašhur-k[ur]
                                                                  Ni II-174 rI15
                                                                                        giš še-[
 Ni II-054 rII02
                                                                  Ni II-198 rI01'
                       giš hašhur-ku[r]
                                                                                        [] še-dug<sub>3</sub>
 Ni II-058 rI15
                       giš hašhur-kur
                                                                  Ni II-200 rI01'
                                                                                        giš še-[
 Ni II-065 rI03'
                                                                  Ni II-209 rI01'
                           ]-kur
                                                                                        giš še-d[ug<sub>3</sub>]
 Ni II-085 rI14
                                                                  Ni II-245 I05
                       giš hašhur-kur
                                                                                        [gi]š še-dug,
 Ni II-089 rI03'
                       giš hašhur-kur
                                                                  Ni IV-12 rI12
                                                                                        giš še-dug,
  Ni II-096 rI13
                       giš hašhur-r[a?]
                                                                  Ni U-24
                                                                              I05'
                                                                                        giš [š]e-dug,
 Ni II-107 rI05'
                       giš hašhur-kur-r[a]
                                                                016 3049
 Ni II-109 rI10'
                       giš hašhur-kur-ra
                                                                              giš še-nu
 Ni II-110 rI14
                                                                  Ni I-04
                                                                              I05'
                             ]-kur-ra
                                                                                        [] še-nu
 Ni II-116 rI14
                             -k]ur
                                                                  Ni I-08
                                                                              I11'
                                                                                        giš še-nu
 Ni II-129 rI01'
                       giš hašhur-kur
                                                                  Ni II-001 rI16
                                                                                        giš še-nu
 Ni II-140 rI14
                                                                  Ni II-002 rII19'
                       giš [haš]hur-kur-ra
                                                                                        giš še-nu
 Ni II-141 rI14
                       giš hašhur-[
                                                                  Ni II-013 rI13'
                                                                                        [ š]e-nu
 Ni II-143 rI06'
                       g[iš haš]hur-kur
                                                                  Ni II-014 rI02'
                                                                                        [] še-nu
 Ni II-155 rI15
                       [ haš]hur-kur-ra
                                                                  Ni II-017 rII03
                                                                                        giš še-nu
 Ni II-162 rI14
                       giš hašhur-[
                                                                  Ni II-020 rI15
                                                                                        giš še-nu
 Ni II-164 rI14
                       giš hašhur-kur
                                                                  Ni II-036 rI16
                                                                                        [ n]u
                       giš haš[hur-k]ur-r[a]
 Ni II-165 rI14
                                                                  Ni II-037 rI13'
                                                                                        giš š[e-
 Ni II-174 rI14
                                                                  Ni II-054 rII03
                       giš hašhur-[
                                                                                        giš še-nu
 Ni II-239 rI05'
                       [] hašhur-[
                                                                  Ni II-058 rI17
                                                                                        giš še-[
 Ni II-245 I03
                       [] hašhur-kur
                                                                  Ni II-063 rI01'
                                                                                        giš še-nu
 Ni IV-10 1
                                                                  Ni II-065 rI05'
                       giš hašhur-kur
                                                                                        giš [
 Ni IV-12 rI11
                       giš hašhur-kur
                                                                  Ni II-085 rI16
                                                                                        giš še-nu
 Ni U-24
             I03'
                       giš [
                                 ]-ra
                                                                  Ni II-089 rI05'
                                                                                        giš š[e-
                                                                  Ni II-109 rI12'
                                                                                        giš še-nu
015 3050
             giš še-dug,
                                                                  Ni II-110 rI16
                                                                                        giš še-n[u]
 Ni I-04
             I06'
                       [] še-dug<sub>3</sub>
                                                                  Ni II-129 rI02'
                                                                                        giš še-nu
 Ni I-08
             I10'
                       giš še-dug<sub>3</sub>
                                                                  Ni II-140 rI16
                                                                                        giš še-nu
 Ni II-001 rI15
                                                                  Ni II-141 rI16
                       giš še-dug<sub>3</sub>
                                                                                        giš še-[
 Ni II-002 rII18'
                                                                  Ni II-143 rI08'
                       giš še-dug<sub>3</sub>
                                                                                        giš še-nu
 Ni II-003 rI04'
                       giš še d[ug<sub>3</sub>]
                                                                  Ni II-155 rI16
                                                                                        [] še-nu
 Ni II-013 rI12'
                                                                  Ni II-162 rI16
                       [ ]-dug<sub>3</sub>
                                                                                        giš še-[
 Ni II-014 rI03'
                                                                  Ni II-164 rI16
                                                                                        giš še-nu
                       giš še-du[g<sub>3</sub>]
 Ni II-017 rII02
                       giš še-dug<sub>3</sub>
                                                                  Ni II-165 rI15
                                                                                        giš še-nu
 Ni II-020 rI16
                                                                  Ni II-174 rI16
                       giš še-dug<sub>3</sub>
                                                                                        giš še-[
 Ni II-036 rI15
                                                                  Ni II-198 rI02'
                       giš š[e-du]g<sub>3</sub>
                                                                                        [] še-[
 Ni II-037 rI12'
                                                                  Ni II-200 rI02'
                       giš š[e-
                                                                                        giš še-[
 Ni II-039 rI05'
                       giš še-dug,
                                                                  Ni II-209 rI02'
                                                                                        giš še-nu
 Ni II-054 rII04
                                                                  Ni II-245 I04
                       giš [š]e-dug<sub>3</sub>
                                                                                        [gi]š še-nu
 Ni II-058 rI16
                       giš še-dug<sub>3</sub>
                                                                  Ni IV-10
                                                                              2
                                                                                        giš še-nu
                                                                  Ni IV-12 rI13
 Ni II-065 rI04'
                                                                                        giš še-nu
                       giš še-[
 Ni II-085 rI15
                       giš še-dug<sub>3</sub>
                                                                  Ni U-05
                                                                              II02'
                                                                                        giš š[e-
                                                                  Ni U-24
 Ni II-089 rI04'
                       giš še-d[ug<sub>3</sub>]
                                                                              I04'
                                                                                        giš []-nu
 Ni II-107 rI06'
                       [] š[e-
 Ni II-109 rI11'
                                                                017 3052
                                                                              giš še-še
                       giš še-dug,
 Ni II-110 rI15
                                                                  Ni I-04
                                                                              I07'
                       giš še-dug,
                                                                                        [] še-še
 Ni II-129 rI03'
                                                                  Ni I-08
                                                                              I12'
                       giš še-dug<sub>3</sub>
                                                                                        giš še-še
 Ni II-140 rI15
                       giš še-dug,
                                                                  Ni II-001 rI17
                                                                                        giš še-še
 Ni II-141 rI15
                       giš še-[
                                                                  Ni II-002 rII20'
                                                                                        giš še-še
 Ni II-143 rI07'
                       giš še-dug<sub>3</sub>
                                                                  Ni II-013 rI14'
                                                                                        giš še-še
 Ni II-155 rI17
                                                                  Ni II-014 rI04'
                                                                                        giš [š]e-[š]e
                       [] še-dug<sub>3</sub>
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Ni II-017 rII04
                                                               Ni II-165 rI18
                      giš še-še
                                                                                   giš ši[ni]g
  Ni II-020 rI17
                                                               Ni II-174 rI18
                      giš še-še
                                                                                   giš ši[nig]
 Ni II-036 rI17
                                                               Ni II-198 rI04'
                          š]e
                                                                                   [] š[inig]
 Ni II-037 rI14'
                      giš š[e-
                                                               Ni II-209 rI04'
                                                                                   giš šinig
 Ni II-054 rII05
                                                               Ni II-245 I07
                      giš še-še
                                                                                   [gi]š šinig
 Ni II-058 rII01
                                                               Ni II-282 rI02'
                      [ š]e-š[e]
                                                                                   [] šinig
 Ni II-063 rI02'
                                                               Ni IV-12
                                                                          rI14
                      giš še-še
                                                                                   giš šinig
 Ni II-065 rI06'
                                                              Ni U-05
                                                                          II04'
                      giš še-še
                                                                                   giš šinig
 Ni II-085 rI17
                      giš še-še
                                                              Ni U-24
                                                                          I07'
                                                                                   giš šinig?
  Ni II-089 rI06'
                      giš š[e-
 Ni II-109 rI13'
                                                             019 3072
                      giš še-še
                                                                          giš šinig-dili
 Ni II-110 rI17
                                                                          I02'
                      giš še-[
                                                               Ni I-01
                                                                                   [giš] šinig-dili
 Ni II-129 rI04'
                                                               Ni I-04
                                                                          I09'
                                                                                   [ šin]ig-dili
                      giš še-še
 Ni II-140 rI17
                      giš še-še
                                                               Ni I-08
                                                                          I14'
                                                                                   [ ši]nig-dili
 Ni II-141 rI17
                      giš še-[
                                                               Ni II-001 rI19
                                                                                   giš šinig-dili
                                                              Ni II-002 rII22'
 Ni II-143 rI09'
                      giš še-n[u?]
                                                                                   giš šinig-dili
 Ni II-157 rII03'
                                                               Ni II-013 rI16'
                      giš še-[
                                                                                   giš šinig-dili
 Ni II-162 rI17
                                                               Ni II-014 rI06'
                                                                                   giš šinig-dili
                      giš še-[
 Ni II-164 rI17
                                                              Ni II-017 rII06
                                                                                   giš ši[nig]-dili
                      giš še-še
 Ni II-165 rI17
                                                              Ni II-020 rI19
                      giš še?-[
                                                                                   giš šinig-dili
 Ni II-174 rI17
                                                              Ni II-054 rII07
                                                                                   giš šin[ig-d]ili
                      giš še-[
 Ni II-198 rI03'
                      [] še-še
                                                              Ni II-058 rII03
                                                                                   [g]iš šinig-dili
 Ni II-200 rI03'
                                                              Ni II-063 rI04'
                      giš še-[
                                                                                   giš šinig-dili
 Ni II-209 rI03'
                      giš še-še
                                                              Ni II-065 rI08'
                                                                                   giš šinig-[
 Ni II-245 I06
                                                              Ni II-066 rI02'
                      giš še-še
                                                                                   giš šinig-di[li]
 Ni II-282 rI01'
                                                              Ni II-085 rI19
                      [ -š]e
                                                                                   giš šinig-dili
 Ni U-05
                                                              Ni II-096 rI15
             II03'
                      giš še-š[e]
                                                                                   giš šinig-[
 Ni U-24
             I06'
                      giš [š]e-še
                                                               Ni II-103 rI01'
                                                                                   giš šinig-[
                                                               Ni II-109 rI15'
                                                                                   giš šinig-dili
018 3067
                                                              Ni II-110 rI19
             giš šinig
                                                                                   giš šinig-dili
                                                              Ni II-141 rI19
 Ni I-01
             I01'
                      [giš ši]nig
                                                                                   giš šinig-[
 Ni I-04
             I08'
                      [] šin[ig]
                                                              Ni II-143 rI11'
                                                                                   [gi]š š[inig-
 Ni I-08
             I13'
                                                              Ni II-157 rII05'
                      [ ] šinig
                                                                                   giš šinig-dili
 Ni II-001 rI18
                                                              Ni II-160 I02
                                                                                   giš šinig-[
                      giš šinig
 Ni II-002 rII21'
                                                              Ni II-162 rI19
                      giš šinig
                                                                                   giš šinig-[
 Ni II-013 rI15'
                                                              Ni II-164 rI19
                      giš šinig
                                                                                   giš šinig-dili
 Ni II-014 rI05'
                                                              Ni II-165 rI19
                                                                                   giš šinig-dili
                      giš [ši]nig
 Ni II-017 rII05
                      giš ši[nig
                                                              Ni II-174 rI19
                                                                                   giš šinig-[
 Ni II-020 rI18
                                                              Ni II-198 rI05'
                      giš šinig
                                                                                   [] šinig-[
 Ni II-030 rII01
                                                              Ni II-209 rI05'
                                                                                   giš šinig-dili
                      [ šin]ig
 Ni II-036 rI18
                                                              Ni II-240 rI01'
                      [ ši]nig
                                                                                   giš šinig-dili
 Ni II-054 rII06
                      giš šin[ig]
                                                              Ni II-245 I08
                                                                                   g[iš šini]g-dili
 Ni II-058 rII02
                                                              Ni II-257
                                                                                   giš ši[nig]-dili
                      [g]iš šinig
                                                                          rI01'
                                                                                   giš šinig-dili
 Ni II-063 rI03'
                      giš šinig
                                                              Ni II-282 rI03'
 Ni II-065 rI07'
                                                              Ni U-05
                                                                          II05'
                                                                                   giš šinig-dili
                      giš šin[ig]
                                                              Ni U-24
                                                                          I09'
 Ni II-066 rI01'
                      giš š[inig]
                                                                                   giš šinig-dili
 Ni II-085 rI18
                      giš šinig
 Ni II-096 rI14
                                                             020 3068
                      giš ši[nig]
                                                                          giš šinig-kur
 Ni II-109 rI14'
                                                              Ni I-01
                                                                          I03'
                      giš šinig
                                                                                   [giš] šinig-kur
 Ni II-110 rI18
                                                               Ni I-04
                                                                          I10'
                      giš šin[ig]
                                                                                   ]-kur-ra
 Ni II-140 rI18
                                                              Ni I-08
                                                                          I15'
                                                                                   [ šini]g-kur
                      giš ši[nig]
 Ni II-141 rI18
                                                              Ni II-001 rI20
                      giš [
                                                                                   giš šinig-kur-ra
 Ni II-157 rII04'
                      giš šinig
                                                              Ni II-002 rII23
                                                                                   giš šinig-kur-ra
 Ni II-162 rI18
                      giš [
                                                              Ni II-013 rI17'
                                                                                   giš šinig-AŠ-kur-ra
 Ni II-164 rI18
                                                              Ni II-014 rI07'
                      giš šinig
                                                                                   giš šinig-kur
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Ni II-020 rI20
                               giš šinig-kur-ra
                                                                                        Ni II-160 I04
                                                                                                                      giš šar<sub>x</sub>(NE)-ša<sub>4</sub>-[
  Ni II-054 rII08
                               giš šinig-[
                                                                                        Ni II-164 rI21
                                                                                                                      giš š[ar<sub>x</sub>(NE)-š]a<sub>4</sub>-bid<sub>3</sub>
  Ni II-058 rII04
                                                                                                                      giš šar<sub>x</sub>(NE)-[ -b]id<sub>3</sub>
                               [g]iš šinig-kur-ra
                                                                                        Ni II-165 rI21
  Ni II-063 rI05'
                               giš šinig-kur-ra
                                                                                        Ni II-174 rI21
                                                                                                                      [g]iš š[ar<sub>x</sub>(NE)
  Ni II-065 rI09'
                                        -k]ur
                                                                                        Ni II-198 rI07'
                                                                                                                      giš \tilde{s}ar_{x}(NE)-\tilde{s}a_{4}-bi[d_{3}]
  Ni II-066 rI03'
                               giš šinig-kur-r[a]
                                                                                        Ni II-209 rI07'
                                                                                                                      giš [š]ar_x(NE)-š[a_4-
  Ni II-085 rI20
                               giš šinig-kur-ra
                                                                                        Ni II-235 rI02'
                                                                                                                      [] sar_{x}(NE)-sa_{x}-bid<sub>x</sub>
                               giš šinig-k[ur
  Ni II-096 rI16
                                                                                        Ni II-240 rI03'
                                                                                                                      giš šar<sub>x</sub>(NE)-ša<sub>4</sub>-bid<sub>3</sub>
  Ni II-103 rI02'
                               giš šinig-kur-[
                                                                                        Ni II-245 I10
                                                                                                                      [ \S]ar<sub>x</sub>(NE)-\Sa<sub>4</sub>-bid<sub>3</sub>
  Ni II-109 rI16'
                               giš šinig-kur-ra
                                                                                        Ni II-257 rI03'
                                                                                                                      giš š]ar<sub>x</sub>(NE)-ša<sub>4</sub>-bid<sub>3</sub>
                                                                                                                      [] \S[ar_x(NE)-
                               giš šinig-kur-ra
  Ni II-110 rI20
                                                                                        Ni II-271 rII01'
  Ni II-141 rI20
                               giš šinig-[
                                                                                        Ni II-282 rI05'
                                                                                                                      giš šar<sub>x</sub>(NE)-ša<sub>4</sub>-bi[d<sub>3</sub>]
  Ni II-143 rI12'
                               giš šinig-[
                                                                                        Ni IV-09
                                                                                                        2
                                                                                                                      giš šar<sub>x</sub>(NE)-ša<sub>4</sub>-bid<sub>3</sub>
  Ni II-157 rII06
                               giš šinig-kur-ra
                                                                                        Ni IV-12
                                                                                                        rI16
                                                                                                                      giš šar<sub>x</sub>(NE)-ša<sub>4</sub>-bid<sub>3</sub>
  Ni II-160 I03
                               giš šinig-kur-[
                                                                                        Ni U-05
                                                                                                        II07'
                                                                                                                      giš šar (NE)-ša,-bid,
                                                                                                        I02'
  Ni II-164 rI20
                               giš šinig-AŠ-kur
                                                                                        Ni U-18
                                                                                                                                 ]-ša<sub>4</sub>-bid<sub>3</sub>
                                                                                                                     Ni II-165 rI20
                               giš šinig-kur-ra
                                                                                                        giš MES-šar<sub>x</sub>(NE)-ša<sub>4</sub>-bid<sub>3</sub>
  Ni II-174 rI20
                               giš šinig-[
                                                                                      022 3054
                                                                                                        I05'
  Ni II-198 rI06'
                               giš šinig-ku[r]
                                                                                        Ni I-01
                                                                                                                      giš MES-šar<sub>x</sub>(NE)-ša<sub>4</sub>-bid<sub>3</sub>
  Ni II-209 rI06'
                               giš šinig-kur-ra
                                                                                        Ni I-08
                                                                                                        I17'
                                                                                                                            -ša]r_x(NE)-ša_4-bid_3
  Ni II-235 rI01'
                               [] šinig-[
                                                                                        Ni II-001 rI22
                                                                                                                      giš MES-šar<sub>x</sub>(NE)-ša<sub>4</sub>-bid<sub>3</sub>
  Ni II-240 rI02'
                               giš šinig-kur
                                                                                        Ni II-002 rII25'
                                                                                                                      giš MES-šar<sub>x</sub>(NE)-AL-bid<sub>3</sub>
  Ni II-245 I09
                               [ šin]ig-kur-r[a]
                                                                                        Ni II-013 rI19'
                                                                                                                      giš MES-šar<sub>x</sub>(NE)-ša<sub>4</sub>-TUG<sub>2</sub>
  Ni II-257 rI02'
                               giš šinig-kur-ra
                                                                                        Ni II-014 rI09'
                                                                                                                      giš MES-[
  Ni II-282 rI04'
                               giš šinig-kur-r[a]
                                                                                        Ni II-020 rII01
                                                                                                                     [] MES-[]-\check{s}a_4-bid<sub>3</sub>
                               giš šinig-kur-ra
  Ni IV-09 1
                                                                                        Ni II-051 rII02
                                                                                                                      giš ME[S]-\tilde{s}[ar_x(NE)]-\tilde{s}[a_4-
  Ni IV-12 rI15
                               giš šinig-kur
                                                                                        Ni II-054 rII10
                                                                                                                      giš MES-NE
  Ni U-05
                  II06'
                               giš šinig-kur-ra
                                                                                        Ni II-058 rII06
                                                                                                                      [ \check{s}]ar<sub>x</sub>(NE)-\check{s}a<sub>4</sub>-bid<sub>3</sub>
  Ni U-18
                  I01'
                               [ š]inig-kur-[
                                                                                        Ni II-063 rI07'
                                                                                                                      giš ME[S]-š[ar<sub>x</sub>(NE)-
  Ni U-24
                  I08'
                               giš šinig-kur
                                                                                        Ni II-085 rI22
                                                                                                                      giš MES-\delta[ar_x(NE)-\delta]a_4-[
                                                                                        Ni II-096 rI18
                                                                                                                      giš MES-[
                  giš šar<sub>x</sub>(NE)-ša<sub>4</sub>-bid<sub>3</sub>
021 3053
                                                                                        Ni II-103 rI04'
                                                                                                                      giš MES-šar<sub>x</sub>(NE)-[
                                                                                                                      giš ME[S]-šar<sub>x</sub>(NE)-ša<sub>4</sub>-bid<sub>3</sub>
                  I04'
  Ni I-01
                               giš šar<sub>x</sub>(NE)-ša<sub>4</sub>-bid<sub>3</sub>
                                                                                        Ni II-110 rI22
  Ni I-04
                  I11'
                                                                                        Ni II-113 rI02'
                               [ ]-[\S]a_4-bi[d_3]
                                                                                                                      [ M]ES-\tilde{s}ar_x(NE)-\tilde{s}a_4-bid,
  Ni I-08
                  I16'
                                   š]ar<sub>x</sub>(NE)-ša<sub>4</sub>-bid<sub>3</sub>
                                                                                        Ni II-140 rII02
                                                                                                                      giš MES-šar, (NE)-ša,-bid,
  Ni II-001 rI21
                               giš šar<sub>x</sub>(NE)-ša<sub>4</sub>-bid<sub>3</sub>
                                                                                        Ni II-148 rII02
                                                                                                                      giš MES-[š]ar<sub>x</sub>(NE)-ša<sub>4</sub>-
  Ni II-002 rII24'
                               giš šar<sub>x</sub>(NE)-AL-bid<sub>3</sub>
                                                                                                                      bi[d<sub>3</sub>]
  Ni II-013 rI18'
                               giš šar<sub>x</sub>(NE)-ša<sub>4</sub>-TUG<sub>2</sub>
                                                                                        Ni II-157 rII08'
                                                                                                                      giš ME[S- š]a<sub>4</sub>-bid<sub>3</sub>
  Ni II-014 rI08'
                                                                                        Ni II-160 I05
                               giš \operatorname{šar}_{x}(\operatorname{NE})-\operatorname{ša}_{4}-bi[d_{3}]
                                                                                                                      giš MES-šar<sub>*</sub>(NE)-ša<sub>4</sub>-[
  Ni II-020 rI21
                                                                                        Ni II-164 rI22
                                                                                                                      giš []-šar<sub>x</sub>(NE)-ša<sub>4</sub>-bid<sub>3</sub>
                               [gi]š šar<sub>x</sub>(NE)-[š]a_4-bi[d_3]
  Ni II-051 rII01
                                                                                        Ni II-165 rI22
                                                                                                                      giš MES-š[ar<sub>x</sub>(NE)-
                               giš š[ar<sub>x</sub>(NE)-
  Ni II-054 rII09
                               giš NE
                                                                                        Ni II-198 rI08'
                                                                                                                      giš M[ES-
  Ni II-058 rII05
                               [ \S]ar<sub>x</sub>(NE)-\Sa<sub>4</sub>-bid<sub>3</sub>
                                                                                        Ni II-209 rI08'
                                                                                                                      giš MES-š[ar<sub>x</sub>(NE)-
  Ni II-063 rI06'
                                                                                        Ni II-216 rI01'
                                                                                                                            -š]ar_x(NE)-[
                               giš \S[ar_x(NE)]-\S[a_4-
                                                                                        Ni II-222 rII01
  Ni II-065 rI10'
                               [ \check{s}]ar<sub>*</sub>(NE)-\check{s}a_4-[
                                                                                                                      [] MES-\check{s}ar,(NE)-\check{s}a,-[
  Ni II-085 rI21
                               giš šar<sub>x</sub>(NE)-š[a<sub>4</sub>-
                                                                                        Ni II-235 rI03'
                                                                                                                      [gi]š MES-šar, (NE)-ša,-bid,
  Ni II-096 rI17
                               giš \tilde{s}[ar_{*}(NE)]-\tilde{s}[a_{4}]-b[id_{3}]
                                                                                        Ni II-240 rI04'
                                                                                                                      giš MES-šar, (NE)-ša,-bid,
  Ni II-103 rI03'
                               giš \operatorname{šar}_{x}(\operatorname{NE})-\operatorname{ša}_{4}-bi[d_{3}]
                                                                                        Ni II-245 I11
                                                                                                                            -š]ar_x(NE)-ša_4-bid<sub>3</sub>
  Ni II-110 rI21
                               giš šar<sub>x</sub>(NE)-ša<sub>4</sub>-bid<sub>3</sub>
                                                                                        Ni II-257 rI04'
                                                                                                                      giš MES-šar<sub>x</sub>(NE)-ša<sub>4</sub>-[
                                                                                                        rII02
  Ni II-113 rI01'
                               [\check{s}]ar_{\star}(NE)-\check{s}a_{\star}-bid_{3}
                                                                                        Ni II-271
                                                                                                                     [ ME]S-šar<sub>x</sub>(NE)-ša<sub>4</sub>-bid<sub>3</sub>
                                                                                        Ni II-282 rI06'
  Ni II-140 rII01
                               giš šar<sub>x</sub>(NE)-\delta[a<sub>4</sub>-
                                                                                                                      [ M]ES-\tilde{s}ar_x(NE)-\tilde{s}[a_4-
                                                                                        Ni U-05
  Ni II-141 rI21
                               giš š[ar<sub>x</sub>(NE)
                                                                                                        II08'
                                                                                                                      giš MES-šar<sub>x</sub>(NE)-ša<sub>4</sub>-bid<sub>3</sub>
  Ni II-143 rI13'
                               giš šar<sub>x</sub>(NE)-š[a<sub>4</sub>-
                                                                                        Ni U-18
                                                                                                        I03'
                                                                                                                            -š]ar_x(NE)-ša_4-bid<sub>3</sub>
  Ni II-148 rII01
                               giš šar<sub>x</sub>(NE)-ša<sub>4</sub>-bid<sub>3</sub>
  Ni II-157 rII07
                               giš šar<sub>x</sub>(NE)-ša<sub>4</sub>-bid<sub>3</sub>
                                                                                      023 3061
                                                                                                        giš lam
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Ni I-01
               I06'
                         giš lam
                                                                         Ni II-238 rII02
                                                                                                []LAM
  Ni I-08
               I18'
                                                                        Ni II-240 rI06'
                         []lam
                                                                                                 giš LAM
  Ni II-001 rI23
                         giš lam
                                                                         Ni II-257 rI06'
                                                                                                 giš [
  Ni II-002 rII26
                         giš lam
                                                                        Ni II-271 rII04'
                                                                                                []LAM
  Ni II-013 rI20'
                         giš lam
                                                                        Ni IV-12 rI18
                                                                                                 giš LUH?
  Ni II-015 rII01
                         []lam
                                                                        Ni U-05
                                                                                      II10'
                                                                                                 giš LAM
  Ni II-020 rII02
                                                                        Ni U-18
                                                                                      I05'
                                                                                                []LAM
                          giš la[m]
  Ni II-054 rII11
                         giš lam
  Ni II-058 rII07
                         []lam
                                                                      025 3074
                                                                                      giš u<sub>3</sub>-suh<sub>5</sub>
  Ni II-063 rI08'
                         giš lam
                                                                         Ni I-01
                                                                                      I08'
                                                                                                 giš u<sub>3</sub>-suh<sub>5</sub>
  Ni II-085 rI23
                         giš la[m<sub>2</sub>]
                                                                         Ni I-08
                                                                                      I20'
                                                                                                 [ ]-suh<sub>5</sub>
  Ni II-096 rI19
                         giš lam
                                                                         Ni II-001 rII02
                                                                                                 giš u<sub>3</sub>-[
  Ni II-110 rII01
                         giš lam
                                                                         Ni II-002 rII28'
                                                                                                 giš u<sub>3</sub>-suh<sub>5</sub>
  Ni II-113 rI03'
                         []lam
                                                                         Ni II-013 rI22'
                                                                                                 [g]iš u<sub>3</sub>-suh<sub>5</sub>
  Ni II-140 rII03
                         giš lam
                                                                         Ni II-015 rII03
                                                                                                 giš u<sub>3</sub>-suh<sub>5</sub>
  Ni II-148 rII03
                         giš lam
                                                                         Ni II-020 rII04
                                                                                                 giš u<sub>3</sub>-suh<sub>5</sub>
  Ni II-164 rII01
                         giš lam
                                                                        Ni II-021 rII01'
                                                                                                 [] u_3-su[h_5]
 Ni II-165 rI23
                         giš [
                                                                        Ni II-054 rII13
                                                                                                 giš u<sub>3</sub>-su[h<sub>5</sub>]
  Ni II-178 rII01
                                                                        Ni II-058 rII09
                                                                                                [] u_3-suh_5
                         [ ] lam
  Ni II-209 rI09'
                         giš l[am]
                                                                        Ni II-063 rI10'
                                                                                                 giš u<sub>3</sub>-suh<sub>5</sub>
  Ni II-216 rI02'
                         []lam
                                                                        Ni II-085 rI25
                                                                                                 giš u<sub>3</sub>-s[uh<sub>5</sub>
 Ni II-222 rII02
                         giš lam
                                                                        Ni II-094 rI01'
                                                                                                 giš u<sub>3</sub>-suh<sub>5</sub>
 Ni II-235 rI04'
                                                                        Ni II-096 rII01
                         giš lam
                                                                                                      ]-suh<sub>5</sub>
  Ni II-238 rII01
                         [ ] lam
                                                                        Ni II-110 rII03
                                                                                                 giš u3-suh5
 Ni II-240 rI05'
                         giš lam
                                                                        Ni II-113 rI05'
                                                                                                [] u_3-suh_5
 Ni II-257 rI05'
                                                                        Ni II-123 rI04'
                         giš [
                                                                                                 giš u3-suh5
  Ni II-271 rII03'
                                                                        Ni II-124 rII01
                         []lam
                                                                                                 [ ]-suh,
  Ni IV-12 rI17
                         giš lam
                                                                        Ni II-140 rII05
                                                                                                 giš u_3-su[h_5]
 Ni U-05
              II09'
                         giš lam
                                                                        Ni II-144 rII01'
                                                                                                 giš u<sub>3</sub>-[
 Ni U-18
              I04'
                                                                        Ni II-148 rII05
                         [ ] lam
                                                                                                 giš [
                                                                        Ni II-162 rII02
                                                                                                     ]-suh<sub>5</sub>
024 3062
               giš LAM
                                                                        Ni II-164 rII03
                                                                                                 giš u<sub>3</sub>-suh<sub>5</sub>
 Ni I-01
               I07'
                         giš LAM
                                                                        Ni II-165 rI25
                                                                                                [gi]š u_3-s[uh_5]
 Ni I-08
               I19'
                         [] LAM
                                                                        Ni II-174 rII01
                                                                                                      -su]h<sub>5</sub>
  Ni II-002 rII27'
                          giš LAM
                                                                        Ni II-178 rII03'
                                                                                                      ]-suh
                                                                                                ſ
 Ni II-013 rI21'
                                                                        Ni II-216 rI04'
                         giš LAM
                                                                                                 giš u3-suh5
 Ni II-015 rII02
                                                                        Ni II-217 rI03'
                         g[iš] LAM
                                                                                                 giš u<sub>3</sub>-suh<sub>5</sub>
  Ni II-020 rII03
                         giš LA[M]
                                                                        Ni II-222 rII04
                                                                                                giš u<sub>3</sub>-suh<sub>5</sub>
  Ni II-054 rII12
                         giš [L]AM
                                                                         Ni II-223 rI01'
                                                                                                giš u<sub>3</sub>-[
 Ni II-058 rII08
                         []LAM
                                                                        Ni II-235 rI06'
                                                                                                 giš u3-suh5
  Ni II-063 rI09'
                         giš LAM
                                                                        Ni II-238 rII03
                                                                                                    ]-suh<sub>5</sub>
  Ni II-085 rI24
                         giš [L]AM
                                                                        Ni II-240 rI07'
                                                                                                 giš u<sub>3</sub>-suh<sub>5</sub>
 Ni II-096 rI20
                         giš LAM
                                                                        Ni II-271 rII05'
                                                                                                [] u_3-[su]h_5
 Ni II-110 rII02
                         giš LAM
                                                                        Ni II-290 rI02'
                                                                                                [] u_3-[
                                                                        Ni IV-12 rI19
 Ni II-113 rI04'
                         []LAM
                                                                                                 giš u<sub>3</sub>-suh<sub>5</sub>
  Ni II-123 rI03'
                         giš LAM
                                                                        Ni U-05
                                                                                      II11'
                                                                                                 giš u<sub>3</sub>-su[h<sub>5</sub>]
 Ni II-140 rII04
                         giš LAM
                                                                        Ni U-14
                                                                                      I01'
                                                                                                      -su]h<sub>5</sub>
                                                                                                ſ
 Ni II-148 rII04
                         giš LAM
                                                                        Ni U-18
                                                                                      I06'
                                                                                                ſ
                                                                                                      ]-suh<sub>5</sub>
  Ni II-162 rII01
                         []LAM
  Ni II-164 rII02
                          giš LAM
                                                                       025a 3075
                                                                                      giš u<sub>3</sub>-suh<sub>5</sub>-tur
 Ni II-165 rI24
                         [g]iš LAM
                                                                         Ni II-021 rII02'
                                                                                                      s]uh<sub>5</sub>-tu[r]
                                                                                                ſ
                                                                         Ni II-054 rII14
  Ni II-178 rII02'
                         [ ] LAM
                                                                                                [] u_3-suh_5-tur
  Ni II-216 rI03'
                         [] LAM
                                                                        Ni II-290 rI04'
                                                                                                 giš u<sub>3</sub>-suh<sub>5</sub>-t[ur]
  Ni II-222 rII03
                         giš LAM
                                                                        Ni U-14
                                                                                      I02'
                                                                                                      -su]h<sub>5</sub>-tur
                                                                                                [
  Ni II-235 rI05'
                                                                        Ni U-18
                                                                                                      ]-suh<sub>5</sub>-tur
                         giš LAM
                                                                                      I07'
                                                                                                [
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Ni II-039 rII02'
                                                                                                                   giš pa-u<sub>3</sub>-suh<sub>5</sub>
025b 3079
                                                                                      Ni II-063 rI12'
                 giš u<sub>3</sub>-suh<sub>5</sub>-pa-kud
                                                                                                                   giš pa-u<sub>3</sub>-[
  Ni II-021 rII03'
                                    ]-suh<sub>5</sub>-pa-kud
                                                                                      Ni II-074 rII02
                                                                                                                        ]-suh<sub>5</sub>
  Ni U-05
                  rI01
                              giš u<sub>3</sub>-suh<sub>5</sub>-pa-kud
                                                                                      Ni II-085 rI27
                                                                                                                   giš pa-u<sub>3</sub>-[
  Ni U-14
                  I03'
                                                                                      Ni II-094 rI03'
                                            -p]a-kud
                                                                                                                   giš pa-u<sub>3</sub>-suh<sub>5</sub>
  Ni U-18
                  I08'
                                     ]-suh<sub>5</sub>-pa-kud
                                                                                      Ni II-096 rII03
                                                                                                                   pa-u<sub>3</sub>-suh<sub>5</sub>
                                                                                      Ni II-113 rI07'
                                                                                                                   [p]a-u_3-suh_5
025c
                  giš u<sub>3</sub>-suh<sub>5</sub>-a-de<sub>5</sub>-a
                                                                                      Ni II-123 rI06'
                                                                                                                   giš pa-u<sub>3</sub>-suh<sub>5</sub>
  Ni II-021
                 rII04'
                                    ]-suh<sub>5</sub>-a-de<sub>2</sub>-a
                                                                                      Ni II-124 rII03
                                                                                                                   []-u_3-suh_5
  Ni U-05
                  rI02
                              giš u_3-suh<sub>5</sub>-[-d]e<sub>5</sub>-a
                                                                                       Ni II-143 rII02'
                                                                                                                   giš pa-u<sub>3</sub>-[
                                                                                       Ni II-144 rII03'
                                                                                                                   giš pa-u<sub>3</sub>-su[h<sub>5</sub>]
026 3083
                  giš še-u<sub>3</sub>-suh<sub>5</sub>
                                                                                       Ni II-148 rII06
                                                                                                                   giš pa-u<sub>3</sub>-suh<sub>5</sub>
  Ni I-01
                  I09'
                              giš še-u<sub>3</sub>-suh<sub>5</sub>
                                                                                      Ni II-162 rII04
                                                                                                                   []-u_3-suh_5
  Ni I-08
                  I21'
                                    ]-suh<sub>5</sub>
                                                                                       Ni II-164 rII05
                                                                                                                   giš pa-u<sub>3</sub>-suh<sub>5</sub>
  Ni II-001 rII03
                              giš še u<sub>3</sub>-suh<sub>5</sub>
                                                                                      Ni II-174 rII03
                                                                                                                   giš []-u<sub>3</sub>-suh<sub>5</sub>
  Ni II-002 rII29'
                              [g]iš še-u<sub>3</sub>-suh<sub>5</sub>
                                                                                      Ni II-197 rII02'
                                                                                                                   [ ]-u_3-suh_5
  Ni II-013 rI23'
                              [] še-u<sub>3</sub>-suh<sub>5</sub>
                                                                                      Ni II-216 rI06'
                                                                                                                   giš pa-u<sub>3</sub>-suh<sub>5</sub>
  Ni II-015 rII04
                              giš še-u<sub>3</sub>-suh<sub>5</sub>
                                                                                      Ni II-222 rII06
                                                                                                                   giš pa-NU-u<sub>3</sub>-suh<sub>5</sub>
  Ni II-020 rII05
                              giš še-u<sub>3</sub>-suh<sub>5</sub>
                                                                                      Ni II-235 rI08'
                                                                                                                   [ ]-u_3-[
  Ni II-021 rII05'
                                    ]-u_3-suh_5
                                                                                      Ni II-240 rI09'
                                                                                                                   giš pa-u<sub>3</sub>-suh<sub>5</sub>
  Ni II-023 rII01
                                                                                      Ni II-290 rI06'
                              [g]iš še-[ ]-suh<sub>5</sub>
                                                                                                                   [p]a-u_3-[
  Ni II-039 rII01'
                              giš še-u<sub>3</sub>-su[h<sub>5</sub>]
                                                                                      Ni U-05
                                                                                                      rI04
                                                                                                                   giš pa-u<sub>3</sub>-suh<sub>5</sub>
  Ni II-058 rII10
                              [
                                     ]-suh<sub>5</sub>
  Ni II-063 rI11'
                              giš še-u<sub>3</sub>-s[uh<sub>5</sub>
                                                                                    027a
                                                                                                      giš an-u3-suh5
  Ni II-074 rII01
                                                                                      Ni II-039 rII03'
                                    ]-suh<sub>5</sub>
                                                                                                                   giš an-u<sub>3</sub>-suh<sub>5</sub>
  Ni II-085 rI26
                              giš še-u<sub>3</sub>-[
                                                                                      Ni II-096 rII04
                                                                                                                   [ ]-nu-suh<sub>5</sub>
  Ni II-094 rI02'
                                                                                      Ni II-290 rI05'
                              giš [š]e-u<sub>3</sub>-suh<sub>5</sub>
                                                                                                                   [gi] an-u_3-s[uh_5]
  Ni II-096 rII02
                              []-u_3-suh_5
                                                                                      Ni U-05
                                                                                                      rI05
                                                                                                                   giš an-u<sub>3</sub>-suh<sub>5</sub>
  Ni II-110 rII04
                              giš še-u<sub>3</sub>-su[h<sub>5</sub>]
  Ni II-113 rI06'
                                                                                    028 3091
                                                                                                      giš bir-GAM-la-e
                              [\check{s}]e-u_3-suh_5
  Ni II-123 rI05'
                              giš še-u<sub>3</sub>-suh<sub>5</sub>
                                                                                      Ni I-01
                                                                                                      I11'
                                                                                                                   giš bir-GAM-la-e
  Ni II-124 rII02
                              [ š]e-u<sub>3</sub>-suh<sub>5</sub>
                                                                                      Ni II-001 rII05
                                                                                                                   giš bir-GAM-la-e
  Ni II-140 rII06
                              []-u_3-suh_5
                                                                                      Ni II-015 rII05
                                                                                                                   giš bir-la-GAM-e
  Ni II-143 rII01'
                              giš še-u<sub>3</sub>-suh<sub>5</sub>
                                                                                      Ni II-020 rII06
                                                                                                                   giš bi[r]-GAM-la-e
  Ni II-144 rII02'
                              giš še-u<sub>3</sub>-[
                                                                                      Ni II-023 rII03
                                                                                                                   [b]ir-GAM-la-e
                                                                                                                   giš bir-e-la
  Ni II-162 rII03
                                       ]-suh<sub>5</sub>
                                                                                      Ni II-039 rII04'
                              Γ
  Ni II-164 rII04
                                                                                      Ni II-044 rII06
                              giš še-u<sub>3</sub>-suh<sub>5</sub>
                                                                                                                            ]-e
  Ni II-174 rII02
                                       ]-suh<sub>5</sub>
                                                                                      Ni II-046 rII03'
                                                                                                                       b]ir-GAM-e-la
  Ni II-178 rII04'
                                                                                      Ni II-047 rII01
                                                                                                                   giš bi-GAM-la-e
                                       ]-suh<sub>5</sub>
                              Т
  Ni II-197 rII01
                              []-u_3-[
                                                                                      Ni II-063 rI13'
                                                                                                                   [ ]-la-[
  Ni II-216 rI05'
                              giš še-u<sub>3</sub>-suh<sub>5</sub>
                                                                                      Ni II-070 rII03
                                                                                                                         ]-e
  Ni II-217 rI04'
                               giš še-u<sub>3</sub>-suh<sub>5</sub>
                                                                                      Ni II-074 rII03'
                                                                                                                        -1]a-e
  Ni II-222 rII05
                                                                                                                   giš bir-GAM-l[a-
                              giš še-u<sub>3</sub>-suh<sub>5</sub>
                                                                                      Ni II-085 rI28
  Ni II-223 rI02'
                              giš še-[
                                                                                      Ni II-094 rI04'
                                                                                                                   giš bir-GAM-LAGAB-e
  Ni II-235 rI07'
                                                                                      Ni II-096 rII05
                              [gi]š [š]e-u<sub>3</sub>-suh<sub>5</sub>
                                                                                                                            -1]a-e
  Ni II-238 rII04
                               [ š]e-u<sub>3</sub>-suh<sub>5</sub>
                                                                                      Ni II-110 rII05
                                                                                                                      bi]r-GAM-la-e
  Ni II-240 rI08'
                              giš še-u<sub>3</sub>-suh<sub>5</sub>
                                                                                      Ni II-124 rII04
                                                                                                                            1-la-e
  Ni IV-12 rI20
                              giš še-u<sub>3</sub>-suh<sub>5</sub>
                                                                                      Ni II-140 rII07
                                                                                                                   giš bi[r]-GAM-[]-e
  Ni U-05
                 rI03
                              giš še-u<sub>3</sub>-suh<sub>5</sub>
                                                                                      Ni II-141 rII01
                                                                                                                            ]-la-e
                                                                                      Ni II-143 rII03'
                                                                                                                   giš [bi]r-GAM-la-[
                  giš pa-u<sub>3</sub>-suh<sub>5</sub>
                                                                                                                   giš bir-GAM-la?-e
027 3088
                                                                                      Ni II-144 rII04'
  Ni I-01
                  I10'
                               giš pa-u<sub>3</sub>-suh<sub>5</sub>
                                                                                      Ni II-148 rII07
                                                                                                                        ]-GAM-la-e
  Ni II-001 rII04
                              giš pa-u<sub>3</sub>-suh<sub>5</sub>
                                                                                      Ni II-162 rII05
                                                                                                                            -1]a-e
  Ni II-013 rI24'
                              [] u_3-suh_5
                                                                                      Ni II-164 rII06
                                                                                                                   giš bir-GAM-e
  Ni II-023 rII02
                                                                                      Ni II-174 rII04
                                                                                                                   giš [bi]r-GAM-MES-e
                              giš pa-u<sub>3</sub>-suh<sub>5</sub>
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Ni II-178 rII05'
                                                             Ni II-116 rII01
                            ]-la-e
                                                                                 giš šennur
 Ni II-197 rII03'
                                                             Ni II-121 I03'
                     [] bir-GAM-la-e
                                                                                 giš š[ennur]
 Ni II-216 rI07'
                     giš bir-GAM-la-e
                                                             Ni II-140 rII09
                                                                                 giš [šenn]ur
 Ni II-222 rII07
                     giš bir-GAM-LAGAB
                                                             Ni II-141 rII03
                                                                                 [ šen]nur
 Ni II-240 rI10'
                                                             Ni II-143 rII05'
                     giš bir-GAM-la-e
                                                                                 giš šennur
 Ni IV-01 1
                     giš bi[r-GA]M-l[a]-e
                                                             Ni II-144 rII06'
                                                                                 [] šennur
 Ni U-05
            rI06
                                                             Ni II-162 rII07
                     giš bir-la-e
                                                                                 [] šennur
                                                             Ni II-164 rII08
                                                                                 giš {erased sign} šennur
029 3092
            giš šim-gig
                                                             Ni II-174 rII06
                                                                                 giš šennur
                     giš šim-gig
 Ni I-01
            I12'
                                                             Ni II-178 rII07'
                                                                                 [] šennur
                                                             Ni II-197 rII05'
 Ni II-001 rII06
                     giš šim-gig
                                                                                 [] šennur
 Ni II-015 rII06
                     giš šim-gig
                                                             Ni II-216 rI09'
                                                                                 giš šennur
 Ni II-020 rII07
                                                             Ni II-222 rII09
                     giš šim-gig
                                                                                 [ šen]nur
 Ni II-023 rII04
                     [ š]im-g[ig]
                                                             Ni U-05
                                                                        rI08
                                                                                 [gi]š šennur
 Ni II-039 rII05'
                     giš šim-gig
 Ni II-044 rII07
                                                           030a 3128
                                                                        giš šennur-kur-ra
                            -g]ig
                                                             Ni U-05
 Ni II-046 rII04'
                     [] šim-gig
                                                                        rI09
                                                                                 [ šennu]r-kur-ra
 Ni II-047 rII02
                     giš šim-gig
 Ni II-070 rII04
                                                           031 3136
                                                                        giš lam-gal
                         -g]ig
                                                                        I14'
 Ni II-085 rI29
                     giš š[im-
                                                             Ni I-01
                                                                                 giš lam-gal
 Ni II-094 rI05'
                                                             Ni II-001 rII08
                     giš šim-[
                                                                                 giš lam-gal
 Ni II-110 rII06
                     giš [š]im-gig
                                                             Ni II-015 rII08
                                                                                 giš lam-gal
 Ni II-113 rI08'
                     [ š]im-gi[g]
                                                             Ni II-020 rII09
                                                                                 giš lam-gal
 Ni II-121 I02'
                     giš š[im-
                                                             Ni II-046 rII06'
                                                                                 [] lam-gal
                                                             Ni II-047 rII04
 Ni II-140 rII08
                     giš ši[m-g]ig
                                                                                 [] la[m-ga]l
 Ni II-141 rII02
                                                             Ni II-074 rII05'
                                                                                    ]-gal
                         ]-gig
 Ni II-143 rII04'
                                                             Ni II-088 rI03'
                     [] šim-gig
                                                                                 giš lam-[
 Ni II-144 rII05'
                     giš ši[m-g]ig
                                                             Ni II-096 rII07
                                                                                    ]-gal
 Ni II-148 rII08
                                                             Ni II-110 rII08
                                                                                 [ 1]am-gal
                     [ ši]m-g[ig]
 Ni II-162 rII06
                                                             Ni II-111 rI02'
                                                                                 [] lam-gal
                         ]-gig
 Ni II-164 rII07
                     giš šim-gig
                                                             Ni II-113 rI10'
                                                                                 [gi]š lam-gal
 Ni II-174 rII05
                     giš šim-gig
                                                             Ni II-116 rII02
                                                                                 giš lam-gal
 Ni II-178 rII06'
                                                             Ni II-121 I04'
                     [ ši]m-gig
                                                                                 giš lam-gal
 Ni II-197 rII04'
                                                             Ni II-140 rII10
                                                                                 giš [la]m-gal
                     [ š]im-gi[g]
 Ni II-216 rI08'
                     giš šim-gig
                                                             Ni II-141 rII04
                                                                                 [] lam-gal
 Ni II-222 rII08
                                                             Ni II-143 rII06'
                     giš šim-gig
                                                                                 giš lam-gal
 Ni IV-01 2
                                                             Ni II-144 rII07'
                                                                                 [] lam-gal
                     giš šim-[
 Ni IV-12 rI21
                     giš šim-gig
                                                             Ni II-162 rII08
                                                                                    ]-gal
 Ni U-05
            rI07
                                                             Ni II-164 rII09
                     giš šim-gig
                                                                                 giš lam-gal
                                                             Ni II-174 rII07
                                                                                 giš lam-gal
030 3126
                                                             Ni II-178 rII08'
            giš šennur
                                                                                 [] lam-gal
 Ni I-01
            I13'
                     giš šennur
                                                             Ni II-197 rII06'
                                                                                 [] lam-gal
 Ni II-001 rII07
                                                             Ni II-201 rI02'
                     giš šennur
                                                                                 giš lam-g[al?]
 Ni II-015 rII07
                     giš šennur
                                                             Ni II-217 rI09'
                                                                                 giš lam-g[al]
                                                             Ni II-224 rII01'
 Ni II-020 rII08
                     giš šennur
                                                                                 [ ] lam-[
 Ni II-039 rII06
                     giš [šennu]r
                                                             Ni II-267 rI02'
                                                                                 giš lam-[
 Ni II-044 rII08
                     [ šennu]r
                                                             Ni II-290 I02'
                                                                                 [gi]š lam-gal
                                                             Ni IV-12 rI23
                                                                                 giš lam-gal
 Ni II-046 rII05'
                     [] šennur
 Ni II-047 rII03
                                                             Ni U-05
                                                                       rI10
                     giš šennur
                                                                                 [ 1]am-gal
 Ni II-070 rII05
                     [] šennur
 Ni II-074 rII04'
                     [] šennur
                                                           032 3137
                                                                        giš lam-tur
                                                             Ni I-01
 Ni II-096 rII06
                     [] šennur
                                                                        I15'
                                                                                 giš lam-tur
 Ni II-110 rII07
                     [g]iš šennur
                                                             Ni II-001 rII09
                                                                                 giš lam-tur
 Ni II-111 rI01'
                     [ šen]nur
                                                             Ni II-015 rII09
                                                                                 giš lam-tur
 Ni II-113 rI09'
                                                             Ni II-020 rII10
                     [] šennur
                                                                                 giš lam-tu[r]
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Ni II-046 rII07'
                                                                       Ni I-01
                         [] lam-tur
                                                                                   I17'
                                                                                              giš ildag<sub>2</sub>
  Ni II-047 rII05
                              t]ur
                                                                       Ni II-001 rII11
                                                                                              giš ildag<sub>2</sub>
  Ni II-058 rII16
                                                                       Ni II-013 rII04'
                                                                                              giš il[dag,]
                              -r]a
  Ni II-074 rII06'
                             ]-tur
                                                                       Ni II-015 rII11
                                                                                              giš ildag,
  Ni II-085 rII02
                         giš lam-tur-ra
                                                                       Ni II-020 rII12
                                                                                              giš i[ildag,]
  Ni II-088 rI04'
                         giš lam-[
                                                                       Ni II-037 rII01
                                                                                              giš i[ldag<sub>2</sub>]
  Ni II-096 rII08
                                                                       Ni II-058 rII18
                             1-tur
                                                                                              [ ] ildag,
  Ni II-110 rII09
                                                                       Ni II-074 rII08'
                                                                                              [ il]dag,
                             ]-tur
  Ni II-111 rI03'
                         [] lam-tur
                                                                       Ni II-085 rII04
                                                                                              giš ildag,
  Ni II-116 rII03
                         giš lam-tur
                                                                       Ni II-088 rI06'
                                                                                              giš il[dag<sub>2</sub>]
  Ni II-140 rII11
                         giš l[am-tu]r
                                                                       Ni II-089 rII03'
                                                                                              giš ildag<sub>2</sub>
  Ni II-141 rII05
                         giš lam-tur
                                                                       Ni II-096 rII10
                                                                                              [ ] ildag<sub>2</sub>
  Ni II-143 rII07'
                         giš lam-t[ur]
                                                                       Ni II-105 rII03
                                                                                              giš il[dag<sub>2</sub>]
  Ni II-162 rII09
                         [ la]m-tur
                                                                       Ni II-110 rII11
                                                                                              giš ildag,
  Ni II-164 rII10
                         giš lam-tur
                                                                       Ni II-111 rI05'
                                                                                              [] ildag,
  Ni II-174 rII08
                         giš lam-tur
                                                                       Ni II-116 rII05
                                                                                              [gi]š ildag,
  Ni II-178 rII09'
                         [] lam-tur
                                                                       Ni II-141 rII07
                                                                                              giš ildag,
  Ni II-197 rII07'
                         [] lam-tur
                                                                       Ni II-143 rII09'
                                                                                              giš ildag<sub>2</sub>
  Ni II-201 rI01'
                         giš lam-[
                                                                      Ni II-159 rI02'
                                                                                              giš i[ldag<sub>2</sub>]
  Ni II-217 rI10'
                         giš lam-tu[r]
                                                                      Ni II-162 rII11
                                                                                              [ il]dag<sub>2</sub>
  Ni II-224 rII02'
                         g[iš] lam-tur
                                                                       Ni II-164 rII12
                                                                                              giš ildag,
  Ni II-267 rI03'
                         giš lam-t[ur]
                                                                       Ni II-174 rII10
                                                                                              giš ildag<sub>2</sub>
  Ni II-290 I03'
                                                                      Ni II-197 rII09'
                         [gi]š lam-tur
                                                                                              [gi]š ildag,
  Ni IV-12 rI24
                         [gi]š lam-tur
                                                                      Ni II-217 rI12'
                                                                                              giš ildag<sub>2</sub>
  Ni U-05
                                                                                              giš ildag<sub>2</sub>
              rI11
                           1-tur
                                                                       Ni II-224 rII04'
                                                                      Ni II-267 rI05'
                                                                                              giš i[ldag<sub>2</sub>]
033 3133
               giš al-la-nu-um
                                                                      Ni II-290 I05'
                                                                                              [gi]š ildag,
  Ni I-01
               I16'
                         giš al-la-nu-um
                                                                      Ni IV-07 1
                                                                                              giš ildag,
  Ni II-001 rII10
                         giš al-la-nu-um
                                                                      Ni IV-12 rI25
                                                                                              [ il]dag<sub>2</sub>
                         giš a[l-
  Ni II-013 rII03'
  Ni II-015 rII10
                         giš al-la-nu-um
                                                                     035 3140
                                                                                   giš ildag<sub>2</sub>-kur
  Ni II-020 rII11
                           ] x-um
                                                                       Ni I-01
                                                                                   I18'
                                                                                              giš ildag<sub>2</sub>-kur
  Ni II-046 rII08'
                                                                       Ni II-001 rII12
                         [] al-l[a]-n[u]-u[m]
                                                                                              giš il[dag2-
  Ni II-058 rII17
                              ]-um
                                                                      Ni II-013 rII05'
                                                                                              giš ildag<sub>2</sub>-[
                         [
  Ni II-074 rII07'
                            ]-la-nu-um
                                                                       Ni II-014 rII01'
                                                                                              [il]dag_2-ku[r]-r[a]
  Ni II-085 rII03
                         giš al-la-nu-um
                                                                       Ni II-015 rII12
                                                                                              giš il[dag<sub>2</sub>]-ku[r-r]a
  Ni II-088 rI05'
                                                                       Ni II-020 rII13
                         giš al-[
                                                                                              giš ildag<sub>2</sub>-[
  Ni II-089 rII02
                         giš al-la-nu-um
                                                                       Ni II-037 rII02
                                                                                              giš ildag<sub>2</sub>-[
  Ni II-096 rII09
                             -l]a-X-um
                                                                       Ni II-058 rII19
                                                                                                   ]-kur
  Ni II-105 rII02
                         giš al-l[a]-nu-u[m]
                                                                       Ni II-085 rII05
                                                                                              giš ild[ag<sub>2</sub>]-kur
  Ni II-111 rI04'
                                                                       Ni II-089 rII04'
                         [ ] al-la-nu-u[m]
                                                                                              giš ildag<sub>2</sub>-kur
  Ni II-116 rII04
                         giš al-la-nu-um
                                                                       Ni II-096 rII11
                                                                                              [ ] ildag<sub>2</sub>
  Ni II-141 rII06
                         giš al-la-nu-um
                                                                       Ni II-105 rII04
                                                                                              giš il[dag2-ku]r-ra
  Ni II-143 rII08'
                         giš al-la-[n]u-um
                                                                      Ni II-110 rII12
                                                                                              giš il[dag<sub>2</sub>]-kur-ra
                                                                                              [ ild]ag<sub>2</sub>-kur
  Ni II-162 rII10
                         [ a]l-la-nu-u[m]
                                                                      Ni II-111 rI06'
  Ni II-164 rII11
                         giš al-la-nu-um
                                                                      Ni II-116 rII06
                                                                                              [] ildag<sub>2</sub>-kur-ra
                                                                                              giš ildag<sub>2</sub>-kur
 Ni II-174 rII09
                         giš al-la-nu-um
                                                                      Ni II-141 rII08
  Ni II-197 rII08'
                                                                                              giš ildag<sub>2</sub>-kur
                         [gi]š al-la-nu-um
                                                                      Ni II-143 rII10'
  Ni II-217 rI11'
                         giš al-la-nu-um
                                                                      Ni II-159 rI03'
                                                                                              giš i[ldag<sub>2</sub>-
  Ni II-224 rII03'
                         giš [ ]-lam?-nu-[
                                                                       Ni II-162 rII12
                                                                                              [gi]š il[dag<sub>2</sub>]-GAM
  Ni II-267 rI04'
                         giš al-[
                                                                       Ni II-163 rII01
                                                                                              giš ildag<sub>2</sub>-[
  Ni II-290 I04'
                         [gi]š al-la-nu-um
                                                                      Ni II-164 rII13
                                                                                              giš ildag<sub>2</sub>-kur
  Ni U-05
              rI12
                              ]-nu-um
                                                                       Ni II-174 rII11
                                                                                              giš ildag2-kur
                                                                       Ni II-197 rII10'
                                                                                              [gi]š ildag<sub>2</sub>-kur
034 3138
                                                                      Ni II-217 rI13'
                                                                                              giš ildag<sub>2</sub>-kur-ra
              giš ildag<sub>2</sub>
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Ni II-224 rII05'
                          giš ildag<sub>2</sub>-kur
                                                                          Ni II-217 rI15'
                                                                                                   giš ildag<sub>2</sub>-šita<sub>3</sub>-[n]a
  Ni II-290 I06'
                          [] ildag<sub>2</sub>-kur
                                                                          Ni II-290 I08'
                                                                                                   [] ildag<sub>2</sub>-šita<sub>3</sub>-[
  Ni IV-07 2
                          giš ildag,-kur
                                                                          Ni P-01
                                                                                        AI01'
                                                                                                   []i[ldag<sub>2</sub>-
  Ni IV-12 rI27
                                   ]-kur
                                                                          Ni U-05
                                                                                        rII04
                                                                                                   giš ildag,-šita,-na
  Ni U-05
               rII02
                          giš ildag,-ku[r-r]a
                                                                         038 3152
                                                                                        giš kur-ra
036 3141
               giš ildag,-bur-ra
                                                                           Ni II-001 rII15
                                                                                                   giš kur-ra
  Ni I-01
               I19'
                                                                           Ni II-013 rII08'
                          [ ild]ag<sub>2</sub>-bur-ra
                                                                                                   giš kur-[
  Ni II-001 rII13
                          giš ildag<sub>2</sub>-bur-ra
                                                                          Ni II-014 rII04'
                                                                                                   [ ] kur-ra
  Ni II-013 rII06'
                          giš ildag,-[
                                                                           Ni II-027 rII04
                                                                                                   giš kur-[
  Ni II-014 rII02'
                          [gi]š ildag<sub>2</sub>-bur-r[a]
                                                                           Ni II-029 rII03'
                                                                                                   giš kur-ra
  Ni II-015 rII13
                          giš il[dag<sub>2</sub>-
                                                                           Ni II-035 rII01
                                                                                                   [gi]š kur-r[a]
  Ni II-027 rII02
                          giš il[dag<sub>2</sub>-
                                                                           Ni II-037 rII05
                                                                                                   giš kur-ra
  Ni II-029 rII01'
                          giš ildag<sub>2</sub>-bur-r[a
                                                                           Ni II-066 rII02'
                                                                                                         ]-ra
  Ni II-037 rII03
                          giš ildag,-bur-ra
                                                                          Ni II-068 rI04'
                                                                                                   giš kur-[
  Ni II-085 rII06
                                                                          Ni II-085 rII08
                          giš [ ]-bur-ra
                                                                                                   giš kur-[
  Ni II-089 rII05'
                          giš ildag,-bur-ra
                                                                          Ni II-089 rII07'
                                                                                                        ]-ra
  Ni II-105 rII05
                          giš [il]dag<sub>2</sub>-b[ur-r]a
                                                                          Ni II-105 rII07
                                                                                                         ]-ra
  Ni II-110 rII13
                                                                          Ni II-109 rII03'
                          giš ildag<sub>2</sub>-[
                                                                                                         ]-ra
                                                                                                   [
  Ni II-116 rII07
                          [ ild]ag<sub>2</sub>-bur-ra
                                                                          Ni II-110 rII15
                                                                                                         -r]a
                          giš ildag<sub>2</sub>-bur
                                                                          Ni II-141 rII11
  Ni II-141 rII09
                                                                                                   giš kur-ra
                          giš ildag<sub>2</sub>-[
  Ni II-143 rII11'
                                                                          Ni II-143 rII13'
                                                                                                   giš k[ur-
  Ni II-159 rI04'
                          giš i[ldag<sub>2</sub>-
                                                                          Ni II-159 rI06'
                                                                                                   giš ku[r-
  Ni II-162 rII13
                          giš ildag<sub>2</sub>-b[ur-
                                                                          Ni II-162 rII15
                                                                                                   [] kur-[r]a
  Ni II-163 rII02
                          giš [
                                                                          Ni II-163 rII04
                                                                                                   giš kur-ra
  Ni II-164 rII14
                          giš ildag<sub>2</sub>-bur
                                                                          Ni II-164 rII16
                                                                                                   giš [ku]r-ra
                          giš ildag<sub>2</sub>-bur
  Ni II-174 rII12
                                                                          Ni II-174 rII14
                                                                                                   giš kur-ra
  Ni II-184 rI01
                          giš il[dag<sub>2</sub>-
                                                                          Ni II-184 rI03
                                                                                                   giš ku[r-
  Ni II-197 rII111
                          [ ild]ag<sub>2</sub>-[
                                                                          Ni II-211 rI02
                                                                                                   [] kur-ra
  Ni II-217 rI14'
                          giš ildag<sub>2</sub>-bur-ra
                                                                          Ni II-217 rI16'
                                                                                                   giš kur-ra
  Ni II-290 I07'
                          [] ildag<sub>2</sub>-bur-[
                                                                          Ni II-257 rII01'
                                                                                                   giš kur-ra
  Ni U-05
               rII03
                          giš ildag,-bur
                                                                          Ni II-286 rII03
                                                                                                   giš kur-ra
  Ni U-24
               II04'
                          giš ildag<sub>2</sub>-bu[r-
                                                                          Ni II-290 I09'
                                                                                                   [] kur-ra
                                                                          Ni P-01
                                                                                        AI02'
                                                                                                   giš ku[r-
037 3146
               giš ildag<sub>2</sub>-šita<sub>3</sub>-na
                                                                          Ni U-05
                                                                                        rII05
                                                                                                   giš kur-ra
               I20'
                                                                          Ni U-24
                                                                                        II05'
  Ni I-01
                          [ ild]ag<sub>2</sub>-\sin a_3-n[a]
                                                                                                   giš kur-ra
  Ni II-001 rII14
                          giš ildag<sub>2</sub>-šita<sub>3</sub>-na
  Ni II-013 rII07'
                          giš ildag<sub>2</sub>-[
                                                                         039 3154
                                                                                        giš ab-ba
  Ni II-014 rII03'
                          [gi]š ildag,-šita,-na
                                                                           Ni II-001 rII16
                                                                                                   giš ab-ba
                                                                                                   giš ab-[
  Ni II-027 rII03
                          giš il[dag<sub>2</sub>-
                                                                          Ni II-013 rII09'
  Ni II-029 rII02'
                          giš ildag<sub>2</sub>-BU-R[A?]
                                                                          Ni II-014 rII05'
                                                                                                   [ a]b-ba
  Ni II-037 rII04
                          giš ildag<sub>2</sub>-šita<sub>3</sub>-X X
                                                                          Ni II-027 rII05
                                                                                                   giš a[b-
  Ni II-089 rII06'
                          giš ildag<sub>2</sub>-ši[ta<sub>3</sub>]-na
                                                                          Ni II-035 rII02
                                                                                                   giš ba-ab
  Ni II-105 rII06
                          g[iš ild]ag<sub>2</sub>-ši[ta<sub>3</sub>-n]a
                                                                          Ni II-037 rII06
                                                                                                   giš b[a]-ab
  Ni II-110 rII14
                          giš ildag<sub>2</sub>-[
                                                                          Ni II-062 rI02'
                                                                                                   giš ab-[
  Ni II-116 rII08
                                   -š]ita<sub>3</sub>-na
                                                                          Ni II-066 rII03'
                                                                                                   [ a]b-ba
  Ni II-141 rII10
                          giš ildag<sub>2</sub>-šita<sub>3</sub>-na
                                                                          Ni II-068 rI05'
                                                                                                   giš ab-[
  Ni II-143 rII12'
                          [ ild]ag_2-[šit]a_3-na
                                                                          Ni II-085 rII09
                                                                                                   giš ab-ba
  Ni II-159 rI05'
                          giš i[ldag<sub>2</sub>-
                                                                          Ni II-091 rII01'
                                                                                                   [ ] a[b-b]a
  Ni II-162 rII14
                                                                          Ni II-092 rI02'
                          [gi]š ildag<sub>2</sub>-š[ita<sub>3</sub>-
                                                                                                   giš a[b-
  Ni II-163 rII03
                                                                          Ni II-097 I01
                                                                                                   giš ab-b[a]
                          giš [
                                                                          Ni II-105 rII08
  Ni II-164 rII15
                          giš ildag<sub>2</sub>-šita<sub>3</sub>-na
                                                                                                   [ a]b-ba
  Ni II-174 rII13
                          giš ildag<sub>2</sub>-šita<sub>3</sub>-na
                                                                          Ni II-109 rII02'
                                                                                                   [ a]b-ba
  Ni II-184 rI02
                          giš il[dag<sub>2</sub>-
                                                                          Ni II-110 rII16
                                                                                                   giš ab-ba
  Ni II-211 rI01
                                                                          Ni II-141 rII12
                          giš ildag<sub>2</sub>-šita<sub>3</sub>-na
                                                                                                   giš ab-ba
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Ni II-143 rII14'
                         giš ab-b[a]
                                                                       Ni II-068 rI07'
                                                                                              giš gi_6-p[ar_3]
  Ni II-159 rI07'
                         giš a-ab-[
                                                                       Ni II-091 rII03'
                                                                                              [g]i_6-par<sub>4</sub>
  Ni II-162 rII16
                         [ a]b-b[a]
                                                                       Ni II-097 I03
                                                                                              giš gi<sub>6</sub>-par<sub>4</sub>
  Ni II-163 rII05
                         giš ab-ba
                                                                       Ni II-105 rII10
                                                                                              [g]i_6-par<sub>4</sub>
  Ni II-164 rII17
                                                                       Ni II-106 rI02'
                         giš ab-ba
                                                                                              [] gi<sub>6</sub>-[
  Ni II-165 rII02
                         gi[š a]b-ba
                                                                       Ni II-109 rII05'
                                                                                              -p]ar<sub>4</sub>
                                                                       Ni II-110 rII18
  Ni II-174 rII15
                         giš ab-ba
                                                                                              giš gi<sub>6</sub>-par<sub>4</sub>
  Ni II-211 rI03
                                                                       Ni II-141 rII14
                         [] ab-ba
                                                                                              giš gi<sub>6</sub>-par<sub>4</sub>
  Ni II-217 rI17'
                                                                       Ni II-143 rII16'
                         giš a[b-
                                                                                              giš g[i<sub>6</sub>]-par<sub>4</sub>
  Ni II-257 rII02'
                         giš ab-b[a]
                                                                       Ni II-148 rIII02
                                                                                              giš gi<sub>6</sub>-p[ar<sub>4</sub>]
  Ni II-286 rII04
                         giš ab-ba
                                                                       Ni II-149 rII02
                                                                                              [] gi<sub>6</sub>-[
  Ni II-290 I10'
                         [] ba-b[a] (sic!)
                                                                       Ni II-162 rII18
                                                                                                    ]-par<sub>4</sub>
  Ni P-01
              AI03'
                         giš a[b-
                                                                       Ni II-163 rII07
                                                                                              [] gi<sub>6</sub>-par<sub>4</sub>
  Ni U-05
              rII06
                         giš ab-ba
                                                                       Ni II-164 rII19
                                                                                              giš NU-par<sub>4</sub>
  Ni U-21
              I01'
                         [ a]b-b[a]
                                                                       Ni II-174 rII17
                                                                                              giš gi<sub>6</sub>-par<sub>4</sub>
                                                                       Ni II-211 rI05
                                                                                                    ]-par<sub>4</sub>
040 3155
               giš ab-ba-me-luh-ha
                                                                       Ni II-239 rII02
                                                                                              giš gi<sub>6</sub>-par<sub>4</sub>
                                                                                              giš [ ]-par<sub>4</sub>
  Ni II-001 rII17
                         giš ab-ba-me-luh-ha
                                                                       Ni II-272 rII01'
  Ni II-013 rII10'
                                                                       Ni IV-04
                         giš ab-b[a-
                                                                                   -1
                                                                                              giš gi<sub>6</sub>-par<sub>4</sub>
  Ni II-037 rII07
                         giš ba-a[b-m]e-luh-ha
                                                                       Ni IV-12
                                                                                    rII01
                                                                                              giš gi<sub>6</sub>-par<sub>4</sub>
  Ni II-040 rI03'
                                                                       Ni U-05
                                                                                    rII08
                         giš a[b-b]a-[
                                                                                              giš gi<sub>6</sub>-par<sub>4</sub>
  Ni II-062 rI03'
                         giš a[b-
                                                                       Ni U-21
                                                                                    I03'
                                                                                              [] gi<sub>6</sub>-par<sub>4</sub>
  Ni II-068 rI06'
                         giš ab-b[a-
  Ni II-085 rII10
                                    ]-ha
                                                                     042 3158
                                                                                    giš ma-nu
  Ni II-091 rII02'
                            -b]a-me-luh-ha
                                                                       Ni I-08
                                                                                    II02'
                                                                                              [] ma-nu
  Ni II-092 rI03'
                                                                       Ni II-001 rII19
                                                                                              [giš] ma-nu
                         giš ab-[
  Ni II-097 I02
                         giš ab-ba-me-luh-ha
                                                                       Ni II-013 rII12'
                                                                                              giš [m]a-n[u]
  Ni II-105 rII09
                         [ a]b-ba-me-luh-ha
                                                                       Ni II-020 rII20
                                                                                              [ ]-nu
  Ni II-106 rI01'
                            alb-b[a-
                                                                       Ni II-031 rI01
                                                                                              giš [m]a-nu
                         ſ
  Ni II-109 rII04'
                                                                       Ni II-035 rII04
                                  -l]uh-ha
                                                                                              giš nu-ma
                         giš ab-ba-me-luh-ha
  Ni II-110 rII17
                                                                       Ni II-037 rII09
                                                                                              giš [ m]a
  Ni II-141 rII13
                         giš ab-ba-me-luh-ha
                                                                       Ni II-040 rI05'
                                                                                              giš m[a-
  Ni II-143 rII15'
                                                                       Ni II-068 rI08'
                         giš [
                                                                                              giš ma-[
  Ni II-148 rIII01
                         giš a-ab-ba-m[e-
                                                                       Ni II-085 rII12
                                                                                              giš ma-n[u]
  Ni II-149 rII01
                         [ ]-ba-me-[ -h]a
                                                                       Ni II-091 rII04'
                                                                                              [] ma-nu
                                                                                              giš ma-ſ
 Ni II-162 rII17
                            l-ba-me-luh-ha
                                                                       Ni II-092 rI05'
  Ni II-163 rII06
                                                                       Ni II-105 rII11
                         giš ab-ba-[]-luh-[
                                                                                              [] ma-nu
  Ni II-164 rII18
                         giš ab-ba-m[e-lu]h-ha
                                                                       Ni II-106 rI03'
                                                                                              [] ma-[
  Ni II-165 rII03
                         [ ]-ba-[ -lu]h-h[a]
                                                                       Ni II-109 rII06'
                                                                                              [ m]a-nu
  Ni II-174 rII16
                         giš ab-ba-me-luh-ha
                                                                       Ni II-110 rII19
                                                                                              [ ]-nu
  Ni II-211 rI04
                         [ -b]a-me-luh-ha
                                                                       Ni II-140 rII22
                                                                                              giš ma-nu
  Ni II-239 rII01
                         giš ab?-[ ]-ha
                                                                       Ni II-141 rII15
                                                                                              giš ma-nu
                         giš ab-me-luh-[
 Ni II-286 rII05
                                                                       Ni II-143 rII17'
                                                                                              giš ma-nu
  Ni II-290 I11'
                         [ b]a-b[a]-m[e-
                                                                       Ni II-144 rIII01'
                                                                                              [] ma-nu-um
  Ni U-05
              rII07
                         giš ab-ba-me-luh-ha
                                                                       Ni II-148 rIII03
                                                                                              giš ma-nu
  Ni U-21
              I02'
                         [] ab-ba-me-luh-ha
                                                                       Ni II-149 rII03
                                                                                              giš ma-nu
                                                                       Ni II-162 rII19
                                                                                              [] ma-nu
041 3156
              giš gi<sub>6</sub>-par<sub>4</sub>
                                                                       Ni II-163 rII08
                                                                                              giš ma-nu
  Ni I-08
              II01'
                         []g[i_6-
                                                                       Ni II-164 rII20
                                                                                              giš ma-nu
  Ni II-001 rII18
                                                                       Ni II-174 rII18
                         giš gi<sub>6</sub>-p[ar<sub>4</sub>]
                                                                                              giš ma-nu
  Ni II-013 rII111
                                                                       Ni II-201 rI03'
                                                                                              giš ma-n[u]
                         giš gi<sub>6</sub>-[
  Ni II-020 rII19
                                -p]ar<sub>4</sub>
                                                                       Ni II-239 rII03
                                                                                              giš nu-ma
  Ni II-035 rII03
                         giš gi<sub>6</sub>-par<sub>4</sub>
                                                                       Ni II-272 rII02'
                                                                                              giš ma-nu
  Ni II-037 rII08
                         giš g[i<sub>6</sub>-pa]r<sub>4</sub>
                                                                       Ni IV-04 2
                                                                                              [gi]š ma-n[u]
  Ni II-040 rI04'
                                                                       Ni IV-12 rII02
                                                                                              giš ma-nu
                         giš gi<sub>6</sub>-p[ar<sub>4</sub>]
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Ni II-162 rII21
  Ni U-05
             rII09
                        giš ma-[
                                                                                               ]-gibil<sub>2</sub>-a-A[G]
  Ni U-21
              I04'
                                                                   Ni II-163 rII10
                       [gi]š ma-nu
                                                                                         [ m]a-nu-[
                                                                   Ni II-164 rIII01
                                                                                         giš [m]a-[n]u-gi[bil<sub>2</sub>]-A[G?]
043 3163
              giš ma-nu-šu-AG
                                                                   Ni II-174 rII20
                                                                                         giš ma-nu-gibil-AG
  Ni I-08
              II03'
                       [] ma-nu-šu-a-AG
                                                                   Ni II-222 rIII01'
                                                                                                  ]-a-AG
  Ni II-004 rI01'
                        giš ma-nu-š[u]-a-[
                                                                   Ni II-224 rIII01'
                                                                                           m]a-n[u] \setminus gibil,-a-AG
  Ni II-013 rII13'
                                                                   Ni II-228
                       giš ma-n[u]-a-A[G]
                                                                               I02'
                                                                                            ]-nu-gibil,-a-AG
  Ni II-020 rII21
                                                                   Ni II-239 rII04
                                                                                         giš nu-ma-gibil,-a-AG
                                -A]G
                                                                   Ni II-272 rII04'
  Ni II-031 rI02
                        giš ma-nu-a-šu-A[G]
                                                                                         giš ma-nu-gibil<sub>2</sub>-ŠU-a-A[G]
  Ni II-035 rII05
                       giš nu-ma-šu-a-A[G]
                                                                   Ni IV-08
                                                                               2
                                                                                         giš ma-nu-gibil,-AG
                                                                               II01'
  Ni II-037 rII10
                       giš [traces]-a
                                                                   Ni U-14
                                                                                         giš ma-nu-[
  Ni II-039 rIII01'
                                                                   Ni U-21
                                                                               I06'
                              -A]G
                                                                                                ]-a-A[G]
  Ni II-040 rI06'
                       giš ma-[
  Ni II-068 rI09'
                       giš ma-[
                                                                 044a 3171
                                                                               giš ma-nu-kal-la
  Ni II-091 rII05'
                       [ m]a-nu-šu-a-AG
                                                                   Ni II-004
                                                                               rI02'
                                                                                         giš ma-nu-kal-la
  Ni II-092 rI06'
                       giš ma-[
  Ni II-105 rII12
                       [] ma-nu-a-[
                                                                 045 3186
                                                                               giš nu-ur,-ma
 Ni II-106 rI04'
                       [gi]š ma-nu-šu-a-A[G]
                                                                   Ni I-03
                                                                               I01
                                                                                         giš nu-ur<sub>2</sub>-ma
  Ni II-109 rII08'
                        [ m]a-nu-šu-a-AG
                                                                   Ni I-08
                                                                               II05'
                                                                                             ]-ur<sub>2</sub>-ma
  Ni II-110 rII20
                          ]-X-šu-AG
                                                                   Ni II-001 rIII01'
                                                                                         giš nu-ur<sub>2</sub>-ma
                        giš ma-nu-šu-[] \ AG
                                                                   Ni II-004 rI03'
 Ni II-140 rII23
                                                                                         giš nu-ur<sub>2</sub>-[
                                                                                         giš nu-ur<sub>2</sub>-m[a]
 Ni II-141 rII16
                       [ ]-nu-šu-AG
                                                                   Ni II-013 rII15'
  Ni II-143 rII18'
                        giš ma-nu-šu-a-AG
                                                                   Ni II-024 rI07
                                                                                         giš nu-[
  Ni II-144 rIII02'
                       [] ma-nu-šu-a
                                                                   Ni II-031 rI05
                                                                                         giš nu-[
 Ni II-148 rIII04
                       giš ma-nu-a-AG
                                                                   Ni II-035 rII07
                                                                                         giš nu-ma-ur<sub>2</sub>-r[a?]
  Ni II-149 rII04
                       giš ma-nu-š[u]-AG
                                                                   Ni II-039 rIII03'
                                                                                                ]-ma
  Ni II-162 rII21
                       [] ma-nu-a-[]-A[G]
                                                                   Ni II-063 rII02'
                                                                                              ]-ma
  Ni II-163 rII09
                       [] ma-n[u--A]G
                                                                   Ni II-085 rII15
                                                                                             ]-ur<sub>2</sub>-ma
 Ni II-164 rII21
                       giš ma-šu-nu-AG
                                                                   Ni II-091 rII07'
                                                                                             -u]r<sub>2</sub>-ma
  Ni II-174 rII19
                       giš ma-nu-a-gal-AG
                                                                   Ni II-105 rII14
                                                                                                 -m]a
  Ni II-228 I01'
                        [ ]-nu-šu-a-AG
                                                                   Ni II-106 rI06'
                                                                                              u]r<sub>2</sub>-ma
  Ni II-239 rII05
                       giš IGI-ma-šu-a-AG
                                                                   Ni II-110 rIII01
                                                                                         giš nu-ur<sub>2</sub>-ma
 Ni II-272 rII03'
                       giš ma-nu-šu-a-AG
                                                                   Ni II-144 rIII04'
                                                                                         ſ
                                                                                             -u]r_2-ma
 Ni IV-08 1
                       giš ma-nu-šu-AG
                                                                   Ni II-148 rIII06
                                                                                         [] nu-ur<sub>2</sub>-ma
             I05'
  Ni U-21
                       [ m]a-nu-a-AG
                                                                   Ni II-149 rII06
                                                                                             -u]r-ma
                                                                   Ni II-155 rII17
                                                                                         giš nu-u[r<sub>2</sub>-
044 3164
              giš ma-nu-gibil,-AG
                                                                   Ni II-164 rIII02
                                                                                         giš nu-ur<sub>2</sub>-ma
  Ni I-08
              1104'
                       [ ] ma-nu-gibil<sub>2</sub>-a-AG
                                                                   Ni II-174 rII21
                                                                                         giš ur<sub>2</sub>-ma (sic!)
  Ni II-013 rII14'
                       giš ma-nu-a-A[G]
                                                                   Ni II-176 01
                                                                                         giš n[u-u]r_2-[
 Ni II-031 rI03
                       giš ma-nu-gib[il<sub>2</sub>?-
                                                                   Ni II-205 rII01
                                                                                                ]-ma
  Ni II-031 rI04
                                                                   Ni II-222 rIII02'
                       giš m[a-
                                                                                         giš nu-u[r<sub>2</sub>]-ma
  Ni II-035 rII06
                       giš nu-ma-gibil<sub>2</sub>-a-AG?
                                                                   Ni II-224 rIII02'
                                                                                         giš nu-ur<sub>2</sub>-ma
 Ni II-039 rIII02'
                       ſ
                                 -A]G
                                                                   Ni II-225 rI04'
                                                                                         giš nu-[
 Ni II-085 rII14
                          -n]u-gibil<sub>2</sub>-[
                                                                   Ni II-228 I03'
                                                                                             -u]r_2-ma
                       ſ
  Ni II-091 rII06
                                                                   Ni II-239 rII06
                                                                                         giš nu-u[r<sub>2</sub>-
                       [ ]-nu-gibil<sub>2</sub>-a-AG
  Ni II-105 rII13
                       giš gi]bil<sub>2</sub>-a-[
                                                                   Ni II-272 rII05
                                                                                         giš nu-ur<sub>2</sub>-ma
 Ni II-106 rI05'
                       [gi]š ma-nu-gibil-AG
                                                                   Ni II-275 rI02'
                                                                                         giš nu-u[r<sub>2</sub>-
  Ni II-109 rII07'
                       [ m]a-nu-[ ]-a-AG
                                                                   Ni IV-12 rII03
                                                                                         giš [ ]-ur<sub>2</sub>-[
  Ni II-110 rII21
                                                                   Ni U-14
                                                                               II02'
                       [ m]a-nu-gibil<sub>2</sub>-AG
                                                                                         giš [n]u-ur<sub>2</sub>-[
                       giš ma-nu-X [] \ AG
  Ni II-140 rII24
 Ni II-141 rII17
                                                                 046 3195
                                                                               giš KID-da
                       Γ
                                ]-AG
                                                                   Ni I-03
                                                                               I02
  Ni II-144 rIII03'
                       [ m]a-nu-gibil?-a-AG
                                                                                         giš KID-da
  Ni II-148 rIII05
                       [gi]š ma-nu-gi[bil<sub>2</sub>]-a-[A]G
                                                                   Ni I-08
                                                                               II06'
                                                                                         [ ] KID-da
 Ni II-149 rII05
                       giš ma-nu-gibil<sub>2</sub>-AG
                                                                   Ni I-09
                                                                               I01
                                                                                                ]-da
                                                                   Ni II-001 rIII02'
  Ni II-155 rII16
                       giš ma-nu-gi[bil<sub>2</sub>?-
                                                                                         giš KID-da
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giš KI[D-
 Ni II-004 rI04'
                     giš KID-da
                                                           Ni II-275 rI04'
                                                           Ni IV-12 rII05
 Ni II-013 rII16'
                     giš KID-da
                                                                               giš KID-da
 Ni II-035 rII08
                     [g]iš KID-[
 Ni II-039 rIII04'
                           -d]a
                                                          048 3199
                                                                      giš KID-da-zil-la,
 Ni II-063 rII03'
                                                           Ni I-03
                                                                      I04
                         ]-da
                                                                               [ ] KID-[
                     ſ
 Ni II-085 rII16
                                                                      II08'
                           1-da
                                                           Ni I-08
                                                                               [g]iš [K]ID-da-zil-la,
                     ſ
 Ni II-103 rII01'
                                                           Ni I-09
                                                                      I03
                     ſ
                           1-da
                                                                                      -d]a-zil-la,
                                                                               giš KID-da-zil-la,
 Ni II-106 rI07'
                                                           Ni II-001 rIII04'
                           ]-da
 Ni II-110 rIII02
                     giš KID-da
                                                           Ni II-013 rII19'
                                                                               giš KID-[
 Ni II-140 rIII01
                     giš KID-da
                                                           Ni II-015 rIII05
                                                                               giš KID-da-zil-la,
 Ni II-144 rIII05'
                            -d]a
                                                           Ni II-026 rI01'
                                                                               [ ] KID-[
 Ni II-148 rIII07
                                                           Ni II-031 rI07
                     [] KID-[d]a
                                                                               giš KI[D-
 Ni II-155 rII18
                     giš KID-[
                                                           Ni II-035 rII10
                                                                               g[iš] KID-da-X []
 Ni II-164 rIII03
                     giš KID-da
                                                           Ni II-063 rII05'
                                                                               [ ]-da-KU-me-e
 Ni II-165 rII10
                                                           Ni II-067 rI02'
                                                                               giš KID-da-zi[l
                     [ -d]a
                                                           Ni II-085 rII18
 Ni II-174 rII22
                     giš KID-d[a]
                                                                                    ]-da-[
 Ni II-176 02
                     giš KID-[
                                                           Ni II-103 rII03'
                                                                                        -zi]l-la,
                                                                               Ni II-205 rII02
                     ſ
                           ]-da
                                                           Ni II-110 I01
                                                                               giš KID-da-zil-la,
 Ni II-211 rI10B
                     [ K]ID-da
                                                           Ni II-110 rIII04
                                                                               giš KID-da-zil-la<sub>2</sub>
 Ni II-222 rIII03'
                     giš KID-da
                                                           Ni II-140 rIII03
                                                                               giš KID-[ ]-la<sub>2</sub>
 Ni II-224 rIII03'
                     giš KID-da
                                                           Ni II-143 rIII02'
                                                                               [ K]ID-da-zil-[
 Ni II-225 rI05'
                     giš KID-[
                                                           Ni II-164 rIII05
                                                                               giš KID-da!-LA-zil-la<sub>2</sub>
 Ni II-239 rII07
                     giš KID-da
                                                           Ni II-176 04
                                                                               giš KID-da-X
 Ni II-240 rII01'
                     g[iš
                             -d]a
                                                           Ni II-205 rII04
                                                                                        -zi]l-la<sub>2</sub>
 Ni II-275 rI03'
                     giš K[ID-
                                                           Ni II-211 rI12B
                                                                               [g]iš K[ID]-da-[z]il-la,
 Ni IV-12 rII04
                                                           Ni II-222 rIII05'
                     giš KID-da
                                                                               giš K[ID- -zi]l-la<sub>2</sub>
                                                           Ni II-224 rIII05'
                                                                               [] KID-da-zil-[
047 3196 giš KID-da
                                                           Ni II-239 rII09
                                                                               giš KID-da-zil-la?
 Ni I-03
            I03
                     giš KID-da
                                                           Ni II-240 rII03'
                                                                               giš KID-da-zil-[
                                                           Ni II-267 rII01'
                                                                                      -d]a-zil-la,
 Ni I-08
            II07'
                     [ K]ID-da
                                                                               [
                                                                               giš K[ID-
 Ni I-09
            I02
                     [
                           ]-da
                                                           Ni II-275 rI05'
 Ni II-001 rIII03'
                     giš KID-da
                                                           Ni IV-12 rII06
                                                                               giš KID-da-zi[l-l]a
 Ni II-004 rI05'
                     giš KID-d[a
 Ni II-013 rII17'
                     giš KID-[
                                                          049 3200
                                                                      giš mes
 Ni II-015 rIII04
                                                                      II09'
                     giš KI[D-d]a
                                                           Ni I-08
                                                                               giš me[s]
 Ni II-031 rI06
                     giš KI[D-
                                                           Ni I-09
                                                                      I04
                                                                               [] mes
                     g[iš] KID-[
                                                           Ni II-001 rIII05'
 Ni II-035 rII09
                                                                               giš mes
 Ni II-039 rIII05'
                           ]-da
                                                           Ni II-005 rII01'
                                                                               [ me]s
 Ni II-063 rII04'
                                                           Ni II-013 rII20'
                         ]-da
                                                                               [g]iš mes
                     giš KID-d[a
 Ni II-067 rI01'
                                                           Ni II-015 rIII06
                                                                               giš mes
                                                           Ni II-026 rI02'
 Ni II-085 rII17
                       ]-da
                                                                               giš mes [
 Ni II-103 rII02'
                           ]-da
                                                           Ni II-035 rII11
                                                                               g[iš] mes
                     giš KID-da
 Ni II-110 rIII03
                                                           Ni II-063 rII06'
                                                                               [ m]es
 Ni II-140 rIII02
                     giš KID-da
                                                           Ni II-067 rI03
                                                                               giš [m]es
 Ni II-143 rIII01'
                                                           Ni II-103 rII04'
                                                                               [ m]es
                     [ KI]D-d[a]
 Ni II-148 rIII08
                     [ K]ID-[
                                                           Ni II-110 I02
                                                                               giš mes
 Ni II-164 rIII04
                     giš KID-X
                                                           Ni II-110 rIII05
                                                                               [] mes
 Ni II-176 03
                     giš KID-d[a]
                                                           Ni II-140 rIII04
                                                                               giš mes
 Ni II-205 rII03
                                                           Ni II-143 rIII03'
                     ]-da
                                                                               giš mes
 Ni II-211 rI11B
                     [] KID-da
                                                           Ni II-164 rIII06
                                                                               giš mes
 Ni II-222 rIII04'
                                                           Ni II-165 rII13
                     giš KID-da
                                                                               giš mes
 Ni II-224 rIII04'
                     giš [K]ID-da
                                                           Ni II-176 05
                                                                               giš mes
 Ni II-225 rI06'
                     giš KI[D-
                                                           Ni II-205 rII05
                                                                               [] mes
 Ni II-239 rII08
                     giš KID-da
                                                           Ni II-211 rII01
                                                                               giš mes
 Ni II-240 rII02'
                                                           Ni II-222 rIII06'
                     giš KID-da
                                                                              [ me]s
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Ni II-239 rII10
                                                               Ni II-237 rII02'
                                                                                    [] mes-me-luh-ha
                      giš m[es]
 Ni II-240 rII04'
                                                               Ni II-240 rII06'
                                                                                    giš mes-me-luh-ha
                      giš mes
 Ni II-267 rII02'
                                                               Ni II-259 rII01'
                                                                                    giš mes-me-luh-ha
                      [] mes
 Ni II-275 rI06'
                      giš [m]es
                                                               Ni II-267 rII04'
                                                                                    [] mes-me-luh-ha
 Ni IV-12 rII07
                                                               Ni II-275 rI08'
                                                                                    giš mes-me-luh-ha
                      giš m[es]
                                                               Ni U-02
                                                                           I02
                                                                                             1-a
050 3204
             giš mes-ma,-gan-na
 Ni I-08
             II10'
                                                              051a
                      giš mes-ma<sub>2</sub>-ga[n-n]a
                                                                           giš mes-alan
 Ni II-001 rIII06'
                      giš mes-ma<sub>2</sub>-gan-na
                                                                Ni II-001 rIII08'
                                                                                    giš mes-alan
  Ni II-005 rII02'
                      [ m]es-m[a_2-
                                                                Ni II-005 rII04'
                                                                                    giš mes-alan
 Ni II-013 rII21'
                                                               Ni II-026 rI03'
                                                                                    giš mes-al[an]
                            ]-gan
 Ni II-015 rIII07
                      giš mes-m[a<sub>2</sub>-ga]n-na
                                                               Ni II-085 rII22
                                                                                    giš alan
 Ni II-035 rII12
                                                               Ni II-211 rII04
                          -m]a_2-g[an]-na
                                                                                    giš mes-il
 Ni II-059 rII10
                      giš [m]es-ma,-[
 Ni II-067 rI04'
                      giš mes-ma,-g[an-
                                                             051b 3211
                                                                           giš mes-tu
                                                                                    giš mes-tu
 Ni II-085 rII20
                                                               Ni II-005 rII05'
                      giš me[s-m]a,-[ga]n-na
                                                               Ni II-211 rII05
 Ni II-103 rII05'
                              ]-gan-na
                                                                                    giš mes-tu
 Ni II-110 I03
                      giš mes-ma2-gan-na
 Ni II-110 rIII06
                      [gi]š mes-ma<sub>2</sub>-gan-na
                                                              051c 3206 giš mes-ki-gar-ra
                                                               Ni II-001 rIII09'
 Ni II-123 rII02'
                      [ m]es-an-na
                                                                                    giš mes-ki-gar-ra
                                                                                    giš mes-ki-en-gi-ra
 Ni II-140 rIII05
                      giš mes-ma,-gan-[
                                                               Ni II-005 rII06'
 Ni II-143 rIII04'
                      giš mes-m[a<sub>2</sub>-
                                                               Ni II-085 rII23
                                                                                    giš mes-ki-gar-ra
                                                               Ni II-123 rII01'
                                                                                               -r]a
 Ni II-164 rIII07
                      giš mes-ma<sub>2</sub>-gan-na
                                                                                    Ni II-176 06
                      giš mes-ma<sub>2</sub>-gan-na
                                                               Ni II-164 rIII10
                                                                                    giš mes-ki-gar-ra
 Ni II-205 rII06
                               -g]an-na
                                                               Ni U-02
                                                                           I03
                                                                                            ]-gar-ra
 Ni II-211 rII02
                      giš mes-ma<sub>2</sub>-ga[n-n]a
 Ni II-237 rII01'
                                                                           giš mes-ha-lu-ub<sub>2</sub>-har-ra-an-na
                      [] m[es-
                                                             051d 3216
 Ni II-240 rII05'
                      giš mes-ma<sub>2</sub>-gan-na
                                                               Ni II-005 rII07f
                                                                                    giš mes-SAR-ha-lu-ub-GIŠ-
 Ni II-267 rII03'
                      [] mes-ma<sub>2</sub>-gan-na
                                                                                    har-an-na
                                                               Ni II-026 rI04'
 Ni II-275 rI07'
                      giš m[es]-ma<sub>2</sub>-gan-na
                                                                                    giš mes ha-UB2-LU-har-ra
 Ni IV-12 rII08
                      giš mes-m[a<sub>2</sub>]-gan
                                                               Ni II-211 rII06
                                                                                    giš mes-ha-lu-[
 Ni U-02
            I01
                           -n]a
                                                              051e 3214
                                                                           giš mes-gi<sub>6</sub>
051 3205
             giš mes-me-luh-ha
                                                               Ni II-005 rII09'
                                                                                    giš mes-gi<sub>6</sub>
 Ni I-04
             II01'
                      [gi]š m[es-
             II11'
                                                              052 3217
 Ni I-08
                      giš mes-me-luh-ha
                                                                           giš erin
 Ni II-001 rIII07'
                      giš mes-me-luh-ha
                                                               Ni I-04
                                                                           II02'
                                                                                    giš [
 Ni II-005 rII03'
                      [gi]š mes-me-luh-ha
                                                               Ni I-08
                                                                           II12'
                                                                                    giš erin
 Ni II-013 rII22'
                                -h]a?
                                                               Ni II-001 rIII10'
                                                                                    giš DIŠ erin
 Ni II-015 rIII08
                      giš m[es]-me-lu[h-h]a
                                                               Ni II-005 rII10'
                                                                                    giš erin
 Ni II-035 rII13
                                                               Ni II-015 rIII09
                             -lu]h-ha
                                                                                    giš [er]in
 Ni II-063 rII08'
                           -m]e-luh
                                                               Ni II-026 rI05'
                                                                                    giš erin
 Ni II-067 rI05'
                      giš mes-me-lu[h-
                                                               Ni II-035 rII14
                                                                                    [ er]in
 Ni II-085 rII21
                      giš mes-me-[]-NA
                                                               Ni II-059 rII12
                                                                                    [g]iš e[rin
 Ni II-103 rII06
                                                               Ni II-063 rII09'
                                                                                         erlin
                               -h]a
 Ni II-110 I04
                      giš mes-me-luh-ha
                                                               Ni II-065 rII01'
                                                                                    [ e]rin
                           -mle-luh-ha
 Ni II-110 rIII07
                                                               Ni II-085 rII24
                                                                                    giš erin
                      Γ
 Ni II-123 rII03'
                      [] mes-e-ha
                                                                                    [ er]in
                                                               Ni II-088 rII02'
 Ni II-140 rIII06
                                                               Ni II-110 I05
                      giš [
                                ]-ha
                                                                                    giš erin
 Ni II-143 rIII05'
                      giš mes-me-luh-ha
                                                               Ni II-110 rIII08
                                                                                    [ e]rin
                      giš mes-me-luh-ha
 Ni II-164 rIII08
                                                               Ni II-123 rII04'
                                                                                    [gi]š erin
 Ni II-174 rIII01
                      giš me[s]-me-luh-[
                                                               Ni II-140 rIII07
                                                                                    g[iš] erin
 Ni II-176 07
                      giš mes-me-luh-ha
                                                               Ni II-143 rIII06'
                                                                                    giš erin
 Ni II-205 rII07
                             -lu]h-ha
                                                               Ni II-164 rIII11
                                                                                    giš erin
 Ni II-211 rII03
                                                               Ni II-174 rIII02
                      giš mes-m[e]-luh-ha
                                                                                    giš erin
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Ni II-140 rIII08
  Ni II-184 rII03
                         giš erin,
                                                                                             giš [š]\mathbf{u}-\mathbf{u}[\mathbf{r}_2-
  Ni II-200 rII03'
                         giš [eri]n
                                                                      Ni II-143 rIII07'
                                                                                             giš šu-ur<sub>2</sub>-m[in<sub>3</sub>]
  Ni II-205 rII08
                                                                      Ni II-164 rIII15
                             -er]in
                                                                                             giš šu-ur<sub>2</sub>-min<sub>3</sub>
  Ni II-237 rII03'
                         giš erin
                                                                      Ni II-166 rI06
                                                                                             [gi]š [-u]r_2-mi[n_3]
  Ni II-240 rII07'
                                                                      Ni II-174 rIII03
                                                                                             giš [š]u-ur<sub>2</sub>-min<sub>3</sub>
                         giš erin
  Ni II-259 rII02'
                         giš erin
                                                                      Ni II-184 rII04
                                                                                             giš šu-ur<sub>2</sub>-min<sub>3</sub>
                                                                      Ni II-193 rI03
  Ni II-267 rII05'
                         [ er]in
                                                                                             giš šu-[
                                                                      Ni II-200 rII04'
  Ni II-275 rI09'
                         giš erin
                                                                                             giš šu-ur<sub>2</sub>-min<sub>3</sub>
  Ni II-285 rI03'
                                                                      Ni II-205 rII09
                         giš erin
                                                                                                    m]in<sub>3</sub>?
  Ni IV-02 1
                                                                      Ni II-223 rII01'
                         giš erin
                                                                                                  -ur,-min,
                         [] erin
 Ni U-02
              I04
                                                                      Ni II-240 rII08'
                                                                                             giš šu-ur<sub>2</sub>-min<sub>3</sub>
                                                                      Ni II-259 rII03'
                                                                                             giš šu-u[r<sub>2</sub>]-min<sub>3</sub>
052a 3222
              giš BAD-erin
                                                                      Ni II-273 rI04'
                                                                                             [ š]u-ur<sub>2</sub>-šu
  Ni II-001 rIII11'
                         giš BAD-erin
                                                                      Ni II-275 rI10'
                                                                                             giš šu-ur,-min,
  Ni II-026 rI06'
                                                                      Ni II-285 rI04'
                         [giš] BAD-e[rin
                                                                                             giš šu-ur<sub>2</sub>-30
  Ni II-085 rII25
                                                                      Ni IV-02 2
                         giš BAD-erin
                                                                                             giš šu-ur,-min,
  Ni II-164 rIII12
                         giš BAD-erin
                                                                      Ni IV-12 rII09
                                                                                             giš šu-ur-me
 Ni II-237 rII04'
                         giš BAD-erin
                                                                      Ni U-02
                                                                                   I05
                                                                                             ]-me
                                                                      Ni U-24
                                                                                   II07'
                                                                                             giš šu-ur<sub>2</sub>-min<sub>3</sub>
052b
              giš pa-erin
                                                                      Ni U-25
                                                                                   II06
                                                                                             giš šu-[
  Ni II-026 rI07'
                         [giš] pa-e[rin
 Ni II-068 rII02'
                                                                    054 3226
                                                                                   giš za-ba-lum
                         [ ]-erin
                                                                      Ni I-04
                                                                                   II04'
                                                                                             giš za-b[a-
052c
              giš LU-DUG<sub>3</sub>-A
                                                                      Ni I-08
                                                                                   II14'
                                                                                             giš za-ba-lum
 Ni II-001 rIII12'
                         giš LU-DUG<sub>2</sub>-A
                                                                      Ni II-001 rIII15'
                                                                                             giš [z]a-[b]a-lum
 Ni II-068 rII03'
                         giš LU-DUG<sub>3</sub>-A
                                                                      Ni II-009 rI01
                                                                                             giš z[a-
  Ni II-085 rII26
                         giš LU-DUG<sub>3</sub>-A
                                                                      Ni II-013 rIII01'
                                                                                             giš za-ba-[
  Ni II-164 rIII13
                         giš KU-DUG<sub>3</sub>-A
                                                                      Ni II-015 rIII11
                                                                                             giš za-ba-lum
 Ni II-237 rII05'
                         giš LU-DUG<sub>3</sub>-A
                                                                      Ni II-026 rI11'
                                                                                             giš za-ba-[
 Ni II-273 rI01'
                                                                      Ni II-031 rII01
                         [ L]U-DUG<sub>3</sub>
                                                                                             [ ] za-ba-[1]um
                                                                      Ni II-040 rII01'
                                                                                             giš z[a]-b[a-
052d
              giš A.TU.GAB.SIG.GAR
                                                                      Ni II-047 rIII01
                                                                                                   -1]um
                                                                                             ſ
 Ni II-001 rIII13'
                         giš A.TU.GAB.SIG.GAR
                                                                      Ni II-059 rII17
                                                                                             giš za-[
 Ni II-026 rI08'
                         []TU[
                                                                      Ni II-063 rII11'
                                                                                             ]-lum
  Ni II-068 rII04'
                         [ ].TU.X \ X.GAR
                                                                      Ni II-065 rII03'
                                                                                                  ]-lum
                         giš A.TU.GAB.SIG.GAR
                                                                                             giš [ ]-ba-[l]um
 Ni II-085 rII27
                                                                      Ni II-085 rIII01
 Ni II-164 rIII14
                         giš A.TU.GAB.LIŠ.GAR
                                                                      Ni II-088 rII04'
                                                                                             giš za-ba-lum
  Ni II-193 rI02
                         giš A.[T]U.[
                                                                      Ni II-089 rIII02'
                                                                                             [ z]a-ba-lum
  Ni II-237 rII06
                                                                      Ni II-110 I07
                         giš A.T[U.
                                                                                                z]a-ba-lum
 Ni II-273 rI02'
                             ].GAB.TU.GAM
                                                                      Ni II-110 rIII10
                                                                                             [ ] z[a-b]a-l[um]
                                                                      Ni II-140 rIII09
                                                                                             giš za-ba-[
053 3225
              giš šu-ur<sub>2</sub>-min<sub>3</sub>
                                                                      Ni II-143 rIII08'
                                                                                             giš za-ba-lum
 Ni I-04
              II03'
                         giš šu-u[r<sub>2</sub>-
                                                                      Ni II-164 rIII16
                                                                                             giš za-ba-lum
 Ni I-08
              II13'
                         giš šu-ur<sub>2</sub>-min<sub>3</sub>
                                                                      Ni II-166 rI07
                                                                                             [gi]š za-ba-[
 Ni II-001 rIII14'
                         giš šu-ur<sub>2</sub>-min<sub>3</sub>
                                                                      Ni II-174 rIII04
                                                                                             giš za-ba-lum
  Ni II-015 rIII10
                         giš [š]u-ur<sub>2</sub>-min<sub>3</sub>
                                                                      Ni II-184 rII05
                                                                                             giš za-b[a-
 Ni II-026 rI10'
                         giš š[u
                                                                      Ni II-193 rI04
                                                                                             giš za-ba-[
 Ni II-059 rII16
                         [gi]š šu-[
                                                                      Ni II-200 rII05'
                                                                                             giš za-ba-lum
  Ni II-063 rII10
                               ]-min<sub>3</sub>
                                                                      Ni II-211 rII09B
                                                                                             giš za-[
                                                                      Ni II-223 rII02'
  Ni II-065 rII02'
                             ]-min<sub>3</sub>
                                                                                                   ]-lum
                         Γ
                                                                                             Γ
 Ni II-088 rII03'
                         [] šu-ur<sub>2</sub>-min<sub>3</sub>
                                                                      Ni II-240 rII09'
                                                                                             giš za-ba-lum
  Ni II-089 rIII01'
                         [-u]r_2-min_3
                                                                      Ni II-259 rII04'
                                                                                             giš za-ba-l[um]
  Ni II-110 I06
                         giš šu-ur-me
                                                                      Ni II-273 rI05'
                                                                                             giš za-ba-[
 Ni II-110 rIII09
                         [] šu-ur<sub>2</sub>-me
                                                                      Ni II-275 rI11'
                                                                                             giš za-ba-lum
                                                                      Ni II-285 rI05'
 Ni II-123 rII05'
                         giš šu-ur<sub>2</sub>-min<sub>3</sub>
                                                                                             giš za-ba-lu[m]
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Ni IV-12 rII10
                                                               Ni II-040 rII03'
                      giš z[a-]-lum
                                                                                    giš gi-ri<sub>2</sub>-lum
 Ni U-02
            I06
                            ]-lum
                                                               Ni II-059 rII19
                                                                                    giš gi-ri-lum
 Ni U-24
             II08'
                      giš za-ba-lum
                                                               Ni II-085 rIII03
                                                                                    giš gi-ri<sub>2</sub>-lum
 Ni U-25
             II07
                      giš za-ba-[
                                                               Ni II-088 rII06'
                                                                                    giš gi-ri-lum
                                                               Ni II-089 rIII04'
                                                                                        -r]i,-lum
                                                                                    055 3227
             giš e-la-ma-kum
                                                               Ni II-110 I09
                                                                                       g]i-ri,-lum
 Ni I-04
             II05'
                                                               Ni II-110 rIII12
                      giš e-la[m-
                                                                                         -r]i<sub>2</sub>-l[um?]
 Ni I-08
             II15'
                      giš e-lam-kum
                                                               Ni II-143 rIII10'
                                                                                    giš gi-l[um]
 Ni II-001 rIII16'
                                                               Ni II-164 rIII18
                      giš e-lam-ma
                                                                                    giš g[i-
                                                                                              ]-lum
 Ni II-013 rIII02'
                      giš e-lam-ma-kum
                                                               Ni II-165 rII20
                                                                                    giš g[i-
 Ni II-015 rIII12
                      [gi]š e-[l]a-ma-kum
                                                               Ni II-166 rI09
                                                                                    giš gi-ri<sub>2</sub>-l[um]
 Ni II-020 rIII01'
                      giš e-lam-ma-k[um]
                                                               Ni II-174 rIII06
                                                                                    giš gi-[ ]-lum
 Ni II-026 rI12'
                      giš e-lam-ma-k[um]
                                                               Ni II-211 rII11B
                                                                                    giš gi-ri<sub>2</sub>-l[um]
 Ni II-031 rII02f.
                      giš e-la-MIN<sub>3</sub> \ <giš G[I]>
                                                               Ni II-218 rII02'
                                                                                    [g]i-r[i,-
                                                               Ni II-223 rII04'
                                                                                    giš gi-ri,-lum
 Ni II-040 rII02'
                                                               Ni II-240 rII11'
                      giš e-lam-m[a-k]um
                                                                                    giš gi-ri,-lum
 Ni II-047 rIII02
                            -k]um
                                                               Ni II-259 rII06'
                                                                                    giš gi-ri,-lum
                      Ni II-059 rII18'
                      giš e-[
                                                               Ni II-269 rII03'
                                                                                    giš gi-[
 Ni II-065 rII04'
                                                               Ni II-273 rI07'
                          -k]um
                                                                                    g[iš] g[i-
                      [
 Ni II-085 rIII02
                                                               Ni II-275 rI13'
                      giš e-la-ma-kum
                                                                                    [gi]š [
                                                                                              ]-lum
 Ni II-088 rII05'
                      giš e-lam-ma-kum
                                                               Ni IV-12
                                                                           rII12
                                                                                    giš gi-[ -l]um
                                                                                           ]-l[um]
 Ni II-089 rIII03'
                      [ -l]am-ma-kum
                                                               Ni U-02
                                                                           I08
                                                                                    ſ
                                                               Ni U-24
 Ni II-110 I08
                          ]-la-ma-kum
                                                                           rI01
                                                                                    giš gi-ri-lu[m]
 Ni II-110 rIII11
                      [gi]š e-l[a-
                                                               Ni U-25
                                                                           II09
                                                                                    giš gi-[
 Ni II-140 rIII10
                      giš e-[
 Ni II-143 rIII09'
                      giš e-lam-ma-kum
                                                             057 3231
                                                                           giš gi-rim
 Ni II-164 rIII17
                                                               Ni I-01
                                                                           II02'
                      giš e-la-ma-kum
                                                                                    giš gi-[
 Ni II-166 rI08
                      giš e-la-ma-kum
                                                               Ni I-04
                                                                           II07'
                                                                                    giš g[i-
 Ni II-174 rIII05
                      giš e-lam-[k]um
                                                               Ni I-08
                                                                           II17'
                                                                                    giš gi-rim
 Ni II-193 rI05
                                                               Ni II-009 rI04
                      giš e-[
                                                                                    giš g[i-
 Ni II-200 rII06'
                      [] e-lam-GAZ
                                                               Ni II-013 rIII04'
                                                                                    giš gi-rim
 Ni II-211 rII10B
                      giš e-lam-ma-kum
                                                               Ni II-015 rIII14
                                                                                    [ g]i-rim
 Ni II-218 rII01'
                                                               Ni II-019 rI02
                      []e-[
                                                                                    giš gi-[
 Ni II-223 rII03'
                                                               Ni II-020 rIII03'
                      [
                             ]-kum
                                                                                    [] gi-rim
 Ni II-240 rII10'
                      giš e-lam-ma-kum
                                                               Ni II-026 rI14'
                                                                                    giš gi-r[im]
                                                                                    giš gi-rim
 Ni II-259 rII05'
                      giš e-lam-[]-kum
                                                               Ni II-031 rII05
 Ni II-269 rII02'
                      giš e-la[m]-m[a-
                                                               Ni II-038 rI01'
                                                                                    giš g[i
 Ni II-273 rI06'
                      giš e-l[am-
                                                               Ni II-040 rII04'
                                                                                    giš gi-rim
 Ni II-275 rI12'
                      giš e-lam-ma-kum
                                                               Ni II-059 rII20
                                                                                    giš gi-rim
 Ni IV-12 rII11
                      giš [ -k]um
                                                               Ni II-085 rIII04
                                                                                    giš gi-rim
                                                               Ni II-088 rII07'
 Ni U-02
            107
                             ]-kum
                                                                                    g[iš g[i]-LAGAB+LAGAB
 Ni U-24
            II09'
                      giš e-lam-ma-ku[]m
                                                               Ni II-110 I10
                                                                                    giš gi-rim
 Ni U-25
            II08
                                                               Ni II-110 rIII13
                      giš e-lam-[
                                                                                    Γ
                                                                                       ]-rim
                                                               Ni II-116 rIII01
                                                                                    [ ]-LAGAB
056 3229
             giš gi-ri<sub>2</sub>-lum
                                                               Ni II-143 rIII11'
                                                                                    giš gi-rim
 Ni I-04
             II06'
                                                               Ni II-164 rIII19
                                                                                    giš gi-rim
                      giš gi-[
 Ni I-08
             II16'
                      giš gi-ri<sub>2</sub>-lum
                                                               Ni II-165 rII21
                                                                                    giš g[i-
 Ni II-001 rIII17'
                      giš gi-ri<sub>2</sub>-l[um
                                                               Ni II-166 rI10
                                                                                    giš gi-[
                                                               Ni II-174 rIII07
 Ni II-009 rI03
                      giš g[i-
                                                                                    giš gi-rim
 Ni II-013 rIII03'
                                                               Ni II-211 rII12B
                      giš gi-ri<sub>2</sub>-lum
                                                                                    giš gi-rim
 Ni II-015 rIII13
                                                               Ni II-216 rII01'
                      [gi]š [g]i-ri<sub>2</sub>-lum
                                                                                    [ ]-rim
 Ni II-019 rI01
                      giš g[i-
                                                               Ni II-218 rII03'
                                                                                    giš gi-[
 Ni II-020 rIII02'
                      [] gi-ri<sub>2</sub>-l[um]
                                                               Ni II-223 rII05'
                                                                                    g[iš -r]im
 Ni II-026 rI13'
                      giš gi-ri<sub>2</sub>-l[um]
                                                               Ni II-225 rII01'
                                                                                    giš gi-rim
 Ni II-031 rII04
                                                               Ni II-240 rII12'
                                                                                    giš gi-rim
                      giš gi-ri
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059 3254
                                                                         giš ur-nu-um
 Ni II-259 rII07'
                      giš gi-rim
 Ni II-269 rII04'
                                                              Ni I-01
                                                                          II04'
                      giš gi-rim
                                                                                   giš ur-nu-um
            rI02
 Ni U-24
                                                              Ni I-08
                                                                          II19'
                      giš gi-rim
                                                                                   giš ur-nu-um
 Ni U-25
            II10
                      giš g[i-
                                                              Ni II-001 rIV01'
                                                                                   [giš ur-n]u-u[m]
                                                              Ni II-013 rIII06'
                                                                                   giš ur-nu-um
058 3237
             giš zi-ir-dum
                                                              Ni II-019 rI04
                                                                                   giš ur-n[u-
 Ni I-01
             II03'
                                                              Ni II-020 rIII04'
                      giš zi-i[r
                                                                                   [] ur?-nu-um
 Ni I-04
             1108
                                                              Ni II-024 rII02
                      giš z[i-
                                                                                   giš ur-nu-u[m]
 Ni I-08
             II18'
                                                              Ni II-029 rIII01'
                      giš zi-ir-dum
                                                                                   giš [u]r-[n]u-u[m]
 Ni II-013 rIII05'
                      giš zi-ir-dum
                                                              Ni II-031 rII07
                                                                                   giš ur-nu-um
 Ni II-015 rIII15
                            -u]m
                                                              Ni II-038 rI03'
                                                                                   giš ur-[
 Ni II-019 rI03
                      giš zi-ir-[
                                                              Ni II-040 rII06'
                                                                                   giš ur-n[u]-um
 Ni II-024 rII01
                      giš zi-ir-d[um]
                                                              Ni II-058 01
                                                                                   giš ur-nu-um
 Ni II-026 rI15'
                      [z]i-[i]r-du[m]
                                                              Ni II-059 rII22
                                                                                   giš ur-nu-[
 Ni II-031 rII06
                                                              Ni II-062 rII02'
                                                                                   [ ] u[r]-n[u-u]m
                      giš zi-ir-[
 Ni II-038 rI02'
                                                              Ni II-085 rIII06
                                                                                   giš ur-nu-um
                      giš z[i
 Ni II-040 rII05'
                      giš zi-ir-dum
                                                              Ni II-116 rIII03
                                                                                        ]-um
 Ni II-059 rII21
                      giš zi-ir-d[um]
                                                              Ni II-143 rIII13'
                                                                                   giš MA-nu-X-um
 Ni II-085 rIII05
                      giš zi-ir-dum
                                                              Ni II-164 rIII21
                                                                                   giš ur-nu-u[m]
 Ni II-088 rII08'
                          i]r-dum
                                                              Ni II-165 rII23
                                                                                   giš ur-nu-u[m]
 Ni II-110 I11
                      giš zi-ir-dum
                                                              Ni II-166 rI12
                                                                                   giš ur-nu-u[m]
 Ni II-116 rIII02
                           ]-dum
                                                              Ni II-174 rIII09
                                                                                   [] ur-nu-um
 Ni II-143 rIII12'
                      giš zi-ir-d[um]
                                                              Ni II-216 rII03'
                                                                                         ]-um
 Ni II-164 rIII20
                      giš gi-ir-du[m] (sic)
                                                              Ni II-218 rII05'
                                                                                   giš ur-nu-um
 Ni II-165 rII22
                      giš zi-ir-dum
                                                              Ni II-223 rII07'
                                                                                   giš ur-n[u-
 Ni II-166 rI11
                                                              Ni II-252 rI03'
                      giš zi-ir-dum
                                                                                   giš ur-nu-u[m]
 Ni II-174 rIII08
                      [ z]i-ir-dum
                                                              Ni II-269 rII06'
                                                                                   giš ur-nu-u[m]
 Ni II-216 rII02'
                            ]-um
                                                              Ni IV-12 rII15
                                                                                   giš []-nu-um?
 Ni II-218 rII04'
                      giš zi<sub>2</sub>-ir-[
                                                              Ni U-24
                                                                         rI05
                                                                                   giš ur-n[u-
 Ni II-223 rII06'
                      giš zi-ir-du[m]
 Ni II-225 rII02'
                      giš zi-ir-MIN
                                                            060 3260
                                                                         giš ti-a-ru-um
 Ni II-240 rII13'
                      giš zi-ir-dum
                                                              Ni I-01
                                                                          II05'
                                                                                   giš ti-a-ru-um
 Ni II-252 rI02'
                      [] zi-ir-d[um]
                                                              Ni I-08
                                                                                   giš U2?-r[u-
                                                                         II20'
 Ni II-269 rII05
                      giš z[i?]-i[r-du]m
                                                              Ni II-001 rIV02'
                                                                                   giš ti-a-ru-u[m]
 Ni IV-12 rII13
                      giš z[i-i]r-dum
                                                              Ni II-006 rI01'
                                                                                       ]-um
 Ni U-24
            rI03
                      giš zi<sub>2</sub>-ir-dum
                                                              Ni II-013 rIII07'
                                                                                   [g]iš ti-ru-um
                                                              Ni II-024 rII03
                                                                                   giš ti-a-ru-um
                                                              Ni II-028 rI02'
                                                                                   giš ti-a-r[u
                                                              Ni II-029 rIII02'
                                                                                   giš ti-a-ru-um
                                                              Ni II-031 rII08
                                                                                   giš ti-ru-a-um
                                                              Ni II-038 rI04'
                                                                                   giš ta-[
                                                              Ni II-040 rII07'
                                                                                   giš ti-a-[ ]-um
                                                              Ni II-058 02
                                                                                   giš ti-a-ru-um
                                                              Ni II-059 rIII01
                                                                                   [ ] ti-a-r[u-
                                                              Ni II-062 rII03'
                                                                                   [g]iš ti-r[u]-um
                                                              Ni II-085 rIII07
                                                                                   giš ti-a-r[u-
                                                              Ni II-088 rII09'
                                                                                       rlu?-um
                                                              Ni II-092 rII01'
                                                                                       -r]u?-nu-um
                                                              Ni II-116 rIII04
                                                                                        ]-um
                                                              Ni II-143 rIII14'
                                                                                   giš ti-a-ri-[
                                                              Ni II-165 rII24
                                                                                   giš t[i-
                                                              Ni II-166 rI13
                                                                                   giš ti-a-ru-u[m]
                                                              Ni II-167 rI02'
                                                                                   giš ti-a-[
                                                              Ni II-174 rIII10
                                                                                   giš ti-a-[]-um
                                                              Ni II-216 rII04'
                                                                                         ]-um
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Ni II-218 rII06'
                                                                            Ni II-252 rI06'
                                                                                                     giš ur-zi-[
                           giš ta-a-ru-um
  Ni II-223 rII08'
                           giš te-[
                                                                            Ni II-269 rII08'
                                                                                                     giš ur-za-nu-um
  Ni II-252 rI04'
                           giš ti-a-ru-um
                                                                            Ni II-272 rIII04'
                                                                                                     giš ur-zi-nu-um
  Ni II-269 rII07'
                           giš [t]i-a-ru-u[m]
                                                                            Ni IV-23 02
                                                                                                     giš ur-zi-num,
  Ni IV-12 rII16
                                                                            Ni U-02
                                                                                         rI02
                           giš ti?-ru
                                                                                                     giš u[r-
  Ni U-24
               rI06
                           giš ti-[
                                                                          063
                                                                                          giš mi-ri,-iš-gar-ra
061 3250
                                                                            Ni I-01
                                                                                          II08'
               giš ri<sub>2</sub>-a-num<sub>2</sub>
                                                                                                     giš mi-ri<sub>2</sub>-iš-gar-ra
                                                                            Ni II-006 rI04'
  Ni I-01
               II06'
                                                                                                     [ ] mi-ri<sub>2</sub>-iš-gar-ra
                           giš ri,-a-num,
  Ni II-006 rI02'
                                ]-num,
                                                                            Ni II-013 rIII10'
                                                                                                     giš mi-ri,-iš-gar-LIŠ
                          [gi]š ri<sub>2</sub>-a-ru-RU+UM
  Ni II-013 rIII08'
                                                                            Ni II-024 rII06
                                                                                                     giš mi-ri-iš-gar-ra
  Ni II-015 rIII18B giš ri<sub>2</sub>-a-[
                                                                            Ni II-028 rI05'
                                                                                                     giš mi-ri-[
  Ni II-024 rII04
                           giš ri<sub>2</sub>-a-num<sub>2</sub>
                                                                            Ni II-029 rIII05'
                                                                                                     giš mi-ri<sub>2</sub>-iš-gar-ra
  Ni II-028 rI03'
                           giš ri,-a-nu-u[m]
                                                                            Ni II-040 rII10'
                                                                                                     giš mi-ri-[
  Ni II-029 rIII03'
                           giš ri<sub>2</sub>-a-nu-um
                                                                            Ni II-058 05
                                                                                                     giš m[i- -ga]r-ra
  Ni II-031 rII09
                                                                            Ni II-067 rII01'
                           giš [r]i-x-a-u[m]
                                                                                                     giš m[i-i]š-gar-ra
  Ni II-038 rI05'
                           giš r[i,-
                                                                            Ni II-072 rI03'
                                                                                                     giš m[i-
  Ni II-040 rII08'
                           giš ri<sub>2</sub>-a-num<sub>2</sub>
                                                                            Ni II-085 rIII10
                                                                                                     giš me-ri<sub>2</sub>-iš-ga[r]-r[a]
  Ni II-058 03
                                                                            Ni II-110 I12
                           giš ri<sub>2</sub>-a-nu-um
                                                                                                     giš m[i-r]i<sub>2</sub>-iš-ga<sub>2</sub>-ra
  Ni II-059 rIII02
                           [] ri<sub>2</sub>-a-nu-um
                                                                            Ni II-143 rIII17'
                                                                                                     giš mi-ri<sub>2</sub>-iš-gar-ra
  Ni II-062 rII04'
                                                                            Ni II-164 rIV01
                           [r]i_2-a-nu-u[m]
                                                                                                     giš mi-ri-iš-gar-ra
  Ni II-085 rIII08
                           giš ri<sub>2</sub>-a-nu-u[m]
                                                                            Ni II-167 rI05'
                                                                                                     giš mi-ri-iš-[
                                                                            Ni II-174 rIII13
  Ni II-088 rII10'
                                 -u]m
                                                                                                     giš mi-ri<sub>2</sub>-si-gar-r[a]
  Ni II-092 rII02'
                           [r]i_2-a-nu-um
                                                                            Ni II-201 rII02'
                                                                                                            ]-še-gar?-ra?
  Ni II-143 rIII15'
                           giš ri<sub>2</sub>-a-[ -u]m
                                                                            Ni II-222 rIV01'
                                                                                                              i]š-gar-r[a]
  Ni II-167 rI03'
                           giš ri-a-nu-[
                                                                            Ni II-248 rII02
                                                                                                               ]-gar-ra
  Ni II-174 rIII11
                                                                            Ni II-252 rI07'
                           giš ri<sub>2</sub>-a-nu-um
                                                                                                     giš {traces}
                                                                                                     giš m[i]-r[i]-i[š?]-gar-ra
  Ni II-216 rII05'
                                  ]-num,
                                                                            Ni IV-12 rII14
  Ni II-218 rII07'
                           giš ri<sub>2</sub>-a-ru-nu-um
                                                                            Ni IV-23
                                                                                         01
                                                                                                     giš mi-ri<sub>2</sub>-iš-ra
  Ni II-252 rI05'
                                                                            Ni U-02
                                                                                         rI03
                           giš ri<sub>2</sub>-a-nu-um
                                                                                                     giš m[i-
                                                                            Ni U-24
                                                                                         rI04
  Ni II-272 rIII03'
                           giš [ ]-nu-um
                                                                                                     giš mi-ri<sub>2</sub>-iš-ga<sub>2</sub>-r[a]
  Ni U-02
               rI01
                           giš r[i<sub>2</sub>-
                                                                          064 3265
                                                                                         giš isi<sub>2</sub>-mu<sub>2</sub>
062 3255
                giš ur-zi-num<sub>2</sub>
                                                                            Ni I-01
                                                                                          II09'
                                                                                                     giš isi<sub>2</sub>-mu<sub>2</sub>
                                                                            Ni II-006 rI05'
  Ni I-01
               II07'
                           giš ur-zi-num,
                                                                                                     [g]iš isi<sub>2</sub>-mu<sub>2</sub>
  Ni II-006 rI03'
                           [ zli-nu-um
                                                                            Ni II-013 rIII11'
                                                                                                     giš isi,-mu,
                                                                            Ni II-015 rIII20B giš isi<sub>2</sub>-mu<sub>2</sub>
  Ni II-013 rIII09'
                           [ u]r-[z]i-num<sub>2</sub>
  Ni II-015 rIII19B giš ur-zi-n[u-
                                                                            Ni II-024 rII07
                                                                                                     giš isi<sub>2</sub>-mu<sub>2</sub>
  Ni II-024 rII05
                                                                            Ni II-029 rIII06'
                           giš ur-zi-num,
                                                                                                     [gi]š [is]i<sub>2</sub>-mu<sub>2</sub>
  Ni II-028 rI04'
                           giš ur-zi-nu-[
                                                                            Ni II-037 rIII01
                                                                                                     giš isi<sub>2</sub>-[
  Ni II-029 rIII04'
                           giš ur-zi-num<sub>2</sub>
                                                                            Ni II-045 rI02'
                                                                                                     giš is[i<sub>2</sub>-
  Ni II-038 rI06'
                           giš ur-[
                                                                            Ni II-058 06
                                                                                                     giš [is]i<sub>2</sub>-mu<sub>2</sub>
  Ni II-040 rII09'
                                                                            Ni II-059 rIII04
                           giš ur-[z]i-num<sub>2</sub>
                                                                                                            ]-mu<sub>2</sub>
  Ni II-058 04
                           giš ur-z[i]-num<sub>2</sub>
                                                                            Ni II-067 rII02'
                                                                                                     giš isi2-mu2
  Ni II-059 rIII03
                                                                            Ni II-085 rIII11
                           giš ur-zi-nu[m<sub>2</sub>]
                                                                                                     giš isi,-mu,
  Ni II-072 rI02'
                                                                            Ni II-092 rII04'
                           giš ur-[
                                                                                                     [is]i_2-mu_2
  Ni II-085 rIII09
                           giš [u]r-[z]i-n[um<sub>2</sub>]
                                                                            Ni II-164 rIV02
                                                                                                     giš isi<sub>2</sub>-mu<sub>2</sub>
  Ni II-092 rII03'
                                                                            Ni II-167 rI06'
                           [ u]r-zi-ir \ dum-num<sub>2</sub>
                                                                                                     giš isi<sub>2</sub>-[
  Ni II-143 rIII16'
                                                                            Ni II-174 rIII14
                           giš ur-z[i]-nu-um
                                                                                                     giš isi<sub>2</sub>-[
  Ni II-164 rIII23
                                                                            Ni II-201 rII03'
                           giš ur-z[i-nu]m<sub>2</sub>
                                                                                                     ſ
                                                                                                           ]-mu<sub>2</sub>
  Ni II-167 rI04'
                                                                            Ni II-217 rII07'
                           giš ur-zi-[
                                                                                                     [g]iš isi<sub>2</sub>-[
  Ni II-174 rIII12
                           giš ur-zi-num<sub>2</sub>
                                                                            Ni II-218 rII09'
                                                                                                     [] isi<sub>2</sub>-mu<sub>2</sub>
  Ni II-201 rII01'
                                 ]-um
                                                                            Ni II-222 rIV02'
                                                                                                     [is]i_2-mu_2
  Ni II-218 rII08'
                           giš ur-zi-nu-um
                                                                            Ni II-244 rI01'
                                                                                                     [] isi<sub>2</sub>-m[u<sub>2</sub>]
  Ni II-248 rII01
                                 ]-nu-um
                                                                            Ni II-248 rII03
                                                                                                     giš isi2-mu2
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Ni II-119 rI02
 Ni II-252 rI08'
                      giš isi,-[
                                                                                 giš nimbar-t[ur]
 Ni IV-12 rII17
                                                             Ni II-133 I03
                      giš isi<sub>2</sub>-mu<sub>2</sub>
                                                                                 giš nimbar-tur
 Ni U-02
            rI04
                                                             Ni II-164 rIV04
                                                                                 giš nimbar-tur
                     giš i[si<sub>2</sub>-
                                                             Ni II-174 rIII16
                                                                                 giš nimbar-tur
064a 3266
            giš gibil
                                                             Ni II-217 rII09'
                                                                                 [] nimbar-tur
 Ni I-09
            II01
                      giš gibil
                                                             Ni II-222 rIV04'
                                                                                 [gi]š nimbar-tur
 Ni II-006 rI06'
                     [g]iš gibil
                                                             Ni II-244 rI03'
                                                                                 giš nimbar-tur
                                                             Ni II-248 rII05
                                                                                 [ nim]bar-tur
065 3280
             giš nimbar
                                                             Ni II-273 I01'
                                                                                 [ nim]bar-tu[r]
 Ni I-01
            II10'
                     giš nimbar
            II02
                                                           067 3282
 Ni I-09
                     giš nimbar
                                                                        giš nimbar-kur-ra
 Ni II-006 rI07'
                     [g]iš nimbar
                                                             Ni I-01
                                                                        II12'
                                                                                 giš nimbar-kur
 Ni II-013 rIII12'
                                                             Ni I-09
                                                                        II04
                                                                                 giš nimbar-kur-ra
                      giš nimbar
 Ni II-015 rIII21B giš nimbar
                                                             Ni II-013 rIII14'
                                                                                 giš nimbar-kur
 Ni II-018 rI01'
                     giš nim[bar]
                                                             Ni II-018 rI03'
                                                                                 giš nimbar-kur-r[a
 Ni II-024 rII07
                     [gi]š [nimb]ar
                                                             Ni II-037 rIII04
                                                                                 giš nimbar-kur
  Ni II-029 rIII07'
                      [ nim]bar
                                                             Ni II-045 rI05'
                                                                                 giš nimbar-[
                                                             Ni II-058 09
                                                                                 giš nimbar-kur
 Ni II-037 rIII02
                     giš nimbar
 Ni II-045 rI03'
                                                             Ni II-059 rIII07
                                                                                 [g]iš [nim]bar-kur-r[a]
                     giš [
 Ni II-058 07
                      giš [nim]bar
                                                             Ni II-067 rII05'
                                                                                 giš nimbar-kur
 Ni II-059 rIII05
                      giš nimbar
                                                             Ni II-085 I03
                                                                                 giš nimbar-kur
 Ni II-067 rII03'
                     giš nimbar
                                                             Ni II-085 rIII14
                                                                                 giš nimbar-[
 Ni II-072 rI04'
                                                             Ni II-133 I02
                      giš nim[bar]
                                                                                 giš nimbar-k[ur?]
 Ni II-085 I01
                     [] nimbar
                                                             Ni II-119 rI03
                                                                                 giš nimbar-k[ur]
                     giš nimbar
                                                             Ni II-142 rI04'
 Ni II-085 rIII12
                                                                                 giš nimbar-kur-[
 Ni II-092 rII05'
                     [ ] nimbar
                                                             Ni II-164 rIV05
                                                                                 giš nimbar-kur
 Ni II-119 rI01
                     giš nim[bar]
                                                             Ni II-174 rIII17
                                                                                 giš nimbar-kur
 Ni II-133 I01
                      giš nimbar
                                                             Ni II-175 rI01'
                                                                                 giš nim[bar]-kur-r[a]
 Ni II-164 rIV03
                     giš nimbar
                                                             Ni II-217 rII10'
                                                                                 [gi]š nimbar-kur-ra
                                                             Ni II-222 rIV05'
 Ni II-167 rI07'
                     [gi]š n[imbar]
                                                                                 [gi]š nimbar-kur-ra
 Ni II-174 rIII15
                     giš [ni]mbar
                                                             Ni II-244 rI04'
                                                                                 giš nimbar-kur-[
 Ni II-201 rII04'
                     [] nimbar
                                                             Ni II-248 rII06
                                                                                 giš nimbar-ku[r]
 Ni II-214 I02
                     giš nim[bar]
                                                             Ni II-249 I01'
                                                                                       ]-k[ur-r]a
 Ni II-217 rII08'
                     [] nimbar
                                                             Ni II-273 I02'
                                                                                    nim]bar-kur
                                                                                 Ni II-222 rIV03
                     [gi]š nimbar
                                                             Ni II-275 rII01'
                                                                                 ſ
                                                                                      ]-kur
 Ni II-244 rI02'
                     [gi]š nimbar
 Ni II-248 rII04
                                                           068 3284
                     [gi]š nim[bar]
                                                                        giš nimbar-dilmun-na
                                                             Ni I-01
 Ni II-252 rI09'
                     giš [
                                                                        II13'
                                                                                 giš nimbar-dilmun-na
 Ni IV-12 rII18
                     giš nimbar
                                                             Ni I-09
                                                                        II05
                                                                                 [g]iš nimbar-dilmun-na
                                                             Ni II-013 rIII15'
                                                                                 giš nimbar-dilmun-na
066 3289
                                                             Ni II-018 rI04'
             giš nimbar-tur
                                                                                 giš nimbar-dilmun-na
 Ni I-01
            II11'
                     giš nimbar-tur
                                                             Ni II-045 rI06'
                                                                                 giš nimbar-dil[mun-
 Ni I-09
            II03
                      giš nimbar-tur
                                                             Ni II-058
                                                                                 giš nimbar-dilmun-na
                                                                       10
 Ni II-006 rI08'
                     [g]iš nimbar-tur
                                                             Ni II-067 rII06'
                                                                                 giš nimbar-dilmun
 Ni II-013 rIII13'
                      giš nimbar-tur
                                                             Ni II-085 I04
                                                                                 giš nimbar-dilmun-na
 Ni II-015 rIII22B giš nimbar-tu[r]
                                                             Ni II-085 rIII15
                                                                                 giš nimbar-[ ]-na
 Ni II-018 rI02'
                     giš nimbar-t[ur
                                                             Ni II-090 rI01
                                                                                 giš nimbar-dilmun-na
 Ni II-037 rIII03
                                                             Ni II-133 I04
                     giš nimbar-tur
                                                                                 giš nimbar-dilmun-na
 Ni II-045 rI04'
                     giš nimbar-[
                                                             Ni II-142 rI05'
                                                                                 giš nimbar-dilm[un-
 Ni II-058 08
                      giš nimbar-tur
                                                             Ni II-143 rIV02'
                                                                                 giš nimbar-dil[mun-
 Ni II-059 rIII06
                     giš nimbar-tur
                                                             Ni II-164 rIV06
                                                                                 giš nimbar-dilmun
 Ni II-067 rII04'
                      giš nimbar-tur
                                                             Ni II-174 rIII18
                                                                                 giš nimbar-dilmun
 Ni II-085 I02
                     [g]iš nimbar-tur
                                                             Ni II-175 rI02'
                                                                                 giš nimbar-[di]lmun-na
 Ni II-085 rIII13
                     giš nimbar-[
                                                             Ni II-217 rII11'
                                                                                 [gi]š nimbar-dil[mun-n]a
 Ni II-092 rII06'
                     giš nimbar-tur
                                                             Ni II-248 rII07
                                                                                 giš nimbar-dilmun
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Ni II-249 I02'
                             -dlilmun-na
                                                                Ni II-013 rIII18'
                                                                                              šlab
                         nim]bar-dilmun-[
                                                                                      [g]iš nimbar-al-ša[b-
 Ni II-273 I03'
                       ſ
                                                                Ni II-045 rI09'
 Ni II-275 rII02'
                             ]-dilmun
                                                                Ni II-078 rI03'
                                                                                      giš [nim]bar-a[l-
                       ſ
 Ni II-284 rI02'
                       giš nimbar-dil[mun-
                                                                Ni II-085 I07
                                                                                      giš nimbar-al-šab
                                                                Ni II-085 rIII18
                                                                                      giš nimbar-[
069 3315
             giš nimbar-al-dar-ra
                                                                Ni II-102 rI04'
                                                                                      giš nimbar-al-š[ab
 Ni I-01
             II14'
                       giš nimbar-al-dar-ra
                                                                Ni II-105 rIII04
                                                                                              1-šab
 Ni II-007 rII01
                       giš nimbar-al-dar-ra
                                                                Ni II-142 rI08'
                                                                                      giš [
                                                                                            ]-al-[
 Ni II-013 rIII16'
                       giš nimbar-dar-ra
                                                                Ni II-143 rIV05'
                                                                                      giš nimbar-al-šab
 Ni II-045 rI07'
                       giš nimbar-al-d[ar-
                                                                Ni II-150 rII02'
                                                                                      giš nimbar-a[l-ša]b-ba
 Ni II-058 11
                       giš nimbar-al-dar-ra
                                                                Ni II-164 rIV09
                                                                                      giš nimbar-al-šab-ba
 Ni II-067 rII07
                       giš nimbar-al-dar-r[a]
                                                                Ni II-174 rIII21
                                                                                      giš nimbar-al-šab
                       giš nimbar-al-dar-ra
                                                                                        nim]bar-al-šab-ba
 Ni II-085 I05
                                                                Ni II-217 rII14'
 Ni II-085 rIII16
                       giš nimbar-[
                                                                Ni II-237 rIII01'
                                                                                            ]-al-šab
 Ni II-090 rI02
                       giš nimbar-al-dar-ra
                                                                Ni II-248 rII10
                                                                                        nim]bar-al-šab
 Ni II-102 rI02'
                       giš nimbar-a[l-
                                                                Ni II-249 I04'
                                                                                            1-al-šab
 Ni II-105 rIII02
                                da]r-ra
                                                                Ni II-275 rII05'
                                                                                            ]-al-šab
                                                                Ni IV-06
 Ni II-133 I05
                       giš nimbar-al-da[r]-ra
                                                                                      giš nimbar-al-šab
 Ni II-142 rI06'
                       giš nimbar-al-d[ar?-
                       giš nimbar-al-dar-ra
 Ni II-143 rIV03'
                                                               072
                                                                            giš nimbar-gu<sub>2</sub>-na
                       giš nimbar-al-dar-KUD
                                                                Ni I-01
                                                                            II17'
 Ni II-164 rIV07
                                                                                      giš nimbar-gu<sub>2</sub>-na
 Ni II-174 rIII19
                       giš nimbar-al-dar
                                                                Ni II-007 rII04
                                                                                      giš nimbar-gu2-na
                       giš nimbar-al-dar-r[a]
                                                                Ni II-045 rI10'
 Ni II-175 rI03'
                                                                                         nimba]r-gu<sub>2</sub>-[
 Ni II-217 rII12'
                       [] nimbar-al-d[ar-r]a
                                                                Ni II-078 rI04'
                                                                                      giš nimbar-gu2-na
                       gi[š nim]bar-al-dar
 Ni II-248 rII08
                                                                Ni II-085 I08
                                                                                      giš nimbar-gu<sub>2</sub>-na
                             ]-al-dar-ra
 Ni II-275 rII03'
                                                                Ni II-085 rIII19
                                                                                      giš nimbar-gu<sub>2</sub>-n[a]
 Ni II-288 rI03'
                       [g]iš nimbar-a[l] \ RI-ra
                                                                                      giš nimbar-gu<sub>2</sub>-na
                                                                Ni II-102 rI05'
                                                                Ni II-105 rIII05
                                                                                                -n]a
070 3309
             giš nimbar-al-kud-da
                                                                Ni II-133 I07
                                                                                      giš nimbar-al-gud-da
 Ni I-01
             II15'
                       giš nimbar-al-kud-da
                                                                Ni II-142 rI09'
                                                                                      giš nimbar-gu<sub>2</sub>-n[a]
 Ni II-007 rII02
                       giš nimbar-al-kud-da
                                                                Ni II-143 rIV06'
                                                                                      giš nimbar-gu<sub>2</sub>-na
 Ni II-013 rIII17'
                       giš nimbar-kud-da
                                                                Ni II-150 rII01'
                                                                                            -n]a
 Ni II-045 rI08'
                       giš nimbar-al-ku[d-
                                                                Ni II-164 rIV10
                                                                                     giš nimbar-gu2-na
                                                                Ni II-166 rII01
 Ni II-078 rI02'
                       giš nimbar-a[l-
                                                                                      giš nimbar-gu2-na
 Ni II-085 I06
                       giš nimbar-al-kud-da
                                                                Ni II-174 rIII22
                                                                                      giš nimbar-gu<sub>2</sub>-na
 Ni II-085 rIII17
                       giš nimbar-[
                                                                Ni II-217 rII15'
                                                                                      [gi]š nimbar-al-gu,-na
                       giš nimbar-al-kud-d[a]
                                                                Ni II-237 rIII02'
 Ni II-090 rI03
                                                                                     [ nim]bar-gu<sub>2</sub>-na
 Ni II-102 rI03'
                       giš nimbar-al-kud-[
                                                                Ni II-275 rII06'
                                                                                            -g]u_2-na
 Ni II-105 rIII03
                              ]-kud-da
 Ni II-133 I06
                       giš nimbar-al-kud-da
                                                               073 3344
                                                                            giš nimbar-LU<sub>2</sub>-IM
 Ni II-142 rI07'
                                                                                      giš nimbar-LU<sub>2</sub>-IM
                       giš nim[bar-a]l-k[ud-
                                                                Ni I-01
                                                                            II18'
 Ni II-143 rIV04'
                       giš nimbar-al-kud-da
                                                                Ni II-007 rII05
                                                                                      giš nimbar-LU<sub>2</sub>-IM
 Ni II-164 rIV08
                       giš nimbar-al-kud-da
                                                                Ni II-078 rI05'
                                                                                      giš nimbar-LU<sub>2</sub>-IM
 Ni II-174 rIII20
                       giš nimbar-al-kud-da
                                                                Ni II-085 I09
                                                                                      giš nimbar-LU2-IM
 Ni II-175 rI04'
                       giš nim]bar-a[l-
                                                                Ni II-085 rIII20
                                                                                      giš nimbar-L[U<sub>2</sub>-
 Ni II-217 rII13'
                       [] nimbar-al-kud-da
                                                                Ni II-143 rIV07'
                                                                                      giš nimbar-LU<sub>2</sub>-IM
                         nim]bar-al-[ ]-da
 Ni II-248 rII09
                                                                Ni II-164 rIV11
                                                                                     giš nimbar-LU<sub>2</sub>-IM
                             ]-al-kud-da
 Ni II-249 I03'
                                                                Ni II-166 rII02
                                                                                      giš [nim]bar-LU<sub>2</sub>-IM
                                                                                      g[iš nimb]ar-LU2-IM
 Ni II-275 rII04'
                             -a]l-kud-da
                                                                Ni II-174 rIII23
 Ni II-288 rI04'
                       giš nimbar-a[1] \ kud-d[a]
                                                                Ni II-237 rIII03'
                                                                                     [ nimb]ar-LU<sub>2</sub>-IM
 Ni IV-06 1
                       [] nimbar-al-kud-da
                                                                Ni II-275 rII07'
                                                                                                -I]M
                                                                                      ſ
071 3310
             giš nimbar-al-šab
                                                               074 3294
                                                                            giš nimbar-libiš-bu-ra
 Ni I-01
             II16'
                       giš nimbar-al-šab
                                                                Ni I-01
                                                                            II19'
                                                                                      giš nimbar-libiš-bu-ra
 Ni II-007 rII03
                       giš nimbar-al-šab-ba
                                                                Ni II-007 rII06
                                                                                      giš nimbar-libiš-bi-ra
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Ni II-085 I10
                        giš nimbar-libiš-b[u]-ra
                                                                      Ni II-085 rIII25
                                                                                             giš nimbar-[ {traces}
  Ni II-085 rIII21
                         giš nimbar-l[ibiš-
                                                                      Ni II-133 I08
                                                                                             giš nimbar-al-ug<sub>5</sub>-ga
  Ni II-143 rIV08'
                        giš nimbar-libiš-bu-ra
                                                                      Ni II-142 rI10'
                                                                                             giš nimbar-al-u[g<sub>5</sub>?-
  Ni II-164 rIV12
                        giš nimbar-libiš-bu-ra
                                                                      Ni II-143 rIV09'
                                                                                             giš nimbar-al-u[g<sub>5</sub>?]-ga
  Ni II-166 rII03
                         giš nim[bar- -b]u-ra
                                                                      Ni II-150 rII04'
                                                                                             giš nimbar-al-u[g<sub>5</sub>]-ga
  Ni II-174 rIII24
                                -lib]iš-b[u-r]a
                                                                      Ni II-164 rIV16
                                                                                             giš nimbar-al-ug<sub>5</sub>-ga
  Ni II-190 rI03'
                         giš nimbar-libiš-bu-ra
                                                                      Ni II-208 rII08'
                                                                                             giš nimbar-al-ug<sub>5</sub>-g[a]
  Ni II-213 I05'
                        giš nim[bar]-l[ibiš]-bu-r[a]
                                                                      Ni II-240 rIII04'
                                                                                             giš nimbar-al-ug<sub>5</sub>-ga
                                                                      Ni II-249 I05'
  Ni II-237 rIII04'
                                -lib]iš-bu-ra
                                                                                                   ]-al-ug<sub>5</sub>
  Ni II-266 rI05'
                        giš nimbar-li[biš-
                                                                      Ni II-291 rII01'
                                                                                             giš [nim]bar-a[l]-u[g<sub>5</sub>-g]a
  Ni II-275 rII08'
                                     ]-ra
  Ni II-284 rI01'
                        giš nimbar-libiš?-[
                                                                    078a 3313
                                                                                  giš nimbar-al-gaz-za
                                                                      Ni II-249
                                                                                  I06'
                                                                                                   ]-al-gaz-za
075 3312
              giš nimbar-al-kum-ma,
  Ni I-01
              II20'
                        giš nimbar-al-kum-ma,
                                                                    079 3303
                                                                                   giš nimbar-al-uš,-a
  Ni I-03
              rI01'
                                                                      Ni I-01
                                                                                             giš nimbar-al-uš,-a
                                -a]l-kum-[
                                                                                   II24'
  Ni II-007 rII07
                        giš nimbar-al-kum-ma<sub>3</sub>
                                                                      Ni II-004 rII03'
                                                                                                      u]š,-a
 Ni II-085 rIII22
                        giš nimbar-a[l-
                                                                      Ni II-006 rII01'
                                                                                                     all-uš,
 Ni II-150 rII03'
                        giš nimbar-al-kum-ma,
                                                                      Ni II-007 rII11
                                                                                             giš nimbar-[al-u]š<sub>2</sub>-a
  Ni II-164 rIV13
                        giš nimbar-al-ma<sub>3</sub>-kum<sub>2</sub>
                                                                      Ni II-013 rIV02'
                                                                                             giš nimbar-[ ]-a
                                                                      Ni II-040 rIII03'
                        giš nimbar-al-kum?-ma<sub>3</sub>
                                                                                             [ nim]bar-al-uš<sub>2</sub>-a
  Ni II-190 rI05'
 Ni II-248 rII11
                        g[iš nim]bar-kum-[
                                                                      Ni II-085 I12
                                                                                             giš nimbar-a[l-u]š2-a
 Ni II-266 rI06'
                         giš nimbar-al-[
                                                                      Ni II-085 rIII26
                                                                                             giš nimbar-[ {traces}
  Ni II-275 rII09'
                                    ]-ma<sub>3</sub>
                                                                      Ni II-142 rI11'
                                                                                             giš nimbar-al-uš2-a
                                                                      Ni II-143 rIV10'
                                                                                             giš nimbar-al-uš,-a
                                                                      Ni II-150 rII05'
075a
              giš nimbar-kum,-ma
                                                                                             [gi]š nimbar-al-uš,-a
  Ni II-007 rII08
                        giš nimbar-kum,-ma
                                                                      Ni II-164 rIV17
                                                                                             giš nimbar-al-uš,-a
                                                                      Ni II-174 rIV01
                                                                                             [g]iš nimbar-al-uš,-a
076
              giš nimbar-izi-gu<sub>7</sub>-a
                                                                      Ni II-208 rII07'
                                                                                             giš nimbar-al-u[š,
 Ni I-01
                                                                      Ni II-240 rIII05'
              II21'
                        giš nimbar-izi-gu<sub>7</sub>-a
                                                                                             giš nimbar-al-uš2-a
  Ni I-03
              rI02'
                        [] nimbar-izi-gu<sub>7</sub>]-a
                                                                      Ni II-259 rIII02'
                                                                                             [ nimba]r-al \ [ ]-a
 Ni II-007 rII10
                        giš nimbar-izi-gu<sub>7</sub>
                                                                      Ni II-291 rII02'
                                                                                             giš nimbar-al-uš2-a
 Ni II-085 rIII24
                        giš nimbar-izi-a (sic!)
 Ni II-164 rIV14
                        giš nimbar-izi-gu<sub>7</sub>-a
                                                                    080
                                                                                   giš nimbar-sig,-sig,-al-šeg,
  Ni II-240 rIII02'
                        giš nimbar-al-KA-a
                                                                      Ni I-01
                                                                                  II25'
                                                                                             giš nimbar-s[ig,-si]g,-al-šeg,
                                                                                  III01'A [
                                                                      Ni I-08
                                                                                                      ]-šeg<sub>6</sub>-ga<sub>2</sub>
077 3304
              giš nimbar-uh-gu,-a
                                                                      Ni II-006 rII02'
                                                                                             giš nimbar-si[g<sub>7</sub>-
                                                                      Ni II-040 rIII04'
  Ni I-01
              II22'
                        giš nimbar-uh-gu<sub>7</sub>-a
                                                                                             [ nim]bar-sig<sub>7</sub>-sig<sub>7</sub>-al-šeg<sub>6</sub>-
  Ni I-03
              rI03'
                        [] nimbar-uh-gu<sub>7</sub>-a
                                                                                             ga,
 Ni II-007 rII09
                        giš nimbar-uh-g[u<sub>7</sub>]-a
                                                                      Ni II-085 I13
                                                                                             giš [
                                                                                                        ]-al-[
  Ni II-059 rIII17
                                                                      Ni II-085 rIV01
                        giš nimbar-uh-g[u<sub>7</sub>]-a
                                                                                             giš nimbar-[
                                                                                                               ] \ al-\sec_6-ga<sub>2</sub>
  Ni II-085 rIII23
                        giš nimbar-uh-KA
                                                                      Ni II-142 rI12'
                                                                                             giš nim[bar
                                                                                                                ]-šeg<sub>6</sub>-ga<sub>2</sub>
 Ni II-164 rIV15
                        giš nimbar-uh-KA-a
                                                                      Ni II-143 rIV11'
                                                                                             giš nimbar-al-sig, \ sig,-al-
 Ni II-240 rIII03'
                        giš nimbar-uh-KA-a
                                                                                             šeg<sub>6</sub>-ga<sub>2</sub>
                                                                      Ni II-150 rII06'
 Ni II-266 rI07'
                         giš nimbar-uh-[
                                                                                             [] nimbar-sig<sub>7</sub>-sig<sub>7</sub>-al-š[eg<sub>6</sub>?]
  Ni U-01
              I01'
                        [gi]š nimbar-uh-[
                                                                      Ni II-164 rIV18
                                                                                             giš nimbar-sig,-sig,-al-ga
                                                                                             (sic)
              giš nimbar gig-[
                                                                      Ni II-166 rII07
077a 3306
                                                                                             giš nim[bar- ]-sig<sub>7</sub>-al-[ ]-
  Ni U-01
              I02'
                        giš nimbar-gig-[
                                                                                             giš nimbar-sig,-sig,-al-šeg,-
                                                                      Ni II-174 rIV02
078 3301
              giš nimbar-al-ug<sub>5</sub>-ga
                                                                      Ni II-203 rII01'
  Ni I-01
              II23'
                         giš nimbar-al-ug,-ga
                                                                                             giš nimbar-si[g_7- ]\al-šeg_6-
  Ni II-004 rII02'
                                 u]g5-ga
 Ni II-040 rIII02'
                        [ nim]bar-al-X-ga
                                                                      Ni II-240 rIII06'
                                                                                             giš nimbar-sig,-X-al-šeg,-ga,
                                                                      Ni II-259 rIII03'
                                                                                             [ nimb]ar-sig_7 \setminus [ ]-al \ [ ]-
 Ni II-085 I11
                        giš nimbar-al-ug<sub>5</sub>-ga
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giš ama-nimbar
                                                                     083 3293
                         ga_2
  Ni II-291 rII03'
                                                                       Ni II-006 rII05'
                         giš nimbar-si[g<sub>7</sub>]-si[g<sub>7</sub>]-al-
                                                                                              giš ama-nimbar
                                                                       Ni II-009 rII02
                                                                                              giš ama-nimbar
                         \tilde{s}e[g_6]
                                                                       Ni II-015 rIV13
                                                                                              [ a]ma-nimbar
081 3351
                                                                       Ni II-034 rII02'
                                                                                              giš ama-nimbar
               giš ša<sub>3</sub>-nimbar
  Ni I-08
              III02'A
                                -nim]bar
                                                                       Ni II-040 rIII07'
                                                                                              giš ama-nimbar
  Ni II-006 rII03'
                         giš nimbar-ša<sub>3</sub> \ ni[mbar]
                                                                       Ni II-084 I03
                                                                                              giš ama-nimbar
  Ni II-013 rIV03'
                                                                       Ni II-085 I18
                         giš ša<sub>3</sub>-nimbar
                                                                                              giš am[a-
  Ni II-015 rIV11
                         [ \S]a_3-n[imbar]
                                                                       Ni II-085 rIV04
                                                                                              giš ama-nimbar
  Ni II-084 I01
                            š]a<sub>3</sub>-nimbar
                                                                       Ni II-142 rI15'
                                                                                              [ am]a-nimbar
  Ni II-085 I16
                         giš ša<sub>3</sub>-[
                                                                       Ni II-143 rIV14'
                                                                                              giš ama-nimbar
  Ni II-085 rIV02
                         giš ša<sub>3</sub>-nimbar
                                                                       Ni II-150 rII09'
                                                                                              giš ama-[
  Ni II-133 I09
                         [ \S]a<sub>3</sub>-nim[bar]
                                                                       Ni II-164 rIV21
                                                                                              giš am[a-
  Ni II-142 rI13'
                         giš [ ]-nimbar
                                                                       Ni II-166 rII10
                                                                                              [ a]ma-nimbar
  Ni II-143 rIV12'
                         [gi]š ša<sub>3</sub>-nimbar
                                                                       Ni II-167 rII04'
                                                                                              giš ama-nim[bar]
  Ni II-150 rII07'
                         [] ša<sub>3</sub>-nim[bar]
                                                                       Ni II-168 I01'
                                                                                              giš ama-ni[mbar
  Ni II-164 rIV19
                         giš ša<sub>3</sub>-nimbar
                                                                      Ni II-172 rII02'
                                                                                              [ a]ma-nimbar
  Ni II-165 rIII08
                         giš š[a<sub>3</sub>-nimba]r
                                                                      Ni II-174 rIV05
                                                                                              giš ama-nimbar
  Ni II-166 rII08
                         giš š[a<sub>3</sub>-nim]bar
                                                                       Ni II-177 rI07'
                                                                                              giš ama-[
  Ni II-167 rII02'
                         giš ša<sub>3</sub>-nimbar
                                                                       Ni II-203 rII04'
                                                                                              giš ama-nimbar
  Ni II-174 rIV03
                         giš ša<sub>3</sub>-nimbar
                                                                       Ni II-208 rII11'
                                                                                              giš ama-nimbar
  Ni II-203 rII02'
                         [gi]š ša<sub>3</sub>-nimbar
                                                                       Ni II-239 rIII11
                                                                                              giš UŠ-nimbar
  Ni II-208 rII09'
                         giš ša<sub>3</sub>-nimbar
                                                                                              giš ama-nimbar
                                                                      Ni II-240 rIII09'
  Ni II-239 rIII09
                         giš ša<sub>3</sub>-nimbar
                                                                       Ni II-243 rI01'
                                                                                              [gi]š am[a-
                         giš ša<sub>3</sub>-nimbar
                                                                                              giš am[a]-nim[bar]
  Ni II-240 rIII07'
                                                                      Ni II-253 rII03'
  Ni II-253 rII01'
                                                                      Ni II-289 rI03'
                                                                                              giš ama-[
                         giš š[a<sub>3</sub>-
  Ni II-259 rIII04'
                         [ š]a<sub>3</sub>-nimbar
                                                                     084
                                                                                   giš KU-<sup>gis</sup>kiri<sub>6</sub>-nimbar
               giš suhur-nimbar
082 3355
                                                                       Ni II-006 rII06'
                                                                                              giš KU-<sup>giš</sup>kiri<sub>6</sub>-nimbar
                                                                       Ni II-009 rII03
                                                                                              giš KU-<sup>giš</sup>kiri<sub>6</sub>-nimbar
  Ni II-006 rII04'
                         giš suhur-ni[mbar
                                                                                              [] KU-kiri<sub>6</sub>-nimbar
  Ni II-009 rII01
                         giš suhur-nimbar
                                                                      Ni II-015 rIV14
  Ni II-015 rIV12
                         [ suhu]r-n[imbar]
                                                                       Ni II-034 rII03'
                                                                                                   ki]ri<sub>6</sub>-nimbar
 Ni II-034 rII01'
                         giš suhur-nimbar
                                                                      Ni II-040 rIII08'
                                                                                              [gi]š KU-<sup>giš</sup>kiri<sub>6</sub>-nimbar
  Ni II-040 rIII06'
                         giš suhur-nimbar
                                                                      Ni II-049 rI01'
                                                                                              giš KU-[
                                                                                              giš LAGAB-giškiri,-nimbar
  Ni II-084 I02
                         giš suhur-nimbar
                                                                      Ni II-084 I04
                                                                                              giš LAGAB-<sup>giš!</sup>kiri<sub>6</sub>-nimbar
                                                                      Ni II-085 rIV05
 Ni II-085 rIV03
                         giš suhur-nimbar
  Ni II-133 I10
                                                                      Ni II-142 rI16'
                                                                                                    ]-<sup>giš</sup>kiri<sub>6</sub>-nimbar
                         [ suhu]r?-ni[mbar
                                                                                              [gi]š K[U]-giškiri6-nimbar
  Ni II-142 rI14'
                         gi[š su]hur-nimbar
                                                                      Ni II-143 rIV15'
  Ni II-143 rIV13'
                         [] suhur-nimbar
                                                                       Ni II-166 rII11
                                                                                              [ ] giskiri,-nimbar
  Ni II-150 rII08'
                         [g]iš suhur-nim[bar]
                                                                       Ni II-167 rII05'
                                                                                              giš DE<sub>2</sub>-nimbar
  Ni II-164 rIV20
                                                                                              giš KU-<sup>giš</sup>kiri<sub>6</sub>-nimbar
                                                                       Ni II-168 I02'
                         giš suhur-nimbar
                                                                                              [] KU-giškiri6-nimbar
  Ni II-165 rIII09
                         giš su[hur-nimba]r
                                                                       Ni II-172 rII03'
                         giš [suh]ur-nimbar
                                                                       Ni II-174 rIV06
                                                                                              giš KU-<sup>giš</sup>nimbar
 Ni II-166 rII09
  Ni II-167 rII03'
                         giš suhur-nimbar
                                                                      Ni II-208 rII12'
                                                                                              giš kiri<sub>6</sub>-nim[bar]
                                                                      Ni II-239 rIII12
                                                                                              giš KU-nimbar
  Ni II-172 rII01'
                         [ suhu]r-nim[bar]
                                                                                              giš KU-gi[ški]ri6-nimbar
  Ni II-174 rIV04
                         giš suhur-nimbar
                                                                      Ni II-240 rIII10'
 Ni II-177 rI06'
                         [g]iš suhur-[
                                                                      Ni II-243 rI02'
                                                                                              giš TUG<sub>2</sub>-[
                                                                                              giš KU-kiri<sub>6</sub>-nimbar
  Ni II-203 rII03'
                         [gi]š suhur-nimbar
                                                                      Ni II-253 rII04'
                         giš suhur-nimbar
                                                                      Ni II-260 I02'
  Ni II-208 rII10'
                                                                                              giš KU-[
                                                                                              giš KU-<sup>giš</sup>kiri<sub>6</sub>-nim[bar]
  Ni II-239 rIII10
                         giš suhur-nimbar
                                                                       Ni II-289
                                                                                   rI04'
                                                                                              giš KU-<sup>giš</sup>kiri<sub>6</sub>-nimbar
  Ni II-240 rIII08
                         giš suhur-nimbar
                                                                      Ni U-24
                                                                                   rII01
  Ni II-253 rII02'
                         giš suhur-[
                                                                                   giš KU-<sup>giš</sup>kiri<sub>6</sub>-NE-nimbar
  Ni II-259 rIII05'
                         [ su]hur-nimbar
                                                                     085
  Ni II-289 rI02'
                         giš suhur-nim[bar]
                                                                       Ni II-006 rII07'
                                                                                              giš KU-giškiri6-NE-ni[mbar
                                                                       Ni II-040 rIII09'
                                                                                             [ ] KU-giškiri<sub>6</sub>-NE-nimbar
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Ni II-049 rI02'
                      giš KU-<sup>giš</sup>[
                                                                Ni II-260 I04'
                                                                                     giš p[a]-kud-[
                      giš LAGAB-giškiri6-x-NE-
 Ni II-084 I05
                                                                Ni II-289 rI08'
                                                                                     giš pa-kud-nimbar
                      ni[mbar]
                                                                Ni IV-05
                                                                           2
                                                                                     giš pa-kud-nimbar
                      giš LAGAB-giškiri<sub>6</sub>-UŠ-
 Ni II-085 rIV06
                                                                Ni U-23
                                                                           I02'
                                                                                     giš pa-kud-n[imbar]
                      nimbar
                                                                Ni U-24
                                                                           rII03
                                                                                     giš pa-kud-nimbar
  Ni II-243 rI03'
                      giš TUG<sub>2</sub>-[
 Ni II-289 rI05'
                      giš KU-giškiri,-N[E-nim]bar
                                                              088 3359
                                                                           giš dalla,-nimbar
                                                                Ni I-08
                                                                           III08'
                                                                                     giš dalla,-[
086 3356
             giš pa-nimbar
                                                                Ni II-009 rII06
                                                                                     giš dalla,-nimbar
 Ni I-08
             III06'
                      giš p[a-
                                                                Ni II-010 rII02'
                                                                                     giš dalla,-nimbar
 Ni II-006 rII09'
                                                                Ni II-015 rIV19B [ ] dalla,-nimbar
                      giš pa-[
 Ni II-009 rII04
                      giš pa-nimbar
                                                                Ni II-016 rI01
                                                                                     giš dal[la,
 Ni II-034 rII04'
                                                                Ni II-018 rII02'
                      [] pa-nimbar
                                                                                     giš dalla<sub>2</sub>-[
 Ni II-049 rI04'
                      giš p[a-
                                                                Ni II-034 rII06'
                                                                                     [] dalla<sub>2</sub>-nimbar
 Ni II-084 I07
                      giš pa-[nimb]ar
                                                                Ni II-049 rI06'
                                                                                     giš dal[la,
 Ni II-085 I22
                                                                Ni II-069 rII01
                                                                                     giš dalla,-ni[mbar
                      giš pa-nimbar
 Ni II-085 rIV08
                      giš pa-nimbar
                                                               Ni II-084 I09
                                                                                     giš dall[a,
 Ni II-086 rII02'
                      giš pa-nimbar
                                                               Ni II-086 rII04'
                                                                                     giš dalla,-nimbar
 Ni II-142 rI17'
                      giš pa-nimbar
                                                               Ni II-166 rII14
                                                                                     giš dalla<sub>2</sub>-nim[bar]
                                                                                     [gi]š dalla<sub>2</sub>-nimbar
 Ni II-166 rII12
                      [] pa-nimbar
                                                               Ni II-168 I05'
 Ni II-167 rII06'
                      giš p[a]-nimbar
                                                                Ni II-174 rIV09
                                                                                     [] dalla<sub>2</sub>-nimbar
 Ni II-168 I03'
                      giš pa-nimbar
                                                               Ni II-188 rI02'
                                                                                     giš dalla<sub>2</sub>-nim[bar
 Ni II-172 rII04'
                                                               Ni II-192 rI01
                      giš pa-nimbar
                                                                                     [ d]alla<sub>2</sub>-n[imbar]
 Ni II-174 rIV07
                      giš pa-nimbar
                                                                Ni II-194 rII01'
                                                                                     [giš d]alla<sub>2</sub>-[
                                                                                     giš [dal]la<sub>2</sub>-nim[bar]
 Ni II-208 rII13'
                      giš pa-nimbar
                                                               Ni II-220 I01'
 Ni II-239 rIII13
                                                               Ni II-239 rIII15
                      giš pa-nimbar
                                                                                    giš dalla<sub>2</sub>-[
 Ni II-243 rI04'
                                                               Ni II-260 I05'
                      giš pa-[
                                                                                     giš dalla,-[
 Ni II-253 rII05'
                      giš pa-nimbar
                                                                Ni II-289
                                                                           rI09'
                                                                                     giš dalla,-nimbar
 Ni II-260 I03'
                                                               Ni U-23
                                                                           I03'
                                                                                     giš dalla<sub>2</sub>-nim[bar]
                      giš p[a-
 Ni II-289 rI07'
                                                               Ni U-24
                                                                           rII04
                      giš [p]a-nimbar
                                                                                     giš dalla<sub>2</sub>-[
 Ni IV-05 1
                      giš [p]a-nimbar
 Ni IV-12 rII19
                      giš pa-DIŠ-ra
                                                              089 3398
                                                                           giš mud-nimbar
 Ni U-23
             I01'
                                                                Ni I-08
                                                                           III09'
                                                                                     giš mud-[
                      []p[a-
 Ni U-24
             rII02
                      giš pa-nimbar
                                                               Ni II-010 rII03'
                                                                                     giš mud-nimbar
                                                                Ni II-015 rIV20B
                                                                                    [gi]š mud-nimbar
087 3357
                                                               Ni II-018 rII03'
             giš pa-kud-nimbar
                                                                                     giš mud-nimbar
 Ni I-08
             11107'
                                                                Ni II-019 rII01
                                                                                     giš mud-nimbar
                      giš pa-k[ud-
 Ni II-009 rII05
                      giš pa-kud-nimbar
                                                                Ni II-034 rII07'
                                                                                     [ m]ud-nimbar
 Ni II-010 rII01'
                      giš pa-kud-nimbar
                                                                Ni II-049 rI07'
                                                                                     giš mu[d-
 Ni II-018 rII01'
                                                                Ni II-069 rII02
                                                                                     [gi]š mud-ni[mbar
                      giš p[a-
 Ni II-034 rII05'
                                                                Ni II-084 I10
                      [g]iš pa-kud-nimb[ar]
                                                                                     giš m[ud-
 Ni II-049 rI05'
                      giš pa-[
                                                                Ni II-086 rII05'
                                                                                     giš mud-nimbar
                                                                Ni II-166 rII15
                                                                                     giš mud-nimbar
 Ni II-084 I08
                      giš pa-kud-nim[bar]
 Ni II-086 rII03'
                      giš pa-kud-nimbar
                                                                Ni II-168 I06'
                                                                                     [ mu]d-[
 Ni II-143 rIV17'
                                                                                    g[iš] mud-nimbar
                      [] pa-kud-nimbar
                                                               Ni II-174 rIV10
 Ni II-165 rIII15
                      giš [ ]-kud-[
                                                               Ni II-188 rI03'
                                                                                     giš mud-nimbar
 Ni II-166 rII13
                      [ p]a-k[ud]-nimbar
                                                               Ni II-189 rI01'
                                                                                     [ ] m[ud-
 Ni II-167 rII07'
                      giš pa-kud-nimbar
                                                               Ni II-192 rI02
                                                                                     [] mud-nimbar
 Ni II-168 I04'
                      giš pa-kud-nimbar
                                                               Ni II-194 rII02'
                                                                                     [ m]ud-n[imbar]
 Ni II-172 rII05'
                      giš pa-kud-nimbar
                                                                Ni II-220 I02'
                                                                                     giš mu[d]-nim[bar]
 Ni II-174 rIV08
                      [] pa-kud-nimbar
                                                               Ni II-289
                                                                           rI10'
                                                                                     giš mud-nimbar
 Ni II-188 rI01'
                                                               Ni U-23
                                                                           I04'
                      g[iš p]a-k[ud-
                                                                                     [gi]š m[ud-
 Ni II-208 rII14'
                      giš pa-kud-nimbar
                                                               Ni U-24
                                                                           rII05
                                                                                     giš mud-[
 Ni II-239 rIII14
                      giš pa-kud-nimbar
 Ni II-253 rII06'
                                                              090 3360
                      giš []-kud-nim[bar]
                                                                           giš ze<sub>2</sub>-na-nimbar
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Ni I-08
               III10'
                                                                           Ni II-200 rIII03'
                           giš ze<sub>2</sub>-n[a-
                                                                                                     giš zu<sub>2</sub>-[
  Ni II-015 rIV21B [
                                                                           Ni II-266 rII04'
                              z]e<sub>2</sub>-na-nimbar
                                                                                                     giš zu<sub>2</sub>-gu-[
  Ni II-018 rII04'
                           giš ze,-na-nimbar
                                                                            Ni U-22
                                                                                         I01'
                                                                                                     [gi]š z[u<sub>2</sub>-
  Ni II-019 rII02
                           [gi]š ze<sub>2</sub>-na-nimbar
  Ni II-049 rI08'
                                                                          094 3380
                                                                                         giš TUG,-nimbar
                           giš ze,-[
                                                                            Ni I-08
                                                                                         III12'
                                                                                                     giš T[UG,?]-nimbar
  Ni II-069 rII03
                           giš ze,-na-nimbar
  Ni II-084 I11
                                                                            Ni II-008 rII03'
                                                                                                     giš TUG2-nimbar
                           giš z[e<sub>2</sub>-
  Ni II-086 rII06'
                                                                            Ni II-015 rIV23B [ ] TUG<sub>2</sub>-nimbar
                             ]-na-nimbar
  Ni II-165 rIII16
                           giš ze<sub>2</sub>-na-[ni]mbar
                                                                            Ni II-016 rI02
                                                                                                     giš TUG<sub>2</sub>-[]-nimbar
  Ni II-166 rII16
                           giš ze,-na-nimbar
                                                                            Ni II-018 rII06'
                                                                                                     giš TUG<sub>2</sub>-nimbar
  Ni II-174 rIV11
                                                                            Ni II-049 rI11'
                           [] ze,-na-nimbar
                                                                                                     giš TUG<sub>2</sub>-[
  Ni II-188 rI04'
                           giš ze<sub>2</sub>-na-nim[bar
                                                                            Ni II-084 I15
                                                                                                     giš TUG<sub>2</sub>-nimbar
  Ni II-189 rI02'
                                                                            Ni II-166 rII18
                                                                                                     giš TUG2-nimbar
                           [gi]š ze<sub>2</sub>-[
  Ni II-192 rI03
                           [] ze,-na-nim[bar]
                                                                            Ni II-174 rIV13
                                                                                                     [gi]š TUG,-nimbar
  Ni II-194 rII03'
                           [g]iš ze,-na-nimbar
                                                                            Ni II-183 rI02
                                                                                                     giš TUG,-[
  Ni II-220 I03'
                           giš ze,-na-nim[bar]
                                                                            Ni II-189 rI06'
                                                                                                     [gi]š KU-nim[bar]
  Ni II-266 rII01'
                           giš z[e,-
                                                                           Ni II-194 rII05'
                                                                                                     [ T]UG<sub>2</sub>-nimbar
  Ni II-289 rI11'
                           giš z[e<sub>2</sub>]-na-nimbar
                                                                           Ni II-200 rIII04'
                                                                                                     giš TUG<sub>2</sub>-[
                                                                           Ni II-256 rII02'
                                                                                                     [] TUG<sub>2</sub>-nim[bar]
091 3369
               giš zu<sub>2</sub>-nimbar
                                                                           Ni II-266 rII05'
                                                                                                     giš TUG<sub>2</sub>-nim[bar]
  Ni I-08
               III11'
                           giš zu<sub>2</sub>-nimbar
                                                                           Ni U-22
                                                                                         I02'
                                                                                                     [gi]š TUG<sub>2</sub>-[
  Ni II-015 rIV22B [ ] zu<sub>2</sub>-nimbar
  Ni II-018 rII05'
                           giš zu<sub>2</sub>-nimbar
                                                                          095
                                                                                          giš pi-el-la<sub>2</sub>-nimbar
  Ni II-019 rII03
                           [z]u_2-nim[bar]
                                                                            Ni I-08
                                                                                         III13'
                                                                                                     [gi]š pi-el-la<sub>2</sub>-nimbar
  Ni II-049 rI09'
                                                                           Ni II-008 rII04'
                           giš zu<sub>2</sub>-[
                                                                                                     giš pi-el-la<sub>2</sub>-nimbar
                           giš zu<sub>2</sub>-ni[mbar
  Ni II-069 rII04
                                                                           Ni II-015 rIV24B [ e]l-la<sub>2</sub>-nimbar
  Ni II-084 I12
                                                                           Ni II-018 rII07'
                                                                                                     giš pi-el-la<sub>2</sub>-nimbar
                           giš z[u<sub>2</sub>-
  Ni II-165 rIII17
                           giš [z]u<sub>2</sub>-nimbar
                                                                            Ni II-035 rIV01'
                                                                                                         ]-la<sub>2</sub>-nimbar
  Ni II-166 rII17
                           giš zu<sub>2</sub>-nimbar
                                                                           Ni II-041 rII03'
                                                                                                     giš pi-[
  Ni II-174 rIV12
                           [] zu<sub>2</sub>-nimbar
                                                                           Ni II-045 rII03'
                                                                                                          -e]l-la<sub>2</sub>-nimbar
  Ni II-188 rI05'
                           giš zu<sub>2</sub>-nim[bar
                                                                           Ni II-049 rI12'
                                                                                                     giš pi-el-[
  Ni II-189 rI03'
                           giš zu<sub>2</sub>-[
                                                                           Ni II-069 rII06
                                                                                                         ]-pi-ni[mbar
                           [g]iš zu<sub>2</sub>-n[imbar]
                                                                                                     giš pi-el-la<sub>2</sub>-nimbar
  Ni II-192 rI04
                                                                           Ni II-084 I16
  Ni II-194 rII04'
                           [gi]š zu<sub>2</sub>-nimbar
                                                                           Ni II-166 rII19
                                                                                                     giš pi-el-la<sub>2</sub>-nimbar
  Ni II-220 I04'
                           giš zu<sub>2</sub>-nim[bar]
                                                                           Ni II-174 rIV14
                                                                                                     [gi]š pi-el-la,-nimbar
  Ni II-266 rII02'
                                                                           Ni II-177 rII03'
                           giš zu<sub>2</sub>-[
                                                                                                     giš pi-[
                                                                           Ni II-181 rII03'
                                                                                                     [ p]i-el-la2-nimbar
092
                giš zu<sub>2</sub>-gan-na-nimbar
                                                                           Ni II-183 rI03
                                                                                                     giš [p]i-el-la<sub>2</sub>-nim[bar
  Ni II-008 rII01'
                           giš zu<sub>2</sub>-[ ]-na-ni[mbar
                                                                            Ni II-194 rII06'
                                                                                                     [ p]i-e[l- -ni]mbar
  Ni II-019 rII05
                           [z]u_2-gan-[
                                                                           Ni II-200 rIII05'
                                                                                                     giš pi-el-la<sub>2</sub>-nimbar
  Ni II-049 rI10'
                                                                           Ni II-256 rII03'
                                                                                                     [] pi-el-la<sub>2</sub>-nimbar
                           giš zu<sub>2</sub>-[
  Ni II-084 I13
                               -g]a_2-an-[
                                                                           Ni II-266 rII06'
                                                                                                     giš pi-el-la<sub>2</sub>-nimbar
                                                                           Ni U-22
                                                                                         I03'
  Ni II-183 rI01
                           [ ]-ga_2-[
                                                                                                     [gi]š pi-el-l[a2-
  Ni II-188 rI06'
                           giš zu<sub>2</sub>-gan-na-[
                                                                          096
  Ni II-189 rI04'
                           giš zu<sub>2</sub>-ga<sub>2</sub>-an-[
                                                                                          giš u<sub>3</sub>-luh-nimbar
  Ni II-200 rIII02'
                                                                            Ni I-08
                                                                                         III14'
                                                                                                     [ ] u<sub>2</sub>-luh-nimbar
                           giš z[u<sub>2</sub>-
                                                                           Ni II-008 rII05'
  Ni II-266 rII03'
                           giš zu<sub>2</sub>-AMA-[
                                                                                                     [gi]š u<sub>3</sub>-luh-nimbar
                                                                           Ni II-011 rI02'
                                                                                                     giš u<sub>3</sub>-[
093 3373
               giš zu<sub>2</sub>-gu-la-nimbar
                                                                           Ni II-015 rIV25B [
                                                                                                            ni]mbar
  Ni II-008 rII02'
                           [gi]š zu<sub>2</sub>-gu-la-nimbar
                                                                            Ni II-035 rIV02'
                                                                                                     giš u<sub>3</sub>-luh-nimbar
                                                                           Ni II-041 rII04'
                                                                                                     giš u<sub>3</sub>-l[uh-
  Ni II-019 rII04
                           [z]u_2-gu-l[a]
                                                                           Ni II-045 rII04'
  Ni II-069 rII05
                           [gi]š zu<sub>2</sub>-g[u-]-nim[bar
                                                                                                            ]-luh-nimbar
  Ni II-084 I14
                           giš zu<sub>2</sub>-gu-l[a-
                                                                           Ni II-049 rI13'
                                                                                                     giš u<sub>3</sub>-lu[h-
  Ni II-189 rI05'
                           giš zu<sub>2</sub>-sig<sub>7</sub>-g[u-
                                                                           Ni II-072 rII01'
                                                                                                     [] u<sub>3</sub>-luh-nimbar
  Ni II-192 rI05
                                                                           Ni II-084 I17
                           giš zu<sub>2</sub>-gu-[
                                                                                                     giš u<sub>3</sub>-[lu]h-nimbar
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Ni II-166 rII20
                         giš u<sub>3</sub>-luh-nimbar
                                                                        Ni II-292 rI01'
                                                                                                giš a[n-]-ni[mbar]
  Ni II-174 rIV15
                         [gi]š u<sub>3</sub>-luh-nimbar
  Ni II-175 rII01'
                                                                      099
                                                                                     giš ki-ta-nimbar
                         [g]iš u_3-[
  Ni II-181 rII04'
                         giš u<sub>3</sub>-luh-nimbar
                                                                        Ni I-08
                                                                                     III17'
                                                                                                giš [ -t]a-nimbar
  Ni II-189 rI07'
                                                                        Ni II-016 rI05
                         giš u<sub>3</sub>-[
                                                                                                giš ki-ta-[
  Ni II-200 rIII06'
                         giš u<sub>3</sub>-luh-nimbar
                                                                        Ni II-035 rIV05'
                                                                                               giš ki-ta-nimbar
  Ni II-244 rII03'
                         giš u<sub>3</sub>-luh-nimbar
                                                                        Ni II-041 rII07'
                                                                                                giš ki-ta-[
  Ni II-266 rII07'
                         giš u<sub>3</sub>-luh-nimbar
                                                                        Ni II-043 rI02'
                                                                                                [g]iš ki-ta-[-[
  Ni U-22
              I04'
                                                                        Ni II-072 rII04'
                                                                                                giš ki-ta-nimbar
                         [] u<sub>3</sub>-luh-[
                                                                        Ni II-080 rII03'
                                                                                                giš ki-ta-nimbar
097 3389
               giš ga<sub>2</sub>-li-nimbar
                                                                        Ni II-147 I02'
                                                                                                [ k]i-ta-nimbar
  Ni I-08
                         gi[š ]-li-nimbar
               III15'
                                                                        Ni II-177 rII05'
                                                                                                giš ki-t[a-
               rI02'
  Ni I-09
                         giš ga<sub>2</sub>-da-nimbar
                                                                        Ni II-179 rII02'
                                                                                                giš ki-t[a-
  Ni II-008 rII06'
                         [ ] ga<sub>2</sub>-li-nimbar
                                                                        Ni II-181 rII07'
                                                                                                giš ki-ta-nimbar
  Ni II-016 rI03
                         giš [g]a,-l[i-
                                                                        Ni II-189 rI09'
                                                                                                [ ]-t[a-
  Ni II-035 rIV03'
                         giš ga,-li-nimbar
                                                                        Ni II-194 rII10'
                                                                                                [] ki-ta-n[imbar]
  Ni II-041 rII05'
                         giš ga,-l[i
                                                                        Ni II-200 rIII09'
                                                                                                giš ki-ta-nimbar
 Ni II-045 rII05'
                                ]-li-nimbar
                                                                        Ni II-204 rII01'
                                                                                                [g]iš [k]i-t[a-
  Ni II-072 rII02'
                         giš ga<sub>2</sub>-li-nim[bar]
                                                                        Ni II-208 rIII02'
                                                                                               [ k]i-ta-[
  Ni II-080 rII01'
                         giš ga<sub>2</sub>-l[i-
                                                                        Ni II-240 rIV01'
                                                                                                giš ki-ta-nim[bar]
                             g]a<sub>2</sub>-[1]i-nimbar
  Ni II-084 I18
                                                                        Ni II-266 rII10'
                                                                                                giš ki-ta-nimbar
  Ni II-147 I01'
                               ]-l[i-
                                                                        Ni II-292 rI02'
                                                                                                giš [ ]-ta-[
  Ni II-166 rII21
                         giš ga<sub>2</sub>-li-nimbar
  Ni II-174 rIV16
                         [ g]a_2-li-nimbar
                                                                      099a
                                                                                     giš ša<sub>3</sub>-ta-zu<sub>2</sub>-lum-ri-ri-ga-nimbar
                                                                        Ni I-08
                                                                                                giš š[a<sub>3</sub>-t]a-zu<sub>2</sub>-lum \ ri-ri-ge-
  Ni II-175 rII02'
                         giš ga<sub>2</sub>-[
  Ni II-177 rII02'
                                                                                                nimbar
                         giš g[a<sub>2</sub>-
                                                                        Ni II-041 rII08'
  Ni II-181 rII05'
                         giš ga<sub>2</sub>?-li-nimbar
                                                                                                giš ša<sub>3</sub>!-ta-zu<sub>2</sub>-[
  Ni II-189 rI08'
                         giš ga<sub>2</sub>-l[i-
                                                                        Ni II-053 rI10'
                                                                                                       -z]u_2-lum \setminus [
 Ni II-190 rII02'
                         giš g[a<sub>2</sub>?-
                                                                                                nimbar
                                                                        Ni II-080 rII04'
  Ni II-194 rII08'
                         [ g]a_2-l[i-]-nim[bar]
                                                                                                giš ša<sub>3</sub>-ta-[traces]-nimbar
                                                                        Ni II-147 I03'
  Ni II-200 rIII07'
                         giš ga<sub>2</sub>-li-nimbar
                                                                                                    ]-ta-zu<sub>2</sub>-lum \ ri-ri-
  Ni II-244 rII04'
                         giš ga<sub>2</sub>-li-nimbar
 Ni II-266 rII08'
                         giš [g]a<sub>2</sub>-li-nimbar
                                                                        Ni II-181 rII08'
                                                                                                giš ša<sub>3</sub>-ta-zu<sub>2</sub> \ lum-ri-ri-ga-[
 Ni U-22
              I05'
                         [g]a_2-1[i-
                                                                        Ni II-204 rII02'
                                                                                                giš ša<sub>3</sub>-ta-zu<sub>2</sub> \ lum-ri-ri-ga \
                                                                                                nimbar
098 3402
                                                                        Ni II-208 rIII03'
               giš an-na-nimbar
                                                                                                Γ
                                                                                                       1-ri-ri-nimbar
  Ni I-08
               III16'
                                                                        Ni II-240 rIV02'
                                                                                                giš DI-ta-su-lum!-ri-ri-ga-
                         giš [ -n]a-nimbar
  Ni II-006 rII08'
                         giš an-[
                                                                                                nimbar
  Ni II-011 rI04'
                                                                        Ni II-292 rI03'
                                                                                                giš \S[a_3]-ta-[
                         giš a[n-
 Ni II-016 rI04
                         giš an-na-nim[bar]
  Ni II-035 rIV04'
                                                                      100 3407
                         giš an-na-nimbar
                                                                                     giš nig<sub>2</sub>-ki-luh-ha-nimbar
                                                                                     III19'
  Ni II-041 rII06'
                         giš an-na-[
                                                                        Ni I-08
                                                                                                giš [ -k]i-luh-nimbar
                         giš an-na-nimbar
                                                                        Ni II-035 rIV06'
                                                                                               giš ki-lu?-ha?-nim[bar]
 Ni II-072 rII03'
 Ni II-080 rII02'
                         giš an-na-nimbar
                                                                        Ni II-041 rII09'
                                                                                                giš nig2-ki-luh-n[imbar]
  Ni II-084 I06
                         giš an-na-[
                                                                        Ni II-043 rI03'
                                                                                                giš nig,-ki-luh-[
  Ni II-085 I21
                         giš an-na-[
                                                                        Ni II-147 I04'
                                                                                                giš nig<sub>2</sub>-ki-la<sub>2</sub>-nimbar
                                                                                                giš nig<sub>2</sub>-ki-luh-ha-nimbar
 Ni II-085 rIV07
                         giš an-na-nimbar
                                                                        Ni II-177 rII06'
  Ni II-086 rII01'
                                                                        Ni II-179 rII03'
                         [gi]š an-na-[
                                                                                                giš nig2-k[i-
  Ni II-174 rIV17
                         [] an-na-nimbar
                                                                        Ni II-190 rII03'
                                                                                                giš nig<sub>2</sub>-[
  Ni II-181 rII06'
                         giš an-na-nimbar
                                                                        Ni II-196 rI02'
                                                                                                giš nig<sub>2</sub>-[
 Ni II-200 rIII08
                         giš an-na-nim[bar]
                                                                        Ni II-208 rIII04'
                                                                                                              ]-nimbar
                                                                        Ni II-240 rIV03'
  Ni II-244 rII05'
                                                                                               giš nig<sub>2</sub>-ba-ra-nimbar
                         giš an-nimbar
  Ni II-256 rII05'
                         [ ]-na-nimbar
  Ni II-266 rII09
                         giš an-na-nimbar
                                                                      101
                                                                                     giš nig<sub>2</sub>-ga<sub>2</sub>-nimbar
  Ni II-289 rI06'
                         giš an-na-nimbar
                                                                        Ni I-01
                                                                                     III01'
                                                                                              [] n[ig_2-g]a_2-[
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Ni I-08
               III20'
                                                                          Ni II-147 I07'
                          giš []-ga<sub>2</sub>-sa<sub>6</sub>-ge-nimbar
                                                                                                  giš peš-ban<sub>3</sub>-da-zi-nimbar
  Ni II-035 rIV07'
                          giš nig<sub>2</sub>-ga<sub>2</sub>-nimbar
                                                                          Ni II-175 rII06'
                                                                                                  giš [H]A-banda<sub>3</sub>-z[i]-nim[bar
  Ni II-041 rII10'
                                                                          Ni II-177 rII10'
                                                                                                  giš peš-banda<sub>3</sub>-zi
                          giš nig<sub>2</sub>-ga<sub>2</sub>-[
  Ni II-043 rI04'
                          giš nig_2-ga_2-nimbar
                                                                          Ni II-179 rII07'
                                                                                                  giš peš-banda<sub>3</sub>-zi-nimbar
  Ni II-072 rII05'
                          [gi]š [ni]g<sub>2</sub>-ki-ga<sub>2</sub>-nimbar
                                                                          Ni II-196 rI06'
                                                                                                  giš peš-[
  Ni II-080 rII06'
                          giš nig,-ka-nimbar
                                                                          Ni II-204 rII05'
                                                                                                       ]-banda<sub>3</sub>-zi \ nim[bar]
  Ni II-177 rII07'
                                                                          Ni II-208 rIII08'
                                                                                                  giš peš-banda,-nimbar
                          giš nig<sub>2</sub>-ga<sub>2</sub>-nimbar
  Ni II-179 rII04'
                                                                          Ni II-240 rIV07'
                                                                                                  giš peš-banda<sub>3</sub>-zi-nimbar
                          giš nig<sub>2</sub>-ga<sub>2</sub>-nim[bar]
  Ni II-196 rI03'
                          giš nig<sub>2</sub>-ga<sub>2</sub>-nim[bar]
  Ni II-208 rIII05'
                                  -g]a,-nimbar
                                                                        105 3411
                                                                                       giš asal,
  Ni II-240 rIV04'
                          giš nig<sub>2</sub>-ba-sum-nimbar
                                                                          Ni I-01
                                                                                        III05'
                                                                                                  giš asal,
                                                                          Ni I-08
                                                                                       III24'
                                                                                                  [ asa]l<sub>2</sub>
102 3384
                                                                          Ni II-041 rII14'
               giš peš-nimbar
                                                                                                  giš as[al<sub>2</sub>]
  Ni I-01
               III02'
                          giš peš-n[imbar
                                                                          Ni II-053 rI16'
                                                                                                         a]sal,
  Ni I-08
               III21'
                          g[iš] peš-nimbar
                                                                          Ni II-080 rII10'
                                                                                                  [ ] a[sal,]
  Ni II-041 rII11'
                                                                          Ni II-147 I08'
                          giš peš-ni[mbar]
                                                                                                  giš asal,
  Ni II-043 rI05'
                          giš peš-[
                                                                          Ni II-165 rIV04
                                                                                                  giš asal, (A-[T]U-GA[B]-
 Ni II-053 rI13'
                                 ]-peš
                                                                                                  ŠU<sub>2</sub>)
                                                                          Ni II-175 rII07'
 Ni II-080 rII07'
                          [ p]eš-nimbar
                                                                                                  giš as[al<sub>2</sub>]
  Ni II-147 I05'
                                                                          Ni II-177 rII11'
                          giš peš-nimbar
                                                                                                  giš asal<sub>2</sub>
 Ni II-165 rIV02
                                                                          Ni II-179 rII08'
                          giš peš-nimbar
                                                                                                  giš asal,
 Ni II-175 rII03'
                          giš HA-[nim]bar
                                                                          Ni II-208 rIII09'
                                                                                                  giš asal<sub>2</sub>
  Ni II-177 rII08'
                          giš peš-nimbar
                                                                          Ni II-240 rIV08'
                                                                                                  giš asal<sub>2</sub>
  Ni II-179 rII05'
                          giš peš-nimbar
                                                                          Ni III-05 01
                                                                                                  [] as [al_2]
 Ni II-190 rII04'
                                                                          Ni IV-12 rII20
                          giš pe[š-
                                                                                                  giš asal,
  Ni II-196 rI04'
                          giš peš-nim[bar]
  Ni II-204 rII03'
                                                                        106 3412
                                                                                       giš asal,-kur
                          [g]iš peš-nimbar
  Ni II-208 rIII06'
                              ]-nimbar
                                                                          Ni I-01
                                                                                       III06'
                                                                                                  giš asal<sub>2</sub>-kur
 Ni II-240 rIV05'
                          giš peš-nimbar
                                                                          Ni II-041 rII15'
                                                                                                  giš asal2-kur
                                                                          Ni II-053 rI17'
                                                                                                  [ as]al<sub>2</sub>-kur-ra
103
               giš peš-murgu-nimbar
                                                                          Ni II-165 rIV05
                                                                                                  giš asal<sub>2</sub>(A-[TU]-GAB-ŠU<sub>2</sub>)-
 Ni I-01
               III03'
                          giš peš-murgu-nimbar
                                                                          Ni II-175 rII08'
 Ni I-08
               III22'
                          [ ] peš-murgu-nimbar
                                                                                                  giš [as]al2-ku[r]
 Ni II-041 rII12'
                          giš peš-murgu-nimbar
                                                                          Ni II-177 rII12'
                                                                                                  giš asal<sub>2</sub>-k[ur?]
  Ni II-043 rI06'
                          giš peš-murgu-[
                                                                          Ni II-179 rII09'
                                                                                                  giš asal<sub>2</sub>-kur
 Ni II-053 rI14'
                                 ]-murgu
                                                                          Ni II-208 rIII10'
                                                                                                  giš asal,-ku[r]
                          Γ
 Ni II-080 rII08'
                                                                          Ni II-240 rIV09'
                          giš peš-murgu-[
                                                                                                  giš asal2-kur
  Ni II-147 I06'
                          giš peš-murgu-nimbar
                                                                          Ni III-05 02
                                                                                                  [g]iš asa[l<sub>2</sub>-
  Ni II-165 rIV03
                          giš peš-murgu-nimbar
                                                                          Ni IV-12 rII21
                                                                                                  giš asal,-kur
 Ni II-175 rII05'
                          giš HA-mu[rgu-
  Ni II-177 rII09'
                                                                        107
                          giš peš-murgu-nimbar
                                                                                        giš asal<sub>2</sub>-dug<sub>3</sub>
                                                                                       III07'
  Ni II-179 rII06'
                          giš peš-murgu-nimbar
                                                                          Ni I-01
                                                                                                  giš asal<sub>2</sub>-dug<sub>3</sub>
 Ni II-190 rII05'
                                                                          Ni II-041 rII16'
                          giš pe[š-
                                                                                                  giš asal<sub>2</sub>-dug<sub>3</sub>
 Ni II-196 rI05'
                          giš peš-[
                                                                          Ni II-053 rI18'
                                                                                                  [ as]al<sub>2</sub>-dug<sub>3</sub>
 Ni II-204 rII04'
                          [ pe]š-murgu-nimbar
                                                                          Ni II-165 rIV06
                                                                                                  giš a[sal<sub>2</sub>]-d[ug<sub>3</sub>]
  Ni II-208 rIII07'
                          [ pe]š-murgu-nimbar
                                                                          Ni II-175 rII09'
                                                                                                  giš a[sal<sub>2</sub>-du]g<sub>3</sub>
 Ni II-240 rIV06'
                          giš peš-din-nimbar
                                                                          Ni II-208 rIII11'
                                                                                                  giš asal,
                                                                          Ni II-240 rIV10'
                                                                                                  giš asal<sub>2</sub>-dug<sub>3</sub>
104
                                                                          Ni III-05 03
               giš peš-banda<sub>3</sub>-zi-nimbar
                                                                                                  giš asa[l<sub>2</sub>-
  Ni I-01
               III04'
                          giš peš-banda<sub>3</sub>-zi-nim[bar]
 Ni I-08
               III23'
                          [ ] peš-banda<sub>3</sub>-zi-nimbar
                                                                        108 3416
                                                                                       giš NE-asal<sub>2</sub>
 Ni II-041 rII13'
                          giš peš-banda<sub>3</sub>-zi-nimbar
                                                                          Ni I-01
                                                                                       III08'
                                                                                                  giš NE-asal<sub>2</sub>
  Ni II-043 rI07'
                          giš peš-banda<sub>3</sub>-[
                                                                          Ni I-05
                                                                                       I01
                                                                                                  [ N]E-a[sal<sub>2</sub>
 Ni II-053 rI15'
                                 ]-zi
                                                                          Ni II-041 rII17'
                                                                                                  giš NE-asal,
  Ni II-080 rII09'
                                                                          Ni II-053 rI19'
                          giš peš-banda<sub>3</sub>-[
                                                                                                         as]al<sub>2</sub>
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Ni II-165 rIV07
                          giš N[E-
                                                                           Ni II-278 rI08'
                                                                                                    giš ki[ši<sub>16</sub>]
  Ni II-175 rII10'
                          giš NE-asal,
                                                                           Ni II-289 rII05'
                                                                                                    [gi]š kiši<sub>16</sub>
  Ni II-208 rIII12'
                          giš NE-[1]um?
                                                                           Ni III-05 08
                                                                                                    giš kiš[i<sub>16</sub>]
  Ni II-240 rIV11'
                          giš [N]E?-asal,
                                                                           Ni IV-12 rII23
                                                                                                    giš kiši<sub>16</sub>
  Ni II-278 rI05'
                          giš NE-as[al,]
  Ni II-289 rII02'
                          giš NE-as[al,]
                                                                         113 3441
                                                                                         giš kiši<sub>16</sub>-har
  Ni III-05 04
                                                                           Ni I-01
                                                                                         III13'
                          giš NE-a[sal,]
                                                                                                    giš ad<sub>3</sub>-har
                                                                           Ni I-05
                                                                                         I06
                                                                                                    [] kiši<sub>16</sub>-har
109 3421
                giš numun-asal,
                                                                           Ni II-012 rII05'
                                                                                                    [ ] kiši<sub>16</sub>-har
  Ni I-01
               III09'
                          giš numun-asal,
                                                                           Ni II-053 rI24'
                                                                                                         ha]r?
  Ni I-05
               I02
                          [] numun-as[al<sub>2</sub>]
                                                                           Ni II-165 rIV12
                                                                                                    giš kiši<sub>16</sub>-har
  Ni II-009 rIII01
                               as]al<sub>2</sub>
                                                                           Ni II-177 rIII01'
                                                                                                    [ ] GIR<sub>2</sub> [
  Ni II-012 rII01'
                              num]un-a[sal,
                                                                           Ni II-208 rIII16'
                                                                                                    giš kiši<sub>16</sub>-har
  Ni II-041 rII18'
                          giš numun-asal,
                                                                           Ni II-239 rIV01'
                                                                                                    [ ki]ši<sub>16</sub>-har
  Ni II-053 rI20'
                                                                           Ni II-278 rI10'
                                                                                                    giš ad,-[
                                 as]al,
  Ni II-165 rIV08
                                                                           Ni II-289 rII07'
                          giš n[umun-
                                                                                                    ad,-har
  Ni II-175 rII11'
                          giš numun-asal,
                                                                           Ni III-05 09
                                                                                                    giš kiši<sub>16</sub>-[
  Ni II-240 rIV12'
                          giš [] -as[al_2]
  Ni II-278 rI06'
                                                                         114 3441a giš kiši<sub>16</sub>-har-kur
                          giš numun-a[sal<sub>2</sub>]
                                                                                         III14'
  Ni II-289 rII03'
                          giš numun-as[al<sub>2</sub>]
                                                                           Ni I-01
                                                                                                    giš ad<sub>2</sub>-har-kur
  Ni III-05 05
                                                                           Ni I-05
                                                                                         I07
                                                                                                    [g]iš kiši<sub>16</sub>-kur-r[a]
                          giš numun-a[sal<sub>2</sub>]
                                                                           Ni II-012 rII06'
                                                                                                    [ ] kiši<sub>16</sub>-har-kur
                                                                           Ni II-053 rI25'
110 3422
               giš il-ur<sub>2</sub>
                                                                                                    [
                                                                                                           ]-ra
  Ni I-01
               III10'
                          giš il-ur<sub>2</sub>
                                                                           Ni II-165 rIV13
                                                                                                    giš kiši<sub>16</sub>-[ ]-kur
  Ni I-05
               I03
                          [ ] il-[
                                                                           Ni II-177 rIII02'
                                                                                                    [ ] kiši<sub>16</sub>-[
  Ni II-009 rIII02
                                                                                                    giš kiši<sub>16</sub>-har-kur-ra
                                                                           Ni II-208 rIII17'
                          [u]r_3
  Ni II-012 rII02'
                                                                                                    [] kiši<sub>16</sub>-har-kur
                          [ ] il-ur<sub>2</sub>
                                                                           Ni II-239 rIV02'
  Ni II-175 rII12'
                           giš il-ur,
                                                                           Ni II-278 rI11'
                                                                                                    giš ad<sub>2</sub>-har-[
  Ni II-208 rIII13'
                          giš alan-nu
                                                                           Ni II-289 rII08'
                                                                                                    [] ad<sub>2</sub>-har-kur
  Ni II-278 rI07'
                                                                           Ni III-05
                                                                                        10
                           giš il-[
                                                                                                    giš kiši<sub>16</sub>-[
  Ni II-289 rII04'
                          giš il-ur<sub>2</sub>
  Ni III-05 06
                          giš i[l-
                                                                         115 3447
                                                                                         giš sa-ma-na,
  Ni IV-14 1
                                                                           Ni I-01
                                                                                         III15'
                          giš il-ur<sub>2</sub>
                                                                                                    giš sa-ma-na<sub>2</sub>
                                                                           Ni I-05
                                                                                         I08
                                                                                                    giš sa-ma-nu-um
111
                giš ad,
                                                                           Ni II-012 rII07'
                                                                                                         ]-ma-na<sub>2</sub>
                          giš ad,
  Ni I-01
               III12'
                                                                           Ni II-053 rI26'
                                                                                                           ]-na,
                                                                                                    ſ
               I04
  Ni I-05
                          [] ad<sub>2</sub>
                                                                           Ni II-165 rIV14
                                                                                                    giš sa<sub>2</sub>-[]-na<sub>2</sub>
  Ni II-009 rIII03
                                ]-GIR,
                                                                           Ni II-177 rIII03'
                                                                                                    [] sa-ma-na<sub>2</sub>
  Ni II-012 rII03'
                                                                           Ni II-239 rIV03'
                          [ ] ad<sub>2</sub>
                                                                                                    [ ]-ma-na<sub>2</sub>
  Ni II-165 rIV10
                                                                           Ni II-278 rI12'
                                                                                                    giš sa-ma-n[um<sub>2</sub>]
                          giš [a]d<sub>2</sub>
  Ni II-208 rIII14'
                                                                           Ni II-289 rII09'
                                                                                                    [] sa-ma-na<sub>2</sub>
                          giš U<sub>2</sub>.GIR<sub>2</sub>
  Ni II-278 rI09'
                          giš [ad<sub>2</sub>]
                                                                           Ni III-05 11
                                                                                                    giš sa-[
                                                                           Ni IV-12 rII24
  Ni II-289 rII06'
                          [] ad<sub>2</sub>
                                                                                                    giš sa-ma-na<sub>2</sub>
  Ni III-05 07
                          giš a[d_2]
  Ni IV-12 rII22
                                                                         116 3448
                                                                                         giš sa-ma-zum
                          giš ad,
  Ni IV-14 2
                          giš ad,
                                                                           Ni I-01
                                                                                         III16'
                                                                                                    giš sa-ma-zum
                                                                           Ni I-05
                                                                                         I09
                                                                                                    giš sa-ma-zum
112 3439
                                                                           Ni II-053 rI27'
               giš kiši<sub>16</sub>
                                                                                                           ]-zum
                                                                                                    [
  Ni I-01
               III11'
                          giš kiši<sub>16</sub>
                                                                           Ni II-165 rIV15
                                                                                                    giš sa<sub>2</sub>-ma-[zu]m
                          [] kiši<sub>16</sub>
  Ni I-05
               I05
                                                                           Ni II-177 rIII04'
                                                                                                    giš sa-ma-zum
  Ni II-009 rIII04
                                ]-GIR,
                                                                           Ni II-239 rIV04'
                                                                                                    [ s]a-ma-zu[m]
                          Γ
  Ni II-012 rII04'
                          [ ] kiši<sub>16</sub>
                                                                           Ni II-278 rI13'
                                                                                                    giš sa-ma-[
  Ni II-053 rI23'
                               G]IR,
                                                                           Ni II-289 rII10'
                                                                                                    [] sa-ma-zum
  Ni II-165 rIV11
                          giš kiši<sub>16</sub>
                                                                           Ni III-05 r01
                                                                                                    [] sa-m[a-z]um
  Ni II-208 rIII15'
                          giš kiši<sub>16</sub>
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Ni III-05 r06
117 3450 giš pe\tilde{s}_7-kal
                                                                                   giš šušin
 Ni I-01
            III17'
                      giš peš,-kal
 Ni I-05
            I10
                      giš peš,-kal
                                                             122 3238
                                                                          giš ši-iq-dum
 Ni II-053 rI28'
                           ]-kal
                                                              Ni I-01
                                                                          III22'
                                                                                   giš ši-iq-d[um
                      Ni II-122 I01
                      giš p[eš<sub>7</sub>-
                                                              Ni I-05
                                                                          I15
                                                                                   [ ]-iq-dum
 Ni II-165 rIV16
                                                                          IV03'A giš ši-iq-dum
                      giš p[eš<sub>7</sub>]-kal
                                                              Ni I-08
 Ni II-177 rIII05'
                                                              Ni II-049 rII01'
                                                                                   giš ši-i[q]-dum
                      giš peš,-kal
                                                                                   giš ši-iq-du
 Ni II-239 rIV05'
                                                              Ni II-053 rI33'
                      [ ] peš<sub>7</sub>-[
 Ni II-278 rI14'
                                                              Ni II-122 I06
                                                                                   giš ši-iq-[
                      giš peš<sub>7</sub>-[
 Ni III-05 r02
                      giš peš,-kal
                                                              Ni II-177 rIII10'
                                                                                   [ ]-iq-dum
 Ni IV-12 rII25
                                                              Ni II-274 rII03'
                      giš zu-ti-a-nu-um
                                                                                   giš ši-iq-du[m]
                                                              Ni III-01 2
                                                                                   giš ši-iq-dum
             giš ŠU.KAL
                                                              Ni III-04 I02'
118
                                                                                   giš ši-A[N-
                      giš ŠU.KAL
 Ni I-01
             III18'
                                                              Ni III-05 r07
                                                                                   giš ši-iq-dum
 Ni I-05
            I11
                      giš ŠU.KAL
                                                              Ni IV-12 rII26
                                                                                   giš ši-iq-d[um]
 Ni II-053 rI29'
                      []ŠU.KAL
 Ni II-122 I02
                      giš ŠU.[
                                                             123 3455
                                                                         giš zar-si
 Ni II-165 rIV17
                      []ŠU.KAL
                                                              Ni I-01
                                                                          III23'
                                                                                   gi[š
 Ni II-177 rIII06'
                      giš ŠU.KAL
                                                              Ni I-05
                                                                         I16
                                                                                   [ ]-si
 Ni II-208 rIII18'
                      [gi]š ŠU.KAL
                                                              Ni I-08
                                                                         IV04'A giš zar-si
                                                                                   giš zar?-[
 Ni II-239 rIV06'
                      giš ŠU.KAL
                                                              Ni II-011 rII01'
 Ni II-278 rI15'
                      giš ŠU.[
                                                              Ni II-049 rII02'
                                                                                   giš LAGABxX-si
 Ni II-289 rII11'
                      []ŠU-KAL
                                                              Ni II-122 I07
                                                                                   giš za[r-
 Ni III-05 r03
                      giš ŠU.KAL
                                                              Ni II-134 rI01'
                                                                                   giš za[r-
                                                              Ni II-177 rIII11'
                                                                                     l-si
119
             giš šu-dib-ba
                                                              Ni II-200 rIV02'
                                                                                      ]-LAGABxX?
                                                                                  ſ
             III19'
                      giš šu-dib-ba
                                                              Ni II-274 rII04'
 Ni I-01
                                                                                   giš [za]r-si
 Ni I-05
            I12
                      giš šu-dib-ba
                                                              Ni III-01 3
                                                                                   giš zar<sub>3</sub>-si
 Ni II-053 rI30'
                      [] šu-dib-ba
                                                              Ni III-04 I03'
                                                                                   giš SU[G?-
                                                              Ni III-05 r08
 Ni II-122 I03
                      giš šu-dib-[
                                                                                   giš zar-si
 Ni II-165 rIV18
                                                              Ni IV-12 rII27
                                                                                   giš za-ri<sub>3</sub>-aš-tum
                      [ š]u-dab<sub>5</sub>-e
 Ni II-177 rIII07'
                      [gi]š [š]u-dib-ba
 Ni II-239 rIV07'
                      giš šu-dib-e
                                                                          giš mu-TUM-da
                                                             124
                                                                         IV05'A giš mu-TUM-da
 Ni III-05 r04
                      giš šu-di[b-b]a
                                                              Ni I-08
                                                              Ni II-011 rII02'
                                                                                   giš mu-TUM
             giš ŠU.KAL
120
                                                              Ni II-049 rII03'
                                                                                   giš [m]u-TUM-da
                      giš ŠU.KAL
 Ni I-01
            III20'
                                                              Ni II-122 I08
                                                                                   [] m[u-
 Ni I-05
            I13
                      giš ŠU.KAL
                                                              Ni II-177 rIII12'
                                                                                   [ ]-DUMU-da
 Ni I-08
            IV01'A [g]iš ŠU.KA[L]
                                                              Ni II-200 rIV03'
                                                                                   [ ]-TUM-da
 Ni II-053 rI31'
                      giš ŠU.KAL
                                                              Ni II-274 rII05'
                                                                                   giš m[u- ]-da
 Ni II-122 I04
                      giš ŠU.[
                                                              Ni III-04 I04'
                                                                                   giš mu-TUM-[
                      [] ŠU.KAL
 Ni II-177 rIII08'
                                                              Ni III-05 r09
                                                                                   giš mu-TUM-da
 Ni II-274 rII01'
                      [gi]š Š[U.KA]L
                                                                          giš zi<sub>2</sub>-ir-dum
 Ni III-05 r05
                      giš ŠU.K[AL]
                                                             124a
                                                              Ni II-053 rI34'
                                                                                   [gi]š zi<sub>2</sub>-ir-dum
            giš šušin (MUŠ<sub>3</sub>-ERIN)
                                                              Ni II-134 rI02'
121 3466
                                                                                   giš zi-x-[
 Ni I-01
            III21'
                      giš ERIN
 Ni I-05
            I14
                      [] šušin
                                                             125 3469
                                                                         giš gi-zu<sub>2</sub>-lum-ma
 Ni I-08
            IV02'A giš šu-ERIN
                                                              Ni I-08
                                                                         IV06'A [g]iš gi-zu<sub>2</sub>-lu[m-
 Ni II-053 rI32'
                      giš šu-ERIN
                                                              Ni II-011 rII03'
                                                                                   [gi]š gi-zu<sub>2</sub>-[
 Ni II-122 I05
                      giš šu-[
                                                              Ni II-049 rII04'
                                                                                   giš gi-zu<sub>2</sub>-lum-ma
 Ni II-177 rIII09'
                      giš šu-[s]um?
                                                              Ni II-053 rI36'
                                                                                   giš gi-zu<sub>2</sub>-ma-l[um?]
 Ni II-239 rIV08'
                      [gi]š šu-ERIN
                                                              Ni II-134 rI03'
                                                                                   giš gi-e-[
 Ni II-274 rII02'
                      giš šušin
                                                              Ni II-177 rIII13'
                                                                                      -z]u<sub>2</sub>-lum-ma
                                                                                   ſ
 Ni III-01 1
                      giš šušin
                                                              Ni II-200 rIV04' [ g]i-zu<sub>2</sub>-lum-ma
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Ni III-01 4
                                                                Ni I-08
                                                                            IV11'
                                                                                     giš [
                      giš gi-zu<sub>2</sub>-lum-m[a
 Ni III-04 I05'
                                                                Ni II-011 rII08'
                      giš gi-zu<sub>2</sub>-lum-[
                                                                                     giš maš
 Ni III-05 r10
                      giš gi-zu<sub>2</sub>-lum-ma
                                                                Ni II-049 rII09'
                                                                                     giš maš
 Ni IV-12 rIII01
                      giš e-gi-zu-l[um
                                                                Ni II-053 rII01
                                                                                     [] maš
                                                                Ni II-120 I01
                                                                                     giš maš
126 3470
             giš BU-zu<sub>2</sub>-lum-ma
                                                                Ni III-04 I10'
                                                                                     giš maš
 Ni I-07
             I01'
                      [] BU-zu<sub>2</sub>-lum-ma
                                                                Ni IV-12 1
                                                                                     giš maš
 Ni I-08
             IV07'A [] BU-zu_2-l[um-
                                                                Ni IV-12 rIII06
                                                                                     giš maš
                      [gi]š BU-zu<sub>2</sub>-[
 Ni II-011 rII04'
 Ni II-049 rII05'
                      giš BU-zu<sub>2</sub>-lum-ma
                                                              131 3488
                                                                            giš maš-gurum
 Ni II-053 rI35'
                      [gi]š BU-zu<sub>2</sub>-lum-[
                                                                Ni I-08
                                                                            IV12'
                                                                                     giš maš-[
 Ni II-134 rI04'
                                                                Ni II-011 rII09'
                      giš BU-g[i-
                                                                                     giš maš-gurum
                      [] BU-zu<sub>2</sub>-lum-ma
 Ni II-200 rIV05'
                                                                Ni II-049 rII11'
                                                                                     giš maš-gurum
 Ni III-01 5
                      giš BU-zu,-l[um-
                                                                Ni II-053 rII02
                                                                                     [] maš-gurum
 Ni III-04 I06'
                      giš BU-zu,-lu[m-
                                                                Ni II-120 I02
                                                                                     giš maš-gurum
 Ni III-05 r11
                      giš BU-zu,-lum-ma
                                                                Ni II-264 I01'
                                                                                     giš maš-A[B?]
 Ni IV-12 rIII02
                                                                Ni III-04 I11'
                      giš BU-zu-lum
                                                                                     giš maš-gurum
127 3480
             giš dili-bu-um
                                                              132 3489
                                                                            giš guru<sub>5</sub>-uš
 Ni I-07
             I02'
                                                                            IV13'
                      [] dili-bu-um
                                                                Ni I-08
                                                                                     giš guru<sub>5</sub>-[
 Ni I-08
             IV08'A [ di]li-bu-[
                                                                Ni II-011 rII10'
                                                                                     giš guru<sub>5</sub>-uš
 Ni II-011 rII05'
                      [gi]š dili-bu-u[m]
                                                                Ni II-049 rII12'
                                                                                     giš guru<sub>5</sub>-uš
 Ni II-049 rII06'
                                                                Ni II-053 rII03
                      giš dili-bu-um
                                                                                     [] guru<sub>5</sub>-uš
 Ni II-053 rI37'
                      [] dili-bu-[
                                                                Ni II-120 I03
                                                                                     giš guru<sub>5</sub>-uš
 Ni II-134 rI05'
                      giš dili-bu-[
                                                                Ni II-206 rI04'
                                                                                     giš g[uru<sub>5</sub>-
 Ni II-200 rIV06'
                                                                Ni III-04 I12'
                           ]-bu-um
                                                                                     giš guru<sub>5</sub>-uš
                                                                Ni IV-12 rIII05
 Ni III-01 6
                      giš dili-bu-[
                                                                                     giš guru<sub>5</sub>-uš
 Ni III-04 I07'
                      giš dili-b[u-
 Ni III-05 r12
                      giš dili-bu-[
                                                              133
                                                                            giš sag-EZEN
 Ni IV-03 1
                                                                Ni I-08
                                                                            IV14'
                      giš dili-bu-[
                                                                                     giš sag-[
 Ni IV-12 rIII03
                                                                Ni II-011 rII11'
                      giš dili-bu-um
                                                                                     giš sag-EZ[EN]
                                                                Ni II-049 rII13'
                                                                                     giš sag-EZEN
             giš an-ta
128 3482
                                                                Ni II-053 rII04
                                                                                     [gi]š sag-EZEN
 Ni I-07
             I03'
                                                                Ni II-120 I04
                                                                                     giš sag-EZ[EN
                      [] an-ta
 Ni II-011 rII06'
                       [gi]š an-t[a]
                                                                Ni II-206 rI05'
                                                                                     giš sa[g-
                                                                Ni II-242 rI03'
 Ni II-049 rII07'
                      giš an-tag
                                                                                     giš sa[g-
 Ni II-053 rI38'
                                                                Ni II-264 I02'
                                                                                     giš sag-[
                      [ a]n-t[a]
 Ni II-134 rI06'
                       giš an-[
                                                                Ni III-01 r2'
                                                                                     giš sag-EZEN
 Ni II-196 rII01'
                      giš an-ta?
                                                                Ni III-04 I13'
                                                                                     giš sag-SI3?-EZEN
 Ni II-200 rIV07'
                      [] an-ta
                                                                Ni IV-12 2
                                                                                     giš sag-EZEN
                                                                Ni IV-12 rIII07
                                                                                     giš sag-EZEN
 Ni III-01 7
                      giš an-[
 Ni III-04 I08'
                      giš a[n-
 Ni IV-03 2
                      giš an-t[a]
                                                              134
                                                                            giš si-sag-EZEN
                                                                Ni II-011 rII12'
                                                                                     giš si-sag-EZEN
129 3483
             giš huš
                                                                Ni II-041 rIII01'
                                                                                     [ -sa]g-EZ[EN]
 Ni I-07
             I04'
                      [ hu]š
                                                                Ni II-049 rII14'
                                                                                     giš si-sag-EZEN
 Ni I-08
             IV10'
                      giš [
                                                                Ni II-053 rII05
                                                                                     giš si-sag-EZEN
 Ni II-011 rII07'
                      giš huš
                                                                Ni II-206 rI06'
                                                                                     giš si-[
                                                                Ni II-242 rI04'
 Ni II-049 rII08'
                       giš huš
                                                                                     giš si-s[ag-
 Ni II-196 rII02'
                      giš huš-x
                                                                Ni II-264 I03'
                                                                                     giš si-EZ[EN?]
 Ni II-200 rIV08'
                      [] huš
                                                                Ni III-01 r3'
                                                                                     giš si-sag-EZEN
                                                                Ni III-04 I14'
 Ni III-04 I09'
                       giš h[uš]
                                                                                     giš si-sag-EZEN
 Ni IV-12 rIII04
                      giš huš
                                                              135 3493
                                                                            giš i-ri<sub>9</sub>-na
130 3486
                                                                Ni II-011 rII13'
             giš maš
                                                                                    [ ] i-r[i<sub>9</sub>]-na
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Ni II-041 rIII02' [] i-ri<sub>9</sub>-na
                                                                     Ni II-041 rIII08' giš as<sub>4</sub>-lum
  Ni II-049 rII15'
                        giš i-ri<sub>o</sub>-na
                                                                     Ni II-043 rII02'
                                                                                           [ ]-lum
  Ni II-053 rII06
                        giš i-ri<sub>o</sub>-na
                                                                     Ni II-053 rII14
                                                                                           giš as<sub>4</sub>-um
 Ni II-242 rI05'
                                                                     Ni II-191 rII06'
                        giš i-[
                                                                                           giš as<sub>4</sub>-lum
  Ni III-04 I15'
                        giš i-ri<sub>o</sub>-na
                                                                     Ni II-231 rI04'
                                                                                           giš as<sub>4</sub>-[
                                                                     Ni II-278 rII01'
                                                                                           []a[s_4-
136 3494 giš a-ri<sub>9</sub>-na
Ni II-011 rII14' [
                        [] i-r[i_9]-na
                                                                   142a
                                                                                 giš [N]I-gu<sub>2</sub>
  Ni II-041 rIII03'
                        [] a-i-ri<sub>o</sub>-na
                                                                     Ni I-08
                                                                                 IV23'B giš [N]I?-gu,
  Ni II-049 rII16'
                        giš a-i-r[i<sub>o</sub>-n]a
  Ni II-053 rII07
                        giš a-ri<sub>9</sub>-na
                                                                                 giš SUG-da
                                                                     Ni II-041 rIII09' giš SUG-da
 Ni II-242 rI06'
                        giš a-[
  Ni III-04 I16'
                                                                     Ni II-043 rII03'
                        giš a-ri<sub>9</sub>-na
                                                                                           [] SUG-da
                                                                     Ni II-053 rII15
                                                                                           giš maš-da
137 3498 giš gilim-an-na
                                                                     Ni II-231 rI05'
                                                                                           giš maš-[
 Ni II-011 rII15'
                                                                     Ni II-278 rII02'
                        [ g]ilim \ an-n[a
                                                                                           giš SUG-d[a]
 Ni II-041 rIII04'
                        [gi]š gilim-an-na
 Ni II-049 rII17'
                        [gi]š [gi]lim-an-na
                                                                   144 4006 giš dib-dib
                                                                               IV24'B giš dub-dub
 Ni II-053 rII08
                        giš gu<sub>2</sub>-gilim-na
                                                                    Ni I-08
 Ni II-191 rII02'
                              ]-gilim-an-[
                                                                    Ni II-041 rIII10' [] dib-LAGAB
                        [
                        [] gi[lim-
 Ni II-242 rI07'
                                                                    Ni II-043 rII04'
                                                                                           [] dib-dib
                                                                                           giš dub-[
 Ni III-04 I17'
                        giš gil[im-an-[
                                                                    Ni II-231 rI06'
                                                                    Ni II-278 rII03'
                                                                                           giš dab<sub>5</sub>-da[b<sub>5</sub>]
138
              giš gilim-ezen
 Ni I-08 IV19'B giš [ b]ad<sub>3</sub>
                                                                   145
                                                                                 giš u<sub>s</sub>
 Ni II-041 rIII05' giš gilim-bad,
                                                                     Ni II-041 rIII11' [ ] x-u_5
 Ni II-053 rII09
                                                                     Ni II-043 rII05'
                        giš gilim-ba-ad
                                                                                           [] u<sub>5</sub>
  Ni II-191 rII03'
                        giš gilim-ba[d<sub>3</sub>]
                                                                     Ni II-053 rII16
                                                                                           giš []-um
 Ni III-04 I18'
                        giš gi[lim-
                                                                     Ni II-278 rII04'
                                                                                           giš u<sub>5</sub>
139 3505 giš u_3-luh
                                                                                 giš GAN-[
                                                                   145a
 Ni I-08 IV20'B giš [ ]-luh
                                                                     Ni I-08 IV25'B [] GAN
 Ni II-041 rIII06' giš u<sub>3</sub>-luh
                                                                     Ni II-231 rI07'
                                                                                           giš GAN-[
 Ni II-053 rII10
                        giš u<sub>3</sub>-luh
 Ni II-191 rII04'
                        giš u<sub>3</sub>-luh
                                                                   145b
                                                                                 giš kal-la-bi
 Ni II-231 rI02'
                                                                     Ni II-053 rII17
                        giš u<sub>3</sub>-[
                                                                                           giš ka[l]-l[a]-bi
 Ni IV-13 1
                        giš u<sub>3</sub>-luh
                                                                   145c
                                                                                 giš [ ]-bi
140 3515 giš pa
                                                                     Ni II-053 rII18
                                                                                           giš [ ]-bi
 Ni II-053 rII11
                        giš pa
 Ni IV-13 2
                                                                   145d
                        giš pa
                                                                                 giš gu<sub>7</sub>
                                                                     Ni II-053 rII19
                                                                                           giš gu<sub>7</sub>
141 3512 giš pa-kud
 Ni I-08 IV21'B giš [p]a-kud
                                                                   146
                                                                                 giš <sup>d</sup>ha-ia<sub>3</sub>
 Ni II-041 rIII07' giš pa-kud
                                                                     Ni I-08
                                                                               IV26'B [] ha-ia<sub>3</sub>
                                                                     Ni II-041 rIII12' [ ]-ha-ia,
 Ni II-043 rII01'
                        [ ]-kud
 Ni II-053 rII12
                                                                     Ni II-043 rII06' [] ha-ia<sub>3</sub>
                        giš pa-kud
 Ni II-191 rII05'
                                                                     Ni II-053 rII20
                                                                                           giš HA-AN-NI
                        giš pa-kud
 Ni II-231 rI03'
                                                                     Ni II-202 rI02'
                                                                                           giš <sup>d</sup>h[a-
                        giš pa-[
                                                                     Ni II-231 rI08'
                                                                                           giš <sup>d</sup>ha-[
141a
              giš SUG
                                                                     Ni II-261 I01
                                                                                           giš <sup>d</sup>ha-ia<sub>3</sub>
                                                                     Ni II-278 rII05'
 Ni II-053 rII13
                       giš SUG
                                                                                           giš <sup>d</sup>ha-ia<sub>3</sub>
142 4001
              giš as<sub>4</sub>-lum
                                                                   147 4021
                                                                                 giš dub-dim,
 Ni I-08
              IV22'B giš [ ]-lum
                                                                     Ni I-08
                                                                                 IV27'B [] dub-[d]im<sub>2</sub>
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Ni II-053 rII21
                       giš dub-TUG<sub>2</sub>-NI
                                                                                      amar)
 Ni II-202 rI03'
                                                                Ni II-077 rII05'
                       giš dub-d[im<sub>2</sub>]
                                                                                      giš ba-amar
 Ni II-231 rI09'
                       giš dub-[
                                                                Ni II-196 rIII07'
                                                                                     [ -am]ar?
                      giš dub-dim<sub>2</sub>
                                                                                      giš ba-amar
 Ni II-261 I02
                                                                Ni II-202 rI09'
 Ni II-278 rII06'
                       giš dub-ba
                                                                Ni II-278 rII12'
                                                                                      giš ba-amar
                                                                Ni IV-17 01
                                                                                      giš ba-amar
148 4022
             giš šumun-gi,
                                                                            giš ba-še
 Ni I-08
             IV28'B [] šumun-gi<sub>4</sub>
                                                               154
 Ni II-041 rIII14' [ ]-gi
                                                                Ni I-06
                                                                            I01'
                                                                                            ]-še
                                                                                     [
                                                                Ni II-053 rII29
 Ni II-053 rII22
                       giš šumun-gi,
                                                                                     giš ba-š[e]
 Ni II-191 rII07'
                       giš šumun-gi
                                                                Ni II-077 rII06'
                                                                                      giš ba-amar
 Ni II-196 rIII02'
                                                                Ni II-202 rI10'
                           ]-gi
                                                                                      giš ba-še
 Ni II-202 rI04'
                                                                Ni II-278 rII13'
                       giš šumun-gi<sub>4</sub>
                                                                                      giš ba-še
 Ni II-261 I03
                       giš šumun-gi,
                                                                Ni IV-17 02
                                                                                      giš ba-še
 Ni II-278 rII07'
                       giš šumun-gi,
                                                               155 4041 giš ba-šab
149 4024 giš ti-bal
                                                                Ni I-06
                                                                            I02'
                                                                                     [gi]š [b]a-šab
                                                                Ni II-053 rII30
 Ni I-08
           IV29'B []ti-bal
                                                                                      giš ba-šab
 Ni II-041 rIII15' [ -b]al
                                                                Ni II-077 rII07'
                                                                                      giš ba-ša<sub>6</sub>
                                                                                     [ ]-šab
 Ni II-053 rII23
                                                                Ni II-202 rI11'
                       giš ti-bal
 Ni II-077 rII01'
                       giš ti-bal
                                                                Ni II-278 rII14'
                                                                                      giš ba-PA-ŠE
 Ni II-196 rIII03'
                       [ -b]al?
                                                               155a
 Ni II-202 rI05'
                       giš di-bal
                                                                            giš ba-kal
 Ni II-278 rII08'
                       giš ti-bal
                                                                 Ni I-06
                                                                            I03'
                                                                                     giš ba-kal
150 4016 giš ŠID-ma
                                                               155b
                                                                            giš ba-PA
                                                                Ni II-278 rII15' giš ba-PA
 Ni I-08 IV30'B [] ŠID-ma
 Ni II-053 rII24
                       giš ŠID-ma
 Ni II-077 rII02'
                       giš ŠID-um
                                                               156 4053 giš hub<sub>2</sub>
 Ni II-191 rII08'
                       giš ŠID-ma
                                                                Ni I-06 I04'
                                                                                     giš hub<sub>2</sub>
 Ni II-202 rI06'
                      giš ŠID-ma
                                                                Ni II-053 rII31
                                                                                     giš hu[b<sub>2</sub>]
 Ni II-278 rII09'
                       giš ŠID-ma
                                                                Ni II-077 rII08'
                                                                                     [gi]š h[ub_2]
                                                                Ni II-278 rII16'
                                                                                     giš hub<sub>2</sub>
151 4029
            giš tun3
 Ni I-08
             IV31'B [] tun<sub>3</sub>
                                                               157 4054 giš na-ru<sub>2</sub>-a
 Ni II-041 rIII13' [ ]-UR
                                                                Ni I-06
                                                                            I05'
                                                                                     giš na-ru<sub>2</sub>-a
 Ni II-053 rII25
                                                                Ni II-053 rII32
                       giš tun<sub>3</sub>
                                                                                      giš na-ru<sub>2</sub>-a
 Ni II-077 rII03'
                       giš UR
                                                                Ni II-079 I04'
                                                                                     giš na-ru<sub>2</sub>-a
 Ni II-196 rIII05'
                                                                Ni II-206 rII01'
                       [] tun<sub>3</sub>
                                                                                     [ n]a-ru<sub>2</sub>-a
 Ni II-202 rI07'
                                                                Ni II-278 rII17'
                                                                                     giš na-ru<sub>2</sub>-a
                       giš t[un<sub>3</sub>]
 Ni II-278 rII10'
                       giš MA
                                                               158 4055 giš ešgiri-šu-du<sub>7</sub>
152 4036 giš ba
                                                                Ni I-06
                                                                            I06'
                                                                                     giš ešgiri-šu-du,
 Ni II-053 rII26
                       giš ba
                                                                Ni II-053 rII33
                                                                                     giš UŠ-d[a?]
                                                                Ni II-079 I05'
 Ni II-077 rII04'
                       giš ba
                                                                                     giš ešgiri-šu-du<sub>s</sub>
 Ni II-191 rII10'
                       giš ba
                                                                Ni II-206 rII02'
                                                                                     giš ešgiri-šu-du,
                                                                Ni II-278 rII18'
 Ni II-196 rIII06'
                       []ba
                                                                                     [ eš]giri-ME-šu-du<sub>7</sub>
 Ni II-202 rI08'
                       giš ba
 Ni II-278 rII11'
                                                               159
                                                                            giš nig<sub>2</sub>-na-UD
                       giš ba
                                                                Ni I-06
                                                                            I07'
                                                                                      giš nig<sub>2</sub>-na-BAD
152a 4038 giš ba-KA
                                                                Ni II-206 rII03'
                                                                                      giš nig<sub>2</sub>-na-UD
 Ni II-053 rII27
                                                                Ni II-278 rII19'
                       giš [b]a-KA
                                                                                     [ -n]a-UD
             giš ba-amar
                                                               160 4069
                                                                            giš gu-za
 Ni II-053 rII28
                      giš [ ] traces (prob. not
                                                                Ni I-05
                                                                            II06
                                                                                     giš gu-za
```

```
Ni I-06
              108'
                                                                    Ni U-09
                                                                                I09
                        giš gu-za
                                                                                           giš gu-za-giš-gigir
  Ni II-053 rII34
                        giš gu-za
  Ni II-206 rII04'
                        giš gu-za
                                                                  169 4095
                                                                                 giš gu-za-anše
                                                                                           giš gu-za-anše
  Ni II-278 rII20'
                                                                                 II15
                        [ g]u-za
                                                                    Ni I-05
  Ni IV-18 01
                        [ g]u-[
                                                                    Ni U-09
                                                                                I10
                                                                                           giš gu-za-anše
  Ni U-09
             I01
                        giš gu-za
                                                                  170 4079
                                                                                 giš gu-za-kaskal
              giš gu-za-sig,
161 4070
                                                                    Ni I-05
                                                                                 II16
                                                                                           giš gu-za-kaskal-la
  Ni I-05
              II07
                        giš gu-za-sig<sub>5</sub>
                                                                    Ni U-09
                                                                                I11
                                                                                           giš gu-za-kaskal
              I09'
  Ni I-06
                        gi[š g]u-za-sig,
  Ni II-053 rII35
                        giš gu-za-s[ig<sub>5</sub>?]
                                                                  171
                                                                                 giš gu-za-garza,
  Ni II-206 rII05'
                                                                    Ni I-05
                        giš gu-za-sig<sub>5</sub>
                                                                                 II17
                                                                                           giš gu-za-garza,
                                                                    Ni U-09
  Ni II-278 rII21'
                                                                                I12
                                                                                           [ g]u-za-[ga]rza<sub>2</sub>
                              ]-sig<sub>5</sub>
  Ni IV-18 02
                           ]-za-s[ig<sub>5</sub>]
  Ni U-09
              I02
                        giš gu-za-sig,
                                                                  172
                                                                                 giš gu-za-nam-lugal-la
                                                                    Ni I-05
                                                                                 II18
                                                                                           giš gu-za-nam-lugal
162 4071
              giš gu-za-gid,-da
                                                                    Ni II-053 rIII01
                                                                                           giš [
                                                                                                    ]-lu[gal-
 Ni I-05
                                                                    Ni II-202 rII01'
                        giš gu-za-gid2-da
                                                                                           Γ
                                                                                                 -na]m-lug[al]
 Ni I-06
              I10'
                        [ ]-za-gid<sub>2</sub>-d[a]
  Ni II-053 rII36
                                                                  173
                        giš gu-za-g[id<sub>2</sub>-d]a
                                                                                 giš gu-za-nam-en-na
 Ni P-05
              AII01'
                                                                    Ni II-053 rIII02
                                                                                         giš gu-[ ]-e[n]-n[a]
                        ſ
                                   -d]a
                        giš gu-za-gid2-da
 Ni U-09
              I03
                                                                    Ni II-202 rII02'
                                                                                          ſ
                                                                                                ]-nam-en-na
163 4072
              giš gu-za-sir<sub>3</sub>-da
                                                                  174
                                                                                 giš gu-za-nam-nin-a
 Ni I-05
              II09
                        giš gu-za-sir<sub>3</sub>-da
                                                                    Ni I-05
                                                                                 II19
                                                                                           [g]iš gu-za-n[am]-n[in-
  Ni I-06
              I11'
                        [ ]-za-sir<sub>3</sub>-da
                                                                    Ni II-053 rIII03
                                                                                           giš gu-[
                                                                                                         1-a
                        giš gu-za-[ -r]a?
                                                                    Ni II-202 rII03'
  Ni II-053 rII37
                                                                                                 -na]m-nin-a
                                                                                           ſ
  Ni P-05
              AII02'
                        giš gu-za-sir<sub>3</sub>-da
  Ni U-09
              I04
                        giš gu-za-sir<sub>3</sub>-da
                                                                  175 4094
                                                                                 giš gu-za-ša<sub>3</sub>-hul<sub>2</sub>-la-a
                                                                    Ni I-05
                                                                                 II20
                                                                                           giš gu-za-ša<sub>3</sub>-hu[l<sub>2</sub>-
                                                                    Ni II-202 rII04'
163a 4073
                                                                                           [ h]ul,-la-a
              giš gu-za-munus-e-ne
  Ni I-06
              I12'
                           ]-za-munus-e-n[e]
                                                                  176 4116
                                                                                giš gu-za-šu-SAR-e-du<sub>3</sub>-a
                                                                    Ni I-05
164
              giš gu-za-ma2-lah5
                                                                                II21
                                                                                           giš gu-za-šu-SA[R- ]-e-du<sub>3</sub>-[
  Ni I-05
                                                                    Ni II-053 rIII06
              II10
                        giš gu-za-ma,-lah,
                                                                                           giš gu-za-š[u-
 Ni I-06
              I13'
                             1-DU-[
                                                                    Ni II-202 rII05'
                                                                                                   -S]AR-e-du<sub>3</sub>-a
                        ſ
                                                                                           ſ
 Ni P-05
              AII03'
                        giš gu-za-ma<sub>2</sub>-lah<sub>5</sub>
 Ni U-09
              I05
                        giš gu-za-ma<sub>2</sub>-lah<sub>5</sub>
                                                                  177 4118
                                                                                 giš gu-za-KA-[ ]-e-du<sub>3</sub>-a
                                                                    Ni I-05
                                                                                 II22
                                                                                           giš gu-za-KA-SA[R-]-e-du<sub>3</sub>-
165 4097
              giš gu-za-giš-kin-ti
                        giš gu-za-giš-kin-ti
                                                                    Ni II-053 rIII07
 Ni I-05
              II11
                                                                                           giš gu-za-K[A?-
  Ni II-053 rII40
                        giš gu-[ -t]i
                                                                    Ni II-202 rII06'
                                                                                                   lx-e-du<sub>3</sub>-a
 Ni P-05
              AII04'
                        giš gu-za-giš-kin-ti
 Ni U-09
              I06
                        giš gu-za-giš-kin-ti
                                                                  178 4096
                                                                                 giš gu-za-ša[h-šum]-ma
                                                                    Ni I-05
                                                                                 II23
                                                                                          [ ]-za-š[ah-
166 4083
                                                                    Ni II-202 rII07'
              giš gu-za-nig<sub>2</sub>-ba
                                                                                               ]-ma?
 Ni I-05
                                                                    Ni U-06
                                                                                 I01'
                                                                                           [gi]š gu-za-ša[h-
              II12
                        giš gu-za-nig2-ba
 Ni U-09
              I07
                        giš gu-za-nig,-ba
                                                                  179 4098
                                                                                 giš gu-za-ma<sub>2</sub>-gan-na
167 4084
              giš gu-za-nig,-šu
                                                                    Ni II-202 rII08'
                                                                                          ſ
                                                                                                -n]a
 Ni I-05
              II13
                        giš gu-za-nig<sub>2</sub>-šu
                                                                    Ni U-06
                                                                                I02'
                                                                                           [gi]š gu-za-ma<sub>2</sub>-ga[n-
 Ni U-09
              I08
                        giš gu-za-nig<sub>2</sub>-šu
                                                                  180 4099
                                                                                 giš gu-za-me-luh-ha
168 4085
              giš gu-za-giš-gigir
                                                                    Ni II-202 rII09'
                                                                                                ]-ha
 Ni I-05
              II14
                        giš gu-za-giš-gigir
                                                                    Ni U-06
                                                                                I03'
                                                                                           [gi]š gu-za-me-luh-[
```

					giš
101 1100	••		Ni II-156		giš gu-za- ^{giš} [š]a ₃ -kal
181 4100		za-ma ₂ -lah ₄	Ni II-255		giš gu-za- ^{giš} [
Ni U-06	I04'	[gi]š gu-za-ma ₂ -la[h ₄	Ni II-263		giš gu-za- $giš$ a_3 -
100 4076	••		Ni U-03	I03'	giš gu-za- ^{giš} [
182 4076		za-aratta	100 4112	_:Y	giš
Ni I-08	V05'B	giš gu-za-LAM-[192 4113a		a- mes
Ni II-053		giš gu-za-L[AM-	Ni II-156 Ni II-255		giš gu-za- ^{giš} me[s!] giš gu-za- ^{giš} mes
Ni II-156	1102	giš gu-za-	Ni II-255 Ni U-03	103 104'	gis gu-za- mes [] gu-za- ^{giš} mes
		šurupak(SU.KUR.RU)	NI U-03	104	[] gu-za- mes
183 4081	giš gu-z	za-nita	193 4114	oiš 011-7	a- ^{giš} mes-ma ₂ -gan.ki
Ni I-08	V06'B	giš gu-za-nit[a]	Ni II-156		giš gu-za- ^{giš} mes \ <[giš] gu-
Ni II-053		giš gu-za-n[ita]	1111110	1110	za> ma,-gan-na
Ni II-156		giš gu-za-nita	Ni II-255	I04'	[] gu-za-giš mes-ma ₂ -[
Ni II-199		[g]iš gu-za-ni[ta]			[180 = 110 110 110 110 110 110 110 110 110
		161 - 6 - 1 - 1 - 1	194	giš gu-z	a- ^{giš} mes-me-[luh-ha]
184 4082	giš gu-z	za-munus	Ni II-255		giš gu-za- ^{giš} mes-me-[
Ni I-08	V07'B	giš gu-za-munus	Ni P-05	BI01'	[] me?-luh-[
Ni II-053		giš gu-za-[
Ni II-156	rI04'	giš gu-za-munus	195 4103	giš gu-z	a-gar ₃ -ba
Ni II-199	I03'	giš gu-za-munus	Ni II-048		[]-za-gar ₃ -[
			Ni P-05	BI02'	giš gu-za-gar ₃ -[
185	giš gu-z	za-ukkin-na			
Ni I-08	V08'B	giš gu-za-ukkin-[196 4105		a-gar3-ba-ku3-babbar-g[ar-
Ni II-053		giš gu-za-u[kkin-	Ni II-048	I02'	[g]u-za-gar ₃ -ba-ku ₃ -babb[ar
Ni II-156		giš gu-za-ukkin?-[Ni II-053		giš gu-za-[]-babbar \ [
Ni II-199	I04'	giš gu-za-ukkin-na	Ni P-05	BI04'	giš gu-za-ga[r ₃ -]-ku ₃ -
					babbar-g[ar-
186	giš gu-z		105 1105	••	
Ni I-08	V09'B	giš gu-za-lu[kur]	197 4107		a-gar ₃ -ba-zabar-[gar-ra]
Ni II-053		giš gu-za-lu[kur]		I03'	[g]u-za-gar ₃ -ba-za[bar]
Ni II-156		giš gu-za-lukur	Ni P-05	BI03'	giš gu-za-gar ₃ -[-za]bar-[
Ni II-199	103	giš gu-za-lukur-ra	198 4108	aiš au z	a-gar ₃ -ba- ^{giš} kin ₂ -[
186a 4093	กรั้ง กม-ว	za-gi[dim?]	Ni II-048		giš g[u]-za-gar ₃ -ba- ^{giš} kin ₂ -[
Ni II-053		giš gu-za-gi[dim?]	Ni II-263		giš gu-[] $\setminus kin_2$?-[
141 H 033	111117	gis gu zu giluiii.]	Ni P-05		giš gu-za-gar ₃ -[
187 4078	giš gu-7	za-ki-uš.	1411 03	Dios	gis ga za gar ₃ [
Ni I-08	V10'B		199 4123	giš BAI	D-[gu-za]
Ni II-053		giš gu-za-k[i	Ni II-048	_	giš BAD-[
Ni II-156		giš gu-za-ki-uš ₂			
Ni II-199	I06'	[]-k[i-u]š ₂	200 4126	[giš sag-	-gu-za]
188	giš gu-z	za-silim-ma	201 4124	[giš di ₅ -	gu-za]
Ni II-053		giš gu-za-si[lim-			
Ni II-156	rI08'	giš gu-za-silim-ma	202 4125	[giš i-zi-	-gu-za]
		ni*			
189 4110		za- ^{gis} taskarin	203 4121	[giš uml	bin-gu-za]
Ni II-156	rI09'	giš gu-za- ^{giš} taskarin			
100 4444	••	giš •	204 4129	giš šu ₂ -a	
190 4111	giš gu-z		Ni II-053	rivui	[s]u ₂ -a
Ni II-156		giš gu-za- ^{giš} esi	205 4120	~:× ×	, du co
Ni U-03	I02'	giš gu-za- ^{giš} [205 4130 N: H 052		
191 4113	aiš au a	za- ^{giš} ša ₃ -kal	INI II-U53	F1 V U2	$[\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
171 4113	gis gu-2	La- 5a ₃ -Kai			

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giš nu<sub>2</sub>-ša<sub>3</sub>-tuku-sik<sub>2</sub>-ga-rig<sub>2</sub>-ak
206
                  giš šu<sub>2</sub>-a-nagar
                                                                                   221 4158
  Ni II-053 rIV03 [ \S]u<sub>2</sub>-a-[n]agar
                                                                                      Ni I-08
                                                                                                     rI14'B
                                                                                                                giš nu<sub>2</sub>-[
                                                                                      Ni II-052 I02
                                                                                                                  giš nu<sub>2</sub>-ša<sub>3</sub>-tuku-sik<sub>2</sub>-ga-rig<sub>2</sub>-
                 giš šu<sub>2</sub>-a-bur-gul
207 4134
  Ni II-053 rIV04 [ ]-a-bur-gul
                                                                                   222
  Ni II-180 rI01
                              giš šu<sub>2</sub>-a-[
                                                                                                      giš nu<sub>2</sub>-ur<sub>4</sub>-ma
                                                                                      Ni I-08
                                                                                                      rI15'B giš nu_2-u[r_4-
                                                                                      Ni II-052 I03
208 4135
                  giš šu<sub>2</sub>-a-tibira
                                                                                                                  giš nu<sub>2</sub>-ur<sub>4</sub>-ma
  Ni I-08
                  rI01'B [] \S[u_2-
  Ni II-053 rIV05
                              [ ]-a-tibira
                                                                                   223 4165
                                                                                                     giš zag-an-dul<sub>3</sub>-nu<sub>2</sub>
  Ni II-180 rI02
                                                                                      Ni I-08
                                                                                                     rI16'B
                              giš šu<sub>2</sub>-a-[
                                                                                                                 giš zag-an-[
                                                                                      Ni II-052 I04
                                                                                                                  giš zag-an-dul<sub>3</sub>-nu<sub>2</sub>
209 4133
                  giš šu<sub>2</sub>-a-kaskal-la
  Ni I-05
                  III10
                              giš šu,-a-kask[al-
                                                                                   224
                                                                                                      giš bar-si-nu,
  Ni I-06
                  II02'
                              giš šu<sub>2</sub>-a-[
                                                                                      Ni I-08
                                                                                                     rI17'B giš bar-s[i-
  Ni I-08
                 rI02'B
                             [ ] šu<sub>2</sub>-a-[
                                                                                      Ni II-052 I05
                                                                                                                  giš bar-si-nu,
  Ni II-053 rIV06 [ ]-a-kaskal-la
  Ni II-180 rI03
                              giš šu<sub>2</sub>-a-kaskal-[
                                                                                   225
                                                                                                      giš BAD-[nu<sub>2</sub>]
                                                                                      Ni I-08
                                                                                                     rI18'B giš BAD-[
                                                                                      Ni II-052 I06
210 4140
                  giš šu<sub>2</sub>-a-nig<sub>2</sub>-gu-la
                                                                                                                  [BA]D-n[u_2]
  Ni I-05
                  III09
                              giš šu<sub>2</sub>-a-ni[g<sub>2</sub>-
                                                                                      Ni II-082 rI01'
                                                                                                                  giš BAD-[
  Ni I-06
                  II03'
                              giš šu<sub>2</sub>-a-[
  Ni I-08
                  rI03'B
                              [gi]š šu<sub>2</sub>-a-nig<sub>2</sub>-[
                                                                                   226 4166
                                                                                                     giš sag-[nu<sub>2</sub>]
  Ni II-053 rIV07
                              [ ]-a-nig<sub>2</sub>-gu-la
                                                                                      Ni I-08
                                                                                                     rI19'B
                                                                                                                 giš sa[g-
  Ni II-180 rI04
                              giš šu<sub>2</sub>-a-nig<sub>2</sub>-gu-[
                                                                                      Ni II-082 rI02'
                                                                                                                  giš sag-n[u_2]
                                                                                   227 4170
211 4143
                 giš gir<sub>3</sub>-gub
                                                                                                     giš di<sub>5</sub>-[nu<sub>2</sub>]
  Ni I-05
                  III11
                              giš gir<sub>3</sub>-gub
                                                                                      Ni I-08
                                                                                                     rI20'B giš di<sub>5</sub>-[
  Ni I-06
                  II04'
                              giš gi[r<sub>3</sub>-
  Ni I-08
                 rI04'B [gi]š gir<sub>3</sub>-[
  Ni II-053 rIV08 [ gi]r<sub>3</sub>-gub
                 giš gir<sub>3</sub>-gub-<sup>d</sup>lama
212 4144
  Ni I-05
                 III12
                              giš gir<sub>3</sub>-gub-<sup>d</sup>la[ma]
  Ni I-06
                  II05'
                              giš gi[r<sub>3</sub>-
  Ni I-08
                  rI05'B
                              [gi]r_3-gu[b-
213 4145
                  giš gir<sub>3</sub>-gub-zu<sub>2</sub>-am-si
  Ni I-05
                  III13
                              giš gir<sub>3</sub>-gub-zu<sub>2</sub>-a[m-
214 4146
                  giš nu<sub>2</sub>
  Ni I-05
                  III14
                              giš nu<sub>2</sub>
215 4147
                  giš nu<sub>2</sub>-AŠ-nu<sub>2</sub>
  Ni I-05
                  III15
                              giš nu<sub>2</sub>-AŠ-nu<sub>2</sub>
216 4148
                  giš nu<sub>2</sub>-ki-nu<sub>2</sub>
  Ni I-05
                  III16
                             giš nu<sub>2</sub>-ki-nu<sub>2</sub>
217 4149
                  giš nu_2-g[u_2]-z[i]-g[a]
  Ni I-05
                  III17
                              giš nu_2-g[u_2]-z[i]-g[a]
220 4157
                  giš nu<sub>2</sub>-ša<sub>3</sub>-tuku
  Ni II-052 I01
                             giš nu<sub>2</sub>-ša<sub>3</sub>-tuku
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Ni II-263 rII06' [ ] k[a- ]-zu_2-[ ]-si-ga
228 4172 giš i-[zi-nu<sub>2</sub>]
 Ni I-08
             rI21'B giš i-[
                                                               241
                                                                            giš maš-tak-da
                                                                Ni II-053 rIV40 [ ]-da
229 4173 [giš umbin-nu<sub>2</sub>]
                                                                Ni II-056 12
                                                                Ni II-056 12 giš maš-tak-da
Ni II-263 rII07' giš maš-tak-da
230 4175 giš dilim, gal
 Ni II-056 01
                                                              242 4209 giš emerah
                      [ ]-gal
 Ni II-082 rI06'
                       giš dilim,-[
                                                                Ni II-053 rIV41 [ eme]rah
                                                                Ni II-056 13
                                                                                     giš emerah
                                                                Ni II-082 rI14'
231 4174 giš dilim,
                                                                                     giš emerah
 Ni II-056 02
                       [ ] dilim<sub>2</sub>
                                                                Ni II-263 rII08'
                                                                                     giš emerah
 Ni II-082 rI07'
                       giš dilim<sub>2</sub>-[
                                                                            giš emerah-GAM-ga
232
             giš dilim,-da
                                                                Ni II-082 rI15'
                                                                                     giš emerah-GAM-ga
 Ni II-056 03
                      [ ] dilim,-da
                                                              244
                                                                            giš emerah-ti
233 4181 giš ma-al-tum
                                                                Ni II-082 rI16'
                                                                                     [gi]š emerah-ti
 Ni II-056 04
                       [gi]š ma-al-tum
                      giš ma-TUM-tum
 Ni II-082 rI09'
                                                              245 4223 giš muru<sub>5</sub>-za-nu-um
                                                                                     giš muru<sub>5</sub>-za-nu-um
                                                                Ni II-056 14
234 4188 giš banšur
                                                                Ni II-082 rI17'
                                                                                     [ ]x-za-nu-um
 Ni II-056 05
                       giš banšur
 Ni II-082 rI10'
                       giš [ban]šur
                                                              246 4225
                                                                            giš kun<sub>4</sub>
                                                                Ni II-056 15
                                                                                     giš kun,
235 4200 giš dilim<sub>2</sub>-banšur
 Ni II-056 06
                      giš dilim<sub>2</sub>-banšur
                                                              247 4226 giš kun<sub>4</sub>-bad<sub>3</sub>-da
 Ni II-236 I03'
                       giš dilim<sub>2</sub>-[
                                                                Ni II-056 16
                                                                                     giš kun<sub>4</sub>-bad<sub>3</sub>-da
                                                                            giš kun<sub>4</sub>-M[E?- ]-U-SI?
236 4203 giš umbin-banšur
                                                              248
 Ni II-056 07
                      giš umbin-banšur
                                                                Ni II-056 17
                                                                                     giš kun<sub>4</sub>-M[E?- ]-U-SI?
 Ni II-236 I04'
                      giš umbin-[
                                                              250 4231 giš u_3-[kun<sub>4</sub>]
237 4198 giš banšur-zag-gu-la
                                                                Ni II-053 rV01
                                                                                    giš u<sub>3</sub>-[
 Ni II-056 08
                      [ ] banšur-zag-gu-la
 Ni II-082 rI11'
                                                              251 4232 giš S[UH-kun<sub>4</sub>]
                       giš [ban]šur-[z]ag-[g]u-l[a
                                                                Ni II-053 rV02 giš S[UH?-
 Ni II-236 I05'
                       giš [ba]nšur-[z]ag-g[u-
238 4199 giš banšur-zag-gar-ra
                                                              252 4233 giš bu[gin (LAGABxA)]
 Ni II-056 09
                                                                Ni II-053 rV03
                      [ ban]šur-zag-gar-ra
                                                                                    giš bu[gin]
 Ni II-082 rI12'
                       giš banšur-zag-gar-[
 Ni II-236 I06'
                      giš ba[nšur-z]ag-[
                                                              253 4235
                                                                            giš bugin-tur
                                                                Ni II-053 rV04
                                                                                    [gi]š bugin-tur
239 4204 giš ka-kara<sub>4</sub>(KAD<sub>4</sub>)
 Ni II-053 rIV38 [gi]š k[a]-kara,
                                                              254 4238 giš [bugin]-ZU-bar-ra
 Ni II-056 10
                           ]-DUG
                                                               Ni II-053 rV05
                                                                                    giš [ ]-ZU-bar-ra
                      ſ
 Ni II-082 rI13'
                       giš ka-kara,
 Ni II-236 I07'
                       giš ka-k[ara<sub>4</sub>]
                                                              255 4242 giš naga<sub>3</sub>
 Ni II-263 rII05'
                                                                Ni II-053 rV06
                       giš [k]a-[ka]ra<sub>4</sub>
                                                                                     giš naga<sub>3</sub>
                                                                Ni II-219 I01'
                                                                                     [ na]ga<sub>2</sub>
240 4208 giš ka-kara<sub>4</sub>-zu<sub>2</sub>-am-si-si-ga
 Ni II-053 rIV39
                      [gi]š k[a- -z]u_2-am \ si-s[]i-
                                                              256 4243 giš naga_3-nig_2-še
                                                                Ni II-053 rV07
                                                                                    giš naga<sub>3</sub>-nig<sub>2</sub>-š[e]
 Ni II-056 11
                       giš k[a- a]m-s[i]-ga
                                                                Ni II-219 I02'
                                                                                     ſ
                                                                                            -š]e
 Ni II-236 I08'
                      giš ka-ka[ra_4] \ zu_2-am-[
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266 4263 giš ma<sub>2</sub>-gur
257 4244 giš naga<sub>3</sub>-še-giš-i<sub>3</sub>
  Ni II-053 rV08 giš naga<sub>3</sub>-š[e-
                                                                          Ni II-053 rV17
                                                                                                         g]ur
  Ni II-219 I03'
                          [ na]ga_2-še-giš-i_3
                                                                          Ni II-082 rII09'
                                                                                                  giš ma<sub>2</sub>-gur
                                                                          Ni II-098 I04'
                                                                                                  giš ma,-gur
258
               giš naga<sub>3</sub>-esir-e<sub>3</sub>-a
                                                                          Ni P-06
                                                                                       BI07'
                                                                                                  Γ
                                                                                                        ]-gur
  Ni II-053 rV09
                          giš n[aga<sub>3</sub>-
  Ni II-219 I04'
                          [g]iš naga,-esir-e,-a
                                                                        267 4273
                                                                                       giš ma,-sig-ga?
                                                                          Ni II-082 rII10' giš ma<sub>2</sub>-sig-ga?
259 4247
                                                                          Ni P-06
                                                                                       BI08'
               giš tukul-naga<sub>3</sub>-si<sub>3</sub>-gaz
                                                                                                  [ -g]a
  Ni II-053 rV10
                          giš tuk[ul-
                                         -ga]z
  Ni II-082 rII02'
                          giš tukul-naga<sub>2/3</sub> -s[i<sub>3</sub>-
                                                                                       giš ma_2-[ ] x
  Ni II-219 I05'
                                                                          Ni II-082 rII11' giš ma<sub>2</sub>-X
                          [g]iš tukul-naga<sub>2</sub>-si<sub>3</sub>-gaz
260 4248 giš gan-na
                                                                        269 4265
                                                                                       giš ma<sub>2</sub>-u<sub>5</sub>
  Ni II-053 rV11
                          giš gan-n[a]
                                                                          Ni I-08
                                                                                       rII13'B [ -m]a_2-u_5
  Ni II-082 rII03'
                                                                          Ni II-082 rII12' giš ma<sub>2</sub>-u<sub>5</sub>
                          g[iš ga]n-na?
  Ni II-171 I01
                          giš gan
  Ni P-06 BI01'
                          [ ga]n-n[a]
                                                                        270
                                                                                       giš ma<sub>2</sub>-da-la<sub>2</sub>
                                                                          Ni I-08 rII14'B [ m]a<sub>2</sub>-da-la<sub>2</sub>
               giš girah (ŠU-DIM<sub>2</sub>)
                                                                          Ni II-026 01'
261 4251
                                                                                                  giš ma<sub>2</sub>-d[a-
               rII02'C giš ŠU-[
  Ni I-08
                                                                          Ni II-053 rV22
                                                                                                  [m]a_2-da-[
                          [gi]š ŠU-DIM<sub>2</sub>
  Ni II-053 rV12
                                                                          Ni II-100 rI02'
                                                                                                  giš ma<sub>2</sub>-da-[
  Ni II-171 I02
                          giš ŠU-DIM<sub>2</sub>
  Ni P-06 BI02'
                          [ ]-DIM<sub>2</sub>
                                                                        271 4274
                                                                                       giš ma<sub>2</sub>-gur-šu-ku<sub>6</sub>
                                                                          Ni I-08 rII15'B [ m]a<sub>2</sub>-gur-šu-ku<sub>6</sub>
261a
                                                                          Ni II-026 02'
                                                                                                  giš ma<sub>2</sub>-gur-[
               [ ]-DIM<sub>2</sub>
  Ni P-06
               BI03' [ ]-DIM<sub>2</sub>
                                                                          Ni II-053 rV23
                                                                                                  [] ma<sub>2</sub>-gur-[
                                                                          Ni II-082 rII13'
                                                                                                  giš ma<sub>2</sub>-g[ur]-š[u]-ku<sub>6</sub>
262 4252 giš eme-sig
                                                                          Ni II-100 rI03'
                                                                                                  giš ma_2-[ ]-k[u_6]
  Ni I-08 rII03'C giš e[me-
  Ni II-053 rV13 [ e]me-sig
                                                                        272 4275 giš ma<sub>2</sub>-peš-peš
  Ni II-082 rII05'
                          giš eme-[
                                                                          Ni I-08 rII16'B [ m]a<sub>2</sub>-peš-peš
  Ni II-098 I01'
                          giš eme-[
                                                                          Ni II-026 03'
                                                                                                giš m[a_2- -p]eš
  Ni II-171 I03
                                                                          Ni II-032 I01'
                          giš eme-sig
                                                                                                  giš ma<sub>2</sub>-peš-peš
                                                                                              giš ma<sub>2</sub>-peš-pe[š]
  Ni P-06 BI04'
                                                                          Ni II-100 rI04'
                          [ em]e-sig
               giš mi-ri<sub>2</sub>-za
263 4254
                                                                        273
                                                                                       giš ma<sub>2</sub>-gur-šu-gi<sub>4</sub>
  Ni I-08
               rII04'C giš mi-[
                                                                          Ni I-07
                                                                                       rII01' [ ]-šu-gi
  Ni II-053 rV14 [-r]i_2-za
                                                                          Ni I-08
                                                                                       rII17'B [ m]a<sub>2</sub>-gur-šu-gi<sub>4</sub>
  Ni II-082 rII06'
                          giš mi-r[i<sub>2</sub>-
                                                                          Ni II-026 04'
                                                                                                 [m]a_2-[]-ga
                                                                          Ni II-032 I02'
  Ni II-098 I02'
                          giš mi-ri<sub>2</sub>-[
                                                                                                  giš ma_2-[ -g]i?
  Ni P-06
                                                                          Ni II-100 rI05'
               BI05'
                          []-ri_2-za
                                                                                                  giš ma<sub>2</sub>-e-gi<sub>4</sub>
  Ni U-29 rII06'
                                 ]-za
                          ſ
                                                                        273a
                                                                                       giš ma<sub>2</sub>-X-LAGAB
264 4255 giš mi-ri<sub>2</sub>-za-zag-gi-a
                                                                          Ni II-026 05'
                                                                                                 [] ma<sub>2</sub>-X-LAGAB
              rII05'C giš mi-r[i<sub>2</sub>-
  Ni I-08
  Ni II-053 rV15 [ -g]i_4-a
                                                                        274 4277
                                                                                       giš ma<sub>2</sub>-ma<sub>2</sub>-ri
                          giš mi-[ ]-[z]a-[z]ag-[g]i_4-a
  Ni II-082 rII07'
                                                                          Ni I-07
                                                                                       rII02' [ ]-ma-ri
                                                                                       rII18'B [ -m]a_2-ma_2-ri_2
  Ni U-29 rII07'
                          [ ]-za-zu<sub>2</sub>-gi<sub>4</sub>?-a
                                                                          Ni I-08
                                                                                                  [] ma_2-m[a_2]-ri_2
                                                                          Ni II-026 06'
                                                                          Ni II-032 I03'
265 4262
               giš ma<sub>2</sub>
                                                                                                  giš ma<sub>2</sub>-ri<sub>2</sub>
                                                                          Ni II-060 rI03'
  Ni II-082 rII08'
                          giš ma<sub>2</sub>
                                                                                                  giš ma_2-m[a_2-
  Ni II-098 I03'
                          giš ma<sub>2</sub>
                                                                          Ni II-082 rII16'
                                                                                                  [] ma<sub>2</sub>-ma<sub>2</sub>-ri<sub>2</sub>
  Ni P-06 BI06'
                          [] ma<sub>2</sub>
                                                                          Ni II-100 rI06'
                                                                                                  giš ma<sub>2</sub>-ma<sub>2</sub>-ri<sub>2</sub>
                                                                          Ni II-101 rI05'
                                                                                                  giš ma_2-m[a_2-
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275 4284
                 giš ma<sub>2</sub>-su-a
                                                                                   283a
                                                                                                     giš ma<sub>2</sub>-15-gur
  Ni I-08
                 rII19'B [ -m]a_2-su!-a
                                                                                      Ni II-100 rI15'
                                                                                                                  giš ma<sub>2</sub>-15-gur
  Ni II-026 07'
                              [] ma<sub>2</sub>-su-a
  Ni II-032 I04'
                                                                                   284 4359
                              giš ma,-su-a
                                                                                                     giš ma<sub>2</sub>-15-gur
  Ni II-060 rI04'
                                                                                      Ni II-053 rV42
                              giš ma,-s[u?-
                                                                                                                  giš ma_3-1[5]-g[ur]
  Ni II-100 rI07'
                                                                                      Ni II-100 rI16'
                              giš m[a<sub>2</sub>]-su-a
                                                                                                                  giš ma<sub>2</sub>-15-gur
  Ni II-101 rI06'
                                                                                     Ni II-182 rI05'
                              giš ma<sub>2</sub>-s[u-
                                                                                                                  giš ma<sub>2</sub>-15-gur
                 giš ma<sub>2</sub>-dim-dug<sub>4</sub>-ga
276 4285
                                                                                   285 4360
                                                                                                     giš ma<sub>2</sub>-10-gur
                              [m]a_2-dim-dug<sub>4</sub>-g[a]
                                                                                                                  giš ma<sub>2</sub>-10-[
  Ni II-026 08'
                                                                                      Ni II-100 rI17'
  Ni II-060 rI05
                              giš ma<sub>2</sub>-dim-[
                                                                                      Ni II-101 rI16'
                                                                                                                  giš m[a_2]-10-[
  Ni II-100 rI08'
                                                                                     Ni II-182 rI06'
                              giš ma<sub>2</sub>-dim-du[g<sub>4</sub>]-ga
                                                                                                                  giš ma<sub>2</sub>-10-gur
                              giš ma<sub>2</sub>-dim-du[g<sub>4</sub>]-ga
  Ni II-101 rI07'
  Ni U-10
                 I02'
                              giš ma,-d[im-
                                                                                   286 4361
                                                                                                     giš ma<sub>2</sub>-5-gur
                                                                                      Ni II-100 rI18'
                                                                                                                  giš ma_3-5-[
277 4287
                 giš ma,-NE
                                                                                      Ni II-101 rI17'
                                                                                                                  giš ma<sub>2</sub>-5-[
  Ni II-060 rI06'
                              giš ma<sub>2</sub>-N[E
                                                                                     Ni II-182 rI07'
                                                                                                                  giš ma<sub>2</sub>-5-gur
  Ni II-100 rI09'
                              giš ma<sub>2</sub>-NE
  Ni II-101 rI08'
                              giš ma<sub>2</sub>-NE
                                                                                   287 4264
                                                                                                     giš ma<sub>2</sub>-tur
                                                                                      Ni II-060 rII02'
                                                                                                                  giš m[a<sub>2</sub>-
278
                                                                                     Ni II-100 rI19'
                  giš ma<sub>2</sub>-du<sub>8</sub>
                                                                                                                  giš ma<sub>2</sub>-tur?
  Ni II-060 rI07'
                                                                                     Ni II-182 rI08'
                              giš ma<sub>2</sub>-[
                                                                                                                  giš ma<sub>2</sub>-tur
  Ni II-100 rI10'
                              giš ma<sub>2</sub>-du<sub>8</sub>
  Ni II-101 rI09'
                              giš ma<sub>2</sub>-du<sub>8</sub>-[
                                                                                   288 4293
                                                                                                     giš ma<sub>2</sub>-an-na
                                                                                      Ni II-060 rII03'
                                                                                                                  giš ma<sub>2</sub>-a[n-
279 4354
                                                                                     Ni II-099 I01
                 giš ma<sub>2</sub>-60-gur
                                                                                                                  [] ma<sub>2</sub>-an-na
  Ni II-053 rV37
                              [m]a_{2}-60-[
                                                                                     Ni II-100 rI20'
                                                                                                                  giš ma<sub>2</sub>-a[n
  Ni II-060 rI08'
                              giš ma<sub>2</sub>-60-[
                                                                                     Ni II-182 rI09'
                                                                                                                  giš ma2-an-na
  Ni II-100 rI11'
                              giš ma<sub>2</sub>-60-gur
  Ni II-101 rI10'
                              giš ma<sub>2</sub>-60-gur
                                                                                   289 4295
                                                                                                     giš ma<sub>2</sub>-aš-te
                                                                                      Ni II-060 rII04'
                                                                                                                  giš ma<sub>2</sub>-aš-t[e
280 4355
                 giš ma<sub>2</sub>-50-gur
                                                                                     Ni II-099 I02
                                                                                                                  giš ma<sub>2</sub>-aš-te
  Ni II-053 rV38
                                                                                     Ni II-100 rI21'
                              [] ma<sub>2</sub>-50-[
                                                                                                                  giš ma<sub>2</sub>-[
  Ni II-100 rI12'
                              giš ma<sub>2</sub>-50-gur
                                                                                     Ni II-146 rI01
                                                                                                                  giš ma<sub>2</sub>-aš-t[e]
  Ni II-101 rI11'
                              giš ma<sub>2</sub>-50-gur
  Ni II-182 rI01'
                                                                                   290 4299
                              giš ma<sub>2</sub>-5[0-
                                                                                                     giš ma<sub>2</sub>-gur<sub>8</sub>-dnin-lil<sub>2</sub>
  Ni U-08
                I01'
                                                                                      Ni II-060 rII05'
                              [] ma_2-5[0-
                                                                                                                  giš ma<sub>2</sub>-gur<sub>8</sub>-<sup>a</sup>nin-lil<sub>2</sub>
                                                                                      Ni II-099 I03
                                                                                                                  giš ma<sub>2</sub>-gur<sub>8</sub>-<sup>d</sup>nin-lil<sub>2</sub>
281 4356
                 giš ma<sub>2</sub>-40-gur
                                                                                     Ni II-101 rII01'
                                                                                                                        ]-lil<sub>2</sub>
  Ni II-053 rV39
                                                                                     Ni II-146 rI02
                              giš ma<sub>2</sub>-40-[
                                                                                                                  giš ma<sub>2</sub>-gur<sub>8</sub>- n[in-
  Ni II-100 rI13'
                                                                                                                  giš ma<sub>2</sub>-gur<sub>8</sub>-<sup>d</sup>nin-lil<sub>2</sub>-la
                              giš ma<sub>2</sub>-40-gur
                                                                                     Ni IV-16 01
  Ni II-101 rI12'
                                                                                     Ni IV-19 01
                                                                                                                  giš ma<sub>2</sub>-gur<sub>8</sub>-dnin-lil<sub>2</sub>-[
                              giš ma_2-[4]0-g[ur]
  Ni II-182 rI02'
                              giš ma<sub>2</sub>-40-gur
  Ni U-08
                I02'
                                                                                   291 4319
                              giš ma_2-40-g[ur]
                                                                                                     giš ma<sub>2</sub>-gur<sub>8</sub>-<sup>d</sup>da-mu
                                                                                      Ni II-060 rII06'
                                                                                                                  giš ma<sub>2</sub>-gur<sub>8</sub>-da-mu
                                                                                     Ni II-099 I04
282 4357
                 giš ma<sub>2</sub>-30-gur
                                                                                                                  giš ma<sub>2</sub>-gur<sub>8</sub>-<sup>d</sup>da-m[u]
  Ni II-053 rV40
                                                                                     Ni II-101 rII02'
                                                                                                                  [ ] ma<sub>2</sub>-[ d]a-mu
                              giš ma<sub>2</sub>-30-[
  Ni II-100 rI14'
                                                                                     Ni II-115 rII01'
                              giš ma<sub>2</sub>-30-gur
                                                                                                                  [
                                                                                                                           -d]a-mu
  Ni II-182 rI03'
                              giš ma<sub>2</sub>-30-gur
                                                                                     Ni II-146 rI03
                                                                                                                  giš ma<sub>2</sub>-gur<sub>8</sub>-<sup>d</sup>d[a-
  Ni U-08
                 I03'
                              giš ma<sub>2</sub>-30-[
                                                                                     Ni IV-16 02
                                                                                                                  giš ma<sub>2</sub>-gur<sub>8</sub>-da-mu
                                                                                     Ni IV-19 02
                                                                                                                  giš ma<sub>2</sub>-gur<sub>8</sub>-da-m[u]
283 4358
                 giš ma<sub>2</sub>-20-gur
  Ni II-053 rV41
                              giš ma<sub>2</sub>-20-g[ur]
                                                                                   292 4308
                                                                                                     giš ma<sub>2</sub>-kar-nun-ta-e<sub>3</sub>-a
  Ni II-182 rI04'
                                                                                      Ni II-060 rII07' giš ma_2-kar-ME-nun-ta-e_3-a
                              giš ma<sub>2</sub>-20-gur
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Ni II-099 I05
                           [m]a_2-gur<sub>8</sub>-kar-ra-[t]a-e<sub>3</sub>-a
                                                                                293 4304
                                                                                                  giš ma<sub>2</sub>-dara<sub>3</sub>-abzu
Ni II-101 rII03'
                           [m]a_2[k]ar-nu[n]-t[a-[
                                                                                   Ni II-060 rII08'
                                                                                                              giš ma<sub>2</sub>-dara<sub>3</sub>-ab[zu
Ni II-115 rII02'
                                    n]un-ta
                                                                                   Ni II-099 I06
                                                                                                               [ m]a<sub>2</sub>-dara<sub>3</sub>-abzu
                           ſ
                                                                                  Ni II-100 rII03
                                                                                                                    d]ara<sub>3</sub>-[
                                                                                  Ni II-101 rII04'
                                                                                                                  ] ma<sub>2</sub>-da[ra<sub>3</sub>]-ab[zu]
                                                                                                                         ]-abzu
                                                                                   Ni II-115 rII03'
                                                                                   Ni II-233 I01
                                                                                                                      ]-dara<sub>3</sub>-ab[zu]
                                                                                  Ni IV-21
                                                                                                  01
                                                                                                               giš ma<sub>2</sub>-dara<sub>3</sub>-abzu
                                                                                  Ni U-29
                                                                                                  rI07'
                                                                                                               giš ma<sub>2</sub>-dara<sub>3</sub>-[
                                                                                294 4312
                                                                                                  giš ma<sub>2</sub>-nu-ri
                                                                                   Ni II-060 rII09'
                                                                                                              giš ma<sub>2</sub>-nu-ri
                                                                                   Ni II-099 I07
                                                                                                               [ m]a<sub>2</sub>-nu-ri
                                                                                  Ni II-100 rII04
                                                                                                              [] ma<sub>2</sub>-nu-[
                                                                                   Ni II-101 rII05'
                                                                                                              [ ]-nu-ri
                                                                                  Ni II-233 I02
                                                                                                                      ]-nu-[
                                                                                  Ni IV-20 01
                                                                                                               giš ma,-nu-ri
                                                                                  Ni IV-21 02
                                                                                                              giš ma<sub>2</sub>-nu-ri
                                                                                                  giš ma<sub>2</sub>-nu-ri-ban<sub>3</sub>-da
                                                                                294a 4313
                                                                                   Ni IV-20 02
                                                                                                              giš ma<sub>2</sub>-nu-ri-ban<sub>3</sub>-da
                                                                                294b
                                                                                                  giš ma<sub>2</sub>-UD-nu-ri
                                                                                   Ni II-100 rII05
                                                                                                              [gi]š ma<sub>2</sub>-UD-nu-ri
                                                                                295 4297
                                                                                                  giš ma<sub>2</sub>-gur<sub>8</sub>-nu-ub<sub>2</sub>-zu
                                                                                   Ni II-060 rII10'
                                                                                                              giš m[a<sub>2</sub>-n]u-ub-zu
                                                                                  Ni II-099 I08
                                                                                                              [m]a_2-gur_8-nu-ub-zu
                                                                                  Ni II-101 rII06'
                                                                                                              [] ma<sub>2</sub>-gur<sub>8</sub>-nu-ub<sub>2</sub>-zu
                                                                                  Ni II-233 I03
                                                                                                                      ]-gur<sub>8</sub>-nu-ub<sub>2</sub>-z[u]
                                                                                                              ſ
                                                                                                  giš ma<sub>2</sub>-dilmun-na
                                                                                296 4281
                                                                                   Ni II-060 rII11'
                                                                                                              giš ma<sub>2</sub>-dilmun-na
                                                                                  Ni II-099 I09
                                                                                                              [ ] ma<sub>2</sub>-dilmun-[
                                                                                                               [gi]š ma<sub>2</sub>-dilmun-na
                                                                                  Ni II-100 rII06
                                                                                  Ni II-101 rII07'
                                                                                                               giš ma<sub>2</sub>-dilmun.ki
                                                                                  Ni II-233 I04
                                                                                                                    ]-ma<sub>2</sub>-x [
                                                                                                               giš ma2-dilmun-[
                                                                                  Ni U-29
                                                                                                  rI05'
                                                                                297 4362
                                                                                                  giš u<sub>3</sub>-ma<sub>2</sub>
                                                                                   Ni II-060 rII12'
                                                                                                              giš ma_2-u_3-[m]a_2
                                                                                  Ni II-099 I10
                                                                                                              [gi]š u<sub>4</sub>-ma<sub>2</sub>
                                                                                  Ni II-100 rII07
                                                                                                               [] u_3-ma_2
                                                                                  Ni II-101 rII08'
                                                                                                              giš u<sub>3</sub>-ma<sub>2</sub>
                                                                                  Ni II-233 I05
                                                                                                              [] u_3-m[a_2]
                                                                                298 4380
                                                                                                  giš e<sub>2</sub>-ma<sub>2</sub>
                                                                                   Ni II-060 rII13'
                                                                                                              giš e<sub>2</sub>-ma<sub>2</sub>
                                                                                  Ni II-099 I11
                                                                                                              [ ] e_2-ma<sub>2</sub>
                                                                                  Ni II-100 rII08
                                                                                                               [] e_2-ma_2
                                                                                  Ni II-101 rII09'
                                                                                                              [gi]š e<sub>2</sub>-ma<sub>2</sub>
                                                                                  Ni II-233 I06
                                                                                                               giš e_2-[
                                                                                299 4367
                                                                                                  giš si-ma<sub>2</sub>
                                                                                   Ni II-060 rII14'
                                                                                                              giš si-ma<sub>2</sub>
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Ni II-099 I12
                                                                                307 4352
                             [] si-ma<sub>2</sub>
                                                                                                  giš ma<sub>2</sub>-addir
  Ni II-100 rII09
                                                                                   Ni I-08
                                                                                                  rIII09'
                             [] e_2-ma_2
                                                                                                              [gi] [m]a_2-a[ddir?]
  Ni II-101 rII10'
                                                                                   Ni II-060 rIII04'
                                                                                                              giš ma<sub>2</sub>-[ad]dir
                             [] si-ma,
                                                                                                              giš ma2-addir
  Ni II-233 I07
                             giš si-[
                                                                                   Ni II-100 rII17
  Ni II-277 rI01
                                                                                   Ni II-182 rII05'
                             giš s[i-
                                                                                                                      -a]ddir
                                                                                                              Ni P-06
                 BII02'
                                                                                   Ni P-02
                                                                                                  BII01'
                                                                                                              giš PAD-DIRI-GI[SAL?- ]-
                             [gi] s[i]-m[a_3]
                                                                                                              m[a_3]
300 4373
                 giš anše-ma,
                                                                                   Ni P-06
                                                                                                  BII10'
                                                                                                              giš ma<sub>2</sub>-addir
  Ni II-060 rII15'
                             giš anše-ma,
  Ni II-099 I13
                             [ ] anše-ma,
                                                                                 307a
                                                                                                  giš ma,-lugal
  Ni II-100 rII10
                                                                                   Ni II-182 rII06'
                             [ an]še-ma<sub>2</sub>
                                                                                                            [ m]a<sub>2</sub>-lugal
  Ni II-101 rII11'
                             [g]iš anše-ma<sub>2</sub>
                                                                                 308 4391
  Ni II-233 I08
                             giš anše-[
                                                                                                  giš ma,-du,
  Ni II-277 rI02
                             giš anš[e-
                                                                                   Ni I-08
                                                                                                  rIII10'
                                                                                                              giš ma<sub>2</sub>-d[u<sub>3</sub>]
  Ni P-06
                 BII03'
                             [gi] [ans] [e-m[a_3]
                                                                                   Ni II-060 rIII05'
                                                                                                              giš ma,-du,
                                                                                   Ni II-100 rII18
                                                                                                              giš ma,-du,
                                                                                   Ni II-182 rII07'
301 4374
                 giš dim-ma,
                                                                                                              [m]a_2-du_3
  Ni II-060 rII16'
                             giš d[im<sub>2</sub>-
                                                                                   Ni P-02
                                                                                                  BII02'
                                                                                                              giš ma<sub>2</sub>-du<sub>3</sub>
  Ni II-099 I14
                             [] dim_2-ma_2
                                                                                   Ni P-06
                                                                                                  BII11'
                                                                                                              giš ma<sub>2</sub>-du<sub>3</sub>
  Ni II-100 rII11
                             giš dim-ma<sub>2</sub>
                             giš dim-ma<sub>2</sub>
  Ni II-101 rII12'
                                                                                 309
                                                                                                  giš bal-ma<sub>2</sub>-du<sub>3</sub>
  Ni II-233 I09
                             giš dim-[
                                                                                   Ni I-08
                                                                                                  rIII11'
                                                                                                            giš bal-ma<sub>2</sub>-du<sub>3</sub>
  Ni II-277 rI03
                                                                                   Ni II-182 rII08'
                             giš dim-[
                                                                                                              [ ]-ma_2-du_3
  Ni P-06
                BII04'
                             giš dim-ma<sub>2</sub>
                                                                                 309a
                                                                                                  giš zag-ma<sub>2</sub>-du<sub>3</sub>
302
                                                                                   Ni II-100 rII19
                 giš dib-ma<sub>2</sub>
                                                                                                              giš zag-ma<sub>2</sub>-du<sub>3</sub>
  Ni II-100 rII12
                             giš dab<sub>5</sub>-ma<sub>2</sub>
  Ni II-101 rII13'
                             [gi]š dab<sub>5</sub>-ma<sub>2</sub>
                                                                                310 4393
                                                                                                  giš gir<sub>2</sub>-ma<sub>2</sub>-du<sub>3</sub>
                                                                                   Ni II-060 rIII06' giš gir<sub>2</sub>-ma<sub>2</sub>-du<sub>3</sub>
  Ni II-233 I10
                             [gi]š dib-[
  Ni P-06
                 BII05'
                                                                                   Ni II-100 rII20
                                                                                                              giš gir<sub>2</sub>-ma<sub>2</sub>-du<sub>3</sub>
                             giš dib-ba-ma<sub>2</sub>
                                                                                   Ni II-182 rII09'
                                                                                                              ſ
                                                                                                                      ]-ma<sub>2</sub>-du<sub>3</sub>
                 giš lu<sub>2</sub>-KA-ma<sub>2</sub>
  Ni II-100 rII13
                             [gi]š lu<sub>2</sub>-KA-ma<sub>2</sub>
                                                                                310a
                                                                                                  giš peš-ma<sub>2</sub>-du<sub>3</sub>
  Ni P-06
                 BII06' giš sag-ma<sub>2</sub>
                                                                                   Ni P-02
                                                                                                  BII03' giš peš-ma<sub>2</sub>-du<sub>3</sub>
                                                                                   Ni P-06
                                                                                                  BII12'
                                                                                                              giš peš-ma<sub>2</sub>-du<sub>3</sub>
304
                 giš u<sub>5</sub>-zi-pa-ah-ma<sub>2</sub>
  Ni II-060 rIII01' [] u<sub>s</sub>-zi-pa-ah-ma<sub>2</sub>
                                                                                311 4392
                                                                                                  giš uš<sub>2</sub>-ma<sub>2</sub>-du<sub>3</sub>
  Ni II-100 rII14
                             [gi]š e<sub>2</sub>-zi-pa-ah-ma<sub>2</sub>
                                                                                   Ni I-08
                                                                                                  rIII12' giš uš<sub>2</sub>-ma<sub>2</sub>-du<sub>3</sub>
  Ni II-182 rII02'
                             [] x-zi-ah-ma<sub>2</sub>
                                                                                   Ni II-060 rIII07'
                                                                                                              giš uš<sub>2</sub>-ma<sub>2</sub>-du<sub>3</sub>
  Ni P-06
                 BII08'
                             giš u<sub>3</sub>-zi-pa-ah-ma<sub>2</sub>
                                                                                   Ni II-100 rII21
                                                                                                              giš uš<sub>2</sub>-ma<sub>2</sub>-du<sub>3</sub>
                                                                                   Ni P-02
                                                                                                  BII04'
                                                                                                              giš uš<sub>2</sub>-ma<sub>2</sub>-du<sub>3</sub>
305 4376
                giš egir-ma,
  Ni II-060 rIII02'
                                                                                312 4388
                                                                                                  giš durgul (MA<sub>2</sub>-DU<sub>3</sub>)
                             giš egir-ma<sub>2</sub>
  Ni II-100 rII15
                             giš egir-ma<sub>2</sub>
                                                                                   Ni I-08
                                                                                                  rIII13'
                                                                                                             [gi]š durgul-[
  Ni II-101 rII14'
                                                                                   Ni II-060 rIII08'
                             [ eg]ir-ma<sub>2</sub>
                                                                                                              giš durgul
                                                                                   Ni II-100 rII22
  Ni II-182 rII03'
                             [ e]gir-ma<sub>2</sub>
                                                                                                                   d]urgul
                                                                                                              Ni P-06
                 BII07'
                                                                                   Ni P-02
                                                                                                  BII05'
                             giš egir-ma<sub>2</sub>
                                                                                                              giš durgul
306
                                                                                313 4389
                                                                                                  giš an-ta-durgul
                 giš peš-eš<sub>3</sub>-ma<sub>2</sub>
  Ni II-060 rIII03'
                             giš peš-eš,-ma,
                                                                                   Ni II-060 rIII09'
                                                                                                              giš an-ta-durgul
  Ni II-100 rII16
                             giš peš-eš<sub>2</sub>-ma<sub>2</sub>
                                                                                   Ni II-100 rII23
                                                                                                              [ dur]gul
  Ni II-101 rII15'
                                                                                   Ni II-146 rII01
                                                                                                              giš an-ta-durgul
                             pe]š?-ma<sub>2</sub>
  Ni II-182 rII04'
                             [ pe]\S-e\S_2-ma_2
                                                                                   Ni P-02
                                                                                                  BII06'
                                                                                                              giš ma<sub>2</sub>-durgul
  Ni P-06
                BII09'
                             giš peš-u<sub>5</sub>-ma<sub>2</sub>
                                                                                314 4417
                                                                                                  giš zi-gan
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Ni II-060 rIII10' giš [z]i-gan
                                                                  324 4430 giš gag-šibir
  Ni II-146 rII02
                                                                    Ni I-08
                                                                                rIV02D giš gag-[
                        giš zi-gan
  Ni P-02
              BII07'
                                                                    Ni II-060 rIII17' [ šibi]r
                        giš zi-gan
 Ni U-29
              rII02'
                        [] zi-gan
                                                                    Ni II-114 rII03
                                                                                           giš NI-šibir
                                                                    Ni II-195 I06'
                                                                                           [] gag-šibir
315 4419
                                                                    Ni II-207 I06
              giš dilim<sub>2</sub>-zi-gan
                                                                                           [
                                                                                               -šibi]r
                       giš dilim<sub>2</sub>-zi-gan
  Ni II-060 rIII11'
                                                                    Ni U-29
                                                                                rII14'
                                                                                           [ ga]g-ši[bir]
  Ni II-146 rII03
                        giš dilim<sub>2</sub>-zi-gan
  Ni P-02
              BII08'
                             -z]i-[
                                                                  325 7b146 giš kab-bar
                        rIV03D giš kab-bar
 Ni U-29
              rII03'
                              ]-zi-gan
                                                                    Ni I-08
                                                                    Ni II-060 rIV01' [
                                                                                              ]-bar
                                                                    Ni II-114 rII04
                                                                                           [ ka]b-bar
316 4420
             giš sig-zi-gan
                                                                    Ni II-146 rII12
  Ni II-060 rIII12' giš s[ig-z]i-gan
                                                                                           giš k[ab-
                        giš UMBIN-zi-gan
  Ni II-146 rII04
                                                                    Ni II-187 rII02'
                                                                                           giš kab-b[ar]
 Ni U-29
             rII04'
                        [] UMBIN-zi-gan
                                                                    Ni II-195 I07'
                                                                                           [] kab-bar
                                                                    Ni II-277 rII01
                                                                                           giš ka[b-b]ar
317 4025
              giš an-ti-bal
 Ni II-060 rIII13'
                        giš ti-bal
                                                                  326 5006 giš gigir
                                                                    Ni II-060 rIV02' [
 Ni II-146 rII05
                        [] an-ti-b[al]
                                                                                                 gi]gir
 Ni II-207 I01
                        giš an-ti-bal
                                                                    Ni II-081 rII01'
                                                                                           g[iš ]-gigir
                                                                    Ni II-082 I01
                                                                                           [ ] gigir
              giš zi-in-hur
318
                                                                    Ni II-095 rI01
                                                                                           [] gigir
  Ni II-060 rIII14'
                        giš zi-in-hur
                                                                    Ni II-114 rII05
                                                                                           [ g]igir
  Ni II-146 rII06
                        [g]iš zi-in-[
                                                                    Ni II-146 rII13
                                                                                           giš gi[gir]
 Ni II-207 I02
                        giš zi-in-hur
                                                                    Ni II-175 I01
                                                                                           giš g[igir] :: giš [
                                                                    Ni II-187 rII03'
                                                                                           giš gigir
              giš kak
                                                                    Ni II-195 I08'
319 4421
                                                                                           [] gigir
  Ni II-060 rIII15'
                        giš gag
                                                                    Ni II-277 rII02
                                                                                           giš gigir
 Ni II-195 I01'
                        [] gag
 Ni II-207 I03
                                                                  327 5015 giš e<sub>2</sub>-gigir
                        giš gag
                                                                                rIV05D giš e<sub>2</sub>-[
 Ni U-29 rII08'
                                                                    Ni I-08
                        [] gag
                                                                    Ni II-060 rIV03' [ ]-e<sub>2</sub>-gigir
             giš ir
320 4422
                                                                    Ni II-081 rII02'
                                                                                          giš e<sub>2</sub>-gigir
 Ni II-060 rIII16'
                                                                    Ni II-082 I02
                        giš ir
                                                                                           giš e<sub>2</sub>-gigir
 Ni II-195 I02'
                                                                    Ni II-095 rI02
                                                                                           [] e<sub>2</sub>-gigir
                        [gi]š ir
 Ni II-207 I04
                                                                    Ni II-146 rII14
                        ſgi]š ir
                                                                                           giš e<sub>2</sub>-gigir
 Ni U-29
             rII09'
                                                                    Ni II-175 I02
                        [ ] ir
                                                                                           giš e_2-g[igir] :: giš e_2-[
                                                                    Ni II-187 rII04'
                                                                                           [gi]š e<sub>2</sub>-gigir
321 4428
              giš ENxKAR,
                                                                    Ni II-195 I09'
                                                                                           [gi]š e<sub>2</sub>-gigir
 Ni II-195 I03'
                        [gi]š ENxKAR<sub>2</sub>
                                                                    Ni II-277 rII03
                                                                                           giš e<sub>2</sub>-gi[gir]
 Ni U-29 rII11'
                        [] ENxKAR<sub>2</sub>
                                                                  328 5016
                                                                                giš e<sub>2</sub>-usan<sub>3</sub>-gigir
322 4428a giš gag-ENxKAR<sub>2</sub>
                                                                    Ni I-08
                                                                                rIV06D giš e<sub>2</sub>-us[an<sub>3</sub>-
                                                                    Ni II-060 rIV04' [ ]-e<sub>2</sub>-usan<sub>3</sub>-gigir
 Ni II-114 rII01
                        giš NI-ENxKAR<sub>2</sub>
 Ni II-187 rII01'
                                                                    Ni II-081 rII03
                        [gi]š g[ag]-EN[xKAR<sub>2</sub>]
                                                                                          giš e<sub>2</sub>-usan<sub>3</sub>-gigir
 Ni II-195 I04'
                        [gi]š gag-ENxKAR,
                                                                    Ni II-082 I03
                                                                                          giš e<sub>2</sub>-usan<sub>3</sub>-gigir
 Ni U-29 rII12'
                                                                    Ni II-095 rI03
                        [ ga]g-ENxKAR<sub>2</sub>
                                                                                          [] e<sub>2</sub>-usan<sub>3</sub>-gigir
                                                                    Ni II-146 rII15
                                                                                           giš e<sub>2</sub>-usan<sub>3</sub>-gigir
323 4429
              giš šibir
                                                                    Ni II-175 I03
                                                                                           giš usan<sub>3</sub>-gi[gir]:: giš usan<sub>3</sub>-[
 Ni II-114 rII02
                        giš šibir
                                                                    Ni II-187 rII05'
                                                                                           [ ] e<sub>2</sub>-usan<sub>3</sub>-gigir
 Ni II-195 I05'
                        [gi]š šibir
                                                                    Ni II-195 I10'
                                                                                           [] e<sub>2</sub>-usan<sub>3</sub>-gigir
 Ni II-207 I05
                        [] šibir
 Ni II-241 rI01'
                        [g]iš š[ibir]
                                                                  329
                                                                                 giš SUM-KI-A-gigir
 Ni U-29
             rII13'
                        [] šibir
                                                                                rIV07D giš SUM-KI-A-[
                                                                    Ni II-060 rIV05' [ SU]M-KI-A-gigir
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Ni II-081 rII04'
                                                                 Ni II-060 rIV09'
                       giš KI-A-gigir
                                                                                      [gi]š su-lum-PA-gigir
 Ni II-082 I04
                                                                 Ni II-082 I08
                       giš SUM-KI-A-gigir
                                                                                      giš su-lum-mar-[
 Ni II-095 rI04
                       giš [SU]M?-KI-[ -gi]gir
                                                                 Ni II-095 rI09
                                                                                      [] su-mar-lu[m]-gigir
 Ni II-146 rII1'
                       giš KI-A-gigir
                                                                 Ni II-146 rII21
                                                                                      [] su-lum-mar-gigir
 Ni II-175 I04
                       giš SUM-KI-A-gigir :: giš
                                                                 Ni II-153 rII04'
                                                                                      giš su-lu-mar-gigir
                       SU[M-
                                                                 Ni II-175
                                                                            I08
                                                                                      giš su-mar-[
 Ni II-195 I11'
                       [ SU]M-KI-A-gigir
                                                                 Ni P-04
                                                                             BI05'
                                                                                      giš [ -m]ar-g[igir]
                                                               335 5052
330 5042
             giš kun-gigir
                                                                            giš sag-kul-gigir
 Ni I-08
             rIV08D giš ku[n-
                                                                 Ni I-01
                                                                            rI03'
                                                                                      giš KA-[
                                                                 Ni II-060 rIV10'
 Ni II-081 rII05'
                       giš [k]un-gigir
                                                                                      giš sag-kul-gigir
 Ni II-082 I05
                                                                 Ni II-082 I09
                       giš kun-gigir
                                                                                      giš sag-BAL-gigir
 Ni II-095 rI05
                                                                 Ni II-095 rI10
                       giš GIR<sub>2</sub>-gigir
                                                                                      giš [
 Ni II-146 rII17
                       giš ku[n]-gigir
                                                                 Ni II-146 rII22
                                                                                      [] sag-kul-gigir
 Ni II-153 rII01'
                       g[iš] k[un?-
                                                                 Ni II-153 rII06'
                                                                                      giš sag-kul-gigir
                                                                 Ni II-175 I09
 Ni II-175 I05
                       giš kun-gigir
                                                                                      giš sag-ku[l-
                                                                 Ni P-04
                                                                            BI06'
 Ni II-195 I12'
                       [ ku]n-gigir
                                                                                      giš sag-kul-[
 Ni P-04
             BI03'
                       giš kun-gi[gir]
                                                               336 5040
                                                                            giš sag-dur<sub>2</sub>-gigir
331 5056
                                                                 Ni I-01
             giš GUL-gigir
                                                                            rI03'
                                                                                      giš KA-[
 Ni I-01
             rI04'
                                                                 Ni I-08
                                                                            rIV14'
                       giš G[UL-
                                                                                      giš sag-du[r<sub>2</sub>]-g[igir]
 Ni II-060 rIV06'
                       giš GUL-gigir
                                                                 Ni II-060 rIV11'
                                                                                      [ s]ag-dur<sub>2</sub>-gigir
 Ni II-081 rII06'
                                                                 Ni II-082 I10
                       [ G]UL-gigir
                                                                                      giš sag-dur<sub>2</sub>-gigir
 Ni II-082 I11
                       giš GUL-gi[gir]
                                                                 Ni II-095 rI11
                                                                                      giš x [] dur<sub>2</sub>-gigir
 Ni II-095 rI06
                       [gi]š GUL-gigir
                                                                 Ni II-153 rII05'
                                                                                      giš sag-LAGAB-gigir
 Ni II-146 rII18
                                                                 Ni P-04
                                                                            BI07'
                       [gi]š GUL-gigir
                                                                                      giš sag-dur<sub>2</sub>-[
                                                                             giš gir<sub>3</sub>-gub-gigir
331a
              giš ŠIBIR-en-DU-[
                                                               337 5034
 Ni P-04
             BI01'
                       giš ŠIBIR-en-DU-[
                                                                 Ni I-01
                                                                             rI05'
                                                                                      giš gi[r<sub>3</sub>
                                                                 Ni I-08
                                                                            rIV15'
                                                                                      giš gir<sub>3</sub>-gub-gigir
                                                                 Ni II-060 rIV12'
332 5023
             giš sahar-gi-gigir
                                                                                      [ g]ir<sub>3</sub>-gub-gigir
 Ni I-02
             I04'
                           g]i<sub>4</sub>-gigir
                                                                 Ni II-082 I12
                                                                                      giš g[ir<sub>3</sub>-
                       ſ
 Ni II-060 rIV07'
                                                                 Ni II-095 rI12
                       [gi]š sahar-gi-gigir
                                                                                      giš gi[r<sub>3</sub>-gu]b-gigir
 Ni II-081 rII07'
                                                                 Ni II-153 rII07'
                       [
                            -g]i-gi[gir]
                                                                                      giš gir<sub>3</sub>-gub-gigir
 Ni II-082 I06
                       giš sahar-g[i<sub>4</sub>]-gigir
 Ni II-095 rI07
                                                               338 5045
                       [gi]š sahar-gi-gigir
                                                                             giš mud-gigir
 Ni II-146 rII19
                                                                 Ni I-01
                                                                             rI06'
                       [] sahar-gi-gigir
                                                                                      giš mud-[
 Ni II-153 rII02'
                       giš sahar-gi<sub>4</sub>-[
                                                                 Ni I-02
                                                                            I08'
                                                                                      [ ]-mud-gigir
 Ni II-175 I06
                                                                 Ni I-08
                                                                            rIV16'
                       giš sahar-gi₄-gigir
                                                                                      giš mu[d]-gi[gir]
                                                                                      [ m]ud-gig[ir]
 Ni II-195 I13'
                                                                 Ni II-005 I01'
                             -g]i-gigir
 Ni P-04
             BI02'
                                                                 Ni II-060 rIV13'
                       giš sahar-gi-gi[gir]
                                                                                      [ mu]d-gigir
                                                                 Ni II-095 rI13
                                                                                      giš mu[d
333 5047
                                                                 Ni II-146 rIII03
             giš su-din-gigir
                                                                                      [ m]ud-gigir
 Ni I-01
             rI01'
                       [g]iš s[u-
                                                                 Ni II-153 rII08'
                                                                                      [gi]š mud-gigir
             I10'
                                                                 Ni II-241 rI10'
 Ni I-02
                       [ ] su-din-gigir
                                                                                      giš mud-[
 Ni II-060 rIV08'
                       [gi]š su-din-gigir
 Ni II-082 I07
                       giš su-din-gi[gir]
                                                               339
                                                                             giš gag-mud-gigir
 Ni II-095 rI08
                       [gi]š su-din-gigir
                                                                 Ni I-01
                                                                            rI07'
                                                                                      giš gag-mud-[
                                                                            rIV17'
 Ni II-146 rII20
                       [] su-din-gigir
                                                                 Ni I-08
                                                                                      giš gag-mud-gi[gir]
 Ni II-153
             rII03
                                                                 Ni II-005 I02'
                       giš su-din-gi[gir]
                                                                                      giš gag-mud-gigir
 Ni II-175 I07
                                                                 Ni II-095 rI14
                                                                                      gi[š ] mu[d-
                       giš su-din-gigir
 Ni P-04
             BI04'
                                                                 Ni II-146 rIII04
                       giš su-din-gi[gir]
                                                                                      [ ]-mud-gigir
                                                                 Ni II-153 rII09'
                                                                                      [] gag-mud-gigir
334
             giš su-lum-mar-gigir
                                                                 Ni II-241 rI11'
                                                                                      giš gag-m[ud-
 Ni I-01
             rI02'
                       giš su-l[um
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340 5049
                                                                        Ni I-08
                                                                                     rIV25'
               giš šudul-gigir
                                                                                                giš [us]an<sub>3</sub>
  Ni I-01
                         giš šu[dul-
                                                                        Ni II-081 rIII01'
               rI10'
                                                                                                [] usan<sub>3</sub>
  Ni I-02
               I12'
                         [ ] šudul-gigir
                                                                        Ni II-095 rII01
                                                                                                giš u[san<sub>3</sub>]
 Ni I-08
               rIV18'
                         giš šudul<sub>4</sub>-gi[gir]
                                                                        Ni II-146 rIII12
                                                                                                [] usan<sub>3</sub>
  Ni II-005 I05'
                                                                        Ni II-241 rI17'
                         giš šudul<sub>4</sub>-gigir
                                                                                                giš u[san<sub>3</sub>]
  Ni II-095 rI15
                          gi[š ni]r?-gigir
  Ni II-146 rIII05
                                                                      348
                         [ šu]dul-gi[gir]
                                                                                     giš usan<sub>3</sub>
                                                                        Ni II-146 rIII13
                                                                                                [] usan,
341 5050
               giš gag-šudul-gigir
                                                                        Ni II-241 rI18'
                                                                                                giš u[san<sub>3</sub>]
                         giš gag-[
  Ni I-01
               rI11'
  Ni I-08
               rIV19'
                                                                      349
                         giš gag-šudul<sub>4</sub>-[
                                                                                     giš eme-usan,
  Ni II-005 I06'
                                                                        Ni II-146 rIII14
                         giš gag-šudul<sub>4</sub>-gi[gir]
                                                                                                [] eme-usan<sub>3</sub>
  Ni II-095 rI16
                                                                        Ni II-241 rI19'
                          giš gag-nir-gigir
                                                                                                giš eme?-u[san<sub>3</sub>]
  Ni II-146
              rIII06
                         [] gag-šudul-[
                                                                        Ni II-262 rII01'
                                                                                                [ em]e-[
                                                                        Ni P-06
                                                                                     BIII03' giš [em]e-us[an<sub>3</sub>]
342 5054
               giš umbin-gigir
  Ni I-01
               rI08'
                         giš umbin-[
                                                                      350
                                                                                     giš ama-usan,
 Ni I-08
               rIV20'
                         giš umbin-[
                                                                        Ni I-08
                                                                                     rIV26'
                                                                                                giš [ us]an<sub>3</sub>
 Ni II-005 I03'
                                                                        Ni II-081 rIII02'
                         giš umbin-gigir
                                                                                                giš ama-usan<sub>3</sub>
  Ni II-095 rI17
                         giš umbin-gigir
                                                                        Ni II-095 rII02
                                                                                                giš ama-[u]san<sub>3</sub>
 Ni II-146 rIII07
                                                                        Ni II-146 rIII15
                         [ um]bin-gigir
                                                                                                [] ama-usan<sub>3</sub>
 Ni II-241 rI12'
                         giš umbin-gi[gir]
                                                                        Ni II-241 rI20'
                                                                                                giš ama-[
 Ni P-04
               BI15'
                                                                        Ni II-262 rII02'
                         [ umb]in-[
                                                                                                giš ama-u[san<sub>3</sub>]
                                                                        Ni P-06
                                                                                     BIII04'
                                                                                               giš ama-us[an<sub>3</sub>]
343 5055
               giš gag-umbin-gigir
 Ni I-01
               rI09'
                                                                      351 5059
                         giš gag-um[bin
                                                                                     giš gag-sal<sub>4</sub>
  Ni I-08
               rIV21'
                                                                        Ni II-081 rIII03'
                         giš gag-umbin-[
                                                                                                giš gag-sal<sub>4</sub>
  Ni II-005 I04'
                         giš gag-umbin-gigir
                                                                        Ni II-095 rII03
                                                                                                giš gag-sal<sub>4</sub>
 Ni II-095 rI18
                         giš gag-umbin-gigir
                                                                        Ni II-146 rIII16
                                                                                                [] gag-sal<sub>4</sub>
                                                                        Ni II-262 rII03'
 Ni II-146 rIII08
                                    um]bin-gigir
                                                                                                giš gag-sa[l<sub>4</sub>]
  Ni II-241 rI13'
                                                                        Ni II-277 rIII01
                         giš gag-umbin-gi[gir]
                                                                                                [] gag-sa[l_4]
 Ni P-04
               BI16'
                         [] gag-umbin-[
                                                                        Ni P-06
                                                                                     BIII05' giš gag-sa[l<sub>4</sub>]
344 5025
               giš si-gigir
                                                                      352
                                                                                     giš za-ra-gag-sal<sub>4</sub>
  Ni I-01
                                                                        Ni II-095 rII04
               rI12'
                         giš s[i?-
                                                                                                giš [z]a-[r]a-ga[g-
 Ni I-08
               rIV22'
                         giš si-AŠ<sub>2</sub>-[
                                                                        Ni II-146 rIII17
                                                                                                [] za-ra-gag-sal<sub>4</sub>
 Ni II-005 I07'
                                                                        Ni II-262 rII04'
                         giš GUR-[
                                                                                                giš za-gag-sa[l<sub>4</sub>]
                                                                        Ni II-277 rIII02
 Ni II-095 rI19
                         giš s[i-
                                                                                                [] za-ra-gag-sal<sub>4</sub>
  Ni II-146 rIII09
                                                                        Ni P-06
                                                                                     BIII07' giš za-[
                         [ ] si-[
 Ni II-241 rI14'
                         giš si-gigir
                                                                      353
                                                                                     giš umbin-gag-sal<sub>4</sub>
345
               giš gaba-gigir
                                                                        Ni II-095 rII05
                                                                                                giš [u]mbin-ga[g-
  Ni I-02
               I05'
                                                                        Ni II-146 rIII18
                         [ g]ab-šu<sub>2</sub>-gigir
                                                                                                         ]-sal<sub>4</sub>
 Ni I-08
               rIV23'
                         giš x-gaba-[
                                                                        Ni II-262 rII05'
                                                                                                giš umbin-gag-sal<sub>4</sub>
 Ni II-005 I08'
                                                                        Ni II-277 rIII03
                         [gi]š gaba-[
                                                                                                giš umbin-gag-sal,
                                                                                     BIII08' giš umbin-[
  Ni II-146 rIII10
                                                                        Ni P-06
                         [] gaba-gigir
 Ni II-241 rI15'
                         giš gaba-gigir
                                                                      354
                                                                                     giš šid-du<sub>3</sub>-gar
346 5021
                                                                        Ni II-095 rII06
               giš gaba-gal<sub>2</sub>-gigir
                                                                                                giš šid-du<sub>3</sub>-[
  Ni I-08
               rIV24'
                                                                        Ni II-241 rII01'
                         giš ga[ba- -gig]ir
                                                                                                [g]iš ši[d-d]u<sub>3</sub>-gar
 Ni II-005 I09'
                                                                        Ni II-262 rII06'
                                                                                                giš šid-d[u<sub>10</sub>]-r[a?]
                         [ ] gaba-gal<sub>2</sub>-[
 Ni II-146 rIII11
                                                                        Ni II-277 rIII04
                         [] gaba-gal<sub>2</sub>-gigir
                                                                                                gi[š š]id-du<sub>10</sub>-gar-ra
 Ni II-241 rI16'
                          giš gaba-gal<sub>2</sub>-gigir
                                                                        Ni P-02
                                                                                     CI01'
                                                                                                [ ] š[id-
                                                                        Ni P-04
                                                                                     BI18'
                                                                                                [] šid-d[u_3?-[
347
                                                                        Ni P-06
                                                                                     BIII09' giš šid-du_{10}-[
               giš usan<sub>3</sub>
```

			363 5085		gub-mar-gid ₂ -da	
355 5068	giš šid-c		Ni I-05	rI09'	giš gir ₃ -gub-mar-gi[d ₂ -	
Ni I-05	rI02'	giš šid-[Ni I-12	I04'	giš gir ₃ -gub-mar-gid ₂ -d[a]	
Ni II-095	rII07	giš ši[d]-du ₃ -bar-[Ni II-241	rII09'	giš gi[r ₃]-gub-mar-gid ₂ -da	
Ni II-241	rII02'	giš šid-du ₃ -bar				
Ni II-262	rII07'	giš šid-d[u ₁₀]-bar	364	giš mud	-mar-gid₂-da	
Ni II-277	rIII05	gi[š š]id-du ₁₀ -bar-ra	Ni I-05	rI10'	giš mud-mar-g[id ₂ -	
Ni P-02	CI02'	[] šid-[Ni I-12	I05'	giš mud-mar-gid ₂ -d[a]	
Ni P-06	BIII10'	giš šid-du ₁₀ -[Ni II-095	rII16	giš mud-mar-gid ₂ -da	
		10 -	Ni II-221	rI01	giš mu[d-	
356 5070	giš šid-c	lu ₂ -a-ša ₂	Ni II-241	rII10'	giš mud-mar-gid ₂ -da	
Ni I-05	rI03'	giš šid-d[u ₁₀ -				
Ni II-095		giš šid-du ₃ -a-ša ₃	365	giš gag-	mud-mar-gid ₂ -da	
Ni II-241		giš šid-du ₃ -a-ša ₃	Ni I-05	rI11'	giš gag-mu[d-	
Ni II-277		giš ši $[d-d]u_{10}$ - $[-š]a_3$ -ga	Ni I-12	I06'	giš gag-mud-mar-gid ₂ -d[a]	
Ni P-02	CI03'	[gi]š ši[d-	Ni II-095		[]-mud-mar-gid ₂ -da	
Ni P-06	BIII11'	giš šid-du ₁₀ -[Ni II-221		giš gag-m[ud-	
1111 00	DIIIII		Ni II-241		[gi]š gag-HU-mar-gid ₂ -da	
357 5073	giš mar-	aid da	11111-2-1	11111	[gr]3 gag-110-mar-giu ₂ -ua	
Ni I-05	rI04'	giš mar-gi[d ₂ -	366	aič čudu	ıl ₄ -mar-gid ₂ -da	
Ni II-095		giš mar-gid ₂ -d[a]	Ni I-05	rI12'	giš š[udul ₄]-mar-g[id ₂ -	
Ni II-093 Ni II-241			Ni I-03 Ni I-12	I07'		
		giš mar-gid ₂ -da	Ni II-12 Ni II-230		giš UR <i>šeššig</i> -mar-gid ₂ -d[a	
Ni II-277		giš mar-gid ₂ -da			giš šudul ₄ -[
Ni P-06	BIII12'	giš mar-gid ₂ -[Ni II-241	rii12	[] UR-mar-gid ₂ -da]	
357a	giš mar-	·gid₂-[da-	giš gag-šudul ₄ -mar-gid ₂ -da			
Ni P-06		giš mar-gid ₂ -[Ni I-05	rI13'	giš gag-š[udul ₄ -	
1,11	211110	gro min gro ₂ t	Ni I-12	I08'	giš gag-UR <i>šeššig</i> -mar-gid ₂ -	
358	giš g11-7	a-mar-gid ₂ -da	1,111	100	d[a]	
Ni I-05	rI05'	giš gu-za-mar-gid ₂ -d[a]	Ni II-230	rI03'	giš gag-U[R <i>šeššig-</i>	
Ni II-095		giš g[u-]-gid ₂ -da	Ni II-241		giš []-UR-mar-gid ₂ -d[a]	
Ni II-241		giš gu-za-mar-gid ₂ -da	11111 211	11113		
101 H 241	11103	gis gu zu mar gia ₂ uu	368 5092	giš umbin-mar-gid ₂ -da		
359	oiš 79-rs	a-mar-gid ₂ -da	Ni I-05	rI14'	giš umb[in-	
Ni I-05	rI06'	giš za-ra-mar-gid ₂ -d[a]	Ni I-12	I09'	giš umbin-ma[r-	
Ni I-03	I01'	[] za-r[a]-ma[r-	Ni II-12		giš um[bin-	
Ni II-095		giš DU ₃ -mar-gid ₂ -da	Ni II-230		giš [um]bin-mar-gid ₂ -da	
Ni II-093			NI II-241	11114	gis [uiii]biii-iiiai-giu ₂ -da	
	01	giš za-[[] za-ra-mar-gid ₂ -da	260 5005a	giž gog	umbin-mar-gid ₂ -da	
NI I V - 22	UI	[] Za-ra-mar-giu ₂ -ua	Ni I-05	gis gag- rI15'		
260	_:Y	: d -d-	Ni II-03 Ni II-241		giš gag-um[bin-	
360		za-ra-mar-gid ₂ -da	N1 11-241	шіз	giš gag-umbin-mar-gid ₂ -da	
Ni I-12	I02'	giš gag-za-r[a]-mar-g[id ₂ -	270 5000	••		
Ni II-095		giš gag-za-mar-gid ₂ -da	370 5090	-	akar-mar-gid ₂ -da	
Ni II-241		giš gag-z[a-r]a-ma[r-	Ni I-01	rII01	giš u ₄ -sakar-mar-[
Ni IV-22	02	[gi]š gag-za-ra-mar-gid ₂ -da	Ni I-05	rI16'	giš u ₄ -sa[kar-	
361	giš sag-kul-mar-gid ₂ -da		371 5091	giš gag-u ₄ -sakar-mar-gid ₂ -da		
Ni I-05	rI07'	giš KA-kul-mar-gid ₂ -d[a]	Ni I-01	rII02	giš gag-u ₄ -sakar-mar-g[id ₂ -	
Ni I-12	I03'	giš KA-kul-mar-gi[d ₂ -	Ni I-08	rV10"	[sak]ar-mar-gid ₂ -da	
Ni II-095		giš sag-ZI-X-X-gid ₂	~ ~	-	. J 92	
Ni II-241		giš sag-kul-mar-gid ₂ -da	372 5088	giš nam	-ha-ru-um-mar-gid ₂ -da	
		6 6 6 6 6	Ni I-01	rII03	giš nam-ha-ru-um-mar-gid ₂ -	
362	giš sag-	dur ₂ -mar-gid ₂ -da	0 -		da	
Ni I-05	rI08'	giš sag-dur ₂ -mar-gid ₂ -d[a]	Ni I-08	rV11"	[$-h$]a-ru-um \ [gi] d_2 -da	
1 1 00		9 - 2-19 2 Bro 2 o[m]	Ni II-241		giš ZI-ha-ru-um-um-mar-	
			., 2 II		0> 10 om din mu	

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Ni II-083 rI05
                         gid<sub>2</sub>-da
                                                                                             giš ig-di[b]
                                                                      Ni II-093 rI05
                                                                                             giš ig-di[b]
373 5083
              giš en<sub>3</sub>-dur-mar-gid<sub>2</sub>-da
                                                                      Ni II-095 rIII06
                                                                                             giš ig-dib
 Ni I-01
              rII04
                         giš en<sub>3</sub>-dur-mar-gid<sub>2</sub>-da
                                                                      Ni II-137 rI06
                                                                                             [ i]g-dib-ba
  Ni I-08
              rV12"
                                                                      Ni II-170 rI04'
                         [ ]-dur \ [
                                           ]-da
                                                                                             giš ig-dib-ba
  Ni II-241 rII17'
                                                                      Ni II-173 rI03'
                         giš en<sub>3</sub>-dur-mar-gid<sub>2</sub>-da
                                                                                             giš ig-dib-ba
374 5199
              giš ig
                                                                    380 5244
                                                                                   giš ig-suh<sub>4</sub>
  Ni I-01
              rII05
                         giš ig
                                                                      Ni I-10
                                                                                   I04'C
                                                                                             [ i]g-suh<sub>4</sub>
              rV13"
  Ni I-08
                                                                      Ni II-093 rI06
                                                                                             giš ig-suh,
                         [ ] ig
  Ni II-083 rI01
                                                                      Ni II-095 rIII07
                         giš i[g
                                                                                             giš ig-URU
  Ni II-093 rI01
                         giš ig
                                                                      Ni II-137 rI07
                                                                                             [ ]-suh<sub>4</sub>
  Ni II-095 rIII02
                                                                      Ni II-170 rI05'
                         giš ig
                                                                                             giš ig-suh<sub>4</sub>
  Ni II-137 rI01
                         giš i[g]
                                                                      Ni II-173 rI04'
                                                                                             giš ig-suh,
 Ni II-241 rII18'
                                                                      Ni U-17
                                                                                   I01'
                                                                                             [g]iš [i]g-[s]uh,
                         giš ig
375 5200
              giš ig-gal
                                                                    380a 5236
                                                                                   giš ig-pa-pah
 Ni I-02
              II01'
                         [ i]g-dagal
                                                                      Ni II-137 rI12
                                                                                             giš ig-pa-pa[h]
 Ni II-083 rI02
                         giš ig-gal
  Ni II-093 rI02
                                                                    381 5218
                         giš ig-gal
                                                                                   giš ig-maš-tab-ba
 Ni II-095 rIII03
                                                                      Ni I-10
                                                                                   I05'C
                                                                                             [ i]g-maš-tab-b[a]
                         giš ig-gal
 Ni II-137 rI02
                         giš ig-[ga]l
                                                                      Ni II-048 rI01'
                                                                                             [ ] ig-maš-[
 Ni II-170 rI01'
                                                                      Ni II-093 rI07
                         gi[š i]g-ga[l]
                                                                                             giš ig-maš-tab-ba
  Ni II-241 rII19'
                         giš ig-gal
                                                                      Ni II-095 rIII08
                                                                                             giš ig-maš-tab-[b]a
 Ni U-12
              I01'
                                                                      Ni II-137 rI13
                         [ i]g-g[al
                                                                                             giš ig-maš-tab-ba
                                                                      Ni II-173 rI05'
                                                                                             giš ig-maš-tab-ba
              giš ig-i3
376 5233
                                                                      Ni II-241 rIII02'
                                                                                             [] ig-maš-tab-ba
  Ni I-02
              II02'
                         g[iš i]g-i<sub>3</sub>
                                                                      Ni U-17
                                                                                   I02'
                                                                                             giš ig-tab-ba
 Ni II-093 rI03
                         giš ig-i<sub>3</sub>
 Ni II-095 rIII04
                                                                    381a
                                                                                   giš ig-ba-ša<sub>3</sub>-ga
                         giš ig-i<sub>3</sub>
  Ni II-137 rI03
                         giš ig-i<sub>3</sub>
                                                                      Ni II-137 rI14
                                                                                             giš ig-ba-ša<sub>3</sub>-ga
 Ni II-170 rI02'
                         giš ig-i3
 Ni U-12 I02'
                                                                    382 5251a giš ig-u<sub>3</sub>-ma
                         [i]g-i_3
                                                                      Ni I-10
                                                                                   I06'C
                                                                                             [i]g-u_3-m[a]
377 5234
                                                                      Ni II-048 rI04'
              giš ig-i<sub>3</sub>-šeš<sub>2</sub>
                                                                                             giš ig-u<sub>3</sub>?-ma?
 Ni I-02
              II03'
                                                                      Ni II-093 rI08
                                                                                             giš ig-u<sub>3</sub>-ma
                         giš [i]g-šeš<sub>2</sub>
 Ni II-083 rI03
                                                                      Ni II-095 rIII09
                         giš ig-LAM
                                                                                             giš ig-u<sub>3</sub>-ma
  Ni II-137 rI05
                         [ i]g-šeš<sub>2</sub>-na
                                                                      Ni II-137 rI08
                                                                                             []-u_3-ma
  Ni II-173 rI02'
                         giš ig-šeš,
                                                                      Ni II-170 rI06'
                                                                                             giš ig-u<sub>3</sub>-ma
 Ni U-12
              I03'
                         [ i]g-i_3-\check{s}[e\check{s}_2]
                                                                      Ni II-173 rI06'
                                                                                             giš ig-u<sub>3</sub>-ma-a
                                                                      Ni II-241 rIII03'
                                                                                             [] ig-u<sub>3</sub>-ma
                                                                      Ni U-17
                                                                                   I04'
378 5210
              giš ig-li
                                                                                             giš ig-u<sub>3</sub>-ma
  Ni I-02
              II04'
                         giš i[g]-li
 Ni I-10
              I02'C
                         [ i]g-l[i]
                                                                    383 5206
                                                                                   giš ig-ul-la
 Ni II-083 rI04
                                                                      Ni I-10
                         giš ig-l[i
                                                                                   I08'C
                                                                                             [ i]g-ul-[]-a
  Ni II-093 rI04
                         giš ig-li
                                                                      Ni II-093 rI09
                                                                                             giš ig-u<sub>3</sub>-BU-a
                                                                      Ni II-170 rI07'
 Ni II-095 rIII05
                         giš ig-li
                                                                                             giš ig-ul-la-a
                                                                      Ni II-173 rI07'
 Ni II-137 rI04
                         [g]iš ig-li
                                                                                             giš ig-ul-l[a
  Ni II-170 rI03'
                         giš ig-li
  Ni II-173 rI01'
                                                                    384 5239
                                                                                   giš ig-ze<sub>2</sub>-na
                         giš ig-li
 Ni U-12
              I04'
                                                                      Ni I-10
                                                                                   I09'B+ [
                         [ ]-l[i]
                                                                                                    ]-na
                                                                      Ni II-093 rI10
                                                                                             [gi]š ig-[z]e<sub>2</sub>-na
379 5207
              giš ig-dib
                                                                      Ni II-170 rI08'
                                                                                             giš ig-ze2-na
 Ni I-02
              II05'
                         giš ig-[d]ib<sub>2</sub>-MA
                                                                      Ni II-173 rI08'
                                                                                             giš ig-ze2-na
 Ni I-10
              I03'C
                                                                      Ni II-241 rIII05'
                         [ i]g-dib-ba
                                                                                                      -n]a
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Ni U-12 I05'
                                                                                 Ni II-093 rI17
                             [-z]e_2-n[a
                                                                                                            giš []-du<sub>3</sub>-ig
                                                                                 Ni II-137 rI20
                                                                                                            giš bar-du<sub>3</sub>-ig
385 5237
                 giš ig-mi-ri2-za
                                                                                 Ni II-173 rI15'
                                                                                                            giš [b]ar-du<sub>3</sub>-i[g]
  Ni I-02
                 II06'
                             giš ig-m[i- -z]a
                                                                                 Ni II-186 rI03'
                                                                                                            giš bar-du<sub>3</sub>-i[g]
  Ni I-10
                I10'B+
                                                                                 Ni II-227 I04
                            giš ig-mi-[]-za
                                                                                                            [gi]š bar-du<sub>3</sub>-ig
  Ni II-093 rI11
                             [] ig-[]-ri,-z[a]
  Ni II-095 rIII10
                                                                               392 5255
                                                                                                giš dun,-la,-ig
                             giš [i]g-mi-GIR<sub>2</sub>-za
  Ni II-170 rI09'
                                                                                 Ni I-02
                                                                                                rI02'
                             [ i]g-mi-ri<sub>2</sub>-za
                                                                                                            giš du-[
  Ni II-173 rI09'
                                                                                 Ni I-10
                                                                                                I17'A+
                             giš ig-mi-r[i<sub>2</sub>-z]a
                                                                                                            [] dun_3-la_2-[
  Ni II-241 rIII04'
                                                                                 Ni II-093 rI18
                                                                                                            giš du[n<sub>3</sub>]-la<sub>5</sub>-ig
                                ]-m[i-r]i<sub>2</sub>-za
                                                                                 Ni II-137 rI21
                                                                                                            giš dun<sub>3</sub>-ig
386 5250
                 giš ig-ka<sub>2</sub>-tilla<sub>2</sub>
                                                                                 Ni II-173 rI16'
                                                                                                            giš dun<sub>3</sub>-la<sub>2</sub>-ig
  Ni I-10
                 I11'B+ giš ig-ka<sub>2</sub>-[
                                                                                 Ni II-186 rI04'
                                                                                                            giš dun<sub>3</sub>-la<sub>2</sub>-ig
  Ni II-048 rI06'
                             [i]g-k[a_3]-til[la_3]
                                                                                 Ni II-227 I05
                                                                                                            [gi]š dun<sub>3</sub>-la<sub>2</sub>-ig
  Ni II-093 rI12
                             giš ig-[k]a<sub>2</sub>-tilla<sub>2</sub>
                                                                                 Ni II-241 rIII13'
                                                                                                            [] dun<sub>3</sub>-la<sub>2</sub>-ig
  Ni II-095 rIII11
                             [ i]g-E,-na
                                                                               393
  Ni II-137 rI15
                             [] ig-ka,-tilla,
                                                                                                giš ir-ig
  Ni II-173 rI10'
                             giš ig-ka<sub>2</sub>-tilla<sub>2</sub>
                                                                                 Ni I-10
                                                                                                I18'A+ [ ] ir-[
  Ni II-241 rIII07'
                                        ]-AN
                                                                                 Ni II-093 rI19
                             Γ
                                                                                                            giš [ ] i[g]
                                                                                 Ni II-137 rI22
                                                                                                            giš ir-i[g]
387 5247
                                                                                 Ni II-186 rI05'
                 giš ig-ka<sub>2</sub>-e<sub>2</sub>-gal-la
                                                                                                            giš ir-ig
                I12'B+ giš ig-e_2-[]-la
  Ni I-10
                                                                                 Ni II-227 I06
                                                                                                            [gi]š ir-ig
                                                                                 Ni II-241 rIII14'
  Ni II-048 rI05'
                             giš ig-ka<sub>2</sub>-gal?-x
                                                                                                            giš ir-ig
  Ni II-093 rI13
                             giš [ k]a<sub>2</sub>?-e<sub>2</sub>-gal
                                                                               394 5267
  Ni II-137 rI16
                             [] ig-e<sub>2</sub>-g[al-l]a
                                                                                                giš suhub<sub>4</sub>-ig
  Ni II-173 rI11'
                                                                                                rI05'
                             giš ig-ig-e<sub>2</sub>-g[al-l]a
                                                                                 Ni I-02
                                                                                                            giš suhub<sub>4</sub>-i[g]
                                                                                 Ni I-10
                                                                                                I19'A+
                                                                                                            [] su[hub<sub>4</sub>-
388 5252
                 giš suku<sub>5</sub>-ig
                                                                                 Ni II-093 rII01
                                                                                                            giš suh[ub<sub>4</sub>-i]g
  Ni I-10
                 I13'B+ [gi]š suku<sub>5</sub>-[i]g
                                                                                 Ni II-137 rI23
                                                                                                            giš ŠU-DI-i[g]
  Ni II-093 rI14
                                                                                 Ni II-173 rI17'
                                                                                                            giš RU<sup>7</sup>-DI<sup>7</sup>-A[Š<sup>7</sup>]
                             giš suku<sub>5</sub>-ig
  Ni II-137 rI17
                             [gi]š su[ku<sub>5</sub>-i]g
                                                                                 Ni II-186 rI06'
                                                                                                            giš su[hub<sub>4</sub>]-ig
  Ni II-173 rI12'
                             giš [s]uku5-ig
                                                                                 Ni II-227 I07
                                                                                                            [gi]š su[hub<sub>4</sub>]
  Ni II-227 I01
                                                                                 Ni II-241 rIII15'
                             [gi]š suku5-ig
                                                                                                            giš suhub<sub>4</sub>
  Ni II-230 rII01'
                             [ su]ku_5-i[g]
                                                                               394a 5267
                                                                                                giš ŠU-DI
389 5253
                                                                                 Ni II-137 rI24
                                                                                                            giš ŠU-D[I]
                 giš u<sub>3</sub>-ig
  Ni II-093 rI15
                             giš u<sub>3</sub>-ig
  Ni II-137 rI18
                             [g]iš u<sub>3</sub>-ig
                                                                               394b 5268
                                                                                                giš šu-ga
  Ni II-173 rI13'
                                                                                 Ni II-173 rI18'
                             giš u<sub>3</sub>-ig
                                                                                                            [] šu-g[a]
  Ni II-186 rI01'
                             giš u<sub>3</sub>-[
                                                                               395 5264
  Ni II-227 I02
                                                                                                giš nu-kuš<sub>2</sub>-u<sub>3</sub>
                             [g]iš u<sub>3</sub>-ig
  Ni II-230 rII02'
                             [] u_3-ig
                                                                                 Ni I-02
                                                                                                rI06'
                                                                                                            giš nu-ku[š<sub>2</sub>
                                                                                                I20'A+
                                                                                 Ni I-10
                                                                                                           [ ] nu-ku[š<sub>2</sub>-
390 5254
                 giš u<sub>4</sub>-sakar-ig
                                                                                 Ni II-093 rII02
                                                                                                            giš nu-ku[š<sub>2</sub>]-u<sub>3</sub>
  Ni I-02
                rI03'
                             giš u<sub>3</sub>-sakar-i[g]
                                                                                 Ni II-137 rI25
                                                                                                            giš nu-kuš<sub>2</sub>-u<sub>3</sub>
  Ni I-10
                 I15'A+ []u_4-[-i]g
                                                                                 Ni II-173 rI19'
                                                                                                            [] nu-ku\S_2-u<sub>3</sub>
  Ni II-093 rI16
                             giš []-sakar-ig
                                                                                 Ni II-186 rI07'
                                                                                                            giš nu-k[uš<sub>2</sub>]-u<sub>3</sub>
  Ni II-137 rI19
                             [gi]š u<sub>4</sub>-sakar-i[g]
                                                                                 Ni II-241 rIII16'
                                                                                                           giš nu-kuš<sub>2</sub>-u<sub>3</sub>
  Ni II-173 rI14'
                             giš u<sub>4</sub>-saka[r]-ig
  Ni II-186 rI02'
                             giš u<sub>3</sub>-sakar-[
                                                                               396 5265
                                                                                                giš nu-kuš<sub>2</sub>-u<sub>3</sub>-an-na
  Ni II-227 I03
                             [gi]š u<sub>3</sub>-sakar-ig
                                                                                 Ni I-02
                                                                                                rI07'
                                                                                                            giš nu-kuš2-a[n-n]a-[
  Ni II-230 rII03'
                                                                                 Ni I-10
                             [] u<sub>4</sub>-sakar-ig
                                                                                                I21'A+
                                                                                                           [] nu-ku\S_2-u_3-[
                                                                                 Ni II-093 rII03
                                                                                                                 ]-kuš<sub>2</sub>-[ ]-an-na
391 5259
                 giš bar-du<sub>3</sub>-ig
                                                                                 Ni II-137 rI26
                                                                                                            giš nu-kuš<sub>2</sub>-u<sub>3</sub>-[
  Ni I-10
                I16'A+ [ ] bar-du<sub>3</sub>-[
                                                                                 Ni II-173 rI20'
                                                                                                            [ ]-ku\check{s}_2-u_3-a[n-
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Ni II-186 rI08'
                                                                Ni I-02
                                                                           rI14'
                      [gi]\S [ ]-u_3-an-na
                                                                                     []-e_3-a
 Ni II-241 rIII17'
                                                                Ni I-05
                                                                           rII03'
                      giš nu-kuš<sub>2</sub>-u<sub>3</sub>-an-na
                                                                                     giš si-gar \ gu<sub>2</sub>-e<sub>3</sub>-a
                                                                Ni I-10
                                                                           I28'D
                                                                                     [ ] si-gar-[
             giš nu-kuš<sub>2</sub>-u<sub>3</sub>-ki-ta
397 5266
                                                                Ni II-095 rIV08
                                                                                         ]-a
                                                                                     [
             I22'A+ [ n]u-kuš_2-u_3-ki-t[a]
 Ni I-10
                                                                Ni II-170 rII03'
                                                                                     giš si-LAGAB-X
 Ni II-093 rII04
                                                                Ni II-173 rI28'
                      [ k]uš<sub>2</sub>-[traces]
                                                                                     giš si-g[ar-g]u<sub>2</sub>-e<sub>3</sub>-a
 Ni II-137 rI27
                      giš nu-kuš,-u,-k[i-
                                                                Ni P-06
                                                                           CI07'
                                                                                     giš [ ]-gu<sub>2</sub>-e<sub>3</sub>-a
 Ni II-173 rI21'
                      []-kuš_2-u_3-[
 Ni II-241 rIII18'
                      giš []-kuš,-u,-ki-ta
                                                              405 5286
                                                                           giš mud
                                                                Ni I-05
 Ni P-06
             CI03'
                      giš n[u-
                                     -k]i-ta
                                                                           rII04'
                                                                                     giš mud
                                                                Ni I-10
                                                                           I29'D
                                                                                     [ ] mu[d]
             giš sag-kul
398 5270
                                                                Ni II-137 rII02
                                                                                     giš mu[d]
             rI08'
 Ni I-02
                      giš sag-kul
                                                                Ni II-170 rII04'
                                                                                     giš mu[d]
 Ni I-10
             I23'A+
                      [] sag-kul-[
                                                                Ni II-173 rI29'
                                                                                     giš [m]ud
 Ni II-093 rII05
                      giš sag-kul
                                                                Ni II-232 rI01
                                                                                     giš mu[d]
                                                                Ni P-06
                                                                           CI08'
 Ni II-137 rI28
                      giš sa[g-ku]l
                                                                                     giš [m]ud
 Ni II-173 rI22'
                      [] sa[g-
                                                              406 5287
 Ni II-241 rIII19'
                      g[iš -B]AL
                                                                           giš gag-mud
                                                                           rII05'
 Ni P-06
             CI04'
                      giš sag-kul
                                                                Ni I-05
                                                                                     giš gag-mud
                                                                Ni I-10
                                                                           I30'D
                                                                                     [ ] gag-mu[d]
399 5271
             giš sag-kul-nim-ma
                                                                Ni II-137 rII03
                                                                                     giš gag-mu[d]
 Ni I-02
             rI09'
                      giš sag-ku[l]-ni[[m]-m[a]
                                                                Ni II-170 rII05'
                                                                                     giš gag-m[ud]
 Ni I-10
             I24'A+ [] sag-kul-nim-ma
                                                                Ni II-173 rI30'
                                                                                     giš gag-mud
 Ni II-093 rII06
                      gi[š] sa[g]-ku[l]-nim-m[a]
                                                                Ni II-232 rI02
                                                                                     giš gag-mud
 Ni II-137 rI29
                                                                Ni P-06
                                                                           CI09'
                      [] s[ag-ni]m-m[a]
                                                                                     giš gag-m[ud]
 Ni P-06
             CI05'
                      giš sag-kul-nim-ma
                                                              407
                                                                           giš šerim(TAG)
400 5275
             giš eš<sub>2</sub>-sag-kul
                                                                Ni I-05
                                                                           rII06'
                                                                                     giš [ {traces}
 Ni I-02
             rI10'
                      giš eš<sub>2</sub>-sag-kul
                                                                Ni I-10
                                                                           I31'D
                                                                                     [] T[AG?]
                                                                Ni II-093 rII13'
                                                                                     giš T[AG]
401
                                                                Ni II-137 rII04
             giš sag-kul-la<sub>2</sub>-a
                                                                                     giš [
             rI11'
 Ni I-02
                     [] TUN<sub>3</sub>-la<sub>2</sub>
                                                                Ni II-170 rII06'
                                                                                     giš x [
 Ni I-10
             I25'A+ [ ] sag-kul-la<sub>2</sub>-a
                                                                Ni II-173 rI31'
                                                                                     giš x
                                                                Ni II-232 rI03
 Ni II-137 rI30
                      [ -ku]l-la<sub>2</sub>
                                                                                     giš TAG!
                                                                Ni P-06
                                                                           CI10'
                                                                                     giš [
402 5294
             giš si-gar
 Ni I-02
             rI12'
                                                              408 5300
                                                                           giš TAG-TUG,
                      [] si-gar
 Ni I-05
                                                                Ni I-05
                                                                                     g[iš
             rII01'
                      giš s[i-
                                                                           rII07'
 Ni I-10
             I26'A+ [ ] si-ga[r]
                                                                Ni I-10
                                                                           I32'D
                                                                                     [ TA]G?-[
 Ni II-093 rII07
                                                                Ni II-093 rII14
                                                                                     [T]AG-T[UG_2]
                            ]-gar
                      ſ
 Ni II-137 rI31
                      [ ]-gar
                                                                Ni II-137 rII05
                                                                                     giš TAG-T[UG<sub>2</sub>]
 Ni II-170 rII01'
                      giš si-[
                                                                Ni II-170 rII07'
                                                                                     giš T[AG
 Ni II-173 rI26'
                                                                Ni II-173 rI32'
                                                                                     giš GA-AŠ
                      giš s[i-g]ar
                                                                                     giš TAG-ŠU!-ma
 Ni P-06
             CI06'
                      giš si-gar
                                                                Ni II-232 rI04
                                                                Ni II-241 rIV01'
                                                                                   [ ] TA[G-
                                                                           CI11'
403 5295
             giš gag-si-gar
                                                                Ni P-06
                                                                                     giš TAG-[
 Ni I-02
                      [ ] si-gar
             rI13'
 Ni I-05
             rII02'
                                                              409 5307a giš kur-ra
                      giš gag-si-gar
 Ni I-10
             I27'D
                                                                Ni I-05
                                                                           rII08'
                      [ ] gag-[
                                                                                     [ k]ur-ra
 Ni II-093 rII08
                                                                Ni II-093 rII15
                                                                                     giš kur-r[a]
                           -s]i-gar
                      Γ
 Ni II-095 rIV07
                                                                Ni II-137 rII06
                                                                                     giš kur-ra
                           ]-gar
                      Γ
 Ni II-170 rII02'
                                                                Ni II-170 rII08'
                       giš gag-si-gar
                                                                                     giš k[ur
 Ni II-173 rI27'
                      giš ga[g-s]i-gar
                                                                Ni II-173 rII01
                                                                                     giš kur-ra
                                                                Ni II-232 rI05
                                                                                     [] kur-ra
404
                                                                Ni II-241 rIV02' [] kur-ra
             giš si-gar-gu<sub>2</sub>-e<sub>3</sub>-a
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Ni II-173 rII09
                                                                                                     giš a<sub>2</sub>-šu-du<sub>7</sub>-tug<sub>2</sub>-ga
410 5308
               giš nu-ra
                                                                            Ni II-241 rIV10' [ ] da-[
  Ni I-05
               rII09'
                           [gi]š nu-ra
  Ni II-093 rII16
                           giš nu-[r]a
                                                                          418 6012
                                                                                          giš ga-rig,
  Ni II-137 rII07
                                                                            Ni I-05
                                                                                          rII17'
                           giš nir?-ra
                                                                                                     giš ga-rig,
  Ni II-173 rII02
                                                                            Ni II-093 rIII07
                           giš nu-ra
                                                                                                     giš ga-rig,
  Ni II-241 rIV03'
                                                                            Ni II-137 rII17
                           [] nu-ra
                                                                                                     giš ga-rig,
                                                                            Ni II-173 rII10
                                                                                                     giš ga-rig,
411 5314
               giš il,-il,
                                                                            Ni II-241 rIV11' [] ga-r[ig<sub>2</sub>]
  Ni I-05
               rII10'
                           [ ] il,-il,
  Ni II-093 rII17
                                                                          419 6013
                                                                                          giš ga-rig<sub>2</sub>-sig<sub>2</sub>
                           giš i[l<sub>2</sub>]-il<sub>2</sub>
  Ni II-137 rII08
                           giš UR<sub>2</sub>-il<sub>2</sub>
                                                                            Ni I-05
                                                                                          rII18'
                                                                                                   giš ga-rig<sub>2</sub>-sig<sub>2</sub>
  Ni II-173 rII03
                                                                            Ni II-093 rIII08
                           giš il<sub>2</sub>-il<sub>2</sub>
                                                                                                     giš g[a]-ri[g_2]-si[g_2]
  Ni II-241 rIV04'
                           [ ] ALAN-i[1,?]
                                                                            Ni II-137 rII18
                                                                                                     giš ga-rig,-sig,
  Ni II-280 I01'
                                                                            Ni II-173 rII11
                           [ ] il,-il,
                                                                                                     giš ga-rig<sub>2</sub>-sig<sub>2</sub>
                                                                            Ni II-241 rIV12' [] ga-rig<sub>2</sub>-sig<sub>2</sub>
412 5312
               giš bar-bar
  Ni I-05
               rII11'
                           [ ] bar-bar
                                                                          420 6014 giš ga-rig<sub>2</sub>-sag-du
  Ni II-093 rIII01
                                                                            Ni I-05
                                                                                          rII19'
                                  ]-bar
                                                                                                     giš ga-rig₂ \ sag-du
                           [
  Ni II-137 rII09
                                                                            Ni II-093 rIII09
                           giš bar-bar
                                                                                                     giš g[a]-r[ig<sub>2</sub>-
  Ni II-173 rII04
                           giš NI-bar
                                                                            Ni II-137 rII19
                                                                                                     giš ga-rig<sub>2</sub>-[sa]g-du
  Ni II-280 I02'
                           [] bar-bar
                                                                            Ni II-173 rII12
                                                                                                     giš ga-rig<sub>2</sub>-MUŠEN-du (sic)
                                                                            Ni II-241 rIV13' [] ga-rig<sub>2</sub>-sag-du
413 5317
               giš tug<sub>2</sub>-tug<sub>2</sub>
                                                                          421 6015
  Ni I-05
               rII12'
                           [gi]š tug<sub>2</sub>-tug<sub>2</sub>
                                                                                          giš ga-rig,-pa-mušen
  Ni II-093 rIII02
                                                                                          rII20'
                                                                            Ni I-05
                                                                                                     giš ga-rig<sub>2</sub> \ pa-mu[šen
                           ſ
                                  ]-tug<sub>2</sub>
  Ni II-137 rII10
                                                                            Ni II-093 rIII10
                           [g]iš tug<sub>2</sub>-tug<sub>2</sub>
                                                                                                     giš [
  Ni II-173 rII05
                           giš KU-KI
                                                                            Ni II-137 rII20
                                                                                                     giš ga-rig<sub>2</sub>-p[a-muše]n-[n]a
  Ni II-280 I03'
                                                                            Ni II-173 rII13
                                                                                                     giš ga-rig<sub>2</sub>-pa-mu[šen]
                           [] tug<sub>2</sub>-tug<sub>2</sub>
                                                                            Ni II-186 rII02'
                                                                                                     giš g[a-
                                                                            Ni II-241 rIV14' [] ga-rig<sub>2</sub>-pa-mušen-na
414 5319
               giš nig<sub>2</sub>-zu
  Ni I-05
               rII13'
                           giš nig<sub>2</sub>-zu
  Ni II-093 rIII03
                           traces
                                                                          421a 6018 giš ga-rig<sub>2</sub>-e<sub>2</sub>-pa-na
                                                                            Ni II-137 rII21
  Ni II-137 rII11
                           [] nig<sub>2</sub>-z[u]
                                                                                                     giš ga-rig<sub>2</sub>-e<sub>2</sub>-p[a-n]a
  Ni II-173 rII06
                           giš nig<sub>2</sub>-zu
  Ni II-280 I04'
                                                                          422 6019
                                  ]-zu
                                                                                          giš bal
                                                                            Ni I-05
                                                                                                     giš bal
                                                                                          rII21'
415 5318
               giš nig<sub>2</sub>-gi-na
                                                                            Ni II-093 rIII11
                                                                                                     giš ba[1]
  Ni I-05
               rII14'
                                                                            Ni II-137 rII22
                           giš ni[g<sub>2</sub>]-gi-na
                                                                                                     giš bal
  Ni II-093 rIII04
                                                                            Ni II-173 rII14
                           [ni]g_2-gi-na
                                                                                                     giš bal
  Ni II-137 rII12
                                                                            Ni II-186 rII03'
                           [ni]g_2-g[i-
                                                                                                     giš b[al]
  Ni II-173 rII07
                           giš nig<sub>2</sub>-gi-na
                                                                            Ni II-241 rIV15'
                                                                                                     [ ] bal
  Ni II-280 I05'
                                                                            Ni II-268 I01
                                    ]-na
                                                                                                     giš bal
                                                                          423 6030
416 5313
                                                                                          giš e<sub>2</sub>-bal
                giš nig<sub>2</sub>-menbulug<sub>2</sub>
                (BULUG/BULUG)
                                                                            Ni I-05
                                                                                          rII22'
                                                                                                     giš e<sub>2</sub>-bal
                                                                                                     giš e<sub>2</sub>-bal
  Ni I-05
               rII15'
                           giš nig<sub>2</sub>-menbulug<sub>2</sub>
                                                                            Ni II-093 rIII12
  Ni II-093 rIII05
                                                                            Ni II-137 rII23
                           giš n[ig<sub>2</sub>]-menbulug<sub>2</sub>
                                                                                                     giš e<sub>2</sub>-bal
  Ni II-137 rII15
                                                                            Ni II-173 rII15
                           giš menbulug<sub>2</sub>
                                                                                                     giš e<sub>2</sub>-bal
  Ni II-173 rII08
                           giš menbulug,
                                                                            Ni II-186 rII04'
                                                                                                     giš e_2-b[al]
                                                                            Ni II-241 rIV16'
                                                                                                     [] e_2-bal
417
                giš a_2-šu-du_7-tug_2-ga
                                                                            Ni II-251 rI01'
                                                                                                           -ba]l
  Ni I-05
               rII16'
                           giš a<sub>2</sub>-šu-du<sub>7</sub>-tug<sub>2</sub>-ga
                                                                            Ni II-268 I02
                                                                                                     giš e2-bal
  Ni II-093 rIII06
                           giš a<sub>2</sub>-šu-du<sub>7</sub>-x-ga
  Ni II-137 rII16
                                                                       424 6026 giš sag-bal
                           giš a_2-šu-du<sub>7</sub>-tug<sub>2</sub>-ga
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Ni I-10 II03'
                                                             Ni I-10 II11'
                     giš sa[g-
                                                                                 []BU
 Ni II-093 rIII13
                                                             Ni II-137 rII32
                     giš sag-bal
                                                                                 giš BU
 Ni II-137 rII24
                     giš [s]ag-bal
                                                             Ni II-173 rII24
                                                                                 giš BU
 Ni II-173 rII16
                     giš sag-bal
                                                             Ni II-232 rII03
                                                                                 [ B]U
 Ni II-186 rII05'
                                                             Ni U-13
                                                                        I04'
                     giš sag-b[al]
                                                                                 [gi]š BU
 Ni II-241 rIV17'
                                                             Ni U-26
                                                                        I04'
                     [] X-bal
                                                                                 [ B]U
 Ni II-251 rI02'
                     [ ]-bal
                                                           432 6084
                                                                        giš BU
            giš BAR?-bal
424a
                                                             Ni I-10
                                                                        II12'
                                                                                 []B[U]
 Ni II-137 rII25
                     giš BAR?-bal
                                                             Ni II-022 01'
                                                                                 giš BU
                                                             Ni II-137 rII33
                                                                                 giš BU
425 6028
            giš me-te-bal
                                                             Ni II-173 rII25
                                                                                 giš BU
 Ni I-10
            II04'
                     giš me-t[e-
                                                             Ni II-224 I01
                                                                                 [g]iš BU
 Ni II-093 rIII14
                     giš me-te-bal
                                                             Ni II-232 rII04
                                                                                 [ B]U
 Ni II-137 rII26
                     giš me-te-bal
                                                             Ni U-26
                                                                        I05'
                                                                                 [ B]U
 Ni II-173 rII17
                     giš me-te-bal
                                                           433 6092
 Ni II-241 rIV18'
                    [] X-bal
                                                                        giš sahar-BU
 Ni II-251 rI03'
                                                             Ni I-10
                                                                        II13'
                     [ ]-te!-bal
                                                                                 [ ] sahar-[
                                                             Ni II-022 02'
                                                                                 giš sahar-BU
426 6043
            giš LAGAB
                                                             Ni II-173 rII26
                                                                                 g[iš s]ahar-BU
 Ni II-093 rIII15
                                                             Ni II-224 I02
                     giš LAGAB
                                                                                 giš sahar-BU
 Ni II-137 rII27
                     giš U LAGAB
                                                             Ni II-232 rII05
                                                                                 [ B]U
 Ni II-251 rI04'
                                                             Ni U-26
                                                                       I06'
                     [] LAGAB
                                                                                 [ B]U
427 6044
            giš LAGAB
                                                           434 6097
                                                                        giš bu
 Ni II-093 rIII16 giš LAGAB
                                                             Ni I-10
                                                                        II14'
                                                                                 [ ] gi-b[u]
 Ni II-137 rII28
                                                             Ni II-022 03'
                     giš U LAGAB
                                                                                 giš bu
 Ni II-173 rII19
                     giš L[AGAB]
                                                             Ni II-173 rII27
                                                                                 giš gi-BU/BU
 Ni II-251 rI05'
                     []LAGAB
                                                             Ni II-224 I03
                                                                                 giš bu
                                                           435 6098
                                                                        giš bu-<sup>g1</sup>ma-an-sim
428 6045
            giš LAGAB
                                                                                 [] gi-bu-<sup>g[i]</sup>m[a]-an-sim
 Ni II-093 rIII17
                     giš LAGAB
                                                             Ni I-10
                                                                        II15'
 Ni II-137 rII29
                                                             Ni II-173 rII28
                                                                                 giš gi-<sup>gi</sup>ma-a[n]-sim
                     giš LAGAB
 Ni II-173 rII20
                     giš LA[GAB]
                                                             Ni II-224 I04
                                                                                 giš bu-ma-an-sim
 Ni II-251 rI06'
                     []LAGAB
            I01'
                                                           435a
                                                                        giš bu-ŠID
 Ni U-13
                     [g]iš LAGAB
 Ni U-26 I01'
                                                             Ni II-022 04'
                                                                                 giš bu-ŠID
                     [ LA]GAB
429 6081
            giš BU
                                                           436 6108
                                                                        giš rin,
 Ni I-10
            II09'
                                                             Ni I-10
                                                                        II16'
                     giš B[U]
                                                                                 [] rin<sub>2</sub>
 Ni II-093 rIII18
                     [] BU
                                                             Ni II-022 05'
                                                                                 giš rin<sub>2</sub>
 Ni II-137 rII30
                     gi[š B]U
                                                             Ni II-173 rII29
                                                                                 giš [ri]n<sub>2</sub>
 Ni II-232 rII01
                                                             Ni II-224 I05
                     []BU
                                                                                 [] rin<sub>2</sub>
 Ni II-251 rI07'
                     [ B]U
 Ni U-13 I02'
                     giš BU
                                                           437 6110 giš rin<sub>2</sub>-lib-lib-bi
 Ni U-26 I02'
                     [ B]U
                                                             Ni I-10
                                                                        II17'
                                                                                 [] rin<sub>2</sub>-lib-lib-bi
                                                             Ni II-022 06'
                                                                                 giš rin<sub>2</sub>-lib-lib-ba!
430 6082
            giš BU
                                                             Ni II-173 rII30
                                                                                 giš [ri]n<sub>2</sub>-[1]ib-[
 Ni I-10
            II10'
                                                             Ni II-224 I06
                     [] B[U]
                                                                                 [] rin<sub>2</sub>-lib-[li]b-[b]i
 Ni II-137 rII31
                     giš BU
 Ni II-232 rII02
                     []BU
                                                           438 6113
                                                                        giš rin<sub>2</sub>-1-gun
 Ni U-13
            I03'
                                                                        II18'
                                                                                [ ri]n_2-1(A\dot{S})-gu-[
                     [gi]š BU
                                                             Ni I-10
 Ni U-26
            I03'
                     [ B]U
                                                             Ni II-022 07'
                                                                                 giš rin<sub>2</sub>-1(AŠ)-DA
                                                             Ni II-173 rIII01 giš rin<sub>2</sub>-gu[n]-na-AŠ
431 6083
           giš BU
```

4	20			NT: I	. 0.0	TO 41	F
4	39	giš rin ₂ -1		Ni I		rI04'	giš apin-[
	Ni I-10	II19'	[-n]a-[I-125		giš apin-gud-4-la ₂
	Ni II-022		giš rin ₂ -ma-na			rIII02'	giš apin-g[ud-
	Ni II-130	rI01'	giš rin ₂ -m[a-			rII05'	giš apin-gud-[
				Ni I	I-173	rIII10	giš apin-gud-4-la ₂
4	40 6116	giš e ₂ -rii	n_2				
	Ni II-022	09'	giš e ₂ -rin ₂	449 5	5135	giš sag-a	npin
	Ni II-130	rI02'	giš e_2 -r[in ₂]	Ni I	-06	rI05'	giš sa[g-
	Ni II-173	rIII02	giš e ₂ -rin ₂	Ni I	I-125	I08	giš sag-apin
	Ni P-06	CII03'	giš e ₂ -[Ni I	I-137	rIII03'	giš sag-ap[in]
				Ni I	I-158	rII06'	giš sag-a[pin]
4	41 6115	giš dilin	n ₂ -rin ₂	Ni I	I-173	rIII11	giš sag-apin
	Ni II-130		giš dilim ₂ -rin ₂				
	Ni II-173	rIII03	giš [di]lim ₂ -rin ₂	450 5	5137	giš eme-	apin
					-06	rI06'	giš e[me-
4	42 5110	giš apin			I-125		giš KA-apin
-	Ni II-022		giš apin			rIII04'	giš eme-apin
	Ni II-125		giš ap[in]			rII07'	giš eme-apin
	Ni II-173		g[iš a]pin			rIII12	giš eme-apin
	Ni P-06	CII04'	giš api[n]		I-173		[] em[e-
	N1 F-00	CI104	gis api[ii]	INII	1-233	1101	[] cili[e-
1	12 5116	aix amin	×	451 4	= 114	aix Ira Xı	. onin
4	43 5116	giš apin			5144	giš ka-šu	_
	Ni II-022		giš apin-šu		I-125		giš ka-šu ₂ -apin
	Ni II-125		giš apin-š[u]			rIII05'	giš ka-šu ₂ -apin
	Ni II-173	rIII05	gi[š a]pin-šu			rII08'	giš k[a-š]u ₂ -apin
						rIII13	giš ka-šu ₂ -apin
4	44 5117	giš apin			I-255		giš ka-[
		12'	giš apin-š[u-d]u ₇	Ni l	II-02	I01	[g]iš [k]a-šu ₂ -a[pin]
	Ni II-125		giš apin-šu-d[u ₇]				
	Ni II-158		[] apin-š[u?-		5152	giš šu-sa	- 1
	Ni II-173	rIII06	giš ap[in-š]u-du ₇	Ni I	I-125	I11	giš šu-sag-apin
	Ni U-19	I01'	$[-\check{s}]u-du_{7}$	Ni I	I-137	rIII06'	giš šu-š[a]-KUM?-apin
				Ni I	I-158	rII09'	giš šu-sag-apin
4	45 5118	giš apin	-šu-nu-du ₇	Ni I	I-173	rIII14	giš [š]u-sag-apin
	Ni II-022	13'	giš apin-[-d]u ₇	Ni I	I-255	rI03'	giš šu-sag-[
	Ni II-125	I04	giš apin-šu-nu-d[u ₇]	Ni I	II-02	I02	giš [š]u-[sa]g-a[pin]
	Ni II-173	rIII07	giš api[n-š]u-nu-du ₇				
	Ni U-19	I02'	[]-šu-nu-du ₇	452a	5151	giš igi-g	al ₂ -apin
			,	Ni I		rIII01'	
4	46 5123	giš apin	$-tug_2$ - sig_{18}	Ni I	I-137	rIII07'	giš i[gi-g]al ₂ ?-apin
	Ni I-06	rI02'	giš apin-[I-255		giš igi?-gal ₂ -[
		14'	[ap]in-[0 0 0 21
	Ni II-125		giš apin-tug ₂ -s[ig ₁₈]	453 5	5157	giš nig ₂ -l	kud-apin
	Ni II-158		giš apin-tug ₂ -si[g_{18}]		I-125		giš nig ₂ -kud-apin
	Ni II-173		giš apin-tug ₂ -sig ₁₈			rIII08'	giš nig ₂ -kud-apin
	Ni U-19	I03'	[ap]in-tu[g_2 -			rII10'	giš [n]ig ₂ -kud-apin
	141 0 17	103				rIII15	giš []-apin
1	47	giš apin	can A		I-255		[gi]š nig ₂ -kud-[
4	Ni I-06	rI03'	-sag-c₃ giš apin-[1411	.1 433	1105	[81]5 III82-Kuu-[
	Ni II-00			151	5150	aič nia	DI anin
			giš apin-sag-e ₃	454 5		giš nig ₂ -	=
	Ni II-137		giš a[pin-			rIII09'	giš nig ₂ -PI-apin
	Ni II-158		giš apin-s[ag-			rII11'	giš nig ₂ -PI-apin
	Ni II-173	r11109	giš apin-[s]ag-eš			rIII16	$gi[\S n]ig_2-P[I-a]pin$
,	40 5101		1 4 1		I-255		[gi]š nig ₂ -PI-[
4	48 5131	gis apin	-gud-4-la ₂	Ni I	II-02	103	giš nig ₂ -P[I]-a[pin]

			Ni II-251		giš da-apin
455 5161	giš sal-l		Ni III-02	I10	giš da-[
Ni I-05	rIII02'	[] sal-la-apin			
Ni II-137		giš sal!-[l]a-apin	462	giš gan-	
Ni II-173		[g]iš sal-la-ap[in]	Ni II-173		giš gan-apin
Ni II-250	rI02'	giš sa[l]-l[a-	Ni II-251		giš KAB-apin
			Ni III-02	rI01	giš gan-apin
456 5162		sal-la-apin			
Ni I-02	rII04'	[]-la-apin	463 5141	giš li-ap	
Ni I-05	rIII03'	[] gag-sal-la-apin	Ni II-173		giš li-apin
Ni II-137	rIII11'	[-1]a-apin	Ni II-251	rII08'	giš li-apin
Ni II-173	rIII18	giš gag-sal-la-ap[in]	Ni III-02	rI02	giš li-apin
Ni II-250	rI03'	giš gag-[]-ap[in]			
Ni II-251	rII01'	giš g[ag]-s[al]-l[a]-ap[in]	464 5146	giš nind	a ₂ -apin
			Ni II-173	rIII24	giš ninda ₂ -apin
457 5159c	giš nig-a	apin	Ni III-02	rI03	giš ninda ₂ -apin
Ni I-05	rIII06'	[] nig-apin			
Ni II-137	rIII12'	[n]ig-apin	465	giš a ₂ -gu	ıd-apin
Ni II-173	rIII19	giš nig-apin	Ni II-173		giš a ₂ -gud-apin
Ni II-215	rI01	giš nig-apin	Ni III-02	rI04	giš a ₂ -gud-apin
Ni II-250		giš nig-[Ni U-26	II03'	giš DA-gud-[
Ni II-251		giš nig-apin			8
Ni III-02	I06	giš n[ig]-[a]pin			
11111102	100	9:2[.9] [a]b			
458	giš gag-	nig-apin			
Ni I-05	rIII07'	[] gag-nig-apin			
Ni II-137		giš gag-nig-apin			
Ni II-173		giš gag-nig-apin			
Ni II-215		giš gag-nig-apin			
Ni II-250		giš gag-nig-[
Ni II-251		giš gag-nig-apin			
Ni III-02	I07	giš gag-n[ig]-[a]pin			
11111-02	107	gis gag-n[ig]-[a]pin			
459 5166	giš šudu	ıl-anin			
Ni I-05	rIII04'				
Ni II-137		giš šudul-apin			
Ni II-215		giš šudul-apin			
Ni II-250		giš [šu]dul-[
Ni III-02	I08	[g]iš šudul-apin			
111 111 02	100	[S]IS Sudur upin			
460 5167	giš gag-	šudul-apin			
Ni I-05	rIII05'	-			
Ni II-215		giš gag-šudul-apin			
Ni II-250		giš gag-šudul-ap[in]			
Ni III-02	I09	giš gag-šudul-apin			
1111-02	107	gis gag-sudui-apini			
460a	giš muš-	-anin			
Ni II-251	-	-			
14111 231	11101	gis mas apm			
460b	giš gag-	muš-apin			
Ni II-251		=			
11111-231	11103	Sie Sas malel ahm			
461 5139	giš da-a	nin			
	-	giš da-apin			
Ni II-137		giš da-apin			
111 11-1/3	111121	Sio an apin			

466	giš an-z	a-am-apin	Ni II-173	rIV02	giš al
Ni II-173		giš an-za-am-apin	Ni IV-26	01	giš al
Ni III-02		giš an-za-am-apin			C
Ni U-26	II04'	giš en ₃ -za-[478 7a155	giš al-zu	\mathbf{l}_2
			Ni I-05	rIII22'	giš al-zu ₂
467	giš gag-	sa-la,	Ni II-117	I07'	giš al-[
Ni I-05	rIII13'	[g]ag-sa-[Ni II-127	I01	giš al-zu ₂
Ni II-173	rIII27	giš gag-sa-la ₂	Ni II-145	rII03	giš al-z[u ₂]
Ni III-02	rI06	giš gag-sa-la ₂	Ni II-173	rIV03	giš al-zu,
Ni U-26	II05'	giš gag-sa-[2
			479 7a166	giš al-šu	ıb
468 5173	giš gan ₂ -	-ur ₃	Ni I-05	rIII23'	giš a[1]-šub
Ni I-05	rIII14'	giš $[g]an_2$ - $[u]r_3$	Ni II-117	I08'	[g]iš al-šu[b]
Ni II-173	rIII28	giš [-u]r ₃	Ni II-145	rII04	giš al-šub
Ni III-02	rI07	giš gan ₂ -ur ₃	Ni II-173	rIV04	giš al-šu[b]
Ni U-26	II06'	giš gan ₂ -u[r ₃]	Ni IV-26	02	giš al-šub
469 5174	giš gan ₂ :	-ur ₃ -sar-ra	480 7a159	giš al-zı	12-2
Ni I-05	rIII15'	giš []-ur ₃ -[]-ra	Ni I-05	rIII24'	giš [a]l-zu ₂ -2
Ni II-173	rIII29	giš gan ₂ -ur ₃ -sar-ra	Ni II-117		giš al-2
			Ni II-127	I02	giš al-zu ₂ -2
470 5175	giš gan ₂	-ur ₃ -zu ₂ -gal-la	Ni II-145		giš al-zu ₂ -2
Ni I-05	rIII16'	giš gan_2 - $ur_3 \setminus zu_2$ -gal-la	Ni II-173	rIV05	giš al-zu ₂ -2
Ni II-173	rIII30	giš sa-gan ₂ -ur ₃ -zu ₂ -gal-[
			481 7a160		
471	giš sa-ga		Ni II-117		giš al-3
Ni I-05	rIII17'	giš sa-gan ₂ -ur ₃	Ni II-145		giš al-zu ₂ -3
			Ni II-173	rIV06	giš al-zu ₂ -3
472 5185	giš u ₅ -ga				
Ni I-05	rIII18'	giš u ₅ -gan ₂ -ur ₃	482 7a161		
Ni II-117		$gi\S u_5-g[an_2-$	Ni I-05	rIII25'	giš al-zu ₂ -4
Ni II-173	rIII31	giš u ₅ -gan ₂ -ur ₃	Ni II-127		giš al-zu ₂ -4
450 5100	••		Ni II-137		g[iš a]l-[z] u_2 -4
473 5183	giš sag-		Ni II-145		giš al-zu ₂ -4
Ni II-117		giš sag-[Ni II-173	rIV0/	giš al-zu ₂ -4
Ni II-173	rIII32	$[g]iš s[ag?]-g[an_2-u]r_3$	492 7-160	• • • • •	1.
474 5160	. 'Y 1		483 7a169	-	
474 5160	giš da-a rIII19'	•	Ni II-127		giš u ₃ -šub
Ni I-05 Ni II-117		giš da-an-ga	Ni II-137		giš u ₃ -šub-dur ₂
Ni II-117 Ni II-173		giš d[a-	Ni II-145 Ni II-173		giš u ₃ -š[ub] giš u ₃ -šub
NI II-1/3	111133	[]-an-ga	Ni II-250		giš u ₃ -sub
475 7a148	oič cuhu	ır.	INI II-230	11102	gis u ₃ -[
Ni I-05	rIII20'	giš suhur	484 7a173	aič 11 _č1	ıh-ah-ha
Ni II-117		giš s[uhur]	Ni II-127		giš u ₃ -šub-ab-ba
Ni II-173		[su]hur	Ni II-137		giš u ₃ -šub-ab-ba
1111 173	111134	[Sujiiui	Ni II-145		giš u ₃ -š[ub-
476 7a149	oiš suhu	r-oud	Ni II-173		[g]iš u ₃ -šub-ab-ba
Ni II-145		giš suhur-gud	Ni II-250		giš u ₃ -šub-[
Ni II-173		gi[š su]hur-TA	1111 200	11105	S15 43 540 [
1,111 1/3	11,01	0-r	485 7a170	giš 11šī	ıb-sig.
477 7a152	giš al		Ni II-127		giš u ₃ -šub-sig ₄
Ni I-05	rIII21'	giš al	Ni II-137		giš u ₃ -šub-sig ₄
Ni II-117		giš al	Ni II-145		[gi]š u ₃ -[
Ni II-145		giš al	Ni II-173		giš u ₃ -šub-sig ₄
			: == = . 0		5 3 4 4 4 4 6 4

Ni II-250	rII04'	giš u ₃ -šub-sig ₄	Ni I-06	rII03'	giš tukul-šu
			Ni II-127		giš tukul-šu
		ıb-sig₄-al-ur₅-ra	Ni II-173	rIV20	giš tukul-šu
Ni II-127		giš u ₃ -šub-sig ₄ -al-ur ₅ -ra			
Ni II-137		giš u_3 -šub-si $[g_4$ $u]r_5$ -ra	498 7a015	-	
Ni II-173	rIV11	giš u ₃ -šub-al-ur ₃ -ra	Ni I-06	rII04'	giš tukul-ur ₃ -ra
Ni II-250	rII05'	giš u ₃ -šub-sig ₄ -[a]l-ur ₅ -ra	Ni II-127	I18	giš tukul-ur ₂ -ra
			Ni II-173	rIV21	giš tukul-ur ₃ -r[a]
487 6133		du ₆ -ba-al-la ₂			
Ni II-127	I08	giš gag-du ₆ -ba-al-la ₂	499 7a024	giš tuku	l-kun
Ni II-137	rIV12'	giš gag-du ₆ -[Ni I-06	rII05'	giš tukul-kun
			Ni II-127	I19	giš tukul-kun
488 6134	giš gag-	sum-ba-al-la ₂	Ni II-173	rIV22	giš tukul-kun
Ni II-127	I09	giš gag-sum-ba-al-la ₂			
Ni II-137	rIV13'	giš gag-z[i?-	500 7a010	giš TUK	UL-DINGIR
Ni II-173	rIV12	giš gag-sum-ba-la ₂	Ni I-06	rII10'	giš TUKUL-DINGIR
Ni II-250	rII06'	giš gag-[s]um-ba-la,	Ni II-173	rIV23	g[iš TU]KUL-DINGIR
		2	Ni II-210	rI05'	giš TUKUL-DIN[GIR]
489	giš gag-	sum-sal-la			
Ni II-137		giš gag-z[i?-	501	giš tuku	l-gaz
Ni II-173			Ni I-06	rII06'	giš tukul-gaz
Ni II-250		giš gag-sum-sal-la	Ni II-127		giš tukul-gaz
141 H 250	11107	gio gag sam sar ia	11111127	120	gis tukui guz
490 6135	giš gag-	sum-šir-dili	501a	giš tuku	l-mah
Ni II-127	0 0 0	giš gag-sum-šir-dili	Ni II-210	-	giš tukul-ma[h]
Ni II-173		giš gag-sum-šir-dili	- 1.2 - 2 - 2 - 2		8
Ni II-250		giš [g]ag-sum-šir-dili	502 7a028	oiš sao-1	nikul
1 11 11 250	11100	gis [gjag sam sir am	Ni I-06	rII07'	giš sag-tukul
491 6150	giš zi-ri	-aum	Ni II-127		giš sag-tukul
Ni II-127	•	giš zi-ri ₂ -qum	Ni II-210		giš sag?-tukul?-[
Ni II-127		giš zi-ri ₂ -qum giš zi-ri ₂ -qum	1111-210	1103	gis sag:-tukur:-[
Ni II-250		giš z[i-r]i ₂ -qum	503 7a030	aiš a aa	tukul
NI II-230	11109	gis z[i-i]i ₂ -quiii	Ni I-06	rII08'	giš a-ga-tukul
402	aix an	-i ni aum			giš a-ga-tukul giš a-ga-tukul
492 Ni II-127		zi-ri ₂ -qum	Ni II-127	122	gis a-ga-tukui
		giš gu ₂ -zi-ri ₂ -qum	504 7-012	aix mi t	
Ni II-173	11 V 10	giš [g]u ₂ -zi-[-qu]m	504 7a012	-	
402 (152			Ni II-127		giš mi-tum
493 6153	_		Ni II-173		[] mi-tum
Ni II-127	113	giš nam-nu-tar-re	Ni II-210		giš mi-tum
404 6157	·×	τ.	Ni II-214	rI02	giš mi-tu[m]
	giš I-LU		505	. 'Y' 4.	50
Ni II-127		giš I-LU	505		um-sag-50
Ni II-173	rIVI'/	giš I-LU	Ni II-127		giš mi-tum-sag-50
405 6150	.v		Ni II-173		[] m[i-tu]m-s[ag-5]0
495 6158	giš I-DI		Ni II-210		giš mi-tum-sag-50
Ni I-06	rII01'	giš I-[Ni II-214	r103'	giš mi-tum-sag-50
Ni II-127		giš I-DIB	70.		
Ni II-173	rIV18	giš I-LU	506 7a001	-	=
			Ni I-06	rII09'	giš utug ₂
496 7a006	_		Ni II-127	I25	giš utug ₂
Ni I-06	rII02'	giš tu[kul]			
Ni II-127		giš tukul	507	giš utug	
Ni II-173	rIV19	giš tukul	Ni II-127		giš utug ₂ -sag-50
			Ni II-210	rI09'	[ut]ug ₂ [
497 7a014	giš tuku	l-šu			

508 7a174	giš dur.				
Ni I-06	rII11'	giš dur ₂	519	giš nig ₂ -	2-sila
Ni II-127		giš dur ₂	Ni II-061		giš nig ₂ -2-sila ₃
Ni II-173		[] dur ₂	Ni II-173		giš nig_2 -2-sila ₃
11111170	11.20	[] 0012	Ni II-281		giš 2-[
509 7a200	giš dur,-	pisan	- 1.2 - 2 - 2 - 2		8 [
Ni I-06	rII12'	giš dur ₂ -pi[san	520 7a237	giš 1 sila	a,
Ni II-127		giš dur ₂ -pisan	Ni II-033	-	giš 1-[
		2 1	Ni II-061		giš 1 sila ₃
510 7a178	giš dur,-	ab-ba	Ni II-173		giš [sil]a,
Ni II-127		[] dur ₂ -ab-ba			<i>U</i> 1 1 3
Ni II-173	rIV27	[d]ur ₂ -ab-ba	521	giš 1/2 s	sila,
			Ni II-033	-	giš 1/2 [
511 7a175	giš dur,-	sig,	Ni II-061		giš 1/2 sila ₃
Ni II-127		[] dur ₂ -sig ₄	Ni II-173		giš [sil]a,
Ni II-173		[]-sig ₄			<i>C</i>
Ni II-226		$[] du[r_2-$	522 7a239	giš 1/3 s	sila,
			Ni II-152		giš 1/3 [
512 7a176	giš dur,-	sig ₄ -al-ur ₅ -ra	Ni II-173		giš [sil]a ₃
Ni II-127	-	[]-sig ₄ -al-ur ₅ -ra			<i>U</i> 1 1 3
Ni II-154	rI01'	giš d[ur_2 -n] ig_2 -[]-a[1?]-	523 7a240	giš 2/3 s	sila₂
		$\mathbf{u}[\mathbf{r}_5$ -	Ni II-033	-	giš 2/3 [
Ni II-173	rIV29	[]-ur ₃ -ra	Ni II-061		giš 2/3 sila ₃
Ni II-226		giš dur ₂ -s[ig ₄ -	Ni II-173		giš [sil]a ₃
					0
513 7a204	giš dur ₂ -	bi-eš-gar-[ra]	524	giš 10 g	in ₂
Ni II-154	rI02'	giš dur ₂ -bi-eš-gar-[Ni II-033	rI04	giš 10-g[in ₂
Ni II-226	I03'	giš dur ₂ ?-b[i-	Ni II-061	rI09	giš 10 g[in ₂]
Ni II-270	I01'	giš dur ₂ -[Ni II-152	I02	giš 10 [
			Ni II-173	rV10	[] $g[in_2]$
514 7a205	giš bar-l	oi-eš-gar-ra			
Ni II-154	rI03'	giš bar <dur<sub>2> bi-eš-gar-ra</dur<sub>	525	giš 5 gir	\mathbf{l}_2
Ni II-226	I04'	giš bar-[Ni II-033	rI05	giš 5-[
Ni II-270	I02'	giš bar-b[i-	Ni II-061	rI10	giš 5 g[in ₂]
			Ni II-152	I03	giš 5 [
515 7a226	giš lid ₂ -g	ga	Ni II-173	rV11	$[]gin_2$
Ni II-061	rI01	giš IR-[
Ni II-154	rI04'	giš lid ₂ !-ga	525a	giš 3 gir	\mathbf{l}_2
Ni II-173	rV01	giš lid ₂ -da	Ni II-033	rI06	giš 3-[
Ni II-270	I03'	giš lid ₂ -[Ni II-281	I04	giš 3-[
516 7a218		=	525b	giš 2 gir	
Ni II-061		giš ba-ri ₂ -g[a]	Ni II-033	rI07	giš 2-[
Ni II-154		giš ba-an-ri ₂ -ga			
Ni II-173	rV02	giš ba-r[i ₂]-ga	526	giš 1 gir	
			Ni II-033		giš 1-[
517 7a231	-		Ni II-061		[]1[
Ni II-061		giš ba-an	Ni II-281	I05	g[iš] 1?-[
Ni II-173		giš ba-an			
Ni II-281	I01	giš ba-[527 6160	giš sa	
			Ni II-173	rV12	[] sa
518 7a235				• • •	
Ni II-061		giš ba-an-5-sila ₃	528 6164	giš sa-ga	
Ni II-173		giš ba-an-5-sila ₃	Ni II-173	rV13	[s]a-gal
Ni II-281	102	giš ba-an-5-sila ₃			

529	giš sa-sig	542	giš šu-u	
Ni II-173	rV14 [s]a-sig	Ni I-04		giš š[u-
		Ni I-05		_
	giš sa-ur ₃ -ra	Ni II-033		
N1 II-1/3	rV15 [s]a-ur ₃ -ra	Ni II-071		[] šu-DU
521 (192 _a	-:¥:¥ -:	Ni II-131	rioi	[-D]U?
	giš sa-giš-gi rV16 [s]a-giš-gi	543 4027	aiš iai a	ro1
NI II-1/3	TVTO [SJa-gis-gi	Ni I-04		gai ₂ giš i[gi-
532 6171	[giš sa-šu]-uš-gal	Ni I-05		giš igi-gal ₂
	rV17 []-uš-gal	Ni II-033		giš igi-g[al ₂]
1,11117,0	1.1, [] as gar	Ni II-071		[gi]š igi-gal ₂
533 6190	[giš sa]-hir	Ni II-131		[]-gal ₂
Ni I-05		Ni II-154		giš igi-gal,
Ni II-173				
		544 3269	giš ligin	na(IGI-TUR-TUR)
534 6175	[giš sa]-du ₃	Ni I-04	rI04'	giš I[GI-
Ni I-05	rIV02' []-du ₃	Ni I-05		
		Ni II-033	rII04	giš IGI-T[UR-TU]R
535	[giš sa]-NI	Ni II-071	I08'	[gi]š IGI-TUR-TUR
Ni I-05	rIV03' []-NI	Ni II-033 Ni II-071 Ni II-131	rI03'	[]-TUR-TUR
		N1 II-135	104	[g]is IGI-[1]UR-[1]UR
	giš har-mušen-na	Ni II-154	rII03'	giš IGI-TUR-TUR
Ni I-05		5.45. 2250		(ICI TIID TIID)
Ni II-173	rV20 [-n]a			na(IGI-TUR-TUR)
527 (221	.'Y .' 1 1 Y	Ni II-071		
	giš gidru-har-mušen-na	Ni II-131	r104	[T]UR-TUR
Ni II-05 Ni II-071	rIV05' [gi]dru-har-mušen-na I01' []-n[a]	Ni II-135 Ni II-154		
Ni II-071 Ni II-173		NI II-134	11104	gis ioi-Tuk-Tuk
NI II-173	rV21 [-n]a	546 3271	aiš liain	na(IGI-TUR-TUR)
538 6222	giš gur ₂ -har-mušen-na	Ni II-131		
Ni I-05		Ni II-135		[gi]š IGI-TUR-[T]UR
Ni II-071		Ni II-154		
Ni II-173				8
	· · ·	547 6234	giš IGI-	NI
539	giš ellag ₂ -du	Ni I-04	rI05'	giš IGI-[
Ni I-05	rIV07' [] ellag ₂ -du	Ni II-033	rII05	giš IGI-NI
Ni II-071	I03' [$el]lag_2-d[u]$	Ni II-126	I01	[] IGI-NI
Ni II-135	I01 [el]lag ₂ -du	Ni II-131		[]-NI
		Ni II-154	rII06'	giš IGI-NI
540	giš ellag ₂ -du-tur-ra			
Ni II-071		547a	giš IGI-	
Ni II-135	I02 [gi]š ellag ₂ -du-tur-ra	Ni II-131	rIO'/'	[]-NI
541	giš šul-ka-tar-ra	548 6235	giš IGI-	ΚΛΚ
Ni I-05	rIV08' [] šul-ka-tar-ra	Ni I-04	-	giš IGI!-K[AK]
Ni II-033	2.3	Ni II-033		[] KAK?
Ni II-033	_	Ni II-033		[] IGI-KAK
Ni II-135		Ni II-131		[]-KAK
Ni II-154	-0-	Ni II-154		giš IGI-NI
	6 · · · · ·			<i>5</i>
541a	giš šul-HAR-tur-ra	549 6237	giš za-a	m-ru-tum
Ni I-05	rIV09' [] šul-HAR-tur-ra	Ni I-04	rI07'	
		Ni II-033	rII07	giš z[a-a]m-ru-tum

Ni II-126	I03	giš za-am-ri-tum	Ni II-108	I01	[] pan
Ni II-154		giš za-am-ru-tum			
Ni II-212	rI02	giš za-mi-ru-t[um]	556 7a049	giš e ₂ -pa	ın
			Ni I-06	rIII06'	[]-pan
550 7a039	_		Ni II-108	I02	[g]iš e ₂ -pan
Ni I-04	rI08'	giš šu-n[ir]			
Ni II-033		giš šu-nir	557 7a052		
Ni II-126		[] šu-nir	Ni I-06	rIII07'	[-p]an
Ni II-154	r1109	giš [š]u?-AŠ-nir	Ni II-108		giš gag-pan
551 6239	giš gid,-	da	Ni II-151	I01	giš gag-pan
Ni I-04	rI09'	giš gid,-da	558	giš gag-	si-sa
Ni II-033		giš gid ₂ -da	Ni I-04	rI16'	[]-si-[
Ni II-126		[] gid ₂ -d[a]	Ni I-06	rIII08'	$[-s]a_2$
	I01	[]-d[a]	Ni II-108		giš gag-si-sa ₂
Ni II-212	rI01	giš gid ₂ -d[a]	Ni II-151		giš gag-si-sa ₂
			Ni P-03	CI01	[ga]g-si-sa ₂
551a	giš lugu	d ₂ -da			
Ni I-04	rI10'	[g]iš lugud ₂ -da	559	giš gag-	
			Ni II-108		giš gag-si-MIN ₃
552 7a066	_		Ni II-151	I03	giš gag-si-eš
Ni I-04	rI11'	giš illar	5.60		
Ni II-126		[il]lar	560 N: H 100	giš eš-ac	
Ni II-161 Ni II-212	I02	[illar giš illar	Ni II-108 Ni II-151	I06 I04	giš eš-ad [gi]š eš-ad
NI 11-212	1103	gis mai	Ni III-131 Ni III-03		g[iš -a]d
552a	oiš illar-	-šu-lugal	Ni P-03	CI02	[] eš-ad
Ni II-033	_	giš []-šu-lugal	1411 03	C102	[] es aa
		9 · [] · · · · · · · · ·	561 6192	giš sa-ac	l
553 7a069			561 6192 Ni II-108	giš sa-ac I07	l giš sa-ad
				•	
553 7a069	giš illar-	-šub-ba	Ni II-108	I07	giš sa-ad
553 7a069 Ni I-04 Ni I-06 Ni II-033	giš illar- rI12' rIII01' rII11	šub-ba giš illar-šub []-šub giš illar-šub-ba	Ni II-108 Ni II-151	I07 I05	giš sa-ad []-ad
553 7a069 Ni I-04 Ni I-06 Ni II-033	giš illar- rI12' rIII01'	šub-ba giš illar-šub []-šub	Ni II-108 Ni II-151 Ni III-03 Ni P-03	I07 I05 I02 CI03	giš sa-ad []-ad giš []-ad giš sa-ad
553 7a069 Ni I-04 Ni I-06 Ni II-033 Ni II-161	giš illar- rI12' rIII01' rII11 I03	šub-ba giš illar-šub []-šub giš illar-šub-ba giš illar-šub	Ni II-108 Ni II-151 Ni III-03 Ni P-03	I07 I05 I02 CI03 giš lib-b	giš sa-ad []-ad giš []-ad giš sa-ad i-da
553 7a069 Ni I-04 Ni I-06 Ni II-033 Ni II-161 554 7a077	giš illar- rI12' rIII01' rII11 I03	šub-ba giš illar-šub []-šub giš illar-šub-ba giš illar-šub	Ni II-108 Ni II-151 Ni III-03 Ni P-03 562 7a243 Ni II-033	I07 I05 I02 CI03 giš lib-b rIII01	giš sa-ad []-ad giš []-ad giš sa-ad i-da [l]ib-bi-d[a
553 7a069 Ni I-04 Ni I-06 Ni II-033 Ni II-161 554 7a077 Ni I-04	giš illar- rI12' rIII01' rII11 I03 giš illar- rI13'	šub-ba giš illar-šub []-šub giš illar-šub-ba giš illar-šub -e-ba-an [il]lar-e ₂ -pa-n[a]	Ni II-108 Ni II-151 Ni III-03 Ni P-03 562 7a243 Ni II-033 Ni II-108	I07 I05 I02 CI03 giš lib-b rIII01 I08	giš sa-ad []-ad giš []-ad giš sa-ad i-da [1]ib-bi-d[a giš lib-bi-da
553 7a069 Ni I-04 Ni I-06 Ni II-033 Ni II-161 554 7a077 Ni I-04 Ni I-06	giš illar- rI12' rIII01' rII11 I03 giš illar- rI13' rIII02'	šub-ba giš illar-šub []-šub giš illar-šub-ba giš illar-šub -e-ba-an [il]lar-e ₂ -pa-n[a] []-e ₂ -pa-an-na	Ni II-108 Ni II-151 Ni III-03 Ni P-03 562 7a243 Ni II-033 Ni II-108 Ni II-151	107 105 102 CI03 giš lib-b rIII01 108 106	giš sa-ad []-ad giš []-ad giš sa-ad i-da [l]ib-bi-d[a giš lib-bi-da []-bi-d[a]
553 7a069 Ni I-04 Ni I-06 Ni II-033 Ni II-161 554 7a077 Ni I-04 Ni I-06 Ni II-033	giš illar- rI12' rIII01' rII11 I03 giš illar- rI13' rIII02' rII12	šub-ba giš illar-šub []-šub giš illar-šub-ba giš illar-šub -e-ba-an [il]lar-e ₂ -pa-n[a] []-e ₂ -pa-an-na giš illar-[Ni II-108 Ni II-151 Ni III-03 Ni P-03 562 7a243 Ni II-033 Ni II-108 Ni II-151 Ni III-03	107 105 102 CI03 giš lib-b rIII01 108 106 103	giš sa-ad []-ad giš []-ad giš sa-ad i-da [l]ib-bi-d[a giš lib-bi-da []-bi-d[a] giš [li]b-bi-da
553 7a069 Ni I-04 Ni I-06 Ni II-033 Ni II-161 554 7a077 Ni I-04 Ni I-06 Ni II-033 Ni II-161	giš illar- rI12' rIII01' rII11 I03 giš illar- rI13' rIII02' rII12 I04	šub-ba giš illar-šub []-šub giš illar-šub-ba giš illar-šub e-ba-an [il]lar-e ₂ -pa-n[a] []-e ₂ -pa-an-na giš illar-[giš illar-e-ba-an	Ni II-108 Ni II-151 Ni III-03 Ni P-03 562 7a243 Ni II-033 Ni II-108 Ni II-151	107 105 102 CI03 giš lib-b rIII01 108 106	giš sa-ad []-ad giš []-ad giš sa-ad i-da [l]ib-bi-d[a giš lib-bi-da []-bi-d[a]
553 7a069 Ni I-04 Ni I-06 Ni II-033 Ni II-161 554 7a077 Ni I-04 Ni I-06 Ni II-033	giš illar- rI12' rIII01' rII11 I03 giš illar- rI13' rIII02' rII12 I04	šub-ba giš illar-šub []-šub giš illar-šub-ba giš illar-šub -e-ba-an [il]lar-e ₂ -pa-n[a] []-e ₂ -pa-an-na giš illar-[Ni II-108 Ni II-151 Ni III-03 Ni P-03 562 7a243 Ni II-033 Ni II-108 Ni II-151 Ni III-03	I07 I05 I02 CI03 giš lib-b rIII01 I08 I06 I03 CI04	giš sa-ad []-ad giš []-ad giš sa-ad i-da [1]ib-bi-d[a giš lib-bi-da []-bi-d[a] giš [li]b-bi-da [] lib-da
553 7a069 Ni I-04 Ni I-06 Ni II-033 Ni II-161 554 7a077 Ni I-04 Ni I-06 Ni II-033 Ni II-161	giš illar- rI12' rIII01' rII11 I03 giš illar- rI13' rIII02' rII12 I04 rI04	šub-ba giš illar-šub []-šub giš illar-šub-ba giš illar-šub e-ba-an [il]lar-e ₂ -pa-n[a] []-e ₂ -pa-an-na giš illar-[giš illar-e-ba-an	Ni II-108 Ni II-151 Ni III-03 Ni P-03 562 7a243 Ni II-033 Ni II-108 Ni II-151 Ni III-03 Ni P-03	I07 I05 I02 CI03 giš lib-b rIII01 I08 I06 I03 CI04 giš ha-b	giš sa-ad []-ad giš []-ad giš sa-ad i-da [1]ib-bi-d[a giš lib-bi-da []-bi-d[a] giš [li]b-bi-da [] lib-da
553 7a069 Ni I-04 Ni I-06 Ni II-033 Ni II-161 554 7a077 Ni I-04 Ni I-06 Ni II-033 Ni II-161 Ni II-212	giš illar- rI12' rIII01' rII11 I03 giš illar- rI13' rIII02' rII12 I04 rI04	šub-ba giš illar-šub []-šub giš illar-šub-ba giš illar-šub -e-ba-an [il]lar-e ₂ -pa-n[a] []-e ₂ -pa-an-na giš illar-[giš illar-e-ba-an [gi]š il[ar]-e-p[a-n]a	Ni II-108 Ni II-151 Ni III-03 Ni P-03 562 7a243 Ni II-033 Ni II-108 Ni II-151 Ni III-03 Ni P-03	I07 I05 I02 CI03 giš lib-b rIII01 I08 I06 I03 CI04 giš ha-b rIII02	giš sa-ad []-ad giš []-ad giš sa-ad i-da [1]ib-bi-d[a giš lib-bi-da []-bi-d[a] giš [li]b-bi-da [] lib-da
553 7a069 Ni I-04 Ni I-06 Ni II-033 Ni II-161 554 7a077 Ni I-04 Ni I-06 Ni II-033 Ni II-161 Ni II-212	giš illar- rI12' rIII01' rII11 I03 giš illar- rI13' rIII02' rII12 I04 rI04	šub-ba giš illar-šub []-šub giš illar-šub-ba giš illar-šub -e-ba-an [il]lar-e ₂ -pa-n[a] []-e ₂ -pa-an-na giš illar-[giš illar-e-ba-an [gi]š il[lar]-e-p[a-n]a	Ni II-108 Ni II-151 Ni III-03 Ni P-03 562 7a243 Ni II-033 Ni II-108 Ni II-151 Ni III-03 Ni P-03	I07 I05 I02 CI03 giš lib-b rIII01 I08 I06 I03 CI04 giš ha-b rIII02	giš sa-ad []-ad giš []-ad giš sa-ad i-da [l]ib-bi-d[a giš lib-bi-da []-bi-d[a] giš [li]b-bi-da [] lib-da u-da giš h[a]-bu-d[a] giš ha-bu-da giš ha-bu-da
553 7a069 Ni I-04 Ni I-06 Ni II-033 Ni II-161 554 7a077 Ni I-04 Ni I-06 Ni II-033 Ni II-161 Ni II-212 554a Ni I-06	giš illar- rI12' rIII01' rII11 I03 giš illar- rI13' rIII02' rII12 I04 rI04 giš [illa] rIII03'	šub-ba giš illar-šub []-šub giš illar-šub-ba giš illar-šub e-ba-an [il]lar-e ₂ -pa-n[a] []-e ₂ -pa-an-na giš illar-[giš illar-e-ba-an [gi]š il[lar]-e-p[a-n]a r-NUN-dili [illa]r-NUN-dili	Ni II-108 Ni II-151 Ni III-03 Ni P-03 562 7a243 Ni II-033 Ni II-108 Ni II-151 Ni III-03 Ni P-03 563 Ni II-033 Ni II-108	I07 I05 I02 CI03 giš lib-b rIII01 I08 I06 I03 CI04 giš ha-b rIII02 I09	giš sa-ad []-ad giš []-ad giš sa-ad i-da [l]ib-bi-d[a giš lib-bi-da []-bi-d[a] giš [li]b-bi-da [] lib-da u-da giš h[a]-bu-d[a] giš ha-bu-da
553 7a069 Ni I-04 Ni I-06 Ni II-033 Ni II-161 554 7a077 Ni I-04 Ni I-06 Ni II-033 Ni II-161 Ni II-212 554a Ni I-06	giš illar- rI12' rIII01' rII11 I03 giš illar- rI13' rIII02' rII12 I04 rI04 giš [illa] rIII03' giš illar- rIII04'	šub-ba giš illar-šub []-šub giš illar-šub-ba giš illar-šub e-ba-an [il]lar-e ₂ -pa-n[a] []-e ₂ -pa-an-na giš illar-[giš illar-e-ba-an [gi]š il[lar]-e-p[a-n]a r-NUN-dili [illa]r-NUN-dili -DUšeššig-DU-a [illa]r-DUšeššig-DU-A	Ni II-108 Ni II-151 Ni III-03 Ni P-03 562 7a243 Ni II-033 Ni II-108 Ni II-151 Ni III-03 Ni P-03 563 Ni II-033 Ni II-108 Ni II-108 Ni III-03	I07 I05 I02 CI03 giš lib-b rIII01 I08 I06 I03 CI04 giš ha-b rIII02 I09 I04 CI05	giš sa-ad []-ad giš []-ad giš []-ad giš sa-ad i-da []ljib-bi-d[a giš lib-bi-da []-bi-d[a] giš [li]b-bi-da [] lib-da u-da giš h[a]-bu-d[a] giš ha-bu-da giš ha-bu-da [] ha-bu-da
553 7a069 Ni I-04 Ni I-06 Ni II-033 Ni II-161 554 7a077 Ni I-04 Ni I-06 Ni II-033 Ni II-161 Ni II-212 554a Ni I-06	giš illar- rI12' rIII01' rII11 I03 giš illar- rI13' rIII02' rII12 I04 rI04 giš [illa] rIII03' giš illar- rIII04'	šub-ba giš illar-šub []-šub giš illar-šub-ba giš illar-šub e-ba-an [il]lar-e ₂ -pa-n[a] []-e ₂ -pa-an-na giš illar-[giš illar-e-ba-an [gi]š il[lar]-e-p[a-n]a r-NUN-dili [illa]r-NUN-dili	Ni II-108 Ni II-151 Ni III-03 Ni P-03 562 7a243 Ni II-033 Ni II-108 Ni II-151 Ni III-03 Ni P-03 563 Ni II-033 Ni II-108 Ni II-108 Ni III-03	107 105 102 CI03 giš lib-b rIII01 108 106 103 CI04 giš ha-b rIII02 109 104 CI05	giš sa-ad []-ad giš []-ad giš []-ad giš sa-ad i-da [1]ib-bi-d[a giš lib-bi-da []-bi-d[a] giš [li]b-bi-da [] lib-da u-da giš h[a]-bu-d[a] giš ha-bu-da [] ha-bu-da [] ha-bu-da
553 7a069 Ni I-04 Ni I-06 Ni II-033 Ni II-161 554 7a077 Ni I-04 Ni I-06 Ni II-033 Ni II-161 Ni II-212 554a Ni I-06 S54b Ni I-06 Ni II-06	giš illar- rI12' rIII01' rII11 I03 giš illar- rI13' rIII02' rII12 I04 rI04 giš [illa] rIII03' giš illar- rIII04' I05	šub-ba giš illar-šub []-šub giš illar-šub-ba giš illar-šub e-ba-an [il]lar-e ₂ -pa-n[a] []-e ₂ -pa-an-na giš illar-[giš illar-e-ba-an [gi]š il[lar]-e-p[a-n]a r-NUN-dili [illa]r-NUN-dili -DUšeššig-DU-a [illa]r-DUšeššig-DU-A giš illar-DU-D[U	Ni II-108 Ni II-151 Ni III-03 Ni P-03 562 7a243 Ni II-033 Ni II-108 Ni II-151 Ni III-03 Ni P-03 563 Ni II-033 Ni II-108 Ni III-03 Ni P-03	107 105 102 CI03 giš lib-b rIII01 108 106 103 CI04 giš ha-b rIII02 109 104 CI05 giš igi-g rIII03	giš sa-ad []-ad giš []-ad giš []-ad giš sa-ad i-da [l]ib-bi-d[a giš lib-bi-da []-bi-d[a] giš [li]b-bi-da [] lib-da u-da giš h[a]-bu-d[a] giš ha-bu-da giš ha-bu-da [] ha-bu-da al giš igi-gal giš igi-gal
553 7a069 Ni I-04 Ni I-06 Ni II-033 Ni II-161 554 7a077 Ni I-04 Ni I-06 Ni II-033 Ni II-161 Ni II-212 554a Ni I-06 554b Ni I-06 Ni II-06	giš illar- rI12' rIII01' rII11 I03 giš illar- rI13' rIII02' rII12 I04 rI04 giš [illa] rIII03' giš illar- rIII04' I05	šub-ba giš illar-šub []-šub giš illar-šub-ba giš illar-šub -e-ba-an [il]lar-e ₂ -pa-n[a] []-e ₂ -pa-an-na giš illar-[giš illar-e-ba-an [gi]š il[lar]-e-p[a-n]a r-NUN-dili [illa]r-NUN-dili -DUšeššig-DU-a [illa]r-DUšeššig-DU-A giš illar-DU-D[U	Ni II-108 Ni II-151 Ni III-03 Ni P-03 562 7a243 Ni II-033 Ni II-108 Ni II-151 Ni III-03 Ni P-03 563 Ni II-033 Ni II-108 Ni III-03 Ni P-03	I07 I05 I02 CI03 giš lib-b rIII01 I08 I06 I03 CI04 giš ha-b rIII02 I09 I04 CI05 giš igi-g rIII03 I10	giš sa-ad []-ad giš []-ad giš sa-ad i-da []]ib-bi-d[a giš lib-bi-da []-bi-d[a] giš [li]b-bi-da [] lib-da u-da giš h[a]-bu-d[a] giš ha-bu-da giš ha-bu-da [] ha-bu-da al giš igi-gal giš igi-gal giš igi-gal
553 7a069 Ni I-04 Ni I-06 Ni II-033 Ni II-161 554 7a077 Ni I-04 Ni I-06 Ni II-033 Ni II-161 Ni II-212 554a Ni I-06 S54b Ni I-06 Ni II-06	giš illar- rI12' rIII01' rII11 I03 giš illar- rI13' rIII02' rII12 I04 rI04 giš [illa] rIII03' giš illar- rIII04' I05	šub-ba giš illar-šub []-šub giš illar-šub-ba giš illar-šub e-ba-an [il]lar-e ₂ -pa-n[a] []-e ₂ -pa-an-na giš illar-[giš illar-e-ba-an [gi]š il[lar]-e-p[a-n]a r-NUN-dili [illa]r-NUN-dili -DUšeššig-DU-a [illa]r-DUšeššig-DU-A giš illar-DU-D[U	Ni II-108 Ni II-151 Ni III-03 Ni P-03 562 7a243 Ni II-033 Ni II-108 Ni II-151 Ni III-03 Ni P-03 563 Ni II-033 Ni II-108 Ni III-03 Ni P-03	I07 I05 I02 CI03 giš lib-b rIII01 I08 I06 I03 CI04 giš ha-b rIII02 I09 I04 CI05 giš igi-g rIII03 I10 I05	giš sa-ad []-ad giš []-ad giš []-ad giš sa-ad i-da []ljib-bi-d[a giš lib-bi-da []-bi-d[a] giš [li]b-bi-da [] lib-da u-da giš h[a]-bu-d[a] giš ha-bu-da giš ha-bu-da [] ha-bu-da al₂ giš igi-gal₂ giš igi-gal₂ giš igi-gal₂ giš igi-mar
553 7a069 Ni I-04 Ni I-06 Ni II-033 Ni II-161 554 7a077 Ni I-04 Ni I-06 Ni II-033 Ni II-161 Ni II-212 554a Ni I-06 S54b Ni I-06 Ni II-06 Ni II-06	giš illar- rI12' rIII01' rII11 I03 giš illar- rI13' rIII02' rII12 I04 rI04 giš [illa] rIII03' giš illar- rIII04' I05 giš LAC rI14'	šub-ba giš illar-šub []-šub giš illar-šub-ba giš illar-šub -e-ba-an [il]lar-e ₂ -pa-n[a] []-e ₂ -pa-an-na giš illar-[giš illar-e-ba-an [gi]š il[lar]-e-p[a-n]a r-NUN-dili [illa]r-NUN-dili -DUšeššig-DU-a [illa]r-DUšeššig-DU-A giš illar-DU-D[U	Ni II-108 Ni II-151 Ni III-03 Ni P-03 562 7a243 Ni II-033 Ni II-108 Ni II-151 Ni III-03 Ni P-03 563 Ni II-033 Ni II-108 Ni III-03 Ni P-03	I07 I05 I02 CI03 giš lib-b rIII01 I08 I06 I03 CI04 giš ha-b rIII02 I09 I04 CI05 giš igi-g rIII03 I10	giš sa-ad []-ad giš []-ad giš sa-ad i-da []]ib-bi-d[a giš lib-bi-da []-bi-d[a] giš [li]b-bi-da [] lib-da u-da giš h[a]-bu-d[a] giš ha-bu-da giš ha-bu-da [] ha-bu-da al giš igi-gal giš igi-gal giš igi-gal
553 7a069 Ni I-04 Ni I-06 Ni II-033 Ni II-161 554 7a077 Ni I-04 Ni I-06 Ni II-033 Ni II-161 Ni II-212 554a Ni I-06 554b Ni I-06 Ni II-06 Si II-06	giš illar- rI12' rIII01' rII11 I03 giš illar- rI13' rIII02' rII12 I04 rI04 giš [illa] rIII03' giš illar- rIII04' I05 giš LAC rI14'	šub-ba giš illar-šub []-šub giš illar-šub-ba giš illar-šub e-ba-an [il]lar-e ₂ -pa-n[a] []-e ₂ -pa-an-na giš illar-[giš illar-e-ba-an [gi]š il[lar]-e-p[a-n]a r-NUN-dili [illa]r-NUN-dili -DUšeššig-DU-a [illa]r-DUšeššig-DU-A giš illar-DU-D[U GAB-illar [] LAGAB-il[lar]	Ni II-108 Ni II-151 Ni III-03 Ni P-03 562 7a243 Ni II-033 Ni II-108 Ni II-151 Ni III-03 Ni P-03 563 Ni II-108 Ni III-03 Ni P-03 564 7a105 Ni II-033 Ni II-108 Ni II-108 Ni III-03 Ni II-108	I07 I05 I02 CI03 giš lib-b rIII01 I08 I06 I03 CI04 giš ha-b rIII02 I09 I04 CI05 giš igi-g rIII03 I10 I05 CI06	giš sa-ad []-ad giš []-ad giš []-ad giš sa-ad i-da []ljib-bi-d[a giš lib-bi-da []-bi-d[a] giš [li]b-bi-da [] lib-da u-da giš h[a]-bu-d[a] giš ha-bu-da giš ha-bu-da [] ha-bu-da al₂ giš igi-gal₂ giš igi-gal₂ giš igi-gal₂ giš igi-mar
553 7a069 Ni I-04 Ni I-06 Ni II-033 Ni II-161 554 7a077 Ni I-04 Ni I-06 Ni II-033 Ni II-161 Ni II-212 554a Ni I-06 S54b Ni I-06 Ni II-06 Ni II-06	giš illar- rI12' rIII01' rII11 I03 giš illar- rI13' rIII02' rII12 I04 rI04 giš [illa] rIII03' giš illar- rIII04' I05 giš LAC rI14'	šub-ba giš illar-šub []-šub giš illar-šub-ba giš illar-šub -e-ba-an [il]lar-e ₂ -pa-n[a] []-e ₂ -pa-an-na giš illar-[giš illar-e-ba-an [gi]š il[lar]-e-p[a-n]a r-NUN-dili [illa]r-NUN-dili -DUšeššig-DU-a [illa]r-DUšeššig-DU-A giš illar-DU-D[U	Ni II-108 Ni II-151 Ni III-03 Ni P-03 562 7a243 Ni II-033 Ni II-108 Ni II-151 Ni III-03 Ni P-03 563 Ni II-033 Ni II-108 Ni III-03 Ni P-03	I07 I05 I02 CI03 giš lib-b rIII01 I08 I06 I03 CI04 giš ha-b rIII02 I09 I04 CI05 giš igi-g rIII03 I10 I05 CI06 giš gin ₂	giš sa-ad []-ad giš []-ad giš []-ad giš sa-ad i-da []ljib-bi-d[a giš lib-bi-da []-bi-d[a] giš [li]b-bi-da [] lib-da u-da giš h[a]-bu-d[a] giš ha-bu-da giš ha-bu-da [] ha-bu-da al₂ giš igi-gal₂ giš igi-gal₂ giš igi-gal₂ giš igi-mar

Ni II-108	I11	giš tun ₃	567 6227	giš aga	
Ni III-03	I06	giš tun ₃	Ni II-033		giš a[ga]
		<i>3</i>	Ni II-042		giš [
566 6233	giš gin ₂ -	sal	Ni II-108		giš aga
Ni II-033		giš gin ₂ -sal?	Ni II-180		giš a[ga]
Ni II-042		giš g[in ₂ -	Ni III-03	I07	giš aga
Ni II-108		giš gin ₂ -min ₃	- 1.5 - 2.5		88
Ni II-180		[g]iš gin ₂ -[568 6228	giš aga-	GIN ₂ -ma
			Ni II-042		giš aga-GI[N ₂ -
			Ni II-108		giš aga-ga ₂
			Ni II-180		giš aga-[
			Ni II-246	I01'	[a]ga-GI[N ₂ -
			Ni III-03	I08	giš [ag]a-GIN ₂ -ma
					0 1 01 ₂
			569 6229	giš aga-	šilig-ga
			Ni II-042		[gi]š aga-šili[g-
			Ni II-108	I15	giš aga-šilig-ga
			Ni II-180	I02'	giš aga-šilig-g[a]
			Ni II-246	I02'	[] aga-šili[g-
			Ni III-03	I09	giš aga-šilig-ga-ga
			569a	giš aga	AŠ-GAR
			Ni II-108		giš aga-AŠ-GAR
			570	giš aga-	e-da?
			Ni II-033		giš aga-e-da?
			Ni II-246		giš aga-e?-[
			571	giš U ₂ -e-	-[
			Ni II-042	-	giš U ₂ -e-[
			Ni II-154		[] KID-[
			Ni II-246		giš U ₂ -[
			1111210	10.	8.0 02 [
			572	giš KID	-a ₂ -gar
				rIII09	giš KID-aš ₂ ?-gar
			Ni II-042	I08'	[g]iš KID-[
			Ni II-154		giš KID-a ₂ -g[ar]
			Ni II-180	I05'	giš KID-a ₂ -[
			573	giš KID	-tukul-mah
			Ni II-033	-	giš KID-tukul-mah
			Ni II-154		giš KID-tukul-mah
			574	giš KID	-dim
			Ni II-154		giš KID-dim
			Ni III-03	I10	giš KID-di[m]
			575	giš KID	-dim-[
			Ni II-131		giš K[ID
			Ni II-136		[-d]a
			Ni II-154		giš KID-dim-[
			576	வ்ட்டி எ	akarl
			Ni II-131	giš [u ₄ -s	
			181 11-131	11103	giš [

577		[u ₄ -sakar]	Ni U-04	rI04'	giš mar-za[bar]
Ni II-131	rII04'	giš gag-[Ni U-15	rI04'	giš mar-za[bar]
				~	
578 7a116			589	giš ŠID-	
Ni II-131	rII05'	giš ni ₃ -[Ni II-033	rIV01	[] ŠID-mar
Ni II-136	I02'	giš n[i ₃]-sakar	Ni II-169	I01	giš ŠI[D-
Ni II-154	rIII06'	giš ni ₃ -sakar	Ni U-04	rI05'	giš ŠID-[
579 7a118	giš ni ₃ -s	akar-bur ₃ -bur ₃	590 7b030	giš eme-	-mar
Ni II-131	rII06'	giš ni ₃ -s[akar-	Ni II-033	rIV02	giš [e]me-mar
Ni II-136	I03'	= -	Ni II-169	I02	giš eme-[
Ni II-154	rIII07'	giš ni ₃ -sakar-bur ₃ -bur ₃	Ni U-04	rI06'	giš eme-[
			Ni U-15	rI05'	giš eme-ma[r
580 7b001	giš mar				
Ni II-131		giš [591 7b033	giš kul-ı	mar
Ni II-136		giš mar	Ni II-033		
Ni II-154		giš mar	Ni U-04	rI07'	giš kul-[
Ni II-258		[] mar	Ni U-15	rI06'	giš kul-mar
NI II-230	101	[] mar	141 0-13	1100	gis Kui-mai
581 7b010	aič mar.	Šu	592 6058	σίč ΒΔΓ)
Ni II-131	-	giš ma[r-	Ni II-033		giš BAD
Ni II-131		giš mar-šu	Ni II-169		giš BAD-[
Ni II-154			Ni II-109		giš BAD-į giš BAD
Ni II-154 Ni II-258		giš mar-šu	NI II-270	11101	gis DAD
NI II-236	102	gis mar-su	593 6059	αίΧ D Λ Γ	`
500 7h010	aix man	nindo	Ni II-033	-	
582 7b012	-				giš BAD
Ni II-131		g[iš] m[ar-	Ni II-075		giš [
Ni II-136			Ni II-276		giš BAD
Ni II-154			Ni U-04	rI09'	giš B[AD
Ni II-258	103	giš mar-ninda	7 04 5050		
500	• •		594 6060	giš BAI	
583		-ninda-sig ₅	Ni II-033		giš BAD
Ni II-136		giš mar-ninda-sig ₅	Ni II-075		giš [
Ni II-154	rIII11'	giš mar-ninda-sig ₅	Ni II-276		giš BAD
			Ni U-04	rI09'	giš BAD
584 7b014					
Ni II-136	I08'	giš mar-nig ₂ -sur-ra	595 7a145		
Ni II-154	rIII12'	[-r]a	Ni II-033	rIV07	giš dag-si
Ni II-258	I04	giš mar-nig ₂ -sur-r[a]	Ni II-075	rI03'	giš da[g-
			Ni II-276	rII04'	[]-si
585 7b026	giš mar-	-im-ma	Ni U-04	rI11'	giš dag-[
Ni II-258	I05	giš mar-im-ma			
			596 7a147	giš dag-	si-e-ba-na
586 7b005	giš mar-	še-bad	Ni II-033	rIV08	giš dag-s[i]-e-b[a-n]a
Ni II-258	I06	giš mar-[š]e-bad	Ni II-075	rI04'	
		giš mar-še-bad	Ni II-169	I07	giš dag-[
Ni U-04			Ni U-04		
Ni U-15		giš mar-[Ni U-16		[gi]š d[ag]-s[i-
					10 1 1 01 1
587	giš mar-	-še-du ₃	597 7b039	giš balas	g
Ni IV-15	-	giš mar-še-du ₃	Ni II-033		giš [b]alag
Ni U-04		giš ma[r	Ni II-075		giš [
Ni U-15	rI03'	giš mar-še-[Ni II-169		[g]iš ba[lag?-
			Ni U-16		giš [
588	giš mar-	-zabar		-	U L
	o				

598 7b040	giš balas	g-di			
Ni II-075	-	giš bala[g-	610 7b044	giš za,-r	ni_2
	I03'	giš balag-d[i]	Ni I-04	rII10'	$[-m]i_2$
1110 10	100	Sio outug u[i]	Ni II-064		giš za ₃ -[
599	giš a ₂ -ba	alao	Ni IV-25		giš za ₃ -[
Ni II-033		giš a ₂ -balag	Ni P-03	DI01	giš za ₃ -mi ₂
Ni II-075		giš a ₂ -[1411 03	Dioi	S15 243 1111 ₂
Ni II-128		$\begin{bmatrix} a_2 - balag \end{bmatrix}$	611	giš kul-z	79 -mi
Ni U-16		giš a ₂ -[Ni II-064		giš kul-[
141 0 10	104	513 u ₂ [Ni IV-25		giš kul-za ₃ -[
600 7b062	oič a ₋1a		Ni P-03	DI02	giš kul-za ₃ -mi,
Ni II-064		² giš a ₂ -[1411 03	D102	Sis Kui Zu ₃ iiii ₂
Ni II-128		giš a ₂ -la ₂	612 7b050	aiš dub-	.79 -mi
Ni U-16		giš a_2 - $1a_2$ giš a_2 -[Ni II-064		giš dub-[
NI 0-10	103	g13 a ₂ -[Ni P-03	DI03	giš dub-za ₃ -mi ₂
601 7b063	gič al ge	n r	NI F-03	D103	gis duo-za ₃ -mi ₂
Ni II-064		giš al-gar	613	aiš tiaid	lu(ŠA₃/DI-TAR)
Ni II-128	103	giš al-gar	Ni II-064		giš ŠA ₃ -[
coo 71 050	1		Ni P-03	DI04	giš DI-TAR
602 7b059			c1.4		
Ni I-04	rII01'	- 0 /	614	-	lu-kaskal-la
Ni II-064		giš al-gar-sur ₉ -a	Ni II-064		giš ŠA ₃ -[
Ni II-128		giš al-gar-sur ₉	Ni II-076		giš DI-TAR-kas[kal-
Ni U-16	I06'	[] a ₂ -gar-[Ni P-01	FI01'	[]-TAR-X
			Ni P-03	DI05	[gi]š DI-TAR-kaskal-la
603 7b074					
Ni I-04	rII02'	[s]a-bi ₂ -tum	615		lu-sa-III
Ni II-064	rII05'	giš sa-bi ₂ -tum	Ni II-076	I02'	giš DI-TAR-sa-I[II]
Ni II-128	I05'	giš sa-bi ₂ -tum	Ni P-01	FI03'	[-s]a-a
Ni U-16	I07'	[]-bi ₂ -[Ni P-03	DI06	[] DI-TAR-sa-III
604 7b077	giš mi-r	itum	616	giš tigid	lu-NIM-ma
Ni I-04	rII03'	[m]i-ri ₂ -tum	Ni II-076		giš DI-TAR-NIM-ma
Ni II-064		giš mi-ri ₂ -tum	Ni P-01	FI02'	[NI]M-ma
Ni U-16	I08'	$[m]i-r[i_2-$	Ni P-03	DI07	[] DI-TAR-NIM-ma
141 0-10	100	[III]I-I[I ₂ -	1111-03	Dio	
605 7b079	giš ur-za	a-ba ₄ -ba	617 7b117	giš gu ₃ -c	di
Ni I-04	rII05'	[]-bi ₂	Ni II-075	rII01'	$gi[\S] g[u_3]-d[i]$
Ni II-064	rII07'	giš ur-za-ba₄-ba	Ni II-076	I04'	giš SAG-di
			Ni P-01	FI04'	[]-di
606 7b086	giš ur-g	u-la	Ni P-03	DI08	[g]u ₃ -di
Ni I-04		[]-gu-la	Ni U-15	rII01'	[] gu ₃ -[]
Ni II-064		gi[š]-gu-la			
		0 t 10	618 7b126	giš du₂-a	a
607 7b055	giš h[ar]	l-har	Ni II-075		giš du ₃ -a
Ni I-04		[]-har	Ni II-076		giš du ₃ -a
Ni II-064		giš h[ar-	Ni P-01	FI05'	[]-a
	,	8[Ni P-03	DI09	[d]u ₃ -a
608	giš nig	har-mu[šen]	Ni U-15	rII02'	[] du ₃ []
Ni I-04	rII08'		141 6 15	11102	[] GG3 []
Ni II-04			619	giš šu-k	ar
141 11-004	11110	515 III 52 II al - III al Scii j	Ni II-064		
609	aič [] a	al 9	Ni II-004 Ni II-075		giš šu-kar ₂
Ni I-04	giš []-g rII09'		Ni II-075 Ni II-076		=
Ni II-04 Ni II-064			Ni II-076 Ni P-01	FI06'	giš šu-kar ₂ []-kar ₂
111 11-004	11111	giš X [101 F - U1	1.100	[]- K ai ₂

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Ni P-03
             DI10
                                                                  Ni U-04
                       [ ] X-kar<sub>2</sub>
                                                                             rII02'
                                                                                        g[iš g]a-an-nu-um-ga
 Ni U-15
             rII03'
                       giš šu-[
                                                                627 7a129 giš ga-an-nu-um-kaš
620
              giš šu
                                                                  Ni II-033 I05'
                                                                                        giš ga-nu-um-kaš
 Ni U-15
             rII04'
                                                                  Ni II-064 rIII08'
                       giš šu
                                                                                        [gi]š ga-an-nu-um-k[aš]
                                                                  Ni II-075 rII10'
                                                                                        giš ga-nu-um-kaš
621 7a134 giš ebir
                                                                  Ni II-087
                                                                              I06'
                                                                                        giš ga-nu-um-kaš
 Ni II-064 rIII02'
                                                                  Ni U-04
                                                                              rII03'
                       giš ebir
                                                                                        g[iš
                                                                                              ]-nu-um-kaš
 Ni II-075 rII04'
                       giš ebir
 Ni II-076 I07'
                       giš ebir
                                                                627a
                                                                              giš DUG-DUG-imin-bi
                                                                  Ni II-118 rII05'
                                                                                        giš DUG-DUG-imin-bi
 Ni II-087 I01'
                       giš ebir
             FI07'
 Ni P-01
                       [] ebir
 Ni U-15
             rII05'
                                                                628 7a139 giš DUG-gub
                       giš ebir
                                                                  Ni II-033 I06'
                                                                                        giš DUG-gub
622
              giš ebir-a
                                                                  Ni II-064 rIII09'
                                                                                        giš DU[G]-KIB
 Ni II-033 I01'
                                                                  Ni II-087 I07'
                                                                                        giš DUG-gub
                       g[iš]-a
 Ni II-064 rIII03'
                       giš ebir-a!
                                                                  Ni II-102 I01
                                                                                        giš DUG-gub
                                                                  Ni II-118 rII06'
 Ni II-075 rII05'
                       giš [ ]-a
                                                                                        giš DU[G]-gub
 Ni II-076 I08'
                                                                  Ni U-04
                                                                              rII04'
                                                                                        g[iš D]UG-gub
                       giš ebir-a
 Ni II-087 I02'
                       giš ebir-[
 Ni P-01
             FI08'
                                                                629 7a141 giš zabar-gub
                       ſ
                           ]-a
                                                                              rII02'E [ za]bar-gub
 Ni U-15
             rII06'
                       giš ebir-a
                                                                  Ni I-10
                                                                  Ni II-033 I07'
                                                                                        giš zabar-gub
623 7a135 giš ebir-kaš
                                                                  Ni II-064 rIII10'
                                                                                        giš UD-BAR-[gu]b?
 Ni II-033 I02'
                       giš ebir-kaš
                                                                  Ni II-102 I02
                                                                                        giš zabar-gub
 Ni II-064 rIII04'
                                                                  Ni II-118 rII07'
                       giš ebir-kaš
                                                                                        giš zabar-gub
 Ni II-076 I09'
                                                                  Ni U-04
                                                                              rII05'
                       giš ebir-kaš
                                                                                        [ za]bar-gub
 Ni II-087 I03'
                       giš ebir-[
 Ni II-118 rII01'
                       giš ebir-kaš
                                                                630
                                                                              giš ma<sub>2</sub>-gaz
                                                                              rII03'E giš m[a<sub>2</sub>]-gaz
 Ni U-15
             rII07'
                                                                  Ni I-10
                       giš ebir-kaš
                                                                  Ni II-033 I08'
                                                                                        giš ma<sub>2</sub>-gaz
624 7a128 giš ga-an-nu-um
                                                                  Ni II-064 rIII11'
                                                                                       giš ma<sub>2</sub>-[ga]z
 Ni II-033 I03'
                                                                  Ni II-102 I03
                       giš ga-nu-um
                                                                                        giš ma<sub>2</sub>-gaz
 Ni II-064 rIII05'
                                                                  Ni II-118 rII08'
                       [gi]š ga-an-nu-um
                                                                                        giš SUR-gaz
 Ni II-075 rII07'
                             -u]m
                                                                  Ni U-04
                                                                              rII06'
                                                                                        giš ma<sub>2</sub>-gaz
                       ſ
 Ni II-076 I10'
                       giš ga-an-nu-um
 Ni II-087 I04'
                                                                631
                                                                              giš ma<sub>2</sub>-gaz-bur<sub>3</sub>-bur<sub>3</sub>
                       giš ga-nu-u[m]
 Ni II-118 rII02'
                       giš ga-nu-um
                                                                  Ni I-10
                                                                              rII04'E giš ma<sub>2</sub>-[ga]z-bur<sub>3</sub>-bur<sub>3</sub>
 Ni U-15
             rII08'
                                                                  Ni II-064 rIII12'
                                                                                       giš ma<sub>2</sub>-gaz-bur<sub>3</sub>-bur<sub>3</sub>
                       giš ga-nu-um
                                                                  Ni II-102 I04
                                                                                        giš ma<sub>2</sub>-gaz-bur<sub>3</sub>-bur<sub>3</sub>
625 7a129 giš ga-an-nu-um-a
                                                                  Ni II-118 rII09'
                                                                                        g[iš] SUR-gaz-bur<sub>3</sub>-bur<sub>3</sub>
 Ni II-033 I04'
                       giš ga-nu-um-a
                                                                  Ni U-04
                                                                              rII07'
                                                                                        giš ma<sub>2</sub>-gaz-bur<sub>3</sub>-kur
 Ni II-064 rIII06'
                       [gi]š ga-an-nu-um-a
                                                                632 7b037 giš in-nu-šu-gur<sub>10</sub>-a
 Ni II-075 rII08'
                             ]-um-a
 Ni II-076 I11'
                                                                  Ni I-10
                                                                              rII05'E giš in-[ š]u-gur<sub>10</sub>-a
                       giš ga-an-nu-um-a
 Ni II-087 I05'
                       giš ga-nu-um-a
                                                                  Ni II-102 I05
                                                                                        [gi]š in-nu-šu-gur<sub>15</sub>(UR<sub>4</sub>)-a
 Ni II-118 rII03'
                       giš ga-nu-um-a
                                                                  Ni II-118 rII10'
                                                                                           -n]u-šu-gur<sub>10</sub>-a
                                                                                        Γ
             rII01'
                                                                  Ni U-04
                                                                              rII08'
 Ni U-04
                          g]a-an-nu-um-a
                                                                                       [gi]š in-nu-šu-g[ur<sub>10</sub>]-a
                       [
 Ni U-15
             rII09'
                       ſ
                             -u]m-a
                                                                633
                                                                              giš pap-hal-la
626 7a129 giš ga-an-nu-um-ga
                                                                  Ni I-10
                                                                              rII06'E giš pap-hal-la
 Ni II-064 rIII07'
                                                                  Ni II-102 I06
                       [] ga-an-nu-um-ga
                                                                                        [ ] pap-hal-la
 Ni II-075 rII09'
                       [ g]a-nu-um-ga
                                                                  Ni II-118 rII11'
                                                                                            ]-l[a?]
 Ni II-076 I12'
                       [ -a]n-[
                                                                  Ni U-04
                                                                             rII09'
                                                                                        ſ
                                                                                            ]-AN-la
 Ni II-118 rII04'
                       giš ga-nu-um-g[a]
```

624 70000	aiš aud	si dili	Ni I-10	rII16'	[alič ur. tol [
634 7a088 Ni I-10	rII07'	giš gud-si-dili	Ni II-10		[g]iš ur_2 -tal ₂ -[giš ur_2 -tal ₂ -1[a]
Ni II-10 Ni II-064			NI II-139	1109	gis ur ₂ -tar ₂ -r[a]
		giš gud-si-dili	645 4410	aix aical	
Ni II-102 Ni U-04		[] gud-si-dili []-si-dili	645 4410	giš gisal rII17'	
NI U-04	ши	[]-SI-dill	Ni I-10	T111 /	giš gisal
635 7a090	aiš 711 -	and-ci-dili	646 4411	giš gisal	_č11
Ni I-10	rII08'	giš zu ₂ -gud-si-d[ili]	Ni I-10	rII18'	giš gisal-šu
Ni II-064		giš zu ₂ -si-dili	Ni U-28	IIO1'	[gi]š gi[sal-
Ni II-102		$[z]u_2$ -si-dili	141 0-20	1101	[gi]s gi[sai-
Ni U-04	rII11'	[gi]š z[u ₂]-gud-si-dili	647 4413	giš gisal	-anše
141 0 04	11111		Ni I-10	rII19'	giš gisal-anše
636	oiš eme	-gud-si-dili	Ni U-28	II02'	[g]iš gisal-an[še]
Ni I-10	rII09'	giš eme-gud-si-dili	141 6 20	1102	
Ni II-064		giš eme-si-dili	648	giš kab	
Ni II-102		[em]e-gud-si-dili	Ni I-10	rII20'	giš kab
Ni II-139		giš e[me-	111110	11120	S13 Ku0
Ni II-234		[] e[me-	649	giš kab-	air
Ni U-04		g[iš em]e-gud-si-d[ili]	Ni I-10	rII21'	giš kab-gir ₂
NI U-04	11112	g[is em]e-gud-si-u[m]	Ni II-286		giš kab-gir ₂
637 72001	aič mur	gu-gud-si-dili	NI 11-200	102	gis kau-gii ₂
Ni I-10	rII10'	giš murgu-gud-si-dili	650	aič kah	UR ₄ -LAGAB
Ni II-102		[murg]u-gud-si-dili	Ni I-10	rII22'	giš kab-UR ₄ -LAGAB
Ni II-102		giš murgu gud-[141 1-10	11122	gis kau-UK ₄ -LAGAD
Ni II-234		giš murgu-g[ud-	651	oič kah-	nig ₂ -kiši ₁₆
Ni U-04		[g]ud-si-d[ili]	Ni I-10	rII23'	giš kab-nig ₂ -kiši ₁₆
NI U-04	11113	[gjud-si-u[iii]	NI I-10	11123	gis kau-inig ₂ -kisi ₁₆
638 7a092	oiš oešr	ou ₂ -gud-si-dili	652	giš gišga	al
Ni I-10	rII11'	giš ŠU-DIM ₄ -gud-si-dili	Ni I-10	rII24'	giš gišgal
Ni II-064		giš šu-dim-dim	Ni II-132		[g]iš giš[gal]
Ni II-102		[]-gud-si-dili	1411 132	102	[8]19 819[811]
Ni II-234		giš ŠU-D[IM ₄ -g]ud-s[i-	653 7a142	oiš halh	a
1111 23 1	1105	Sis So Dinia Siau Si	Ni I-10	rII25'	giš halba₅
639 7a081	giš zeı	าล	Ni II-132		giš hal-ME-a
Ni I-10	rII12'	giš ze ₂ -na	11111132	103	gis nui mie u
Ni II-064		giš ze ₂ -na	654	giš tir-u	998
Ni II-139		giš ze ₂ -na	Ni I-10	rII26'	giš tir-ug _s -g[a]
Ni IV-24		C z			giš tir-ug ₅ -ga
1,111, 2.	01	g10 20 ₂ 110	1,111 102	10.	819 111 1181 811
640 7a083	giš ze,-ı	na-mah	655	giš pa-g	ibil-ug₅-g[a]
		giš ze ₂ -na-mah	Ni I-10		giš pa-gibil-ug ₅ -g[a]
Ni II-064					0 1 0 0,000
Ni II-139			655a	[g]iš pa-	·kud-ug₅-ga
					[g]iš pa-kud-ug₅-ga
641	giš ur ₂ -7	ΓUG_2			103 1 03 0
		giš [u]r ₂ -[656	giš ni[no	da,]
		giš ur ₂ -TUG ₂	Ni I-10	-	giš n[inda ₂]
		2 2			giš ni[nda ₂]
642	giš ur ₂ -e	eš ₅			C
		giš ur ₂ -eš ₅	657	giš nind	\mathbf{a}_2
					giš ninda ₂
643	giš ur ₂ -l	immu			
Ni II-139		giš ur ₂ -limmu	658	giš en-n	inda ₂
			Ni I-10	rII30'	giš en-[
644	giš ur ₂ -t	al ₂ -la	Ni II-132	I08'	giš en-ninda ₂
					=

		Ni II-002	rI15'	giš šu-[
662	[giš] gir ₃ -re			
Ni II-139	rII01 [] gir ₃ -re	682 7a209		
		Ni I-10		
663 6046	giš KUR	Ni II-002	rI16'	giš kun-[
Ni II-139				
Ni U-04	rIII03' [] KUR	683 7a210		
		Ni I-10	rIII11'	
664 6047	giš KUR	Ni II-002	rI17'	giš nig ₂ -[
Ni II-139				
Ni U-04	rIII04' [] KUR	684	giš šaga	-
		Ni I-10	rIII12'	giš šagan-l[a ₂]
665 6048	giš KUR	Ni II-002	r118'	giš šagan-[
Ni II-139		60 .	••	11.11 03
Ni U-04	rIII05' [] KUR	685	giš u ₃ -ni	
666 6050	'V 77 1 T	Ni I-10	rIII13'	
666 6052		Ni II-002	r119'	giš šu-nu-[
N1 II-139	rII05 [] KAL	606	·v r	
((7, (05)	. 'Y IZ A I	686	giš [. 'Y F
667 6053		Ni I-10	rIII14'	giš [
N1 II-139	rII06 [] KAL	Ni II-002	r120	giš [
669 6051	~:× V A I	687	aix im?	
668 6054 N: H 120	rII07 [K]AL		giš im?	aix im 9
NI II-139	IIIU/ [K]AL	Ni I-10 Ni II-002	rIII15'	giš im? giš [
673	giš gi-dub	NI 11-002	1121	gis [
Ni I-10	rIII01' [g]i-dub	688	giš ur ₂	
Ni II-002		Ni I-10	rIII16'	giš ur ₂
11111-002	$gis gi[u_2]$	Ni P-01	FII02'	giš $\mathbf{u}[r_2]$
674	giš KA-gud	1411-01	11102	gis u[i2]
Ni I-10	rIII02' giš KA-gud	689	giš dub-	ba?
Ni II-002		Ni I-10	-	giš [d]ub
11111002	gis III (Ni II-002		giš dub-[
675	giš LUM-LUM-anše	Ni P-01		giš du ₁₀ -ba
Ni I-10	rIII03' giš LUM-LUM-anše			8-2 2-10 2-11
Ni II-002	<u> </u>	690	giš šu	
	6	Ni I-10	rIII18'	giš šu
676 3476	giš NIM	Ni II-002	rI23'	giš [
Ni I-10	rIII04' giš NIM	Ni P-01	FII04'	giš šu
	-			
677	giš NIM	691 7b230	giš gu ₂	
Ni I-10	rIII05' giš NIM	Ni I-10	rIII19'	giš gu ₂
		Ni P-01	FII05'	giš gu ₂
678	giš NIM			
Ni I-10	rIII06' giš NIM	692		-bal-gu ₇ -a
		Ni I-10	rIII20'	giš an-ti-bal-g[u ₇]-a
679 3477	giš NIM-kur	Ni II-002		giš an-bal-gu ₇ -[a]
Ni I-10	rIII07' giš NIM-kur	Ni P-01	FII06'	giš an-ti-bal-g[u ₇]-a
Ni II-002	rI13' giš NI[M-	20 5 =	• • •	
		693 7a119		•• •
680 7b141		Ni I-10	rIII21'	giš dur
Ni I-10	rIII08' giš rab	Ni I-11	I03'	giš d[ur?-
CO1 71 100	-:Y Y., 1.,	Ni II-002		giš d[ur]
681 7b139		Ni II-073		giš d[ur]
Ni I-10	rIII09' giš šu-lu ₂	Ni P-01	FII07'	giš dur

694 7a120 giš dur-si Ni I-10 rIII22' giš dur-si I04' Ni I-11 giš dur-[Ni II-002 rI27' giš dur-[si] Ni II-073 I02 giš dur-si Ni P-01 FII08' giš dur-si 695 7a121 giš dur-peš-peš Ni I-10 rIII23' giš dur-peš-peš Ni I-11 I05' giš peš-[Ni II-002 rI28' giš dur-peš-[Ni II-073 I03 giš dur-peš-peš Ni P-01 FII09' giš dur-peš-peš 696 7b152 giš alan Ni I-10 rIII24' giš alan Ni I-11 I06' giš alan-[Ni II-002 rI29' giš alan Ni II-073 I04 giš a[lan] Ni P-01 FII10' [gi]š al[an] 697 7b159 giš az Ni I-10 rIII25' giš az Ni II-073 I05 giš a[z] 698 7b161 giš pirig Ni I-10 rIII26' giš pirig 699 giš pirig-tur Ni I-10 rIII27' giš pirig-tur Ni II-073 I07 giš pi[rig-700 giš ur Ni I-10 rIII28' giš ur 701 giš za-na Ni I-10 rIII29' giš za-na Ni II-254 rII05' [] za-na 702 giš e₂-za-na rIII30' giš e₂-za-na Ni I-10 Ni II-254 rII06' [gi]š e₂-za-na 703 giš nam-ra Ni I-10 rIII31' giš nam-ra 704 7b304 giš ša-u₁₈-ša Ni I-10 rIII32' giš ša-u₁₈-ša Ni II-002 rII01' [

705 7b307 giš ar-gibil₂

Ni II-002 rII02'

Ni I-10 rIII33' giš ar-gibil₂

[a]r-gibil₂

706 7b312 giš šu-nigin₂-na Ni I-10 rIII34' giš šu-nigin₂-na

5.5 Non-Standard Nippur Texts

Most of the tablets edited in this section have been included in the score (§5.3), but could not be adequately represented that way because of smaller or larger deviations from the standard text. In the editions below items are preceded by three numbers. The first two refer to the corresponding line in the standard Nippur text and in first millennium ur₅-ra. Thus the number 332 5023 means: line 332 in the reconstructed Nippur text, corresponding to line 23 of ur₅-ra 5. The next number identifies the column and line number on the tablet.

Ni I-02 N 1465 + N 1500 (+) N 6125

Ni I-02 has a deviant version of the section ^{giš}gigir (obverse column I). Obverse column II and reverse column I preserve items from the section 'doors and locks'. As far as it is preserved this section follows the common Nippur text. Reverse II has ^{giš}apin (plough) items, but almost nothing is preserved. Only the ^{giš}gigir section is edited here.

```
I01'
                                     ]-gigir
               I02'
                                     ]-gigir
               I03'
                                   ] x-gigir
332 5023
               I04'
                                  g]i<sub>4</sub>-gigir
345
               I05'
                                g]ab-šu<sub>2</sub>-gigir
               I06'
      5022
                                a]d-uš-gigir
               I07'
                                ]-gigir
338 5045
               I08'
                                ]-mud-gigir
               109'
                             [] e<sub>2</sub>?-usan<sub>3</sub>-amar-gigir
333 5047
               I10'
                             [ ] su-din-gigir
               I11'
                             [gi]š hur-zi-pa-ag,-gigir
340 5049
               I12'
                             [ ] šudul-gigir
```

Commentary to Ni I-02

I11' The entry ^{gis}hur-zi-pa-ag-gigir means 'a hole for breathing in a chariot', which is otherwise unknown to me.

Ni II-048 CBS 06496

The reverse of Ni II-048 has a version of the section ^{giš}ig, which is at variance with the common Nippur text. The obverse (^{giš}gu-za) is not edited here.

```
390 5218 rI01' [ ] ig-maš-[
rI02' giš ig-giš X [
5238 rI03' giš ig-<sup>giš</sup> nimbar
391 5251a rI04' giš ig-u<sub>3</sub>?-ma?
396 5247 rI05' giš ig-ka<sub>2</sub>-gal?-x
395 5250 rI06' [ i]g k[a<sub>2</sub>]-a[n]-a[n]
```

Ni II-104 CBS 06459

Ni II-104 not only has numerous items that are missing from the standard text, but also has a sequence of sections that is unlike any other Nippur example. Moreover, the rounded left edge is unusual for Nippur type II tablets. It is very possible that the tablet either comes from elsewhere, or was made and inscribed by someone raised in another scribal tradition. It should be noted, however, that the obverse exercise, a list of field names, does not depart from the common Nippur text (see *MSL* 11, p.96 L). In places the tablet is difficult to read. Since parallels are of little help here, there remain some uncertainties in reading. The tablet is not included in the score in §5.4. It is assumed that the columns run from left to right. In all versions of the giš list the section ^{giš}gu-za follows almost immediately after the trees and should, therefore, precede the other sections included here. Since the text does not follow any known version, this may well be incorrect.

```
Ni II-104
                rI01'
                             giš X
                             giš gu-[
                rI02'
                             giš gu-za-X
                rI03'
                rI04'
                             giš g[u]-z[a]-X
                rI05'
                             giš [g]u-za-lugal?
                             giš g[u- ]-X-DU?
                rI06'
                rI07-09'
                             traces only
                rI10'
                             giš gu-za-gar-ra
                             giš g[u- ]-dingir-ra
                rI11'
   176 4116
                rI12'
                             giš gu-za-X-SAR-e?-du-a
   181 4100
                rI13'
                             giš gu-za-ma,-lah,
  179 4098
                rI14'
                             giš gu-ma,-na(sic!)
  184 4082
                rI15'
                             giš gu-za-munus
  183 4081
                rI16'
                             giš gu-za-nita
                rI17'
                                   ]-iti?-m[a]
                             four lines with traces only.
                rII
  412 5312
                rII05'
                             giš [ba]r-bar
  413 5317
                rII06'
                             giš [t]ug,-tug,
                rII07'
                             giš i[1,?]
                rII08'
                             giš {traces}
                rII09'
                             giš ŠID-[
  415 5318
                rII10'
                             giš nig<sub>2</sub>-[g]i-[n]a
  414 5319
                rII11'
                             giš nig,-il
  374 5199
                rII12'
                             giš ig
                rII13'
                             giš ig-tab
                rII14'
                             giš ig-tab-ba
  385 5237
                rII15'
                             giš ig-mi-ri-za
                rII16'
                             giš ig-u<sub>3</sub>-X-tum
                rII17'
                             giš ig-e<sub>2</sub>-gal
                rII18'
                             giš ig-[
                rII19'
                             giš [
                rII20'
                             giš [
                rII21'
                             g[iš
                rIII01'
                             giš X [
                rIII01-09'
                            traces only
  333 5047
                rIII10'
                             giš su-din-gigir
                rIII11'
                             giš gag-tab-ba-gigir
```

```
337 5034 rIII12' giš gir<sub>3</sub>-gub-gi[gir]
rIII13' giš a[d]-X [
rIII14' giš X [
rIII15' g[iš
rIV Traces of GIŠ only.
```

Ni II-138 UM 29-16-056

The piece is difficult to read. It includes items not found in the standard Nippur text. The transcription is offered here with many reservations. This tablet is not included in the score in §5.4.

```
001 3001
             rI01
                          giš taskarin
002 3002
             rI02
                          giš esi
003 3003
             rI03
                          giš nu<sub>11</sub>
004 3004
             rI04
                          giš ha-lu-ub<sub>2</sub>
005 3005
                          giš š[a<sub>3</sub>?-
              rI05
              rI06
006 3006
                          [] kin<sub>2</sub>
              rI07
                           illegible
              rI08
                          [] kin<sub>2</sub>-[
              rI09
                          giš [
              rI10
                          giš GI? [ ] MI
                          illegible
              rI11-13
008 3012
                          giš geštin
             rI14
009 3013
             rI15
                          giš geštin-kir<sub>4</sub>
010 3015
             rI16
                          giš geštin-k[a<sub>5</sub>]-a?
011 3017
                          giš geštin-gam-ma
             rI17
              rI18
                          giš geštin-e-na
                          giš geštin
              rI19
                          giš geš[tin?]-BU-x [
              rII01
              rII02-13
                          illegible
     3045
             rII14
                          giš hašhur-M[A?]
     3041
                          giš hašhur-ab-ba
             rII15
015 3050
             rII16
                          giš še-dug<sub>3</sub>
016 3049
             rII17
                          giš še-[
017 3052
             rII18
                          giš še-[
              rIII01
                          lost
018 3067
             rIII02
                          giš ši[nig-
019 3072
             rIII03
                          giš ši[nig-
020 3068
             rIII04
                          giš šinig-[
              rIII05-13
                          illegible
029 3092
             rIII14
                          giš ši[m?-
                          giš UŠ?-KU-ga
              rIII15
              rIII16
                          giš HI-nu?-um
              rIII17
                          giš ga-e-nu-la
030 3126
                          giš šennur
             rIII18
              rIV01-17
                          illegible
              rIV18
                          giš ma-nu-[
```

Ni II-254 CBS 10778

The tablet preserves a section close to the end of the giš list. At this particular point there is only one other source (Ni I-10). Unfortunately, Ni II-254 is badly preserved and it can only partly be harmonized with the text in Ni I-10.

Ni II-254

```
Only GIŠ signs remain.
             rΙ
             rII01'
                         []X
             rII02'
                         [] LA?
                         []BAR-PAP?
             rII03'
             rII04'
                         [ ]-da
701
             rII05'
                         [] za-na
702
             rII06'
                         [gi]š e<sub>2</sub>-za-na
             rII07'
                         giš [
```

Ni IV-11 2N-T459

The text of this lentil cannot be placed in the standard text:

Ni IV-11

```
1 giš suhur-[
2 giš suhur-a-[
```

Ni IV-12 IM 58046 (2N-T730)

The obverse of this piece looks like an ordinary lentil. Its reverse, however, has an abbreviated version of the tree list in three columns. Moreover, the text includes a few Akkadian translations of words which are usually listed in Sumerian.

```
Obv.:
130 3486
            1
                          giš maš
133
             2
                          giš sag-EZEN
Rev.:
001 3001
             rI01
                          [gi]š taskarin
002 3002
             rI02
                          giš esi
003 3003
             rI03
                          giš nu<sub>11</sub>
004 3004
             rI04
                          giš ha-lu-ub,
                          giš ša<sub>3</sub>-kal
005 3005
             rI05
006 3006
             rI06
                          giš kin,
007 3011
             rI07
                          giš gi<sub>6</sub>
008 3012
             rI08
                          giš geštin
012 3029
             rI09
                          giš peš<sub>3</sub>
013 3032
                          giš hašhur
            rI10
                          giš hašhur-kur
014 3033
             rI11
015 3050
            rI12
                          giš še-dug<sub>3</sub>
```

```
016 3049
              rI13
                           giš še-nu
018 3067
              rI14
                           giš šinig
020 3068
              rI15
                           giš šinig-kur
021 3053
              rI16
                           giš šar<sub>x</sub>(NE)-ša<sub>4</sub>-bid<sub>3</sub>
023 3061
              rI17
                           giš lam
024 3062
              rI18
                           giš LUH?
025 3074
              rI19
                           giš u<sub>3</sub>-suh<sub>5</sub>
026 3083
              rI20
                           giš še-u<sub>3</sub>-suh<sub>5</sub>
029 3092
              rI21
                           giš šim-gig
              rI22
                           giš gilim
031 3136
              rI23
                           giš lam-gal
032 3137
              rI24
                           [gi]š lam-tur
034 3138
              rI25
                           [ il]dag<sub>2</sub>
              rI26
                                ]-KAM
035 3140
              rI27
                                  ]-kur
                           ſ
041 3156
              rII01
                           giš gi<sub>6</sub>-par<sub>4</sub>
042 3158
              rII02
                           giš ma-nu
045 3186
              rII03
                           giš [ ]-ur<sub>2</sub>-[
046 3195
              rII04
                           giš KID-da
047 3196
              rII05
                           giš KID-da
048 3199
              rII06
                           giš KID-da-zi[1-1]a
049 3200
              rII07
                           giš m[es]
050 3204
              rII08
                           giš mes-m[a<sub>2</sub>]-gan
053 3225
              rII09
                           giš šu-ur-me
054 3226
              rII10
                           giš z[a-]-lum
055 3227
              rII11
                           giš [ -k]um
                           giš gi-[ -l]um
056 3229
              rII12
058 3237
              rII13
                           giš z[i-i]r-dum
063
              rII14
                           giš m[i]-r[i]-i[š?]-gar-ra
059 3254
              rII15
                           giš []-nu-um?
060 3260
              rII16
                           giš ti?-ru
064 3265
              rII17
                           giš isimu<sub>2</sub>
065 3280
              rII18
                           giš nimbar
086 3356
              rII19
                           giš pa-DIŠ-ra
105 3411
              rII20
                           giš asal,
106 3412
              rII21
                           giš asal2-kur
111
              rII22
                           giš ad<sub>2</sub>
112 3439
              rII23
                           giš kiši<sub>16</sub>
115 3447
              rII24
                           giš sa-ma-na<sub>2</sub>
117 3450
              rII25
                           giš zu-ti-a-nu-um
             rII26
122 3238
                           giš ši-iq-d[um]
123 3455
              rII27
                           giš za-ri<sub>3</sub>-aš-tum
125 3469
              rIII01
                           giš e-gi-zu-l[um
126 3470
              rIII02
                           giš BU-zu-lum
127 3480
              rIII03
                           giš dili-bu-um
129 3483
              rIII04
                           giš huš
132 3489
              rIII05
                           giš guru<sub>5</sub>-uš
130 3486
              rIII06
                           giš maš
133
              rIII07
                           giš sag-EZEN
              rIII08
                           giš
```

Ni U-07 CBS 08269

Ni U-07 is an oval tablet inscribed with three lines of text running parallel to the longer side. It does not conform to any known tablet type. The text consists of three names of trees, but not in an order known from any lexical tradition. It is possible that this is not a school tablet, though no other obvious possibility presents itself. Ni U-07 has not been included in the score in §5.4.

Ni U-20 UM 29-16-604

Ni U-20 has a version of the passage between the trees and the furniture, plus the beginning of the gis gu-za section. The text of this passage is rather poorly standardized, so the degree of deviation displayed in this tablet is not unusual. However, full integration of this text into the score proved impractical. For this reason the tablet is presented here.

```
I01'
                            illegible
               I02'
                            [] maš-dara<sub>3</sub>?
               I03'
                            [] U-D[U]-ZA-LE-UD
145
               I04'
                            [] le-u<sub>5</sub>
                            [] ma-da-ŠU<sub>2</sub>+AN
               I05'
               I06'
                            [] gi-dim<sub>2</sub>
144 4006
              I07'
                            [] dib-dib
144 4006
              I08'
                            [ di]b-dib
149 4024
              I09'
                            [ ]-bal
               I10'
                            [ ]x
               II01'
                            giš [
               II02'
                            giš gu-za-[
               II03'
                            giš gu-za-[
               II04'
                            giš gu-z[a
               II05'
                            giš gu-z[a
               II06'
                            giš g[u-
```

Ni U-28 CBS 10071

Ni U-28 has the end of the section ^{giš}gisal, continuing with ^{giš}gam₃ items. The section has been preserved on only one other tablet (Ni I-10). It is impossible to decide, therefore, which one has the 'standard' text, and which one is deviant. The version of Ni U-28, however, is more like the tradition known from later parallels. See the discussion in the comments to Nippur 648 (§5.3).

```
I traces only
646 4411 IIO1' [gi]š gi[sal-
647 4413 IIO2' [g]iš gisal-an[še]
7b291 IIO3' giš gam<sub>3</sub>
7b292 IIO4' giš gam<sub>3</sub>-gir<sub>2</sub>
7b295 IIO5' giš gam<sub>3</sub>-gir<sub>2</sub>-šu-i
IIO6' [ -g]ir<sub>2</sub>-m[uhaldim?]
```

III four times giš only

Ni U-29 CBS 10192

This tablet has a somewhat deviant version of the section boats. It includes a number of words not found anywhere else in the Nippur giš lists.

```
rI01'
                            gi[š
              rI02'
                           giš [
              rI03'
                           giš ma<sub>2</sub>-
              rI04'
                            giš ma<sub>2</sub> x [
296 4281
              rI05'
                            giš ma<sub>2</sub>-dilmun-[
              rI06'
                            giš ma<sub>2</sub>-gur-[
              rI07'
293 4304
                            giš ma<sub>2</sub>-dara<sub>3</sub>-[
              rI08'
                            giš ma<sub>2</sub>-ŠU<sub>2</sub>-AN-[
              rI09'
                            [gi]š m[a_2-
              rII01'
                            traces
314 4417
              rII02'
                            [] zi-gan
315 4419
              rII03'
                                  ]-zi-gan
316 4420
                            [] UMBIN-zi-gan
              rII04'
     4407
              rII05'
                            [giš gi]-muš
263 4254
              rII06'
                                    ]-za
264 4255
              rII07'
                                    ]-za-zu<sub>2</sub>-gi<sub>4</sub>?-a
319 4421
              rII08'
                           [] gag
320 4422
              rII09'
                            [] ir
     4424
              rII10'
                            [giš ir]-dim
321 4428
              rII11'
                            [] ENxKAR,
322 4428a rII12'
                            [ ga]g-ENxKAR<sub>2</sub>
                           [] šibir
323 4429
             rII13'
324 4430 rII14'
                           [ ga]g-ši[bir]
```

5.6 Non-Nippur Texts

An important characteristic of the Old Babylonian lexical tradition is the existence of local versions. These local versions vary to differing degrees from the Nippur text and from each other. Non-Nippur lists of trees and wooden objects are edited here in four sections: the Isin version, the Ur version, Uruk fragments, and unprovenanced texts. Texts from Northern Babylonia are excluded (see §5.1). A few unprovenanced texts carry a tradition that is close to that from Ur or Isin. These texts are edited in the appropriate sections.

As in §5.3, each line of text is preceded by three numbers: the corresponding line number in the Nippur standard text, the number of the corresponding entry in late ur₅-ra, and, finally, the column and line number on the tablet edited.

5.6.1 The Isin Tradition

Only a small part of the rich lexical finds from Isin have been published so far. The giš texts include type I tablets and lentils. There are three type I tablets. Is I-01 begins with the trees and ends with the section giš mar-gid₂-da (wagons). Is I-03 begins with the section doors (giš ig) and presumably continued until the end of the giš chapter of ur₅-ra. The third type I tablet (Is I-02) begins with the trees and ends somewhere in the middle of the section chairs (giš gu-za). The tradition found in Isin is close to that from Nippur. The order of the sections is approximately the same but the Isin text is somewhat more elaborate. The division of the text over type I tablets corresponds to the subdivision of the giš chapter attested in some of the Nippur type I tablets. This division was to become the standard in Ugarit and Emar. Since the Isin text must have been longer than that in Nippur it is plausible that the former used a standard two-tablet edition.

The Isin texts are roughly contemporaneous with, or slightly earlier than the Nippur tablets. One lexical text is dated Samsuiluna 12 (Is I-02). Other tablets in the same context are dated slightly earlier, the earliest being Hammurabi 31¹.

Included in the edition of the Isin texts is a prism of unknown provenance, now kept in the Kelsey Museum, Ann Arbor, Michigan. The prism covers the same sections as Is I-01, beginning with the trees and ending with the section ^{gis}mar-gid₂-da. The Kelsey prism and the Isin tablets are almost identical in the sequence of the sections and exhibit many similarities in individual items. However, the Kelsey piece does not strictly speaking duplicate the Isin text.

The unpublished Isin texts edited here were made available to me by Prof. C. Wilcke, who generously sent me his hand copies of a large number of lexical tablets from Isin. The only piece that could be collated by autopsy was the Kelsey prism (NP P-01). Prof. Piotr Michalowski was so kind as to relinquish his rights to this important text. The director of the Kelsey Museum of Archaeology, Prof. E.K. Gazda, kindly gave her permission to publish the text here, for which my sincere thanks.

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See Wilcke 1987, p.84.

Is I-01	IB 1535 +	IB 1606				
001 3001	I01	giš taskarin	053	3225	П21	giš šu-ur ₂ -min ₃
002 3002		giš esi			II22	giš za-ba-lum
	I03	giš nu ₁₁	055	3227		[gi]š e-lam-ma-kum
006 3006		giš kin ₂			II24	[gi]š gi-ri-lum
006a 3007	I05	giš kin ₂ -babbar		3231	II25	giš gi-rim
006b 3008	I06	giš kin ₂ -gi ₆	058	3237		[z]i ₂ -ir-dum
004 3004	I07	giš ha-lu-ub ₂ !			II27	[t]i-ia-a[r]
005 3005	I08	giš ša ₃ -kal			II28	traces
007 3011	I09	giš gi ₆	0510	13216	II81	g[iš m]es-ha-lu-ub ₂
008 3012	I10	giš [geš]tin				[h]ar-ra-an-na
	I11	giš geštin-[k]ir ₄			III01	giš nim[bar-
010 3015	I12	giš geštin-ka₅-a			III02	giš ša ₃ -[
011 3017	I13	giš geštin-gam-ma	081	3351	III03	giš ša ₃ -[
012 3029	I14	giš peš ₃	082	3355	III04	giš su[hur-
3030a	i I15	giš peš ₃ -ma ₂ -ri ₂	086	3356	III05	giš pa [
013 3032	I16	giš hašhur	087	3357	III06	giš p[a-
014 3033	I17	giš hašhur-kur-ra			III07	giš []-nimbar
3037	I18	giš hašhur-ar-ma-nu-um	088	3359	III08	giš [dal]la ₂ -nimbar
3040	I19	giš hašhur-dam-ši-lum	091	3369	III09	$[z]u_2$?-nimbar
3042	I20	giš hašhur-ba-za			III10	[] X-nimbar
3044	I21	giš hašhur-gud	084		III11	[k]iri ₆ -nimbar
016 3049		giš še-nu			III12	[-n]a-nimbar
015 3050		giš še-dug ₃	089	3398	III13	[m]ud-nimbar
017 3052		giš $\delta e_3 - \delta [e_3]$			III14	[L]AGAB?-nimbar
018 3067		giš ši[nig]	097		III15	giš ga ₂ -li-nimbar
	I26	giš šinig-[3403	III16	giš he ₂ -BAD-nimbar
020 3068	I27	giš ši[nig-	094	3380	III17	giš TUG ₂ -nimbar
021 3053	I28	giš š[ar _x (NE)	40.		III18	giš KA-nim[bar]
	I29	gi[š		3384	III19	giš peš-[nimba]r
039 3154		giš ab-ba	103		III20	giš peš-murgu-[nimba]r
040 3155		giš ab-ba-me-luh-ha	104		III21	giš peš-banda ₃ -zi-
041 3156		giš gi ₆ -par ₄			11122	[nim]bar
042 3158		giš ma-nu	000	2402	III22	giš ha-[r]a?-[nimba]r
3159		giš ma-nu-duru₅ giš ma-nu-šu-AG	098	3402		giš an-[
043 3163 044 3164		=			III24	giš [
3167		giš ma-nu-gibil ₂ -AG giš ma-nu-mur-ra-an-na			IV01' IV02'	gi[š giš X [
045 3186		giš nu-ur ₂ -ma			IV02 IV03'	giš [
045 3180		giš E ₂ -d[a]			IV03 IV04'	giš ma[š?-
040 3193		giš E ₂ -u[a]			IV04'	giš [
047 3190		giš E_2 -[IV05'	gi[š
049 3200		giš [m]es			rI01'	[gi]š [
050 3204		giš mes-m[a_2 -]-na			rI02'	[gi]š [
051 3205		giš mes-[-h]a			rI03'	[gi]š [
021 3202	II16	giš m[es-			rI04'	[gi]š [g]u-[
051c 3206	II17	giš [k]i-e[n-			rI05'	[] gu-z[a-
051d 3216		giš mes-ha-lu-ub ₂ -har-ra-		4104	rI06'	[] gu-[]-sig ₁₇ -g[ar?
	~	an-na			rI07'	[a]l [
030 3126	II19	giš [šen]nur			rI08'	[z]a-al-[
052 3217		giš erin	197	4107	rI09'	[g]iš [z]a-[]-za[bar?-
		_				

```
192 4133a rI10'
                                                                          284 4359 rIII28'
                                                                                                        [gi]š ma_2-15-g[ur]
                             giš gu-[
                                          ]-mes-[
201 4124 rI11'
                                                                          285 4360 rIII29'
                             giš di<sub>5</sub>-[
                                                                                                        [m]a_2-10-gur
200 4126 rI12'
                                                                                  4382 rIII30'
                                                                                                        [ ] gur?-ma<sub>2</sub>
                             giš sa[g-
202 4125 rI13'
                             giš N[E?-
                                                                                 4383 rIII31'
                                                                                                        [ ] te-ma<sub>2</sub>
               rI14'
                                                                          321 4428 rIII32'
                                                                                                        [gi]š ENxKAR,
                             giš x[
                                                                          322 4428a rIII33'
               rI15'
                             g[iš
                                                                                                        [gi]š ENxKAR,
               rI16'
                             giš Š[U<sub>2</sub>?
                                                                          323 4429 rIII34'
                                                                                                        [gi]š ENxKAR,
                                                                                          rIV01'
               rI17'
                             giš Š[U,?
                                                                                                        traces
               rI18'
                             giš Š[U,?
                                                                          342 5054 rIV02'
                                                                                                        gi[š] umbin-x-gi[gir]
               rI19'
                             giš Š[U,?
                                                                                          rIV03'
                                                                                                        giš ka-umbin-gi[gir]
                             giš KID?-[ ]-g[a_2-
                                                                                          rIV04'
               rII01'
                                                                                                        gi[š] maš<sub>2</sub>-umbin-gi[gir]
233 4181 rII02'
                                                                                          rIV05'
                             giš ma-[ ] x [
                                                                                                        giš da-umbin-gigir
231 4174
              rII03'
                             giš [ dil]im<sub>2</sub>?
                                                                                 5059
                                                                                         rIV06'
                                                                          351
                                                                                                        g[iš] gag-sal<sub>4</sub>
230 4175
               rII04'
                             giš [
                                      ]-gal
                                                                          352
                                                                                          rIV07'
                                                                                                        [ z]a-ra-gag-sal,
               rII05'
                                                                                          rIV08'
                                                                                                              -sal<sub>4</sub>
                             giš [
                                      ]-gal
                                                                                 5068 rIV09'
               rII06'
                                                                          355
                             g[iš
                                                                                                        g[iš] š[id-
                                                                                                                         -b]ar-ra
                                                                                 5070 rIV10'
               rII07'
                             giš [
                                                                          356
                                                                                                        giš ši[d-d]u<sub>10</sub>-ša<sub>3</sub>-ga
236 4203 rII08'
                             giš umbin-[
                                                                          354
                                                                                          rIV11'
                                                                                                        giš š[id-d]u<sub>10</sub>-gar-ra
237 4198 rII09'
                             giš banšur-zag-g[u]-la<sub>2</sub>
                                                                          357 5073 rIV12'
                                                                                                        giš mar-[gi]d<sub>2</sub>-da
238 4199 rII10'
                                                                                  5077 rIV13'
                             giš ban[šur-
                                               ]-gar!-ra!
                                                                                                        giš mar-[gid<sub>2</sub>]-da-su!-
               rII11'
                             giš ban[šur-
                                                ]-tum
                                                                                                        bi[r₄-k]i
               rII12'
                             giš ban[šur-]-AN-am-
                                                                                          rIV14'
                                                                                                        giš HI-MAŠ-mar-gid<sub>2</sub>-da
                             s[i-s]i-ga
                                                                                          rIV15'
                                                                                                        giš d[al]-mar-gid2-da
242 4209 rII13'
                             giš U[D-
                                                                          373 5083 rIV16'
                                                                                                        giš e[n<sub>3</sub>]-dur-mar-da
               rII14'
                             appr. 8 lines lost
                                                                                          rIV17'
                                                                                                        giš [us]an<sub>3</sub>?-mar-gid<sub>2</sub>-da
               rII22'
                             giš [
                                                                          368 5092 rIV18'
                                                                                                        giš u[mbin]-mar-gid<sub>2</sub>-da
               rII23'
                                                                                          rIV19'
                                                                                                        giš k[a]-umbin-mar-gid<sub>2</sub>-
                             giš [
               rII24'
                             giš x[
               rIII01'
                             giš m[a<sub>2</sub>-
                                                                                          rIV20'
                                                                                                        giš maš2-umbin-mar-
                                                                                                        gid<sub>2</sub>-da
               rIII02'
                             giš ma<sub>2</sub>-[
               rIII03'
                             giš ma<sub>2</sub>-ki-[
                                                                                          rIV21'
                                                                                                        giš [da-umbi]n-mar-gid<sub>2</sub>-
               rIII04'
                             giš ma<sub>2</sub>-[
               rIII05'
                                                                          363 5085 rIV22'
                             giš m[a<sub>2</sub>-
                                                                                                        giš gir<sub>3</sub>-g[ub]-mar-gid<sub>2</sub>-
       4269 rIII06'
                             giš ma<sub>2</sub>-gi[d<sub>2</sub>-
                                                                                                        da
297 4362 rIII07'
                             giš u<sub>5</sub>-[
                                                                          366
                                                                                          rIV23'
                                                                                                        giš šudul,-mar-gid,-da
       4371 rIII08'
                                                                          367
                                                                                          rIV24'
                             giš murgu-m[a<sub>2</sub>
                                                                                                        giš gag-šudul<sub>4</sub>-mar-gi[d<sub>2</sub>-
               rIII09'
                                                                          359
                                                                                          rIV25'
                             giš LUM-ma<sub>2</sub>
                                                                                                        giš za-ra-mar-gi[d<sub>2</sub>-
       4363 rIII10'
                             giš ad-ma<sub>2</sub>
                                                                                          rIV26'
                                                                                                        giš [ ]-mar-[
       4364 rIII11'
                             giš ad-us,-ma,
                                                                                          rIV27'
                                                                                                        giš KAM-DAR-mar-
299 4367 rIII12'
                             giš si-ma<sub>2</sub>
                                                                                                        gid,-da
               rIII13'
                             giš gu<sub>2</sub>?-A[B?]-ma<sub>2</sub>
                                                                          361
                                                                                          rIV28'
                                                                                                        giš KA-kul-mar-gid<sub>2</sub>-da
306
               rIII14'
                             giš peš-eš<sub>3</sub>-ma<sub>2</sub>
               rIII15'
                             giš []-ma<sub>2</sub>
301 4374 rIII16'
                             giš dim-ma<sub>2</sub>
      4373 rIII17'
300
                             [gi]š anše-[
304
               rIII18'
                             gi[\S] u_5-zi-pa-ah-m[a_2]
      4391 rIII19'
308
                             gi[š] ma<sub>2</sub>-du<sub>3</sub>
309
               rIII20'
                             gi[š]-ma<sub>2</sub>-du<sub>3</sub>
               rIII21'
                             gi[š
                                      ]-du<sub>3</sub>
               rIII22'
                             gi[š
               rIII23'
                             gi[š
               rIII24'
                             giš m[a_2-
               rIII25'
                             giš m[a<sub>2</sub>
                                            g]ur
               rIII26'
                             giš m[a<sub>2</sub>-
283 4358 rIII27'
                             giš ma<sub>2</sub>-20-
```

Commentary to Is I-01

I24 The variant gis ×e $_3$ -se $_3$ for gis ×e-se in the Nippur text (line 17) is known only from Isin. The same line is found in Is I-02.

Is I-02		IB 1547					
		I01'	[] x	048	3199	II23'	giš [KI]D-da-si?
		I02'	[] x	049	3200	II24'	giš mes
008	3012	I03'	g[iš] geš[tin]	050	3204	II25'	[g]iš mes-g[an?
009	3013	I04'	giš geštin-kir ₄	051	3205	III01	giš mes-me-lu[h-h]a
		I05'	giš geštin-HUR-ma	0510	3206	III02	giš mes-ki-en-gi-ra
011		I06'	giš geštin-gam-ma	0510	13216	III03	giš mes-ha-lu-ub ₂ ?-har-
012	3029		giš peš ₃				ra-an-na
	3030a		giš peš ₃ -ma ₂ -ri ₂	0520		III04	giš asal (ŠILIG)
013	3032		giš hašhur			III05	[giš] eri[n]
014		I10'	giš hašhur-kur-ra	053	3225	III06	giš šu-u $[r_2$ -mi $]n_3$
		I11'	[gi]š [haš]hur-ar-ma-nu	054	3226		giš za-ba-lum
	3040	112'	[gi]š [haš]hur-dam-ši-	055		III08	giš e-lam-ma-kum
	20.42	T101	RI-lum	056		III09	giš gi-ri-lum
	3042		[gi]š hašhur-ba-za	057		III10	giš gi-rim
016		I14'	[gi]š hašhur-gud	058		III11	giš zi ₂ -ir!-du
016		I15'	[g]iš še-nu	060		III12	giš ti-ia-ar
015		I16'	giš še-dug ₃	061	3250	III13	giš e-[1]a-nu-um
017 018		I17' I18'	giš še ₃ -še ₃	063 059	3254	III14	giš mi-ri ₂ -i-ereš ₄ .eš
020		I16 I19'	giš šinig giš šinig-kur-ra	062	3255	III13 III16	giš ur-nu-um giš ur-zi-n[u]-um
019		I20'	giš šinig-dili	002	3233	III10 III17	giš ar-ma[n]-nu-um
021		I21'	[\check{s}]ar _x (NE)- $\check{s}a_4$ -bi[d_3]		3261	III17 III18	giš ar-ga-nu-um
022	3054		$[\check{s}]ar_x(NE)-\check{s}[a_4-$	064	3265	III19	giš GUL-X
029		II01'	[š]im?-[0200	III20	giš u ₃ -l[uh-giš.ki]ri ₆
		II02'	giš NIM			III21	giš nunuz-giš.[ki]ri ₆
031	3136	II03'	giš lam-gal	065	3280	III22	giš nimbar
032	3137	II04'	giš lam-tur	067	3282	III23	giš nimbar-kur
033	3133	II05'	giš al-la-nu-u[m]	066	3289	III24	giš nimbar-tur
117	3450	II06'	giš peš ₇ -kal	068	3284	III25	giš nimbar-dilmun?-na
034	3138	II07'	giš ildag ₂		3286	III26	gi[š] nimbar-ma ₂ -[]-na
035		II08'	[il]dag ₂ -kur			III27	[gi]š nimbar? X X
036	3141	II09'	[-bu]r-ra	077	3304	III28	[] nimbar uh_2 -g[u_7 ?]
037		II10'	giš ilda[g]-RI			IV01	[]
038		II11'	giš kur-ra			IV02	g[iš
039	3154		giš ab-ba			IV03	giš nim[bar?-
040	3155		giš ab-ba-me-luh-ha			IV04	giš nimbar-[
041	3156		giš gi ₆ -par ₄	081	3351	IV05	giš ša ₃ -nimbar
042	3158		giš ma-nu	000	2255	IV06	giš HU-nimbar
0.42	3159		giš ma-nu-duru₅	082		IV07	giš suhur-nimbar
043		II17'	giš ma-nu-šu-AG	086		IV08	giš pa-nimbar
044	3164		giš ma-nu-gibil ₂ -AG	087		IV09	giš pa-kud-nimbar
045	3167 3186	II19 II20'	giš ma-nu-mur-ra-an-na	088	3359	IV10 IV11	giš IGI-KUD-nimbar giš ligima-nimbar
043		II20 II21'	giš nu-ur ₂ -ma giš KID-da			IV11 IV12	giš UR-nimbar
	3193		[giš K]ID-da	091	3369		giš zu ₂ -nimbar
04/	3170	1122	[Sio K]ID-uu	071	2209	1 1 1 3	515 Zu ₂ -minoai

```
090 3360 IV14
                                                                              rII19'
                                                                                          giš tun<sub>3</sub>-muhaldim
                         giš ze<sub>2</sub>-na-nimbar
089
     3398 IV15
                         giš mud-nimbar
                                                                      4031 rII20'
                                                                                          giš tun<sub>3</sub>-[šu]-i?
             IV16
                         giš LAGAB?-nimbar
                                                                              rII21'
                                                                                          giš tun<sub>3</sub>-[
097 3389 IV17
                         giš ga<sub>2</sub>-li-nimbar
                                                                              rIII01-11
                                                                                         illegible
      3403 IV18
                         giš he,-BAD-nimbar
                                                                162 4071 rIII12
                                                                                          giš gu-za-gid,-da
094 3380 IV19
                         giš TUG,-nim[bar]
                                                                              rIII13
                                                                                          giš [ -d]a
             IV20
                         giš KA-nim[bar]
                                                                              rIII14
                                                                                          giš [
                         giš peš-[
102 3384 IV21
                                                                              rIII15
                                                                                          giš g[u-
103
             IV22
                         giš peš-[
                                                                              rIII16
                                                                                          giš gu-za-[
104
             IV23
                         giš peš-banda<sub>3</sub>-zi-[
                                                                              rIII17
                                                                                          giš g[u-
             IV24
                                                                              rIII18
                         giš ha-ra-[
                                                                                          giš gu-za-[ ]-SU
             IV25
                                                                      4101 rIII19
                         giš (traces)
                                                                                          giš gu-za-nig<sub>2</sub>-nigin<sub>2</sub>-na?
                                                                179 4098 rIII20
             IV26
                         giš ki X X [
                                                                                          giš gu-za-ma2-gan-na
             IV27
                         giš X X X [
                                                                              rIII21
                                                                                          giš gu-za-me-da-da
             IV28
                         giš nimbar-al-[
                                                                186a 4093 rIII22
                                                                                          giš gu-za-gidim
             IV29
                                                                              rIII23
                         giš nimbar-al-[
                                                                                          giš gu-za-[
             IV30
                                                                178 4096 rIII24
                                                                                          giš gu-za-šah?-X-ma
                         giš nimbar-al-dar?-x
                                                                              rIV01-03 lost
             IV31
                         giš nimbar-SI-DU<sub>3</sub>-X [
             IV32
                         giš X X X [
                                                                              rIV04
                                                                                               ]-du<sub>3</sub>?-a
             IV33
                                                                177 4118 rIV05
                         g[iš] i[n] X [
                                                                                              ]-sag-e-du<sub>3</sub>-a
             rI01'
                                                                              rIV06
                         b]i
                                                                                          ſ
                                                                                               ]-IB
121 3466 rI02'
                         [ ] šu[ši]n
                                                                              rIV07
                                                                                             ]-za-GAR-[
                                                                                          ſ
             rI03'
                                                                              rIV08
                         [ ]-ra?-X
                                                                                          [ g]u-za-[
             rI04'
                         [ ] X X
                                                                189 4110 rIV09
                                                                                          giš gu-za-giš taskarin
             rI05'
                                                                192 4113a rIV10
                                                                                          giš gu-za-giš mes
                         [ ] pa?-sik[il-
                                                                                          giš gu-za-gišha-lu-ub,
             rI06'
                                                                      4112 rIV11
                         [ ] pa-AN X [ ] ti-bal
             rI07'
                                                                195 4103 rIV12
                                                                                          giš gu-za-gar<sub>3</sub>-ba
                         traces
             rI08'
                         traces
                                                                              rIV13
                                                                                          iti-GAN-GAN-e<sub>3</sub> u<sub>4</sub> 22-
123 3455
            rI09'
                         giš LAGABxZA-ZUM
                                                                                          kam
                                                                              rIV14
125 3469 rI10'
                         giš gi-zu<sub>2</sub>-lum-na
                                                                                          mu sa-am-su-i-li-na
126 3470 rI11'
                         giš BU-zu<sub>2</sub>-lum-na?
                                                                                          lu[gal
127 3480 rI12'
                         giš dili-bu-ma
                                                                              rIV15
                                                                                          usu-mah Mar[duk
128 3482 rI13'
                         giš an?-t[a]
129
     3483 rI14'
                         giš huš
130 3486 rI15'
                         giš maš
     3488
            rI16'
                         giš maš-gurum
131
132
     3489
            rI17'
                         giš guruš-uš
133
             rI18'
                         giš sa[g]-EZEN
134
             rI19'
                         giš MES-[sa]g-EZEN
     3493 rI20'
135
                         giš i-r[i<sub>9</sub>]-[n]a
             rI21'
                                   ]-eš
137 3498
            rI22'
                                   ]-na
             rII01-06'
                         illegible
             rII07'
                         giš kar<sub>2</sub>?-bi
             rII08'
                         giš DU-x
             rII09'
                         giš X-na
145a rII10' giš GAN-[L]A?
550 7a039 rII11'
                         giš šu-nir
619
             rII12'
                         giš šu-kar,?
147 4021 rII13'
                         giš dub-dim,
148
     4022 rII14'
                         giš šumun-g[i<sub>4</sub>]
149 4024 rII15'
                         giš te-bal
151 4029 rII16'
                         giš tun3
             rII17'
                         giš tun<sub>3</sub>-X
             rII18'
                         giš tun<sub>3</sub>-UD-X
```

Commentary to Is I-02

III20f. The items ^{gis} u₃-luh-^{gis} kiri₆ and ^{gis} nunuz-^{gis} kiri₆ are not found anywhere else in the Old Babylonian tradition. They do fit the corresponding passage in late ur₅-ra, where a number of words for shoot are collected (ur₅-ra 3, 264a-272; *MSL* 5, pp.114-116).

Rev. The reverse columns run from left to right. After rIV12 there is a double line, followed by scribbles. The date is added at the bottom of the column (Samsuiluna 12).

Is I-03 IB 1512c + IB 1516 + IB 1550 + IB 1561 + IB 1563

		I01'	traces	430	6082	1127'	[]BU
		I01'	traces	431		II27 II28'	[B]U
		I03-10'	broken	432	6084		lost
380	5244		[i]g-a?-suh ₄	433	6092		[] BU
	5218		[g]iš ig-maš-tab-ba		6097		[] bu
	5237		[gi]š ig-mi-ri ₂ -za	435	6098		giš BU-ERIN ₂ -AŠ-GI-
	5239	I13'	[gi]š ig-ze ₂ -na	433	0098	11104	MA
304	3239	I15'	[gi]š ig-zu-zu			III05	giš BU
388	5252	I16'	[gi]š suku ₅ -ig	136	6108	III05	giš rin ₂
		I17'	[gi]š du-ig	450	0100	III07	giš rin ₂ -lu ₂
	5254		[gi]š u ₄ -sakar-ig	127	6110		giš rin ₂ -lib?-bi
		I10 I19'	[gi]š suhub ₄	437	0110	III08 III09	giš rin ₂ -no?-or
		I20'	[] šu-ga	440	6116		giš e ₂ -[
	5264		[n]u-kuš ₂			III10 III11	giš [
	5265			442	3110	III11 III12	=
	5266		[-ku]š ₂ -an-na [-ku]š ₂ -ki-ta	443	5116		giš a[pin- giš [api]n-š[u]
	5270				5117		giš apin-šu-du ₇
390	3270	II01'			5117		
		H01 H02'	traces		5118		giš apin-šu-mu-du ₇ (sic!) giš apin-tug ₂ -sig ₁₈
412	5212	II02 II03'	giš TAG.T[UG ₂ -]-x	446 447	3123	III10 III17	giš apin-tug ₂ -sig ₁₈ giš apin-sag-tuku
		1103 1104'	giš bar-bar giš KU-KU	44 /	5128		giš apin-sag-tuku giš apin ^{giš} šu-kar ₂ !-bir-bir
				440	5128		
	5319		giš nig ₂ -zu?	449			giš sag-apin
		II06'	giš nig ₂ -gi-na	451	5136		giš gag-sag-apin
416	5313	II07'	giš nig ₂ -menbulug ₂	451	5144		giš ka-šu ₂ ?-apin
417	5215	II08'	giš da-šu-du ₇ -tug ₂ -ga?		5136a		giš ama-apin
411		II09'	giš il ₂ -sik ₂	450	5150	III23	giš PA-GUD-KAM-apin
411	5314	II10'	giš il ₂ -il ₂		5152		giš šu-sag-apin
	c01 c	II13'	giš ga-ri[g ₂ -		5157		giš nig ₂ -kud-apin
101	6016		giš ga-rig ₂ -š[u-i?]	454		III26	giš nig ₂ -PI-[
421	6015	II15'	giš ga-rig ₂ -pa-m[ušen]-		5170	III27	[gi]š har-apin
	6040	TT 4 61	na!	4.50		III28	[] gag-har-apin
		II16'	giš ga-rig ₂ -e ₂ -pa-na	463	5141		[1]i-apin
		II17'	giš bal		5142		[gi]š gag-l[i]-apin
423	6030		giš e ₂ -bal	455	5161		giš sal-la-apin
424	6026		giš sag-bal	456	5162		giš gag-sal-la-apin
		II20'	giš me-te-[5159c		giš dam-apin
317	4025	II21'	giš an-ti-b[al]		5166		giš šudul-apin
		II22'	giš zi-SA[R]	462		IV03	giš gan-apin
426	6043	II23'	giš LAG[AB]			IV04	giš gaba-apin
427	6044	II24'	giš LAGAB	465		IV05	giš a ₂ ?-gud?-apin
428	6045	II25'	giš LAGAB			IV06	giš [
429	6081	II26'	giš BU			IV07	giš [

```
IV08
                           giš [
              IV09
                           gi[š
              IV13
                           gi[š
              IV14
                           giš [
              IV15
                           giš KU-[
475 7a148 IV16
                           giš [
476 7a149 IV17
                           giš suhur-g[ud]
477
      7a152 IV18
                           giš al
479 7a166 IV19
                           giš al-šub
478 7a155 IV20
                           giš al-sag
                           giš al-zu<sub>2</sub>-2
480 7a159 IV21
482 7a161 IV22
                           giš al-zu<sub>2</sub>-4?
                           giš al-u<sub>3</sub>?-šub?
      7a166 IV23
483 7a169 IV24
                           giš u<sub>3</sub>-šub
484 7a173 IV25
                           giš u<sub>3</sub>-šub-ab-ba
485 7a170 IV26
                           giš u<sub>3</sub>-šub-sig<sub>4</sub>
                           giš u<sub>3</sub>-šub-sal-la
              IV27
              IV28
                           giš MA?-dim
              IV29
                           giš M[A?]-dim-tur
487 6133 IV30
                           giš gag-du<sub>6</sub>-ba?-la<sub>2</sub>
488 6134 IV31
                           giš gag-du<sub>6</sub>-sum-ba-la<sub>2</sub>
490 6135 IV32
                           giš gag-sum-šir-dili
      7b034 IV33
                           giš dubšig
      7b034 rI01
                           giš dubšig-za<sub>3</sub>-lal<sub>2</sub>
491 6150 rI02
                                -r]i<sub>2</sub>-qum
              rI03
492
                           giš gu<sub>2</sub>?-zi-ri<sub>2</sub>-q[um?]
494 6157 rI04
                           giš I-LU
495 6158 rI05
                           giš I-[
496 7a006 rI06
                           giš tukul
              rI07
                           giš tukul-[
498 7a015 rI08
                           giš tukul-[u]r<sub>2</sub>-ra
499 7a024 rI09
                           giš tu[kul]-k[un?]
              rII
                           traces of 5 lines
```

Commentary to Is I-03

III04 The item is not understood. Similar items are ^{gis}bu-ŠID and ^{gis}bu-ma-an-sim. See the commentary at lines 435 and 435a of the Nippur text.

III23 Perhaps the line should be read ^{giš}pa-al'-kam-apin, as in Ur I-01 rII11'.

IV28-29 The first sign after the GIŠ is damaged but the sign is clear in IB 1618 (Is IV-06). It is not completely certain, however, that this is the same item since the lentil is damaged in the second half of the line.

Is IV-01 Krebernik 1992, p.110 (IB 1701)

```
1 giš gir<sub>2</sub>-[
2 giš umbin-[
3 giš sag-umbin-[
```

Commentary to Is IV-01

The items may belong to the section ^{gis}gigir, which is very incompletely preserved in Is I-01. But other sections are possible as well.

Is IV-02 IB 1620

374	5199	1	giš ig
375	5200	2	giš ig-gal
376	5233	3	giš ig-i ₃

Is IV-03 IB 1495

231	4174	1	giš dilim ₂
230	4175	2	giš dilim ₂ -gal
	4176	3	giš dilim,-tur

Is IV-04 IB 1613

474	5160	1	giš da-an-ga-apin
468	5173	2	giš gan ₂ -DAGAL
469	5174	3	giš gan,-GAN,-sar-ra

Commentary to Is IV-04

Lines 2 and 3 contain the word gis gan₂-ur₃.

Is IV-05 IB 1614

```
440 6116 1 giš e<sub>2</sub>-rin<sub>2</sub>
2 giš X X X X-LUM
442 5110 3 giš apin
```

Is IV-06 IB 1618

Commentary to Is IV-06

See the commentary to Is I-03: IV28-29

Is IV-07 IB 1619

Is U-01 IB 1566

```
-p]an
              rI01'
558
              rI02'
                           [g]ag-si-sa_2
556 7a049 rI03'
                           giš e<sub>2</sub>-pan
              rI04'
                           giš sa-pan
      6159 rI05'
                           giš dim<sub>3</sub>
      5061 rI06'
                           giš dim<sub>3</sub>-mar-šu
581 7b010 rI07'
                           giš mar-šu
                           [ ] šu
620
              rII01'
662
              rII02'
                           [] gir<sub>3</sub>
              rII03'
619
                           [ ]-kar<sub>2</sub>
624 7a128 rII04'
                                 ]-nu
```

Commentary to Is U-01

This fragment may belong to Is I-03.

NP P-01 KM 89542

		I	Approximately 10 lines			VI28	[]-X
			lost			VI29	[]- $ku[n_5]$
009	3013	I11	giš [geš]tin-k[ir ₄ ?]			VI30	[]- $ku[n_5]$
010	3015	I12	giš geštin-k[a ₅ -	252	4234	VI31	[bug]in
011	3017	I13	giš geštin-[g]am-m[a]	253	4235	VI32	[-t]ur
	3016c	: I14	giš geštin-had ₂		4236	VI33	[g]u-la
012	3029	I15	giš peš ₃	254	4238	VI34	[] x-ba[r-r]a
	3030a	I16	giš peš ₃ -ma ₂ -ri ₂ .ki	255	4242	VI35	$[$ nag $]a_{2/3}$
013	3032	I17	giš hašhur			VI36-38	destroyed
014	3033	I18	giš hašhur-kur-ra	259	4247	VI39	[ga]z
	3037	I19	giš hašhur-ar-wa(sic!)-			VII	Approximately 15 lines
			nu-um				lost or illegible.
	3040	I20	giš hašhur-dam-ši-l[um]			VII16	giš LU[M]-AŠ ₂ ?-ma ₂
	3042	I21	giš hašhur-ba-za		4363	VII17	giš ad-ma ₂
	3044	I22	giš hašhur-še-gud		4364	VII18	giš ad-uš-ma ₂
		I23	giš še-X	300	4373	VII19	giš anše-ma ₂
		I24	giš še-X	299	4367	VII20	giš si-ma ₂
015	3050	I25	giš še-dug ₃	303		VII21	giš u ₅ -KA-ma ₂
018	3067	I26	giš ši[nig??]	304		VII22	giš u ₅ -zi-pa-ah-ma ₂
		VI	Approximately 8 lines			VII23	giš peš-LU ₂ -HU-ma ₂
			lost and 4 lines illegible.	308	4391	VII24	giš ma ₂ -d[u ₃]
231	4174	VI13	[] dil[im ₂]	310	4393	VII25	giš gir ₂ -ma ₂ -d[u ₃]
230	4175	VI14	[-g]al	311	4392	VII26	giš uš ₂ -ma ₂ -du ₃
	4177	VI15	[-t]ur	279	4354	VII27	giš ma ₂ -60-gur
233	4181	VI16	[-t]um	280	4355	VII28	giš ma ₂ -50-gur
234	4188	VI17	[] banšur	281	4356	VII29	giš ma ₂ -40-gur
		VI18	[]-banšur	282	4357	VII30	giš ma ₂ -30-gur
		VI19	[]-banšur	283	4358	VII31	giš ma ₂ -20-gur
	4191	VI20	[-s]ag-du	284	4359	VII32	giš ma ₂ -15-gur
246	4225	VI25	[k]un ₅	285	4360	VII33	giš ma ₂ -10-gur
247	4226	VI26	[b]ad ₃	286	4361	VII34	giš ma ₂ -5-gur
		VI27	[]-sig ₅	319	4421	VII35	giš gag-ma ₂

```
4386 VII36
                           giš me-te-ma<sub>2</sub>
321 4428 VII37
                           giš ENxKAR<sub>2</sub>
322 4428a VII38
                           giš gag-ENxKAR<sub>2</sub>
323 4429 VII39
                           giš šibir
324 4430 VII40
                           giš gag-šibir
              VII41
                           [gi]š š[a<sub>3</sub>?]-hi-li-a
325 7b146 VII42
                           [] ka-bar
326 5006 VII43
                           [] gigir
327
      5015 VII44
                           [] e<sub>2</sub>-gigir
328 5016 VII45
                           [] e<sub>2</sub>-usan<sub>3</sub>-gigir
329
              VII46
                               K]I?-A-gigir
332 5023 VII47
                               ]-gi-[
              VII48
                               gi]gir
              VII49
                               gi]gir
              VII50
                              gigi]r
                           approximately 8 lines
              VIII
              VIII09
                           [ KA[K- ]-gigir
342 5054 VIII10
                           giš um[bin]-gigir
              VIII11
                           giš ka-umbin-gigir
              VIII12
                           giš maš<sub>2</sub>-umbin-gigir
              VIII13
                           giš HI-MAŠ-gigir
335 5052 VIII14
                           giš KA-kul-gigir
351 5059 VIII15
                           giš gag-sal<sub>4</sub>
352
              VIII16
                           giš za-ra-gag-sal<sub>4</sub>
353
              VIII17
                           giš umbin-gag-sal<sub>4</sub>
              VIII18
                           giš ka-umbin-gag-sal<sub>4</sub>
              VIII19
                           giš maš<sub>2</sub>-umbin-gag-sal<sub>4</sub>
355 5068 VIII20
                           giš šid-du<sub>10</sub>-bar-[r]a
356 5070 VIII21
                           giš šid-du<sub>10</sub>-ša<sub>3</sub>-[
              VIII22
354
                           giš šid-du_{10}-ga[r]-r[a]
357 5073 VIII23
                           giš mar-gid2-da
      5077 VIII24
                           giš mar-gid2-da-su-
                           bi[r<sub>4</sub>].ki
              VIII25
                           giš HI-MAŠ-mar-gid,-da
              VIII26
                           giš dal-mar-gid<sub>2</sub>-d[a]
373 5083 VIII27
                           giš en<sub>3</sub>-dur-mar-gid<sub>2</sub>-[
              VIII28
                           giš X [ ]-mar-gid<sub>2</sub>-da
              VIII29
                           giš X X -mar-gid<sub>2</sub>-da
              VIII30
                           giš gag-[ ] X-mar-gid<sub>2</sub>-
                           da
              VIII31
                                   -d]a-mar-gid<sub>2</sub>-da
                           giš [
368 5092
              VIII32
                           giš umbin-mar-gid2-da
              VIII33
                           giš ka-umbin-mar-gid2-
              VIII34
                           giš maš<sub>2</sub>-umbin-mar-
                           gid,-da
              VIII35
                           giš K[I?-k]al-mar-gid2-
361
              VIII36
                           giš K[A]-k[ul?-
              VIII37
                           giš [
```

Commentary to NP P-01

VII41 See the commentary at Nippur lines 321-325.

5.6.2 The Ur Tradition

The giš chapter of ur₅-ra is represented in Ur by one big type I tablet and a number of lentils. The type I tablet must have covered the whole giš section. Only the reverse has been preserved. The Ur recension differs in many places from the Nippur text in the order of the sections. A number of unprovenanced pieces demonstrate the same or a very similar arrangement. This concerns NP I-03 (*BRM* IV 29+30) and NP I-04 (published in *SMEA* 18, 1977). NP III-03 has a version of the section ^{giš}gigir (chariot). It almost duplicates NP I-03 and is therefore also included here.

The following table shows the correspondence between the Ur text and NP I-03 on the one hand, and the differences and similarities with the Old Babylonian Nippur version and the late recension on the other.

Ur	NP I-03	Nippur	Late ur5-ra
[]	^{giš} gigir	326-346	5:1-58
giš mar-gid ₂ -da	^{giš} mar-gid ₂ -da	357-373	5:71-99
	gisšid-du ₁₀	354-356	5:68-70
giš apin	^{giš} apin	442-466	5:110-172
giš gan ₂ -ur ₃	[] 468-473	5:173-1	86
loom etc.	[] 407-417	5:298-3	20
[]	[]		
$^{\text{giš}}$ LAGAB (3x)[]	426-428	6:43-45	
gis KUR (3x)	[] 663-665	6:46-48	(gur ₄)
gisKAL (3x)	[] 666-668	6:52-54	
$\Gamma^{\text{giš}}URI^{?_{1}}(3x)$	[] [669-671?]	6:55-57	
^{giš} BU	[] 429-435a	6:81-95	
giš-rin ₂ giš-rin	12 436-441	6:108-1	18
giš al	giš al	477-482	7A:152-166
gišu3-šub	[] 483-486	7A:169	-173
[]	[]		
gišnig ₂ -N-sila ₃	[] 515-526	7A:237	-240
giš sa	giš sa	527- 535	6:160-191
^{gis} illar	[] 552-554c	7A:66-8	30
giš pan	[] 555-557	7A:48-6	53
[]	[]		
^{giš} mar	[] 580-591	7B:1-34	ļ

The similarity between NP I-03 and the Ur version appears, for instance, from the placement of the section ^{giš} apin-^{giš} gan₂-ur₃ (plough and harrow). In the Nippur version this passage is found between giš-rin₂ (scales) and ^{giš} al (hoe). In Ur it is placed immediately after the wagons (^{giš} margid₂-da). In Nippur ^{giš} mar-gid₂-da is followed by a section 'doors and locks'. In the Ur version the doors probably preceded the chariots and wagons. Particularly in the first half (until giš-rin₂), the organization of late ur₅-ra 5 and 6 is more like the Ur version than the Nippur text. An important similarity is the collection of repetitive items (LAGAB, KUR, URI, etc.). These same items are found in sections far apart in the Nippur redaction. The Yale tablet (NP I-03) begins on the

obverse with gi§ gigir. This is an important difference with both the Nippur and the Middle Babylonian peripheral versions, where the second half of the giš list always begins with the section gi§ ig (doors). It is in agreement with the late version of ur₅-ra 5 which begins with gi§ gigir. Curiously, after giš-rin₂ the two Old Babylonian versions are more similar and often agree against the late tradition.

NP I-03 is dated to the 28th year of Samsuiluna. This is after the abandonment of the Southern Babylonian cities. In Samsuiluna 28 Ur was not a scribal centre. We must assume that the Ur school tradition was brought to the north and was kept alive there.

NP I-04 is a relatively small fragment of a Type I tablet. It is large enough, however, to display a number of striking similarities with the Ur tradition. The section giš-rin₂ is followed immediately by ^{giš} al and ^{giš} u₃-šub which, after a gap, is followed by measuring vessels (^{giš} nig₂-½-sila₃; etc.). Moreover, the texts include a number of items not found anywhere else (e.g. ^{giš} al-sag-gal₂-la; ^{giš} al-sag-nu-gal₂-la; ^{giš} al-gú-sag).

Ur I-01 *UET* 7, 87 + *UET* 7, 91 + *UET* 6/3, 549

		JO1!	~L:X	161	£120	IIO5!	-!Y - - [
		rI01'	g[iš	401	5139	rII05'	giš da-[
220	5045	rI02'	giš [5126	rII06'	giš a_2 -ap[in]
	5045	rI03'	giš mu[d-	4.50	5136a		giš ama-apin
339		rI04'	giš gag-[450	5137		giš eme-apin
		rI05'	giš ni[g ₂ -			rII09'	giš eme-sig-apin
		rI06'	giš [rII10'	giš šu-ša-NINDA ₂ -apin
		rI07'	g[iš			rII11'	giš pa-al-kam-apin
		rI17'	g[iš			giš muš-ap	
		rI18'	giš [giš gag-mu	ıš-apin
352		rI19'	giš za-r[a-	455	5161	rII14'	giš sal-la-apin
357	5073	rI20'	giš mar-[456	5162	rII15'	giš gag-sal-la-api[n]
		rI21'	giš LUM-mar-[457	5159c	rII16'	giš nig-ap[in]
		rI22'	gi[š -ma]r-[458		rII17'	giš gag-nig-[
358		rI23'	giš [g]u-za-mar-g[id ₂ -	459	5166	rII18'	giš šu[dul?-
359		rI24'	giš za-ra-mar-gid ₂ -[rII19'	giš bar-bar-[
360		rI25'	giš gag-za-ra-mar-gi[d ₂ -	454	5158	rII20'	giš nig ₂ -PI-[
361		rI26'	giš sag-kul-mar-[rII21'	g[iš] gag-nig ₂ -PI-apin
		rI27'	giš HI-MAŠ-mar-[rII22'	giš sa-KIN-apin
364		rI28'	giš mud-ma[r-			rII23'	giš da-an-ga-apin
365		rI29'	giš gag-mud-ma[r-			rII24'	giš šu-kam?-apin
		rI30'	giš dar-mar-[444	5117	rII25'	giš šu-du ₇ -apin
		rI31'	giš gag-dar-mar-[468	5173	rII26'	giš gan ₂ -ur ₃
363	5085	rI32'	giš ma-an-za ₃ -ma[r-	469	5174	rII27'	giš gan ₂ -ur ₃ -sar-ra
370	5090	rI33'	giš u ₄ -sa[kar-			rII28'	giš za-ra-gan ₂ -ur ₃
		rI34'	giš [5180a		giš gag-za-ra-gan ₂ -ur ₃
		rI35'	g[iš	473	5183		giš sag-gan,-ur,
		rII01'	g[iš	472		rII31'	giš u ₅ -gan ₂ -ur ₃
		rII02'	giš [471	- 100	rII32'	giš sa-gan ₂ -ur ₃
		rII03'	giš [.,.		rII33'	giš na ₄ -gug-zi-na ₄ -gug
		rII04'	giš gag-x [rII34'	giš sag-du
		11107	Sio Sus A [11137	Sis sug-uu

```
411 5314 rII35'
                                                                 517 7a231 rIV03'
                          giš il<sub>2</sub>-il<sub>2</sub>
                                                                                            giš nig<sub>2</sub>-ban
412 5312 rII36'
                                                                 518 7a235 rIV04'
                                                                                            giš nig<sub>2</sub>-5-sila<sub>3</sub>
                          giš bar-bar
413 5317 rII37'
                                                                 520 7a237 rIV05'
                                                                                           giš nig<sub>2</sub>-1 sila<sub>3</sub>
                          giš tug<sub>2</sub>-tug<sub>2</sub>
414 5319 rII38'
                          giš nig,-zu
                                                                 521
                                                                               rIV06'
                                                                                           giš nig<sub>2</sub>-1/2 sila<sub>3</sub>
415 5318 rII39'
                                                                 523 7a240 rIV07'
                                                                                           giš nig<sub>2</sub>-2/3 sila<sub>3</sub>
                          giš gi-na
410 5308 rII40'
                                                                 524
                          giš nir-r[a]
                                                                               rIV08'
                                                                                           giš nig<sub>2</sub>-10 gin<sub>3</sub>
      5309 rII41'
                                                                 525
                                                                               rIV09'
                          giš [ni]r-[
                                                                                           giš nig<sub>2</sub> 5 g[in<sub>2</sub>]
                                                                 526a rIV10' giš nig_2 1 g[in_2]
418 6012 rII42'
                          giš g[a-
             rII43'
                                                                 527 6160 rIV11'
                          giš g[a-
                                                                                           giš s[a]
             rII44'
                                                                               rIV12'
                                                                                           giš sa-[
                          giš ga-[
             rII45'
                          giš [
                                                                               rIV13'
                                                                                           giš sa-[
426 6043 rIII01'
                                                                               rIV14'
                          giš LAGAB
                                                                                           giš sa-[
427 6044 rIII02'
                                                                       6165 rIV15'
                          giš LAGAB
                                                                                           [ ]-tur-[
428
     6045 rIII03'
                          giš LAGAB
                                                                       6163 rIV16'
                                                                                           [ s]a-mah
663
     6046 rIII04'
                          giš KUR
                                                                 530 6169
                                                                              rIV17'
                                                                                           [s]a-ur<sub>3</sub>
                                                                               rIV18'
664 6047 rIII05'
                          giš KUR
                                                                                           [ s]a-za<sub>3</sub>-la-an-na
665 6048 rIII06'
                          giš KUR
                                                                               rIV19'
                                                                                           [gi]š bur
666 6052 rIII07'
                          giš KAL
                                                                       6216 rIV20'
                                                                                           [gi]š mah
667 6053 rIII08'
                          giš KAL
                                                                 536 6220 rIV21'
                                                                                                   ]-na
668 6054 rIII09'
                                                                 537 6221 rIV22'
                          giš KAL
                                                                                              gi]dru-[]-mušen-na
      6055 rIII10'
                          [ UR]I
                                                                 538 6222 rIV23'
                                                                                                  ]-har-mušen-[n]a
                                                                                           Γ
      6056 rIII11'
                          [ UR]I
                                                                 543 4027 rIV24'
                                                                                           [ ] igi-[
      6057 rIII12'
                          [ UR]I
                                                                               rIV26'
                                                                                           traces
             rIII13'
                          Lost
                                                                               rIV27'
                                                                                           [g]iš il[lar]-giš
429 6081 rIII14'
                                                                        7a068 rIV28'
                          []BU
                                                                                           giš illar-zi
430 6082 rIII15'
                                                                 553 7a069 rIV29'
                                                                                           giš illar-šub
                          []BU
431 6083 rIII16'
                                                                 552a rIV30' giš illar-šu-lugal
                          gi[š] BU
432 6084 rIII17'
                          giš BU
                                                                       7a067 rIV31'
                                                                                           giš illar-DU-a
433 6092 rIII18'
                          giš sahar-BU
                                                                 554c 7a079 rIV32'
                                                                                           [gi]š LAGAB-illar
434 6097 rIII19'
                          giš gi-bu
                                                                       7a063 rIV33'
                                                                                           giš ti
435a rIII20' giš g[i]-bu-ŠID
                                                                 555 7a048 rIV34'
                                                                                           giš pan
      6099 rIII21'
                          giš [g]ur<sub>2</sub>
                                                                 557 7a052 rIV35'
                                                                                           giš gag-pan
             rIII22'
                                                                 558
                          giš [] gur<sub>2</sub>
                                                                               rIV36'
                                                                                           giš gag-si-sa<sub>2</sub>
436 6108 rIII23'
                                                                 559
                                                                               rIV37'
                                                                                           [] gag-šu-e[š?]
                          giš rin<sub>2</sub>
                                                                 582 7b012 rV01'
437 6110 rIII24'
                          [ ri]n<sub>2</sub>-BU-bi
                                                                                                 ]-ninda
                                                                        7b013 rV02'
438 6113 rIII25'
                           ri n_2-1(A\dot{S})-gun
                                                                                                 -nin]da-gur,-ra
                          [ ri]n_2-60(DIŠ)-ma-na-
439
             rIII26'
                                                                               rV03'
                                                                                           [ m]ar-ninda-gur
                                                                 585 7b026 rV04'
                          la,
                                                                                           [] mar-i[m'-
             rIII27'
                          gi[š]-rin<sub>2</sub>-MIN-la<sub>2</sub>
                                                                        7b002 rV05'
                                                                                           [] mar-še
477 7a152 rIII28'
                          giš al
                                                                 587
                                                                               rV06'
                                                                                           [] mar-še-da
479 7a166 rIII29'
                                                                               rV07'
                          giš [a]l-šub
                                                                                           [] mar-ra
478 7a155 rIII30'
                          giš [a]l-sag
                                                                               rV08'
                                                                                           [] mar-gi?
                                                                               rV09'
                                                                                           [] mar-LAGAB-da
             rIII31'
                          giš al-sag-gal2-la
             rIII32'
                          giš a[l-sa]g-nu-gal2-la
                                                                 589
                                                                               rV10'
                                                                                           giš ŠID-ma[r]
                                                                 591 7b033 rV11'
             rIII33'
                          giš al-[-g]al_2?-l[a?]
                                                                                           giš kul?-mar
      7a165 rIII34'
                          giš al-QUM-DUG<sub>3</sub>
                                                                       7b029 rV12'
                                                                                           giš lagab-mar
                                                                                           giš še-ra-ah
480 7a159 rIII35'
                          giš a[1-z]u,-2
                                                                        7b035 rV13'
482 7a161 rIII36'
                                                                       7b036 rV14'
                               -z]u_2-4
                                                                                                ]-še-ra-ah
                          [
483 7a169 rIII37'
                                                                               rVI01'
                          [
                               ]-šub
                                                                                               ]-a
                                                                                           ſ
485
     7a170 rIII38'
                                                                       4407 rVI02'
                                                                                              ]-muš
                          ]-sig<sub>4</sub>
                                                                                           484 7a173 rIII39'
                                 1-ab-ba
                                                                               rVI03'
                                                                                           traces
                          [
             rIII40'
                          [
                              ]-tum
494 6157 rIII41'
                             ]-LU
             rIV01'
                          giš nig<sub>2</sub>-[
             rIV02'
                          giš nig<sub>2</sub>-baneš
```

Commentary to Ur I-01

rI32' Ma-an-za₃ is very probably derived from manz_zu, the common Akkadian rendering of gir₃-gub

(footboard).

rII19' In Emar the entry gis bar-bar-apin is rendered $uk\hat{u}$ (Emar 6/4, p.70: 168'). The gis bar-bar or $uk\hat{u}$ is the

weaving shuttle (see the commentary to the Nippur version line 412), and apparently also the name

of a part of the plough.

rII34' For ^{gis}sag-du (warpbeam) see the commentary to Nippur lines 414-416.

Ur IV-01 *Archaeologia* 70 (1920), p.125 (UR 1918-10-12, 458)

Ur IV-02 Archaeologia 70 (1920), p.125 (UR 1918-10-12, 459)

Ur IV-03 *UET* 6/3, 342

Ur IV-04 *UET* 6/3, 338

137 3498 01 giš gilim-an-na 02 giš gilim-abzu

Ur IV-05 *UET* 6/3, 373

666 6052 01 giš KAL 667 6053 02 giš KAL 668 6054 03 giš KAL

NP I-03 *BRM* IV 29 + 30

326	5006	I01	giš gigir	332	5023	I06	giš sahar-gi-gigir
327	5015	I02	giš e ₂ ?-gigir	344	5025	I07	giš si-gigir
328	5016	I03	giš e ₂ - ^{kuš} usan ₃ -gigir			I08	giš sag-gigir
345		I04	giš gaba-gigir			I09	giš BAD-gigir
346	5021	I05	giš gaba-gal ₂ -gigir		5039	I10	giš gu-za-gigir

```
338 5045 I11
                                                                      532 6171 V06'
                            giš mud-gigir
                                                                                                  giš sa-šu<sub>2</sub>-uš-gal
339
               I12
                                                                                     V07'
                                                                                                   giš sa-TUG2-an-dim2
                            giš gag-mud-gigir
               I13
                            giš i-zi-GAM-gigir
                                                                             6163
                                                                                     V08'
                                                                                                  giš sa-mah
342 5054
                                                                                     V09'
              I14
                            giš [um]bin-gigir
                                                                                                  giš sa-gar<sub>3</sub>-ra
343 5055
              I15
                                                                                     V10'
                            giš g[ag- ]-gigir
                                                                                                  giš sa-dul-la
                                                                      528 6164 V11'
      5029
              I16
                            giš za-ra-gigir
                                                                                                  giš sa-gal
               I17
                                                                      536 6220
                                                                                     V12'
                            giš gag-za-ra-gigir
                                                                                                   giš har-mušen-na
                                                                                                   giš gidru-har-mušen-[
               I18
                                                                      537
                                                                             6221
                                                                                     V13'
                            giš kab-il<sub>2</sub>-gigir
               I19
                               s]ag-kul-gigir
                                                                      538 6222
                                                                                    V14'
                                                                                                   giš gur<sub>2</sub>-har-mušen-[
               I20
                            {traces} gigir
                                                                                     V15'
                                                                                                  giš X-[
               II01
                                                                                     V16'
                            giš [
                                                                                                  g[iš
      5095g II02
                                                                                     rI01'
369
                            giš gag-um[bin-
                                                                                                  giš LUH-x-[
      5095d II03
                                                                             7b048 rI02'
                                                                                                  giš DIM<sub>3</sub>-DIM<sub>3</sub>-[
                            giš gu<sub>2</sub>-um[bin-
               II04
                            giš a,-umb[in]-m[ar-
                                                                                     rI03'
                                                                                                   giš nig,-[
363 5085
               II05
                            giš gir<sub>3</sub>-mar-[
                                                                             7b115 rI04'
                                                                                                  giš sig<sub>3</sub>-[
               II06
                            giš dul<sub>3</sub>-la?-mar-[
                                                                             7b116 rI05'
                                                                                                  giš sig<sub>3</sub>-sig<sub>3</sub>-e<sub>2</sub>-[
373 5083
              II07
                                                                                     rI06'
                            giš e[n<sub>3</sub>?-du]r?-m[ar-
                                                                                                  giš sag-[
               II08
                                                                      598 7b040 rI07'
                            giš šid-[
                                                                                                  [ ba]lag?-[
               II09
                            giš šid-d[u_{10}]-r[u-
                                                                                     rII01'
                                                                                                  gi[š
355 5068 II10
                                                                                     rII02'
                            giš šid-du<sub>10</sub>-a-b[ar-
                                                                                                  giš [
442
      5110 II11
                                                                                     rII03'
                            giš a[pin]
                                                                                                  giš ur[i?]
               II12
                            giš apin-[
                                                                      630
                                                                                     rII04'
                                                                                                  giš ma-gaz
448 5131 II13
                                                                      631
                                                                                     rII05'
                            giš apin-gud-[
                                                                                                   giš ma-gaz-b[ur3-
444 5117 II14
                            giš apin-šu-du<sub>7</sub>
                                                                      682 7a209 rII06'
                                                                                                  giš kun-z[i]
445 5118 II15
                                                                      683 7a210 rII07'
                                                                                                  giš nig<sub>2</sub>-UM[BIN]
                            giš apin-nu-šu-du,
446 5123
              II16
                                                                                     rII08'
                            giš apin-tug<sub>2</sub>-sig<sub>18</sub>
                                                                                                  giš [
               II17
                            giš apin-[E]ZEN-X
                                                                                     rII09'
                                                                                                  giš [
                            giš apin-giš šu-kar2-bir-bir-
      5128
              II18
                                                                                     rII10'
                                                                                                  giš [
                                                                                     rII11'
                                                                                                  giš SU-[
      5127 II19
                                                                                     rII12'
                                                                                                  giš x-erin<sub>2</sub>?-[
                            giš apin-a<sub>2</sub>-kar<sub>2</sub>
449
      5135 II20
                            giš sag-apin
                                                                                     rII13'
                                                                                                  giš nig<sub>2</sub>-dim<sub>2</sub>-dim<sub>2</sub>-ma
      5136 II21
                            giš gag-sag-apin
                                                                      679 3477 rII14'
                                                                                                  giš nim-kur-ra
451 5144 II22
                            [g]iš [k]a-šu<sub>2</sub>-ap[in]
                                                                                     rII15'
                                                                                                  giš nam-d[ul?]
                                                                      681 7b139 rII16'
               II23
                                                                                                  giš šu-lu<sub>2</sub>
                            traces
               Ш
                            Only a few times GIŠ
                                                                                     rII17'
                                                                                                  giš kur-ra
                                                                                     rIII01'
                            preserved.
                                                                                                  g[iš
437 6110 IV01'
                                                                                     rIII02'
                            [g]iš rin<sub>2</sub>-li[b-
                                                                                                  giš [
               IV02'
                            lost
                                                                                     rIII03'
                                                                                                  giš X [
439
               IV03'
                                    -m]a-na-l[a<sub>2</sub>]
                                                                                     rIII04'
                                                                                                  giš DINGIR [
                            IV04'
                                                                                     rIII05'
                                                                                                  giš šu-[
                            [
                                  ]-rin<sub>2</sub>
477 7a152 IV05'
                            [ ] al
                                                                                     rIII06'
                                                                                                  giš BAR?-[
               IV06'
                            [gi]š al-ki
                                                                                     rIII07'
                                                                                                  giš [
      7a154 IV07'
                                                                                     rIII08'
                            [gi]š al-sag
                                                                                                  giš [
               IV08'
                            giš al-sag-gal2-la
                                                                                     rIII09'
                                                                                                  giš X [
               IV09'
                                                                                     rIII10'
                            giš al-sag-nu-gal<sub>2</sub>
                                                                                                  lost
               IV10'
                            giš al-mud-sag
                                                                                     rIII11'
                                                                                                  g[iš
               IV11'
                                                                                     rIII12'
                            giš al-u<sub>3</sub>?-šub
                                                                                                  giš [
478 7a155 IV12'
                                                                                     rIII13'
                            giš al-zu<sub>2</sub>
                                                                                                  giš [
480 7a159 IV13'
                                                                                     rIII14'
                            giš al-[z]u_2-2
                                                                                                  giš r[a-
               IV14'
                            giš al-[
                                                                                     rIII15'
                                                                                                  giš r[a-
               V01'
                                                                                     rIII16'
                                                                                                  giš X [] HU
                            [] nig<sub>2</sub>-x [
527 6160 V02'
                                                                                     rIII17'
                                                                                                  giš X [ ]-ta-bal
                            giš sa
534
     6175
             V03'
                            giš sa-du<sub>3</sub>
                                                                                     rIII18'
                                                                                                  giš NIG<sub>2</sub>?-[ ] x-bur?-ra
535
               V04'
                            giš sa-NI
                                                                                     rIII19'
                                                                                                  giš ME?-[ ]-da-ne
531 6183a V05'
                                                                                     rIII20'
                                                                                                  giš še-[ ]-da-ne
                            giš sa-giš-gi
```

```
rIII21'
                            giš ŠI[D?- ]-AK
704 7b304 rIII22'
                            giš ša-[UR]U-ša
              rIII23'
                            giš BUR?-[]-tag<sub>4</sub>
705 7b307 rIII24'
                            giš IGI-[] KU
              rIII25'
                            giš še-[gi]bil-NI-a
                            giš š[u-nig]in,-na
              rIII26'
              rIV01'
                            [Š]U+NIGIN, 6 šu-ši 28
                            mu-bi
                            iti kin-dinanna ud-5?-[
              rIV02'
              rV01'
                            erased
              rV02'
                            mu sa-am-su-i-lu-na
                            lugal-e
                            a<sub>2</sub>-ag<sub>2</sub>-ga<sub>2</sub> den-lil<sub>2</sub>-ka
```

Commentary to NP I-03

rI04-05'The items are to be restored ^{gis}sig₃-[sig₃] and ^{gis}sig₃-e-[pa-na]. The reading sig₃ for PA is now demonstrated by the corresponding Emar entries (see *Emar* 6/4, p.76, 419'-420' with Civil 1989, p.13):s i-si-ig = *ši-in-ni-tum*; sig₃-sig₃-e₂-pa-na = *da-pa-na*. See also NP P-02 VII17-18'.

NP I-04 *SMEA* 18 (1977), Plate III

```
437 6110 I01'
                                   [] rin<sub>2</sub>-lib-[b]i
438 6113 I02'
                                   [gi]\dot{s} rin<sub>2</sub>-1(A\dot{S})-gun
439
                  I03'
                                   [gi]š rin<sub>2</sub>-ma-na-la<sub>2</sub>
440 6116 I04'
                                   [gi]š e_2-r[in_2]
477 7a152 I05'
                                   [gi]š al
479 7a166 I06'
                                   [] al-šub
                  I07'
                                   [ a]l-k[i]
                  rI01'
                                   giš al-sag-gal<sub>2</sub>-[
                  rI02'
                                   giš al-nu-sag-gal2-la
                  rI03'
                                   giš al-gu<sub>2</sub>-sag
                  rI04'
                                   giš al-<sup>giš</sup>ur<sub>2</sub>
478 7a155 rI05'
                                   giš al-zu<sub>2</sub>
480 7a159 rI06'
                                   giš al-zu<sub>2</sub>-2
481 7a160 rI07'
                                   giš al-zu<sub>2</sub>-3
482 7a161 rI08'
                                   giš al-zu<sub>2</sub>-4
                                   [g]iš al+ur<sub>2</sub>-gaz-[
        7a165 rI09'
483 7a169 rI10'
                                   giš u<sub>3</sub>-DUR<sub>2</sub>
                                   giš u<sub>3</sub>-DUR<sub>2</sub>-ab-ba
484 7a173 rI11'
485 7a170 rI12'
                                   [gi]š u<sub>3</sub>-DUR<sub>2</sub>-sig<sub>4</sub>
486 7a171 rI13'
                                   [gi]š u_3-DUR<sub>2</sub>-sig_4-[
                  rII01-03
                                   lost
                  rII04
                                         -s]ila<sub>3</sub>
                  rII05
                                         -s]ila<sub>3</sub>
                                   ſ
                  rII06
                                         -s]ila<sub>3</sub>
                  rII07
                                          g]in<sub>2</sub>?
                  rII08
                                          g]in_2?
                                   [
```

NP III-03 NBT 1891

328 5016 01 $giš e_2$ -usan₃-gigir

```
345
            02
                       giš gaba-gigir
346 5021 03
                       giš gaba-gal<sub>2</sub>-gigir
332 5023 04
                       giš sa[har]-gi-gigir
344 5025 05
                       giš si-gigir
            06
                       giš sag-gigir
            07
                       giš šu-kal-gigir
     5039
            08
                       giš gu-za-gigir
338 5045 r01
                       giš mud-gigir
339
            r02
                       giš gag-mud-gigir
            r04
                       traces (erased)
```

5.6.3 Texts from Uruk

Old Babylonian school texts from Uruk have been published by Cavigneaux 1982 and Cavigneaux 1996. Among them are only two pieces with ur₅-ra giš. Both derive from the so-called 'Scherbenloch.' This was a hole that was filled with waste in antiquity. It included a large number of clay tablets: administrative texts, letters, literary texts, and school tablets. According to Cavigneaux the 'Scherbenloch' tablets constitute a coherent archive (Cavigneaux 1996, p.5). This archive may be dated by means of the administrative tablets, which carry year names between Rim-Sîn 32 and 43.

The two pieces with ur₅-ra giš are too small to compare the Uruk tradition with anything else. The first is a type II text. A small part of one of the pupil's columns of the obverse has been preserved. The second piece is of unknown type.

```
Uk II-01 Cavigneaux 1996, no. 176
```

```
381 5218 I01' [ ]-tab-ba
5240 I02' [ i]g-gi-guruš<sub>3</sub> (URUxGU!)
385 5237 I03' giš ig-mi-r[i<sub>2</sub>-z]a
```

Uk U-01 Cavigneaux 1996, no. 174

5.6.4 Unprovenanced Giš Lists

In this section a wide variety of giš texts has been brought together. Texts kept in the museums of Berlin, Yale, London, Oxford, and Leiden have been examined by autopsy. For the other tablets published copies or transliterations were used.

NP P-01 KM 89542: see the Isin version (§5.6.1).

NP P-02 *MSL SS*1, 96 (Plates XIX-XX)

		TO1 001	** * * * * * * * * * * * * * * * * * * *			TITO 11	r 3'
		I01-02'	giš ig items, broken.			III01'	[-ap]in
		I03'	[] x-PA-ra			III02'	[-ap]in
380a		I04'	[]-pa-pah			III03'	[-ap]in
		I05'	[]-e ₂ -gu-la			III04'	[-ap]in
	5243	I06'	[] gi-gam-ma			III05'	[-ap]in
		I07'	[i]g-X-X			III06'	[]-apin
384	5239	I08'	[] ig-ze ₂ -na	466		III07'	[]-am-apin
385	5237	I09'	[] ig-mi-ri ₂ -za	451	5144	III08'	[k]a-šu ₂ -apin
383	5206	I10'	[i]g-ul-li ₂ -a		5169b	III09'	$[-g]ur_{10}$ -apin
		I11'	[i]g-ul-[l]i ₂ -a	455	5161	III10'	[]-sal-apin
		I12'	[]-me			III11'	[] x-HAR-apin
		I13'	[ba]r?-da	452	5152		[š]u-sag-apin
		I14'	traces		5157		[]-kud-apin
		I15'	traces			III14'	[]-PI-apin
		I16'	[] ig-[]-giš?-UR ₄ ?-[]-	15 1	3130	III15'	[g]a-apin
		110			5163	III16'	[]-kul-apin
		I17'	ga [] suh ₄ -[i]g		3103	III10 III17'	_
			· · -				[]-apin
		I18-34'	traces and detached			III18'	[-K]A?-apin
200	5070	1051	signs			III19'	[]-apin
		I35'	[-k]ul			III20'	[]-apin
399	5271	I36'	[-n]im			III21'	[]-apin
		I37'	[-k]ur			III22'	[-ap]in
		I38'	traces			III23'	[-ap]in
		I39'	[]-tar			III24'	[-ap]in
		I40'	[]-DU-DU			III25'	[-ap]in
595	7a145	I41'	[]-dag ² -si ²			III26-31'	lost
		II01'	lost			III32'	traces
422	6019	II02'	[] b[al]	474	5160	III33'	[$]$ -an-gi[d_2 ?]
		II03'	[] bal-x [III34'	[] kun?-[
423	6030	II04'	$g[i\check{s}] e_2$ -[III35'	traces
424	6026	II05'	giš sag-[III36'	[] x-ra-kam?
425	6028	II06'	giš me-te-[488	6134	III37'	[b]a-al-la ₂
		II07'	[giš] [490	6135	III38'	[-š]ir-dili
		II08'	giš [III39'	[] X-la ₂
		II09'	giš [III40'	[] A
		II10'	giš KUR? [491	6150	Ш41'	[]-ri ₂ -qum
		II11-29	lines mostly empty	493		III42'	[]-tar-re
432	6084		[] B[U?]	492	0100	III43'	[-z]i-ri ₂ -qum
	6092		giš sahar-B[U]	1,72		III44'	[]-bal
	6097		giš bu ₁₀			III45'	[] KID
	6098		giš bu ₁₀ -gi.ma-an-s[im]			IV01-02'	lost
433	6099		giš gur ₂	526	6220		
	6100				6222		giš har-mušen-[
			giš gur ₂ -gi.ma-[giš []-har-mušen-[
	6103		giš gur ₂ -ba-[537	6221		giš gidru-har-mušen-[
	C107	II37'	giš gur ₂ -X	539	7.020	IV06'	giš ellag ₂ -[
	6107		giš gur ₂ -dub ₂ -dub ₂	550	7a039		giš šu-[
		II39'	giš da-[- 10-	IV08'	giš š[u?-
		II40'	giš [564	7a105		giš igi-k[al?
		II41'	giš balag?-[576		IV10'	giš u ₄ -[sakar]
		II42'	giš [577		IV11'	giš gag-u ₄ -[sakar]
		II43'	giš [IV12'	giš [

```
IV13'
                           giš [
                                                                    479 7a166 V38'
                                                                                               giš al-š[ub]
              IV14'
                                                                    483 7a169 V39'
                           giš [
                                                                                               [] u_3?-\check{s}[ub]
              IV15'
                           giš dim-[
                                                                          7a170 V40'
                                                                                               [] u<sub>3</sub>?-šub-s[ig<sub>4</sub>]
              IV16'
                           giš [
                                                                    486 7a171 V41'
                                                                                               [] u<sub>3</sub>-šub-sig<sub>4</sub>-al-ur<sub>3</sub>-ra
              IV17'
                           giš I[GI-
                                                                    484
                                                                          7a173 V42'
                                                                                               [] u<sub>3</sub>-šub-ab-ba
549 6237 IV18'
                                                                          7a174 V43'
                           giš za-am-ru-[
                                                                    508
                                                                                               [ ] dur,
              IV19'
                                                                          7a175 V44'
                           giš N[E]-gi-z[um]
                                                                    511
                                                                                               [] dur<sub>2</sub>-sig<sub>4</sub>
              IV20'
                                                                    512 7a176 V45'
                           giš KAxX-ša-z[um]
                                                                                               [ d]ur<sub>2</sub>-sig<sub>4</sub>-al-ur<sub>3</sub>-ra
      6238 IV21'
                                                                    510 7a178 V46'
                                                                                               [] dur<sub>2</sub>!-ab-[
                           giš e<sub>2</sub>-m[i-
555
     7a048 IV22'
                           giš [pan]
                                                                                   V47'
                                                                                               [ ] dur<sub>2</sub>-g[i?
      7a049 IV23'
                                                                                   V48'
556
                           giš e_2-[
                                                                                               traces
                                                                                   VI01-11'
      7a052 IV24'
                                                                                               measuring vessels
557
                           giš gag-[
              IV25'
                                                                                   VI12-19'
558
                                                                                               unidentified
                           giš gag-si-[
              IV26'
                           [] m[a,?]
                                                                    580 7b001 VI20'
                                                                                                giš [mar]
              IV27'
                           [ ]-GAM-mar-x-[
                                                                    586 7b005 VI21'
                                                                                               giš mar-še-[
              IV28'
                                                                                   VI22'
                           [ ]-mar-x-[
                                                                                               giš mar-[
              IV29'
                                                                                   VI23'
                           traces
                                                                                               giš mar-[
                                                                           7b013 VI24'
              IV30'
                           traces
                                                                                               giš mar-ninda-kur,-r[a]
              IV31'
                                                                    584 7b014 VI25'
                                                                                               giš mar-nig<sub>2</sub>-sur-r[a]
                           traces
              IV32'
                                                                           7b016 VI26'
                           traces
                                                                                               giš mar-u[dun]
              IV33'
                                                                    583
                                                                                   VI27'
                                                                                                giš mar-ninda-s[ig<sub>5</sub>?]
                           [] gin_2-[
              IV34'-end traces and detached
                                                                                   VI28'
                                                                                               giš mar-x [
                                                                    585
                                                                          7b026 VI29'
                           signs.
                                                                                               giš mar-im-m[a]
              V01-06'
                           traces
                                                                    590
                                                                          7b030 VI30'
                                                                                               giš eme-ma[r]
              V07'
                                                                          7b033 VI31'
                           [ ]-bal
                                                                                               giš kul-m[ar]
              V08'
                                                                           7b029 VI32'
                           [ ]-BUR<sub>2</sub>
                                                                                               giš lagab-mar
656
              V09'
                                                                           7b034 VI33'
                             ] ninda<sub>2</sub>
                                                                                               giš d[ubšig?]
657
              V10'
                              ] ninda,
                                                                           7b034 VI34'
                                                                                               giš dubšig-za-l[al<sub>2</sub>?]
658
              V11'
                           [ ] ninda<sub>2</sub>
                                                                    601
                                                                          7b063 VI35'
                                                                                               giš al-[
      4407 V12'
                                                                    602 7b059 VI36'
                           ſ
                             ]-muš
                                                                                               giš al-gar-[
      4409 V13'
                           [ ]-gi-muš
                                                                          7b074 VI37'
                                                                                               giš s[a]-bi<sub>2</sub>-[
314 4417
              V14'
                              ]-gan
                                                                          7b077 VI38'
                                                                                               giš mi-ri<sub>2</sub>-[
315 4419 V15'
                                                                                   VI39'
                           -z]i-gan
                                                                                               giš BAR-x-[
645 4410 V16'
                           [] gisal
                                                                    610 7b044 VI40'
                                                                                               giš za-am<sub>3</sub>-[
646 4411
              V17'
                                 ]-šu
                                                                                   VI41'
                                                                                               giš x-za<sup>2</sup>-[
                           4413
              V18'
                                                                                   VI42'
647
                                 1-anše
                                                                    611
                                                                                               giš kul-za<sub>3</sub>-[
                           ſ
619
              V19'
                           [] šu-kar,
                                                                    612 7b050 VI43'
                                                                                               giš dub-[
                                                                                   VI44'
      7a138 V20'
                           [] gur<sub>7</sub>
                                                                                               giš dim<sub>3</sub>-[
              V21'
                           []da-da
                                                                          5061 VI45'
                                                                                               giš dim<sub>3</sub>-m[ar?-
703
              V22'
                           [] nam-ri
                                                                          5062 VI46'
                                                                                               giš dim<sub>3</sub>-m[ar?-
621
     7a134 V23'
                                                                                   VI47'
                           [] ebir
                                                                                               giš dim<sub>3</sub>-[
      7a128 V24'
624
                              ]-an-nu-u<sub>2</sub>
                                                                                   VI48'
                                                                                               traces
      7a129 V25'
                                                                                   VII01'
                                                                                               lost
                           ſ
                                   ]-um-a
627 7a129 V26'
                           [
                                   ]-um-kaš
                                                                                   VII02'
                                                                                               [] gag-[
                                                                                   VII03'
              V27'
                           traces
                                                                                               [] gag-šir-[
              V28'
                           unidentified signs
                                                                    684
                                                                                   VII04'
                                                                                               [] šagan-[l]a
629 7a141 V29'
                                                                           7b291 VII05'
                           [ za]bar-gub
                                                                                               [g]am_3?
475 7a148 V30'
                                                                                   VII06'
                           [] suhur
                                                                                               [] s[u
              V31'
                                                                                   VII07'
                           [ ] x-suhur-ra
                                                                                               [] traces
477 7a152 V32'
                           [ ] al
                                                                    541
                                                                                   VII08'
                                                                                               -k]a-tar-ra
                                                                    541a VII09' g[iš ]-DU-tur-ra
      7a153 V33'
                           [a]l-sa-l[a<sub>2</sub>]
478 7a155 V34'
                                                                    662
                                                                                   VII10'
                           giš al-zu<sub>2</sub>
                                                                                               g[iš] gir<sub>3</sub>
480 7a159 V35'
                           giš al-zu<sub>2</sub>-2
                                                                    211 4143 VII11'
                                                                                               gi[š gi]r<sub>3</sub>-gub
481 7a160 V36'
                           giš al-zu,-3
                                                                    700
                                                                                   VII12'
                                                                                               [] ur?
482 7a161 V37'
                           giš al-zu<sub>2</sub>-4
                                                                                   VII13'
                                                                                               traces
```

```
VII14'
                         [] si
             VII15'
                         [] s[a?-]-si
             VII16'
                         [] x-gin<sub>2</sub>?-[]-si
      7b115 VII17'
                         [] sig<sub>3</sub>-sig<sub>3</sub>
      7b116 VII18'
                         [] sig<sub>3</sub>-sig<sub>3</sub>-[ -b]a-an-
                         n[a]
690
             VII19'
                         [ ] šu
693 7a119 VII20'
                         [ ] dur
             VII21'
                         []X
                         [] ENxKAR,
321 4428
             VII22'
             VII23-31' traces or unidentified
                         signs
      6064 VII32'
                         giš KUD
      6065 VII33'
                         [gi]š KUD
      6066 VII34'
                         [] KUD
             VIII01'
                         giš [
             VIII02'
                         giš [
             VIII03'
                         giš [
             VIII04'
                         lost
                         [] QUM-[
             VIII05'
      7b153 VIII06'
                         giš alam-<sup>a</sup>[
                         giš alam-[
             VIII07'
             VIII08'
                         giš [
             VIII09'
                         giš
             VIII10'
                         [] MA-[
             VIII11'
                         giš ma-ab-[
             VIII12'
                         giš QUM x x
                         [gi]š al-[]-MA
             VIII13'
             VIII14-22 traces and unidentified
                         signs
```

Commentary to NP P-02

II11-29 This damaged section very probably contained the items ^{giš}KUR; ^{giš}KAL; ^{giš}URI, etc. The final lines of the section ^{giš}BU have been preserved.

IV09-21' The interpretation of this section is based upon a comparison with the Emar text (*Emar* 6/4, p.73-74) and parallels.

VII17-18' See the commentary to NP I-03 rI04-05' (§5.6.2).

NP I-01 VAT 06588

	I01'	giš [3037	I14'	[] hašhur ar-ma-nu-um
004 3004	I02'	giš hu-lu-u[b]	3039	I15'	[h]ašhur-kur-di-lum
005 3005	I03'	giš ša ₃ -kal	3045	I16'	[]-peš ₃
006 3006	I04'	giš kin ₂		II01'	gi[š
006a 3007	I05'	[g]iš kin ₂ -babbar		II02'	gi[š
006b 3008	I06'	[gi]š kin ₂ -gi ₆		II03'	gi[š
007 3011	I07'	[gi]š gi ₆		II04'	gi[š
	I08'	[] babbar		II05'	gi[š
012 3029	I09'	[] peš ₃		II06'	gi[š
	I10'	[] peš ₃ -da-di		II07'	giš [
3030e	I11'	[] peš ₃ -še-er-g[u]		II08'	giš [
013 3032	I12'	[] hašhur		II09'	gi[š] m[a-
014 3033	I13'	[] hašhur-kur-ra		II10'	giš ma-nu-[

```
044 3164 II11'
                       giš ma-nu-gibil-a-[
                       giš ma-nu-lu<sub>2</sub>-kam
     3165 II12'
                       giš [ ]-nu-kal
044a 3171 II13'
043 3163 II14'
                       [ š]u-a-AG
            II15'
                       traces
                       gi[š
            III01'
            III02'
                       gi[š
            III03'
                       gi[š
            III04'
                       gi[š
                       [g]iš [
            III05'
```

NP I-02 *LTBA* I 79

								. •
			I01'	[] X	215	4147		giš nu ₂ -AŠ-nu ₂
			I02'	[] nimbar	216	4148	II27'	giš nu ₂ -ki-nu ₂
			I03'	[] nimbar	217	4149	II28'	giš nu ₂ -gu ₂ -zi-da
			I04'	[] nimbar			II29'	giš nu ₂ -umbin
			I05'	[] nimbar		4156	II30'	giš nu ₂ -umbin-sal-la
			I06'	[] X-nimbar		4155	II31'	giš nu ₂ -umbin-gud
			I07'	[]-na-nimbar			II32'	giš nu ₂ -gar ₃ -ga-ku ₃ -sig ₁₇ -
			I08'	[] X-da-nimbar				ra
			I09'	[] ha?-ŠID?-ma-nimbar			II33'	[ga] r_3 - ga - x -[
			I10'	[gi]š da-nimbar	189	4110	III01'	[-taska]rin?
0	94	3380	I11'	[gi]š TUG ₂ -nimbar	191	4113	III02'	[-z]a-ša ₃ -kal
			I12'	[] IŠ-nimbar	163	4072	III03'	giš gu-za-sir ₃ -da
			I13'	[] SU-nimbar	169	4095	III04'	giš gu-za-anše(?)
			I14'	[h]a-ra-nimbar		4088	III05'	giš gu-za-lugal
			I15'	[a]n-nimbar	164		III06'	giš gu-za-ma ₂ -lah ₅
			I16'	[]-nimbar			III07'	[g]u-za-ki-mah
			I17'	[]-nimbar			III08'	[g]u-za-šu-nigin ₂ ?-
			I18'	[]-nimbar			11100	ban ₃ -da
			I19'	[]-nimbar	200	4126	III09'	giš sa[g]-gu-za
			I20'	[]-nimbar	201	4124	III10'	giš di ₅ -gu-za
			I21'	[-nim]bar	202	4125	III11'	giš ezen-gu-za
			I22'	[nimba]r	203	4121	III12'	giš umbin-g[u-
			I23'	[nimba]r		4188	III13'	giš banšur
			I23'	nimba]r	234	4100	III13'	giš banšur-lu ₂ -du ₇
			II01'	-			III14 III15'	giš banšur-MUL
			II01 II02'				III15 III16	giš banšur-GAM-ma
				s]uhuš?				•
			II03'	[]-SU			III17'	[banš]ur-dag(?)-ga
			II04'	$[-u]s_2-a$			III18'	[] X-X
			II05'	traces			III19'	[banš]ur-hu-un-nu-um
			II06'	traces	220	4100	III20'	[banš]ur-zag-gub-ba
			II07'	lost	238	4199	III21	[] banšur-zag-gar-ra
			II08'	[] GAM-[239	4204	III22'	[] ka-giškara ₄
			II09'	giš ŠU-[III23'	[] ka-giškara ₄ -[
			II10'	giš TUG ₂ -[III24'	[] ka-giškara ₄ -[
			II11'	giš gur ₂ -gur ₂ -[III25'	giš ka- ^{giš} kara ₄ -[
			II12'	giš gur ₂ -gur ₂ -r[a?	233	4181	III26'	giš ma-al-LIŠ
			II13'	giš bara ₂ ?-[231	4174	III27'	giš dilim ₂ -dilim ₂
			II14'	giš GIR ₂ +KI??	230	4175		giš dilim ₂ -gal
			II15'	giš gir ₃ -gub		4176	III29'	giš dilim ₂ -tur
2	12		II16	giš gir ₃ -gub- ^d lama	241		III30'	giš maš-tak(?)-da
			II17'	giš gag-gar ₃ -b[a]	442		III31'	[gi]š apin
2	45	4223	II18'	giš mur-zi-nu-um		5135	III32'	[] sag-apin
			II19'	giš U.PIRIG?-[III33'	[]-sag-apin
			II20'	giš DAG?-na[m]		5136	III34'	[g]ag-sag-apin
			II21'	giš nam-TUK+PI-TAR-	461	5139	III35'	[d]a?-apin
				LA		5140	III36'	[] a ₂ ?-apin
2	61a	II22'	giš me-ta-		463	5141	III37'	[l]i(?)-ap[in]
2	61	4251	II23'	giš ba-ŠU-DIM ₂			III38'	[]-a[pin]
2	62	4252	II24'	giš eme-sig			III39'	[]-a[pin]
2	14	4146	II25'	giš nu ₂			III40'	[]-a[pin]

```
594
             III41'
                                                                      6060 V13'
                         traces
                                                                                          giš BAD
             IV01'
                                                                666
                                                                      6052 V14'
                                                                                          giš KAL
                         giš RI-[
             IV02'
                         giš dal-d[al-
                                                                667
                                                                      6053
                                                                             V15'
                                                                                          giš KAL
             IV03'
                         giš mar-gid2-d[a-
                                                                668
                                                                      6054
                                                                             V16'
                                                                                          giš KAL
351 5059
             IV04'
                         giš gag-[ ]
                                                                429
                                                                      6081
                                                                              V17'
                                                                                          giš BU
             IV05'
                                                                      6082
                                                                                          giš BU
352
                         giš za-ra-gag-sa[l<sub>4</sub>]
                                                                430
                                                                              V18'
             IV06'
                                                                431
                                                                      6083
                                                                              V19'
                                                                                          giš BU
                         giš gag-za-ra-gag-sal,
353
             IV07'
                                                                432
                                                                      6084
                                                                              V20'
                                                                                          giš BU
                         giš umbin-gag-sal<sub>4</sub>
                                                                      4242 V21'
354
             IV08'
                         giš ŠID-gar-ra
                                                                255
                                                                                          giš [naga<sub>3</sub>]
355
     5068 IV09'
                         giš ŠID-bar-ra
                                                                256
                                                                      4243 V22'
                                                                                          giš naga<sub>3</sub>-[še]
356 5070 IV10'
                         giš ŠID-ša<sub>3</sub>-ga
                                                                             V23'
                                                                257
                                                                      4244
                                                                                          giš naga<sub>3</sub>-še-giš-[i<sub>3</sub>]
                                                                      4247 V24'
326 5006 IV11'
                                                                259
                         giš gigir
                                                                                          giš naga,-tukul-g[az]
      5015 IV12'
                                                                      4211
                                                                              V25'
                                                                                          giš tur-UD-HUB2-[
327
                         giš e<sub>2</sub>-gigir
328
      5016 IV13'
                         giš e<sub>2</sub>-suhur-gigir
                                                                       4210 V26'
                                                                                          giš gal-UD-HUB,-[
345
             IV14'
                         giš gaba-gigir
                                                                628 7a139 V27'
                                                                                          giš DUG-gub
346 5021 IV15'
                         [] gaba-PI-gigir
                                                                              V28'
                                                                                          giš DUG-gub-a
330 5042 IV16'
                                                                              V29'
                         [ k]un-gigir
                                                                                          giš DUG-gub-kaš
     5025 IV17'
                                                                418 6012 V30'
344
                         [ s]i-gigir
                                                                                          giš ga-ri[g<sub>2</sub>]
342 5054 IV18'
                                                                              V31'
                                                                                          giš [g]a-rig<sub>2</sub>-munus
                         [ ] umbin-gigir
343 5055 IV19'
                                                                              V32'
                         [ g]ag-umbin-gigir
                                                                                              ]-rig<sub>2</sub>-nita
             IV20'
                                                                              V33'
                                                                                          giš UD.S[AL?+H]UB<sub>2</sub>
                         giš X-gigir
             IV21'
                         giš [ ]-gigir
                                                                              V34'
                                                                                          [ ] UD.SAL?+HUB<sub>2</sub>-
             IV22'
                         gi[š
                               -gi]gir
                                                                                          mun[us]
             IV23'
                         gi[š
                                                                              V35'
                                                                                          [g]iš UD.SAL+HUB<sub>2</sub>-
             IV24'
                         gi[š
                                                                                          ni[ta]
339
             IV25'
                                                                              V36'
                         giš [ ]-mud-gigir
                                                                                          giš [
374 5199 IV26'
                                                                              VI01-31'
                         giš ig
                                                                                          traces or isolated signs
375
     5200 IV27'
                         giš ig-ki-gal
                                                                536 6220
                                                                             VI32'
                                                                                          giš har-mušen-n[a]
             IV28'
                         giš ig-ka,
                                                                537
                                                                      6221
                                                                              VI33'
                                                                                          giš gidru-har-mušen-n[a]
             IV29'
                         giš ig-KAK-ra
                                                                              VI34'
                                                                                          traces
384 5239 IV30'
                                                                283 4358 VII01'
                                                                                          giš ma<sub>2</sub>-20-gur
                         giš ig-ze<sub>2</sub>-na
      5259 IV31'
                         giš ig-bar-da
                                                                285 4360 VII02'
                                                                                          giš ma<sub>2</sub>-10-gur
385 5237 IV32'
                         giš ig-ma-ri<sub>2</sub>!-za
                                                                286 4361
                                                                             VII03'
                                                                                          giš ma<sub>2</sub>-5?-gur
382 5251a IV33'
                         giš ig-u<sub>3</sub>-ma
                                                                314 4417
                                                                              VII04'
                                                                                          giš zi-ga-an
                                                                      4407
             IV34'
                         giš ig-KAK-AD(?)
                                                                              VII05'
                                                                                          giš gi-nu-u[š]
                                                                                          [ ] ma<sub>2</sub>-gid<sub>2</sub>!-da
             IV35'
                                                                      4269
                                                                              VII06'
                         giš ig-LUL(?)-da
             IV36'
                                                                              VII07'
                                                                                          giš di<sub>5</sub>?-ma<sub>2</sub>-gid<sub>2</sub>-da
                         giš ig-šinig
387 5247 IV37'
                         [] ig-e<sub>2</sub>-gal
                                                                              VII08'
                                                                                          giš TU?-ma<sub>2</sub>-gid<sub>2</sub>-da
380 5244 IV38'
                                                                              VII09'
                         [] ig-suh<sub>4</sub>
                                                                                          giš [
388 5252 IV39'
                            s]uku5-ig
                                                                              VII10'
                                                                                          g[iš
             IV40'
                                                                              VIII01'
                                                                                                 ]-kin
                              ]-ig
             IV41'
                         ſ
                              ]-ma-ig
                                                                              VIII02'
                                                                                                 ]-kin
             IV42'
                                                                              VIII03'
                         traces
                                                                                          traces
             V01'
                         traces
                                                                              VIII04'
                                                                                          [ ]-si-[
             V02'
                         giš LA?-KAB-AB<sub>2</sub>-D[U
147 4021 V03'
                         giš dub-dim,
      4022 V04'
                         giš šu-me<sub>3</sub>?-gi
      4023 V05'
                         giš DIB-QA?-B[UR?]
      6007
             V06'
                         giš EZ[EN?]
             V07'
                         giš EZ[EN?]
426 6043 V08'
                         giš LAGAB
427
     6044 V09'
                         giš LAGAB
428 6045 V10'
                         giš LAGAB
592 6058 V11'
                         giš BAD
593 6059 V12'
                         giš BAD
```

Commentary to NP I-02

The sequence giš-nu₂; ^{giš} gu-za; followed at some distance by ^{giš} apin, is also found in NP I-05.

```
NP I-03 BRM IV 29+ 30: see the Ur Version (§5.6.2).
```

NP I-04 *SMEA* 18 (1977), Plate III: see the Ur Version (§5.6.2).

NP I-05 BM 080790 (Bu 91-5-9,928)

```
I01'
                         [] x-nu_2
228 4172
             I02'
                          [ ]-zi-da-nu<sub>2</sub>
160 4069
             I03'
                         [] gu-za
184 4082
             I04'
                              -z]a-munus
             I05'
                              -z]a-urdu
             I06'
                              -z]a-ad
      4119 I07'
                         [ ] šu-nigin<sub>2</sub>?-na
170 4079
             I08'
                               ]-kaskal
             I09'
                              ]-si
                         [g]iš [š]u-sa[g-
452 5152
             II01'
464 5146
             II02'
                         giš ninda<sub>2</sub>-ap[in]
460a
             II03'
                         giš muš-apin
      5170 II04'
                         giš har-apin
      5140 II05'
                         giš a<sub>2</sub>?-apin
             II06'
                         giš []-apin
      5136a II07'
                         giš ama-ap[in]
457 5159c II08'
                         giš n[ig]-ap[in]
458
             II09'
                         giš gag-n[ig-
```

Commentary to NP I-05

See the commentary to NP I-02.

NP I-06 BM 16653 (92-5-16, 189)

```
I01'
                                -K]A<sup>?</sup>
               I02'
                                  ]-lu<sub>2</sub>
               I03'
                                  ]-AGA<sup>?</sup>
351 5059
               II01'
                             [] ga[g-
352
               II02'
                             giš za-ra<sup>7</sup>-g[ag-
354
               II03'
                             giš ŠID-g[ar-
355 5068 II04'
                             giš ŠID-bar-[
356 5070 II05'
                             giš ŠID-ša<sub>3</sub>-[
326 5006
              II06'
                             giš [
327 5015
               II07'
                             giš [e2]-[
```

Commentary to NP I-06

The second column runs parallel to NP I-02 IV04'-IV12'. The entries in the first column are not identified.

NP II-01 *BRM* IV, 31

I01 giš IGI-TUR

```
544 3269 I02
                             giš ligima
  065 3280 I03
                             giš nimbar
  066 3289
                 I04
                             giš nimbar-tur
                 I05
                                   ]-X-tur
                 rI01'
                             giš [
                 rI02'
                             giš [
                 rI03'
                             giš [
                 rI04'
                             giš [
                 rI05'
                             gi[š
                 rI06'
                             g[iš
                             giš ur-n[u-
  059 3254
                rII01'
  060 3260 rII02'
                             giš ti-a-ru-um
        3250
                rII03'
  061
                             giš i-ri-a-nu-um
  062
         3255
                 rII04'
                             giš ur-zi-num,
  064
        3265
                rII05'
                             giš isi<sub>2</sub>-mu<sub>2</sub>
                 rII06'
                             giš IGI-TUR
  544 3269
                rII07'
                             giš ligi[ma]
  065 3280
               rII08'
                             giš ni[mbar
                rII09'
  066 3289
                             giš nimbar-t[ur
                 rII10'
                             giš nim[bar-
                 rIII
                             metrological (N še ku<sub>3</sub>-babbar)
NP II-02
                 MSL SS1, 95 (Plate XVIII)
         4075 01'
                             [] gu-za-zag-n[a<sup>?</sup>-
   182 4076 02'
                             [] gu-za-LAM-KUR-[
NP III-01
                 MSL SS1, 97 (Plate XXI)
  246 4225
                01
                             giš kun<sub>4</sub>
  247 4226
                02
                             giš kun<sub>4</sub>-bad<sub>3</sub>
         4228
                03
                             giš kun<sub>4</sub>-al-aš
         4230
                04
                             giš ku[n<sub>4</sub>]-gu<sub>2</sub>-lu-lu
                 05
                             giš [ ]-kun<sub>4</sub>
  252 4233
                 06
                             giš bugin
  253 4235
                 07
                             giš bugin-tur
                 r01
                             giš bugin-X-bi
NP III-02
                 LB 1080
  039 3154
                01
                             giš a-ab-b[a]
  040 3155
                02
                             giš a-ab-ba-luh-ha (sic!)
                 03
                             giš mes-ša<sub>3</sub>-kal
  055 3227
                 04
                             giš e-lam-ma-kum
                 05
                             giš gi-zi-lum
  058 3237
                 06
                             giš zi-ir!-du-[u]m
  122 3238
                 07
                             giš ši-[i]q-du-um
        3005
  005
                 08
                             giš š[a<sub>3</sub>]-kal
  021 3053
                09
                             giš ša[r_x(NE)]-ša<sub>4</sub>-X
                 10
                             giš X X
                 11
                             giš KA?-PA-ŠU<sub>2</sub> X X X
```

```
      062
      3255
      12
      giš ur-z[i]-nu-um

      059
      3254
      13
      giš ur-nu-um

      061
      3250
      14
      giš i-li-nu-um

      135
      3493
      r01
      giš (traces) a-ri<sub>9</sub>?

      136
      3494
      r02
      giš a- (traces) - r[i<sub>9</sub>?]-na?

      r03
      giš URU?-X
```

NP III-03 NBT 1891: see the Ur version (§5.6.2)

NP III-04 YBC 06702

```
111
               01
                            [g]iš ad<sub>2</sub>
112 3439
              02
                            giš kiši<sub>16</sub>
113 3441 03
                            giš kiši<sub>16</sub>-HA-har
114 3441a 04
                            giš kiši<sub>16</sub>-HA-har-kur-ra
115 3447 05
                            giš sa-ma-num<sub>2</sub>
116 3448 06
                            giš sa-ma-zum
123 3455 07
                            giš [z]ar?-si
125 3469 08
                            giš gi-zu<sub>2</sub>-lum-ma
```

NP III-05 YBC 12048

```
257 4244 01
                         giš naga,-še-giš-i,
256 4243 02
                         giš naga<sub>3</sub>-še
260 4248 03
                         giš gan-na
261 4251
                         giš ŠU-DIM<sub>2</sub>
             04
      5017
             05
                         giš e<sub>2</sub>-zu!-lum-ma
             06
                         giš LA[GAB-
             07
                         giš LA[GAB-
```

Commentary to NP III-05

06-07 Perhaps LAGAB is to be read gi[gir].

NP III-06 YBC 06717

```
155 4041
              01
                           giš ba-šab
154
              02
                           giš ba-še
156 4053
              03
                           giš hub,
      4054
157
              04
                           giš na-ru<sub>2</sub>-a
158 4055 05
                           giš ešgiri-šu-du<sub>8</sub>
159
              06
                           giš nig<sub>2</sub>-na-UD
160 4069
              07
                           giš gu-za
161 4070 08
                           giš gu-za-sig<sub>5</sub>
```

NP III-07 YBC 01991

```
385 5237 01' g[iš i]g-m[i-

02' giš ig-šu-ur<sub>2</sub>?-tum

03' giš ig-PAP-GIR<sub>3</sub>

5222 04' giš ig-giš.erin

376 5233 05' giš ig-i<sub>3</sub>

377 5234 06' giš ig-i<sub>3</sub>-še[š<sub>2</sub>]
```

```
387 5247 07'
                         giš ig-an-an-e2
382 5251a 08'
                         giš ig-u<sub>3</sub>-m[a]
388 5252 09'
                         giš suku<sub>5</sub>-i[g]
                         giš AB-ig
             10'
390 5254 11'
                         [] u<sub>4</sub>-[saka]r-i[g?]
             r01
                         giš kul-šu-x [
399 5271
             r02
                         giš sag-[
402 5294
             r03
                         giš si-[
             r04
                         giš ŠU?-si-g[ar]
             r05
                         giš {erased}
             r06
                         giš HUR-MAŠ<sub>2</sub>?-ma?
405 5286
             r07
                         giš mud
406 5287
             r08
                         giš gag-mud[
             r09
                         giš mud-[
             r10
                         giš nam-ba-[
                         [g]iš [ -n]am-[
             r11
```

NP IV-01 *JCS* 8 (1954), p.146

031	3136	1	giš lam-gal
032	3137	2	giš lam-tur
		3	giš še-er-ha-zum

Commentary to NP IV-01

3 gis še-er-ha-zum is probably equivalent to *tur'azum*, the Akkadian rendering of gis lam-tur in late ur_s -ra (*MSL* 5, p.103).

NP IV-02 *BIN* II, 50

```
      023
      3061
      1
      [] lam

      024
      3062
      2
      giš LAM

      025
      3074
      3
      giš u₃-suh₅

      026
      3083
      4
      giš še-u₃-suh₅

      027
      3088
      5
      giš pa-u₃-suh₅

      3084
      6
      giš numun-u₃-suh₅
```

NP IV-03 *BIN* II, 65

```
059 3254 1 [ u]r-nu-um
060 3260 2 [ -t]i-a-ru-um
061 3250 3 giš i-li-a-nu-um
```

NP IV-04 *JCS* 8 (1954), p.146

NP IV-05 *BIN* II, 54

1 giš ad-[2 giš ki-X 3 giš x [

NP IV-06 *TIM* X/1, 1

326 5006 1 giš gigir! 327 5015 2 giš e₂-gigir 332 5023 3 giš sahar?-gi₄-gigir

NP IV-07 *TIM* X/1, 7

169 4095 1 giš gu-za-anše 170 4079 2 giš gu-za-kaskal 3 giš gu-za-al-zi-ra

NP IV-08 *CT* 44, 43

368 5092 01 giš umbin-mar-gid₂-da 369 5095g 02 giš gag-umbin-mar-gid₂-da 5093 03 giš igi-umbin-mar-gid₂-da

NP IV-09 *SMEA* 18 (1977), p.106: 4

NP IV-10 YBC 08936

089 3398 01 giš mud-nimbar 02 giš mud-al-gaz-nimbar 083 3293 03 giš am[a]-nimbar

NP IV-11 YBC 09907

102 3384 01 giš peš-nimbar 103 02 giš peš-murgu-nimbar 3385 03 giš peš-UŠ-nimbar 04 ta-ri-ba-tum

NP IV-12 LB 0998

NP IV-13 Freedman 1975 no. 243

292 4308	01	giš ma ₂ -dnin-urta
	02	giš ma ₂ -SIG
299 4367	03	giš si-ma ₂

NP IV-14 Freedman 1975 no. 244

328	5016	01	giš e ₂ ?-usan ₃ ?-gigir
337	5034	02	giš gir ₃ -gub-[
		03	giš HI-MAŠ-gigir

NP IV-15 NCBT 1918

094	3380	01	[gi]š TUG ₂ ?-[
090	3360	02	[] ze ₂ -na-[
	3403	03	[] he ₂ -BAD-[

NP IV-16 NBC 8048

4059	01	giš na
4060	02	giš na-gal
4062	03	giš na-šu

NP IV-17 NBC 8063

214	4146	01	giš nu ₂
215	4147	02	giš nu ₂ -AŠ-nu ₂
216	4148	03	giš nu ₂ -ki-nu ₂

NP IV-18 *AUCT* 5 (forthcoming), 207

327 501	-	giš e ₂ -gigir
328 501	6 02	giš e ₂ -suhur-la ₂ -gigir

NP IV-19 *AUCT* 5 (forthcoming), 234

285 4360	01	giš ma ₂ -10-gur
	02	giš ma ₂ -[]-gur
280 4355	03	giš ma ₂ -50-gur

5.7 Catalogue

5.7.1 Tablets from Nippur

5.7.1.1 Prisms

Ni P-01 N 6766 + N 6960

Side A: 37-39

Side F: I: 614-622; II: 688-696

Remarks: Small fragment of a six-sided prism, with two columns per side. Parts of sides one and

six preserved.

Ni P-02 3N-T905,211

 Side B:
 307-315

 Side C:
 354-356

 Publication:
 SLFN 73

Remarks: Fragment of a rectangular prism. The preserved part probably belongs to side two; very

few traces of side three remain. Side three was not copied in SLFN.

Ni P-03 N 5260

Side C: 558-564 Side D: 610-619

Remarks: Top fragment of a square prism, probably with three columns per side. One column of

side three and two columns of side four are partly preserved.

Ni P-04 CBS 12486

Side B: 330-354

Remarks: Large fragment of a square prism, which probably had three columns per side. The

sides preserved are sides two and three. On side three only some traces remain. The writing is badly eroded. There are clear remains of the hole that was pierced from

bottom to top.

Ni P-05 IM 58599 (3N-T655)

Side A: 162-165 Side B: 194-198

Remarks: Corner fragment of a square prism with parts of two sides preserved, probably sides one

and two. On each side one column remains. The piece was studied from a cast in

Chicago.

Ni P-06 A 30187 (3N-T259)

Side B: I: 260-267; II: 299-310a; III: 349-357a

Side C: I: 397-408; II: 440-442

Remarks: Bottom piece of a square prism with parts of two sides preserved (sides one and two).

On side two there are the remains of three columns. The piece probably had four col-

umns per side.

5.7.1.2 Type I Tablets

Ni I-01 CBS 06068

Obverse:I:18-37; II: 57-80; III: 101-123

Reverse: I: 333-344; II: 370-374 Publication: *SLT* 170

Remarks: Lower left corner of a large tablet with small writing. The tablet contained the first half

of the list and has a catch-line: gis ig. Two columns on the reverse were left unused. Obverse column IV has traces of gis (15x), not copied in *SLT*. The tablet probably had

six columns per side. Colophon: šu ab-bi-e-tum.

Ni I-02 N 1465 + N 1500 (+) N 6125

Obverse: I: 332-340; II 375-385 Reverse: I: 392-404; II: 456

Remarks: Right edge part of a tablet which contained the whole giš list. The fragment N 6125 has

a point of contact, but not enough to glue the pieces together. The text has some idiosyncrasies, especially in the section gis gigir. This passage has been edited separately

in §5.5.

Ni I-03 N 4983

Obverse: 45-48 Reverse: 75-77

Remarks: Upper right corner of a small tablet. There are traces of at least one column to the left.

This is probably an example of a small type I tablet which had only the list of trees.

Similar is N 5881 (Ni I-09).

Ni I-04 N 5589

Obverse: I: 11-21; II: 51-58 Reverse: I: 542-558; II: 602-610

Remarks: Central part of a large tablet which contained the whole giš list. The piece is close to the

left edge. A handcopy of the tablet is reproduced in §2.3.3.1.

Ni I-05 UM 55-21-314 (=3N-T354) + UM 55-21-386 (=3N-T909A)

Obverse: I: 108-123; II:160-178; III: 209-217

Reverse: I: 355-370; II: 402-423; III: 452a-482; IV: 533-544

Edition: MSL 5, pp.132-133 (column I); MSL 6, p.11; pp.40-41 (reverse column I); pp.45-46

(reverse column II)

Remarks: Upper right corner of a very large tablet. Relatively small script. The text contained the

whole giš list. Parts of the right and upper edges have been preserved.

Ni I-06 N 5223

Obverse: I: 154-164; II: 209-212

Reverse: I: 446-450; II: 495-509; III: 553-558

Remarks: Central part of a large tablet which contained the whole giš list.

Ni I-07 N 4640

Obverse: 126-129 Reverse: 273-274

Remarks: Small fragment from the middle of a tablet. On the reverse a few signs are legible

which belong to the gis ma₂ passage (273-274). Therefore the tablet cannot have

contained the whole giš list. It probably ended with the giš mar-gid2-da section.

Ni I-08 N 1361 + N 5907 + N 5912 + N 5957 + N 6035+ N 6053 + N 6089 + HS 1823 (+) N

 $4098 + N\ 6011\ (+)\ N\ 5134\ (+)\ N\ 5405\ (+)\ N\ 6087$

Obverse: I: 7-26; II: 41-60; III:80-105; IV: 120-151; V: 182-187

Reverse: I: 208-228; II: 261-275; III: 307-312; IV: 324-350; V: 371-374

Remarks: Central part of a type I tablet. Part of the left edge is preserved in the HS fragment part

of the bottom edge in N 5405. The tablet contained the first half of the giš tablet and has

the catch-line $^{g\bar{s}}$ ig. It has five columns per side. In the transcription the indirect joins are identified by a letter. N 5134 = A; N 6011 = B; N 6087 = C; N 5405 = D. Fragment D has a few signs from the bottoms of columns II and III of the obverse. These signs could not be deciphered. The piece N 4098 + N 6011 actually touches the main piece, but the point of contact is too small to glue them together. Colophon: d Sara₂-lugal-zu DUMU DINGIR- s *u-i-bi-^su*.

Ni I-09 N 5881

Obverse: I: 46-49; II: 64a-68

Reverse: 97

Remarks: Upper right corner of a small tablet. The piece contains no more than 16 lines in each of

5 columns on the obverse. On the reverse only the last line of the first column has been preserved. The tablet probably covered the whole tree section. Similar is N 4983 (Ni I-

03).

Ni I-10 CBS 05931 + CBS 06589 + CBS 07204 + CBS 08468

Obverse: I: 378-408; II: 424-439

Reverse: I: traces: II: 629-658: III: 673-707

Publication: *SLT* 165 A + *SLT* 159 + *SLT* 132 (+) *SLT* 165 BCDE

Edition: *MSL* 6, p.45

Remarks: Large tablet which contained the second half of the giš list, beginning with the section

gsi ig. CBS 6589 (= *SLT* 165) A, B, C, D; CBS 5931 (= *SLT* 159) and CBS 8468 belong to the obverse. CBS 6589 E (= *SLT* 165 E) and CBS 7204 (big piece; = *SLT* 132) belong to the reverse. SLT 165 B has badly deteriorated since being copied by Chiera. CBS 7204 is accompanied by four more fragments, two of which bear writing. The largest of these joins CBS 8468. Due to plaster restorations on CBS 7204 most joins cannot be actually glued. A possible candidate to belong to the same tablet is CBS 6572

(giš signs and traces only). CBS 7204 preserves the upper edge of the tablet.

Ni I-11 N 4947

Reverse: 693-696

Remarks: Small fragment of the bottom edge of the reverse of a large tablet. The right column has

items near the end of the giš list. The left column is unused. The text most probably represents the Old Babylonian version, though the writing could be post-Old

Babylonian.

Ni I-12 N 6207

Reverse²: 359-368

Remarks: Fragment; part of one column has been preserved. The piece is rather thick; it may

belong to a type I tablet or even to a prism.

5.7.1.3 Type II Tablets

Ni II-001 CBS 04866

Reverse: I: 4-23; II: 25-42; III: 45-56; IV: 59-60

Publication: *SLT* 128

Remarks: Nearly complete tablet. Obverse vessels (dug). Last column on the reverse is inscribed

with GIŠ signs, but was then left unfinished.

Ni II-002 CBS 11342 + 12714

Reverse: I: 673-696; II: 704-707 and 1-26

Publication: *SLT* 194

Edition: *MSL* 7, p.225f.; *MSL* 6, pp.157-159.

Remarks: Left half of a tablet. Obverse urudu. The reverse has the end of the giš list. After the

subscript (dnisaba-za₃-mi₂) and a horizontal line the tablet starts over again with the

beginning of the same list.

Ni II-003 CBS 06556

Reverse: 13-15

Publication: *SLT* 131

Remarks: Whitish clay (overfired?). Small part of the left edge is preserved. One side is pre-

served; almost certainly the reverse of a type II tablet. Big, irregular writing. The

columns run from left to right.

Ni II-004 CBS 12754

Reverse: I: 43-47; II: 78-79 Publication: *SLT* 119

Remarks: Chip of the reverse of a type II tablet.

Ni II-005 CBS 08063

Obverse: 338-346

Reverse: I: traces; II: 49-52

Publication: *SLT* 157 (reverse only)

Remarks: Right edge fragment of a tablet; both sides giš. On the obverse the pupil's column has

been preserved. These lines are very difficult to read, with many erasures. Columns on

the reverse run from left to right.

Ni II-006 CBS 06515

Reverse: I: 60-66; II: 79-86

Publication: *SLT* 173 (reverse only)

Remarks: Upper right corner of a tablet. On the obverse a number of student's signs are preserved.

Unidentified. The reverse columns run from left to right. The text is partly weathered.

Ni II-007 CBS 06411

Reverse: 69-79

Publication: *SLT* 163

Remarks: Lower left corner of a tablet. The obverse is an epigraphic. A fragment of the tablet

copied by Chiera is now lost (the first two signs of the last two lines of reverse column

2). They are retained in the transliteration.

Ni II-008 CBS 06416

Reverse: 92-97

Publication: *SLT* 158

Remarks: Flake of the reverse of a tablet. Part of the left edge has been preserved.

Ni II-009 CBS 06424

Reverse: I: 54-57; II: 82-88; III: 109-112

Publication: *SLT* 164

Remarks: Bottom part of a tablet. The obverse has been erased, some horizontal lines are still

visible.

Ni II-010 CBS 05939

Reverse: 87-89

Publication: *SLT* 138 (reverse only)

Remarks: Upper left corner of a tablet. The obverse has vessels (dug; restoring MSL 7, p.202: 75-

77).

Ni II-011 CBS 06600

Reverse: I: 96-98; II: 123-137 Publication: *SLT* 172

Remarks: Left edge part of a tablet. On the obverse only a few signs are left; unidentified.

Ni II-012 CBS 06476

Reverse: 109-115

Publication: *SLT* 133 (reverse only)
Edition: *MSL* 9, p.51 S2 (obverse only)

Remarks: Upper left quarter of a tablet. The tablet was deliberately cut in two in antiquity. The

right edge follows the text on the obverse. Obverse ugu-mu.

Ni II-013 CBS 13568 + CBS 13575 + CBS 13576 + CBS 13583 + CBS 13588 + CBS 13592 +

CBS 13596 + CBS 13601 + CBS 13614

Reverse: I: 4-27; II: 33-51; III: 54-71; IV: 79-81 Publication: *PBS* 11/2, 67 (obverse only)

Remarks: Large part of a tablet. The obverse has personal names in a beautiful teacher's hand on

the right half of the tablet; the left half is not inscribed.

Ni II-014 CBS 06593

Reverse: I: 14-22; II: 35-39

Remarks: Right edge fragment of a tablet. The obverse is an igraphic.

Ni II-015 CBS 09847 (+) CBS 12516

Reverse: I: 1-11; II: 23-36; III: 47-66; IV: 81-96

Remarks: CBS 12516 (fragment B) is a top edge fragment of which only the reverse has been

preserved. CBS 9847 (fragment A) is the bottom half of the same tablet. The obverse has Old Babylonian P-Lu (*MSL* 12, p.60): 748e; 750; 753-756 (end of exercise). The two fragments do not touch, but the writing on the reverse is clearly the same, and the distribution of the items over the columns fits. The line numbers in fragment B have

been computed, and a B added.

Ni II-016 Ni 01865

Reverse: 88-99

Remarks: Lower left corner of a tablet. The obverse has containers, paralleling MSL 7, p.202f.:

82-84: dug a-[dug a-si[gdug a-si[g-{end of exercise}

The text was studied from an unpublished copy by Hilprecht in the University Museum,

Philadelphia.

Ni II-017 CBS 06594

Reverse: I: 1-6b; II: 14-19

Remarks: Lower left corner of a tablet. The tablet is disintegrating. Obverse reed; illegible. The

columns on the reverse run from left to right.

Ni II-018 CBS 12515

Reverse: I: 65-68; II: 87-95

Edition: *MSL* 12, p.32: U" (obverse only)

Remarks: Upper left corner of a tablet. Obverse is Old Babylonian Proto-Lu (SAL section).

Ni II-019 CBS 12666

Reverse: I: 56-59; II: 89-92

Remarks: Bottom part of a tablet. The obverse may be proverbs. Final two lines:

[u]g-[ba-an-ug_s.

Ni II-020 CBS 02260

Reverse: I: 1-21; II: 22-43; III: 55-59

Remarks: Lower right corner of a large tablet. Obverse is an epigraphic. The bottom edge has: X-

ka-tum. (X is any sign that ends as a GIŠ).

Ni II-021 CBS 06552

Reverse: I: 7-11; II: 25-26

Remarks: Right edge fragment of a tablet. Obverse not preserved.

Ni II-022 IM 58624 (3N-T691)

Obverse: 432-446

Edition: *MSL* 6, p.145-146.

Remarks: Very probably the obverse of a type II tablet. The piece was studied from a cast in

Chicago.

Ni II-023 CBS 06974

Reverse: I: 1-5; II: 26-29

Remarks: Bottom part of a tablet, near the right corner. Obverse is an pigraphic.

Ni II-024 CBS 03857

Reverse: I: 45; II: 59-65

Remarks: Lower left corner of a tablet. Obverse is lost.

Ni II-025 CBS 03935

Reverse: 1-5

Remarks: Lower right corner of a tablet. Obverse is an igraphic.

Ni II-026 CBS 04801 + CBS 04802

Obverse: 270-276 Reverse: 51a-58

Publication: *SLT* 156 (partial copy)

Remarks: Large fragment of a tablet; both sides giš. The right side of the obverse is erased and is

considerably thinner than the left side. Columns on the reverse run from left to right.

Reverse column 2 was not copied in SLT.

Ni II-027 CBS 04806

Reverse: I: 1-5; II: 36-39

Publication: *SLT* 149 (reverse only)

Remarks: Lower left corner of a tablet. Obverse stones (= MSL 10, p.55: 28-32). The fragment is

rather thin for the left side of a type II tablet (max 1.9 cm; at the edge 0.9). Both sides

are well written.

Ni II-028 CBS 04807

Reverse: 60-63

Remarks: Upper edge fragment of a tablet. On the obverse two lines are partly preserved: a-sig-

ga; a-sig-g[a-] (restoring Proto-Kagal 377f.).

Ni II-029 CBS 04811

Reverse: I: traces; II: 36-38; III: 59-65

Remarks: Flake of the reverse of a tablet.

Ni II-030 CBS 04820

Reverse: I: 1-4; II: 18

Remarks: Lower right corner of a tablet. Obverse is an pigraphic.

Ni II-031 CBS 04824

Reverse: I: 42-48; II: 54-61

Remarks: Lower left corner of a tablet. Obverse is an epigraphic but vertical dividing lines are still

visible.

Ni II-032 CBS 04825

Obverse: 272-275

Remarks: Left edge fragment of a tablet. Reverse Syllable Alphabet B.

Ni II-033 CBS 04827

Obverse: 622-630

Reverse: I: 520-526; II: 541-554; III: 562-573; IV: 589-599

Publication: *SLT* 171 (obverse only) Edition: *MSL* 6, p.155 (obverse only)

Remarks: Top and right edge broken off (probably one column of the reverse is missing). Both

sides giš. Right half of the obverse (not copied in SLT) still shows some pupil's signs.

Ni II-034 CBS 04829

Reverse: 82-89

Publication: *SLT* 68 (obverse only)

Remarks: Upper left corner of a tablet. Obverse fish. Reverse very crude writing (giš).

Ni II-035 CBS 04830

Reverse: I: 13-14; II: 38-52; III: traces; IV: 95-101

Publication: *SLT* 224 (obverse only) Edition: *MSL* 12, 32 Y" (obverse only)

Remarks: Bottom half of a tablet. Obverse has Old Babylonian Proto-Lu. The right half of the

obverse has two pupil's columns, with a few half-erased signs preserved.

Ni II-036 CBS 04832

Reverse: 1-18

Remarks: Lower right corner of a tablet. Obverse is an epigraphic. There is a deep impression on

the reverse, probably from a hand.

Ni II-037 CBS 04837

Reverse: I: 9-17; II: 34-43; III: 64-67

Remarks: Upper right corner of a tablet. On the obverse a few signs are visible, not identified.

Ni II-038 CBS 04833

Reverse: 57-62

Remarks: Flake of the reverse of a tablet.

Ni II-039 CBS 04838

Reverse: I: 15; II: 26-47

Remarks: Lower right corner of a tablet. Obverse is an pigraphic.

Ni II-040 CBS 04839

Reverse: I: 40-43; II: 54-63; III: 78-85

Remarks: Large, thin, reverse part of a tablet. Various deep incisions. Part of the left edge is

preserved.

Ni II-041 N 4953

Reverse: I: traces; II: 95-109; III: 134-149

Edition: *MSL* 14, p.26: Hy (obverse only)

Remarks: Upper right corner of a tablet. Obverse has Proto-Ea.

Ni II-042 CBS 13519

Obverse: 566-572

Remarks: Left edge fragment of a tablet. Both sides giš. The reverse has largish writing; only the

sign GIŠ is preserved five times.

Ni II-043 N 5133

Reverse: I: 99-104; II: 141-146

Edition: *MSL* 14, p.27: Jh (obverse only)

Remarks: Fragment of the upper part of a tablet, near left corner. Obverse has Proto-Ea.

Ni II-044 N 5456

Reverse: I: 2-12; II: 28-30

Remarks: Lower right corner of a tablet. Obverse is an igraphic.

Ni II-045 CBS 04854

Reverse: I: 64-72; II: 95-97

Remarks: Central part of a tablet. Obverse is an pigraphic.

Ni II-046 CBS 04856

Reverse: 28-33

Remarks: Central part of a tablet. Obverse is broken.

Ni II-047 CBS 04865

Reverse: I: 1-5; II: 28-32; III: 54-55

Remarks: Lower right corner of a tablet. Obverse is an epigraphic. Lines 1 and 2 in the giš list on

the reverse are interchanged.

Ni II-048 CBS 06496

Obverse: 195-199 Reverse: 381-386

Remarks: Central part of a tablet, probably type II. The obverse has ^{gis}gu -za; reverse ^{gis}ig . The

section ^{gis}ig is somewhat deviant and is edited separately in §5.5. It is not completely certain which side is the obverse; the side indicated as the reverse here is slightly more

curved.

Ni II-049 UM 29-16-586

Reverse: I: 84-96; II: 122-137

Remarks: Left edge fragment of a tablet. Remains of two lines on the obverse have not been

identified. The tablet was deliberately cut in two in antiquity.

Ni II-050 CBS 05944

Obverse: 1-4

Publication: *PBS* 11/2, 53 (reverse only)

Remarks: Lower left corner of a tablet. The reverse has personal names.

Ni II-051 CBS 05985

Reverse: I: 1-6; II: 21-22

Publication: *PBS* 11/1, 43 (obverse only) Edition: *MSL* 14, 28: Jw (obverse only)

Remarks: Lower left corner of a tablet. The obverse has Proto-Ea. Largish writing on the reverse.

The reverse columns run from left to right.

Ni II-052 CBS 03849

Obverse: 220-225

Publication: SLT 147 (obverse) PBS 11/1, 34 (reverse)

Remarks: Upper left corner of a tablet. Reverse has personal names.

Ni II-053 CBS 06098 + N 3960 + N 5128

Reverse: I: 99a-128; II: 130-165; III: 172-196; IV: 204-242; V: 250-284

Remarks: Large tablet, nearly complete. The corners are missing and in several places the surface

is damaged. Obverse column I has a multiplication table (base 16), column II model contracts concerning houses, repeated by a pupil in column III. The first of the contracts

is a duplicate of PBS 12/1, 23. The model contracts are edited in §2.4.1.4.

Ni II-054 CBS 06117

Reverse: I: 1-12; II: 13-25a

Remarks: Complete tablet. The obverse is illegible (erased). Reverse has very crude writing, in

places hardly legible.

Ni II-055 CBS 06370

Reverse: 10-13

Remarks: Right edge piece of a tablet. Obverse is broken. Reverse column II is unplaced.

Ni II-056 CBS 06412

Obverse: 230-248

Publication: *SLT* 136 (obverse only)

Edition: See *MSL* 5, p.167f. (obverse only)

Remarks: Large left edge part of a tablet. The obverse preserves the teacher's model (giš) and part

of the pupil's column. The right half of the piece is thinner than the left half, and contains detached signs and numerals, apparently without relation to the teacher's

model (not copied in SLT). The reverse has TU-TA-TI.

Ni II-057 CBS 06403

Obverse: 5-9

Remarks: Upper left corner of a tablet. Very little of the reverse remains, not identified. The tablet

turns in the wrong direction.

Ni II-058 CBS 06407

Obverse: 59-69

Reverse: I: 2-16; II: 17-35 Publication: *SLT* 140

Remarks: Left half of a tablet. Both sides have giš. The tablet turns in the wrong direction.

Ni II-059 CBS 06409

Reverse: I: traces; II: 52-59; III: 60-77 Publication: *SLT* 232 (obverse only) Edition: *MSL* 11, p.96: X1

Remarks: Left part of a tablet. Obverse has a geographical list (rivers). The reverse is hardly

legible. There are traces of three columns, one of them completely lost.

Ni II-060 CBS 06419

Reverse: I: 274-279; II: 287-301; III: 304-324; IV: 324-338

Publication: *SLT* 169

Remarks: Large central part of a tablet, all edges lost. Model text on the obverse is badly dam-

aged. It belongs to the section clothing and parallels MSL 10, p.147: 63-65, with some variants (including [tug₂-guz-za]-sag = MSL 10, p.151: 180). Left bottom corner of

reverse has deteriorated since having been copied by Chiera.

Ni II-061 CBS 06426

Reverse: 515-526

Remarks: Lower left corner of a tablet. On the obverse a few signs of the teacher's model are

preserved; one line probably begins igi-zi []. Unidentified.

Ni II-062 CBS 06455

Reverse: I: 39-40; II: 59-61

Remarks: Central piece of a tablet. Obverse not identified; a few signs of the teacher's model are

preserved.

Ni II-063 CBS 06468

Reverse: I: 16-28; II: 45-54

Remarks: Upper right edge part of a tablet. Some traces of erased signs are visible on the obverse.

Ni II-064 CBS 03825 + CBS 04847

Reverse: I: traces; II: 600-614; III: 619-641

Publication: SLT 139 (reverse only) + SLT 75 (obverse only)

Edition: MSL 6, p.155 and p.157 (SLT 139: reverse only); MSL 10, p.120 source J (SLT 75:

obverse only)

Remarks: Upper left edge part of a tablet. The obverse has plants and is copied as SLT 75. The

joined piece adds no text to the obverse. Reverse (wooden objects) is well written.

Ni II-065 CBS 06518

Reverse: I: 12-21; II: 52-55

Remarks: Upper right corner of a tablet. The obverse is erased. The reverse is almost illegible.

Ni II-066 CBS 06531

Reverse: I: 18-20; II: 38-39

Remarks: Top fragment of a tablet. The obverse is an pigraphic.

Ni II-067 CBS 06542

Reverse: I: 47-51; II: 63-69

Remarks: Left edge part of a tablet. The obverse has a model contract: loan of grain.

Ni II-068 CBS 06546

Reverse: I: 38-43; II: 52b-52d

Remarks: Upper left corner of a tablet. The obverse has a colour sequence (babbar; gi_6); perhaps it

is the section sheep (udu), but the traces are too faint to be sure.

Ni II-069 CBS 06547

Reverse: 88-95

Publication: *SLT* 161

Remarks: Lower left corner of a tablet. A double line on the obverse indicates the end of the

teacher's example, of which only a few traces remain.

Ni II-070 CBS 06854

Reverse: I: 1-6; II: 28-30

Remarks: Lower right corner of a tablet. On the obverse a few erased signs of the pupil's column

remain, unidentified.

Ni II-071 CBS 05865

Obverse: 537-545

Publication: PBS 11/3, 35 Edition: MSL 6, p.152

Remarks: Central part of a tablet. Reverse has personal names, almost completely destroyed.

Ni II-072 CBS 06549

Reverse: I: 62-65; II: 96-101

Edition: *MSL* 8/1, p.81: V16 (obverse only)

Remarks: Left edge fragment of a tablet. Obverse domesticated animals.

Ni II-073 CBS 06554

Obverse: 693-699

Publication: *SLT* 167 (obverse only) Edition: *MSL* 6, p.159 (obverse only)

Remarks: Upper left corner of a tablet. Reverse has TU-TA-TI.

Ni II-074 CBS 06587

Reverse: I: 5-12; II: 26-34

Remarks: Central part of a tablet. The obverse is lost, vertical dividing line is still visible.

Ni II-075 UM 29-16-294

Reverse: I: 593-599; II: 617-627

Remarks: Upper left edge part of a tablet. The obverse has domesticated animals (udu).

Ni II-076 N 5346 + N 5726

Obverse: 614-626

Remarks: Left edge piece of a tablet. The reverse is broken.

Ni II-077 N 5276

Reverse: 149-156

Edition: *MSL* 14, p.28: Ku (obverse only)

Remarks: Left edge piece of a tablet. The obverse has Proto-Ea.

Ni II-078 N 4917

Reverse: 70-73

Edition: *MSL* 14, p.26: Ip (obverse only)

Remarks: Upper left corner of a tablet. The obverse has Proto-Ea.

Ni II-079 CBS 06660

Obverse: 157-158

Remarks: Lower left corner of a tablet. The reverse has Syllable Alphabet B in a very bad hand.

The tablet turns in the wrong direction.

Ni II-080 CBS 15366

Reverse: 97-105

Edition: *MSL* 14, 24 Fy (obverse only).

Remarks: Left edge part of a tablet. The obverse has Proto-Ea.

Ni II-081 N 5847

Reverse: I: traces; II: 326-332; III: 347-351

Remarks: Upper left corner of a tablet. The obverse has hides: kuš-ur-gi₇ etc. (parallels MSL 7,

p.215: 41, 38, 42a-45).

Ni II-082 N 6121

Obverse: 326-337

Reverse: I: 225-245; II: 259-274

Remarks: Left half of a tablet, the lower corner is missing. Both sides giš. Reverse is very difficult

to read.

Ni II-083 N 5819

Reverse: 374-379

Remarks: Lower left corner of a tablet. The obverse is an igraphic.

Ni II-084 CBS 15081

Obverse: 81-97

Publication: *SLT* 129 (obverse only).

Remarks: Almost complete tablet. The pupil's side of the obverse preserves some signs

duplicating the teacher's example. The reverse has TU-TA-TI in a very crude script.

Ni II-085 CBS 14156

Obverse: 65-86

Reverse: I: 3-29; II 32-52d; III: 54-79; IV 80-86

Remarks: Almost complete tablet with giš on both sides. The right side of the obverse is erased. A

number of signs and nail impressions on the right side bear no relation to the model on the left side. The second half of the teacher's example on the obverse is erased, though still partly legible. Before the erased section two horizontal lines are drawn, indicating the end of the exercise. The reverse is occasionally difficult to read, the text is partly written over erasures. In the last column the exercise breaks off and continues with the

beginning of the name list d Inanna-te \S_2 (= *PBS* 11/1 p.49ff.).

Ni II-086 N 1540

Reverse: 98; 86-90

Remarks: Flake, probably from the reverse of a type II tablet. A small part of the lower edge is

preserved.

Ni II-087 N 6104

Obverse: 621-628

Remarks: Badly preserved piece of the obverse of a tablet.

Ni II-088 N 5703 (+) N 5705

Reverse: I: 31-34; II: 52-61

Edition: *MSL* 13, p.16 W2 (obverse only).

Remarks: Two left edge fragments of a tablet. The obverse has Proto-Izi.

Ni II-089 N 5143

Reverse: I: 12-17; II: 33-38; III: 53-56

Remarks: Right edge fragment, near the upper corner of a tablet. The obverse preserves a few

pupil's signs. Unidentified.

Ni II-090 N 5735

Reverse: 68-70

Remarks: Lower left corner of a tablet. The obverse is an igraphic.

Ni II-091 N 5880 Reverse: I: 4-10; II: 39-45

Remarks: Flake of the reverse of a tablet.

Ni II-092 N 5720

Reverse: I: 39-43; II: 60-66

Remarks: Flake of the reverse of a tablet.

Ni II-093 N 6257

Reverse: I: 374-393; II: 394-411; III: 412-429

Edition: *MSL* 10, p.120: F (obverse only); there numbered N 6527.

Remarks: Nearly complete tablet. The obverse has plants. Reverse is partly illegible.

Ni II-094 N 5978

Reverse: 25-29

Remarks: Upper right corner of a tablet. The obverse is an igraphic.

Ni II-095 CBS 13525 + CBS 13527 + CBS 13528 + CBS 13570 + CBS 13621A

Reverse: I: 326-344; II: 347-365; III: 374-386; IV: 403-404

Remarks: Large right edge part of a tablet. On the obverse a few pupil's signs are preserved.

Unidentified. The reverse is in a bad hand. In the catalogue published by Gerardi there is an entry CBS 13621 + 13525 + 13527 + 13528 + 13570. This is an error for CBS

13621 (= *SLT* 116), with no joins.

Ni II-096 CBS 06386

Reverse: I: 1-24; II: 25-35

Edition: *MSL* 7, p.197: V26 (obverse only)

Remarks: Left half of a tablet. The tablet turns in the wrong direction. It was deliberately cut in

two in antiquity. The obverse has reed. Reverse is in biggish writing and has

corrections.

Ni II-097 CBS 06682

Obverse: 39-41

Remarks: Upper left corner of a tablet. Reverse has personal names (parallels PBS 11/1, p.64:

277-281). The tablet is listed in PBS 11/3, p.276 as a duplicate.

Ni II-098 CBS 02264

Obverse: 262-266

Publication: *SLT* 176

Remarks: Lower left corner of a tablet. Both sides giš; reverse is illegible.

Ni II-099 CBS 05905 + CBS 06372

Obverse: 288-301

Publication: SLT 146 + SLT 160

Remarks: Left half of a tablet. Only one side inscribed, probably the obverse. To the right of the

inscribed column there is a small piece of clay on a lower level, probably the erased

pupil's column.

Ni II-100 N 4039

Reverse: I: 270-289; II: 293-313

Remarks: Right half of a tablet. The obverse is an igraphic.

Ni II-101 N 5246

Reverse: I: 274-286; II: 290-306

Remarks: Right half of a tablet. The obverse is an epigraphic.

Ni II-102 CBS 12707

Obverse: 628-638 Reverse: 69-72

Publication: *SLT* 180 (obverse only)

Edition: *MSL* 6, p.155 (obverse only)

Remarks: Upper left corner of a tablet. Both sides giš.

Ni II-103 CBS 12706

Reverse: I: 19-22; II: 46-51

Remarks: Upper part of a tablet. The obverse has some crude incisions but is otherwise

anepigraphic.

Ni II-104 CBS 06459

Reverse: I: 176-183; II: 412-414; 374; 385; III: 333; 337

Publication: *SLT* 231 (obverse only). Edition: *MSL* 11, p.94: L (obverse only)

Remarks: Left edge part of a tablet. The obverse has a geographical list. The surface of the

reverse is partly crumbling and therefore difficult to read. The columns on the reverse run from left to right. Unlike other type II tablets it has a rounded left edge. There are many deviations from the standard text, both in individual items and in the order of the

sections. The text is edited separately in §5.5.

Ni II-105 CBS 12705

Reverse: I: 4-10; II: 33-45; III: 69-72

Remarks: Bottom part of a tablet, near the right corner. The obverse is an epigraphic. The reverse

is well written but almost completely destroyed.

Ni II-106 CBS 12652

Reverse: 40-46

Remarks: Central fragment of a tablet. The obverse is lost.

Ni II-107 N 5706

Reverse: 10-15

Remarks: Right edge fragment of a tablet. The obverse has traces of pupil's signs, unidentified.

Ni II-108 IM 58630 (3N-T697)

Obverse: 555-569a

Edition: *MSL* 6, p.153.

Remarks: Almost complete tablet, now in Baghdad. Collated from a cast in Chicago. Reverse has

Syllable Alphabet B. In MSL 6 the tablet is incorrectly cited as 3N-T692.

Ni II-109 CBS 10793

Reverse: I: 5-20; II: 39-43

Remarks: Large right edge part of a tablet. The obverse is an pigraphic. It has six crudely incised

lines which form a grid, most probably meant as a game board.

Ni II-110 CBS 11322

Obverse: 48-63

Reverse: I: 1-22; II: 23-44; III: 45-57; 1-6 Publication: *SLT* 141 (obverse only)

Remarks: Almost complete tablet, with both sides giš. The tablet turns in the wrong direction. The

reverse is badly damaged by the impression of a hand. The reverse exercise ends with the last entry of the obverse, then starts again with the first few lines of the list of trees. A rectangular piece of the bottom right corner is missing. It seems to have been cut off

in antiquity.

Ni II-111 N 5196

Reverse: 30-35

Remarks: Central part of a tablet. The obverse is an igraphic.

Ni II-112 N 5370

Reverse: 1-7

Remarks: Lower right corner of a tablet. The obverse is an igraphic.

Ni II-113 N 6073

Reverse: 21-31

Remarks: Upper right corner of a tablet. The obverse is an igraphic.

Ni II-114 N 5903

Reverse: 322-326

Remarks: Bottom part of a tablet, near the left corner. The obverse partially preserves two signs,

and the 'end of exercise' lines. The tablet was deliberately cut in two in antiquity.

Ni II-115 N 6800

Reverse: 291-293

Remarks: Small chip.

Ni II-116 CBS 19803

Reverse: I: 1-14; II: 30-37; III: 57-60

Remarks: Lower right corner of a tablet. The obverse is erased.

Ni II-117 CBS 05811 + CBS 05839 + N 6971

Obverse: 470-481

Publication: *PBS* 11/1, 63 (5811) and 30 (reverse of 5839)

Remarks: Left edge fragment of a tablet. Obverse has the section gis al, followed by personal

names. Reverse: personal names.

Ni II-118 CBS 19753

Reverse: 623-633

Edition: *MSL* 9, p.66: B1

Remarks: Left edge fragment of a tablet. The obverse has Ugu-mu bilingual.

Ni II-119 UM 29-15-526

Reverse: 65-67

Remarks: Lower left corner of a tablet. On the obverse some unidentified traces of pupil's writing

are preserved. The tablet turns in the wrong direction.

Ni II-120 CBS 06736

Obverse: 130-133

Publication: *SLT* 152 (obverse only)

Remarks: Upper left corner of a tablet. 'Col. 2' in the copy in *SLT* is the pupil's copy. The surface

of the clay is somewhat lower there than in 'Col. 1'. The reverse has personal names; it

is listed as a duplicate in PBS 11/2, p.174.

Ni II-121 CBS 06674

Obverse: 29-31

Remarks: Lower left corner of a tablet. The reverse has personal names; it is listed as a duplicate

in PBS 11/2, p.174.

Ni II-122 CBS 06659

Obverse: 117-124

Publication: *SLT* 162 (obverse); *PBS* 11/2, 40 (reverse)

Remarks: Upper left corner of a tablet. The reverse has personal names.

Ni II-123 N 6108

Reverse: I: 24-27; II: 50-53

Remarks: Upper right corner of a tablet. The obverse is an igraphic.

Ni II-124 N 5502

Reverse: I: 1-6; II: 25-28

Remarks: Lower right corner of a tablet. The obverse is an pigraphic.

Ni II-125 UM 55-21-361 (3N-T629)

Obverse: 442-453

Edition: *MSL* 6, p.146 (obverse only)

Remarks: Upper left corner of a tablet. The reverse has personal names. The tablet turns in the

wrong direction.

Ni II-126 UM 55-21-409 (3N-T911r)

Obverse: 547-552

Edition: *MSL* 6, p.152 (obverse only)

Remarks: Upper left corner of a tablet. The reverse has personal names(?). The last column is left

unused.

Ni II-127 CBS 14143

Obverse: 478-512

Publication: *SLT* 126 (obverse only) Edition: *MSL* 6, p.148f. (obverse only)

Remarks: Left edge and right edge pieces of a tablet. The central piece is missing. Both the top

and bottom edges are partly preserved. The reverse has TU-TA-TI; the columns run from left to right. The writing on the obverse is rather small for this type. Obverse of the right edge fragment has some signs apparently unrelated to the example text on the

left edge piece.

Ni II-128 CBS 08164

Obverse: 599-603

Publication: *SLT* 175 (obverse only) Edition: *MSL* 6, p.157 (obverse only)

Remarks: Lower left corner of a tablet, in *SLT* erroneously drawn as an upper left corner. Reverse

has personal names beginning with a god's name. Two columns are preserved: col. I ^{Id}Utu... col. II ^{Id}Su'en. The piece very probably belongs to the same tablet as HS 1701 (=

Ni II-169).

Ni II-129 CBS 07153

Reverse: 14-17

Remarks: Right edge piece of a tablet. The obverse is broken but for two partial numbers.

Metrological?

Ni II-130 CBS 06574

Reverse: 439-441

Publication: SLT 49

Edition: *MSL* 6, p.146; *MSL* 7, p.230: V8

Remarks: Upper left corner of a tablet. The obverse has metal objects (ub₃).

Ni II-131 CBS 06576

Reverse: I: 542-548; II: 575-582 Publication: *SLT* 181

Edition: *MSL* 6, pp.152-154

Remarks: Flake with beautiful writing. It is assumed that the piece derives from the reverse of a

type II tablet because the columns preserved run from left to right. The passages belong to the end of the giš list. In any regular type I text they appear on the reverse, with columns from right to left. Type II tablets with reverse columns from left to right are not uncommon. It is assumed that the flake comes from such a tablet.

Ni II-132 CBS 06521

Obverse: 652-658

Publication: *SLT* 145 (obverse only) Edition: *MSL* 6, p.156

Remarks: Lower left corner of a tablet. The reverse has Syllable Alphabet B. The columns on the

reverse run from left to right.

Ni II-133 N 5792

Obverse: 65-82

Remarks: Upper left corner of a tablet. The reverse is an epigraphic. To the right of the inscribed

column on the obverse some blank space is preserved, which does not show traces of

erasure. Was the tablet left unused after the teacher wrote the model?

Ni II-134 N 4642

Reverse: 123-128

Remarks: Left edge fragment of a tablet. On the obverse only the sign KI is preserved three times.

Perhaps Nigga? Some signs on the reverse are very badly written.

Ni II-135 CBS 04877

Obverse: 539-546

Publication: SLT 177
Edition: MSL 6, p.152

Remarks: Upper right corner of a tablet. The reverse is almost completely destroyed except for a

few signs. Unidentified. On the obverse the pupil's copy is partly preserved (not copied

in SLT).

Ni II-136 CBS 06119

Obverse: 575-584

Publication: *SLT* 151 (obverse only) Edition: *MSL* 6, pp.153-154

Remarks: Almost complete tablet; upper left and lower right corners are missing. The reverse has

personal names beginning with a god's name. The reverse is badly weathered. The copy

in *SLT* is correct except for the sign preserved in line 1 which is clearly a DA.

Ni II-137 CBS 06599 + HS 1616 + HS 1844

Reverse: I: 374-402; II: 405-432; III: 447-459; IV: 482-489

Publication: Veldhuis and Oelsner forthcoming.

Remarks: The HS pieces were joined by Oelsner. The obverse has Old Babylonian Proto-Lu,

lines 237-257 (omitting 242a and 256). Both the teacher's example and two pupil's columns are preserved. The right half of the obverse is covered with a new layer of clay, smoothed over old writing. In places where this new layer has chipped off the old writing is visible. It is almost certainly the same text. The columns on the reverse (wooden objects) run from left to right. The new layer of clay gives the obverse a curved surface. The original surface, however, was clearly flat. The bottom edge (on the CBS piece) seems to contain a name, of which only two signs are preserved: a-x-[.

Ni II-138 UM 29-16-056

Reverse: I: 1-11; II: 15-17; III: 18-30

Remarks: Complete tablet. The obverse is illegible. The columns on the reverse (trees) run from

left to right. It is almost illegible due to dirt. In tablet format and palaeography the piece

is nothing out of the ordinary. The text, however, follows an unknown tradition. In §5.5 a transcription is offered with many reservations.

Ni II-139 N 6158

Reverse: I: 636-644; II: 662-668

Remarks: Lower right corner of a tablet. The obverse is an pigraphic.

Ni II-140 UM 29-15-314 + UM 29-15-320

Reverse: I: 3-18; II: 21-44; III: 46-55

Remarks: Almost complete tablet. The obverse has herbs (SAR) including the items nu-luh-ha

and giš-nu-luh-ha^{sar}. The exercise ends with numun-ga-raš^{sar}. It does not correspond to any of the versions edited in *MSL* 10, pp.119-124. The reverse (wooden objects) was left unfinished. The empty columns show double vertical lines between which the giš

signs were to be written.

Ni II-141 UM 29-13-075

Reverse: I: 1-21; II: 28-44

Remarks: Right half of a tablet with most of the edge lost. On the obverse some pupil's signs

preserved (including ^dUtu); unidentified.

Ni II-142 UM 29-13-074

Reverse: 67-86

Edition: *MSL* 7, p.209: V2 (obverse only)

Remarks: Left half of a tablet. Obverse IM items. Reverse (trees) has rather large writing. The

tablet was deliberately cut in two in antiquity.

Ni II-143 CBS 14157

Reverse: I: 9-21; II: 26-43; III: 47-63; IV: 68-87 Edition: *MSL* 7, p.177: V4 (obverse only)

Remarks: Nearly complete tablet. Broken into pieces during firing and put together again (per-

sonal communication Ann Guinan). Obverse has reed objects.

Ni II-144 N 5396

Reverse: I: 6-10; II: 25-31; III: 42-46

Remarks: Right edge fragment of a tablet. The obverse is metrological: GUR. The reverse is

partly destroyed by a hand impression.

Ni II-145 CBS 06590

Reverse: 476-485

Publication: *SLT* 153 Edition: *MSL* 6, p.148

Remarks: Lower left corner of a tablet. On the obverse a few traces of the teacher's example are

preserved; unidentified.

Ni II-146 N 5782 + N 5846

Reverse: I: 289-291; II: 313-335; III: 338-353

Remarks: Left half of a tablet. The left edge is missing. Part of the upper and lower edges are

preserved. The obverse has domestic animals: the end of the section u₈ and the first line

of the section uz₃.

Ni II-147 IM 58626 (3N-T693)

Obverse: 97-105

Edition: *MSL* 5, p.124 (obverse only)

Remarks: Large bottom piece of a tablet. The reverse has personal names. The piece was studied

from a cast in Chicago.

Ni II-148 A 30274 (3N-T595)

Reverse: I: 4-11; II: 21-29; III: 40-47

Edition: *MSL* 7, p.179: V19 (obverse only)

Remarks: Bottom half of a tablet. The piece is listed in MSL 5, p.91. The obverse has reed objects.

Ni II-149 3N-T911v

Reverse: I: 1-6; II: 40-45

Remarks: Upper right corner of the reverse of a tablet. The piece is in Baghdad but the IM

number is unknown. Studied from cast in Chicago.

Ni II-150 CBS 12748

Reverse: 71-83

Remarks: Bottom part of a tablet. The obverse is an pigraphic.

Ni II-151 CBS 03875

Obverse: 557-562

Publication: SLT 168 (obverse); PBS 11/2, 50 (reverse)

Edition: *MSL* 6, p.153

Remarks: Upper left corner of a tablet. The reverse has personal names.

Ni II-152 N 5201

Obverse: 522-525

Remarks: Upper left corner of a tablet. The reverse may also have a giš list; illegible.

Ni II-153 CBS 12511

Reverse: 330-339

Publication: *SLT* 144 (reverse only)

Remarks: Upper left corner of a tablet. The obverse has names beginning with ama-, including

ama-lal₃ (see *PBS* 11/3).

Ni II-154 CBS 07139 + CBS 7152 + N 0330

Reverse: I: 512-516; II: 541-550; III: 571-584 Publication: *SLT* 166 + *SLT* 23 (reverse only). Edition: *MSL* 9, p.41: V7 (obverse only)

Remarks: Upper left corner of a tablet. Obverse has meat cuts (uzu).

Ni II-155 A 29979 (2N-T384) + IM 57976 (2N-T382)

Reverse: I: 1-17; II: 44-46

Publication: Gordon SP pl.74 (A 29979)

Remarks: Lower left corner of a tablet. Obverse has proverb collection 2. The columns on the

reverse run from left to right. The IM piece was studied from a cast in Chicago. The

cast and the Chicago tablet clearly join on the obverse.

Ni II-156 CBS 08298

Reverse: 182-193

Publication: *SLT* 137 (reverse only)

Remarks: Left edge piece of a tablet. Obverse has Old Babylonian Proto-Lu 325-328.

Ni II-157 CBS 04812 + CBS 06553 + CBS 06755

Reverse: 17-22

Edition: Civil 1994, p.173 (obverse only)

Remarks: Left edge piece of a tablet. The obverse has Old Babylonian Proto-lu. The columns on

the reverse run from left to right. The second column has ^{gis}ma-nu items. The new join CBS 6553 is a reverse fragment and therefore does not add to the text as edited by

Civil.

Ni II-158 CBS 06584

Reverse: 444-454

Publication: *SLT* 204 (obverse only)

Edition: *MSL* 10, p.144: B (obverse only)

Remarks: Upper left corner of a tablet. Obverse has wool. Reverse is damaged.

Ni II-159 3N-T906,236

Reverse: 34-39

Publication: *SLFN* Plate 72

Remarks: Upper left corner of a type II tablet. Obverse has reed objects.

Ni II-160 3N-T911t

Obverse: 19-22

Remarks: Upper left corner of a tablet. Reverse personal names? The fragment is now in Baghdad

but the IM number is unknown. Studied from a cast in Chicago.

Ni II-161 N 0673

Obverse: 551-554b

Remarks: Fragment of the upper left corner of a tablet. The reverse is lost. To the right of the

preserved column a small piece of the next column is preserved. The surface seems to be somewhat lower there. Therefore it is assumed that the preserved side is the obverse,

though the writing is relatively small and not as elaborate as usual.

Ni II-162 HS 1629 + HS 1834

Reverse: I: 1-19; II: 24-44

Remarks: Join Oelsner. Right half of a tablet; the upper corner is missing. Left half broken off in

antiquity, other breaks are of recent date. The obverse is anepigraphic but for some incisions. The lines on the reverse are very slanted. Probably the same tablet as HS

1665 (Ni II-167).

Ni II-163 HS 1631

Reverse: I: 9-11; II: 35-44

Remarks: Bottom part of a tablet. The lower left corner is missing; recent break. The obverse

probably has birds. The reverse is hardly legible because of a layer of dirt which cannot

easily be removed. Traces of the third and fourth columns are not transliterated.

Ni II-164 HS 1646

Reverse: I: 1-22; II: 23-43; III: 44-62; IV: 63-83

Remarks: Almost complete tablet. The obverse has stones and duplicates MSL 10, p.57: 83-88;

90-94; and 96. The obverse probably had three columns for pupil's copies. All of these

are almost completely erased but for some traces of the vertical division lines.

Ni II-165 HS 1647

Reverse: I: 2-25: II: 39-60: III: 81-91: IV: 102-119

Remarks: Lower part of a tablet; dirty and difficult to read. The obverse has Old Babylonian

Proto-Lu, lines 223-230 probably two pupil's columns. The pupil's writing is erased but some traces of signs and vertical division lines are still visible. The reverse has some

deep incisions through the text.

Ni II-166 HS 1657

Reverse: I: 53-60; II: 72-97

Remarks: Left part of a tablet; the upper part is missing (recent break). The obverse has containers

(dug), restoring MSL 7, p.201f. 61a-72.

Ni II-167 HS 1665

Reverse: I: 60-65; II: 81-87

Remarks: Upper left corner of a tablet. Obverse has gi-kid items duplicating MSL 7, p.182: 16-23.

Probably the same tablet as HS 1629+ (= Ni II-162). The reverse has the same kind of

writing on slanted lines.

Ni II-168 HS 1699

Obverse: 83-89

Remarks: Left edge part of a tablet. The reverse has Akkadian words, each preceded by a vertical

wedge. The right hand column is in TU-TA-TI style: first, three individual signs, then the word: δu -bu-ru and δu -bi-lam. Left hand column has Akkadian words beginning with mu-, including mu-ga-mil and mu-da-mi-iq (one word per line; not analyzed in

syllables).

Ni II-169 HS 1701

Obverse: 589-597

Remarks: Upper left corner of a tablet. Reverse has a list of names beginning with ^{Id}Su'en and

^{1d}En-lil₂. Good, small writing. Probably the same tablet as CBS 8164 (SLT 175 = Ni II-

128).

Ni II-170 HS 1734

Reverse: I: 375-385; II: 402-409

Remarks: Left edge fragment of a tablet. The obverse preserves a double horizontal line (end of

exercise), and a double vertical division line. The columns on the reverse run from left

to right.

Ni II-171 HS 1798

Obverse: 260-262

Remarks: Lower left corner of a tablet. Reverse has personal names of the type ur-^dX (illegible).

Ni II-172 HS 1744

Reverse: 82-87

Remarks: Upper left corner of a tablet. The obverse has clothing (tug₂-nig₂ and tug₂-bar-si items).

Ni II-173 HS 1745 + HS 1797 + HS 2630 + HS 2902

Reverse: I: 377-408; II: 409-437; III: 438-475; IV: 476-512; V: 515-538

Remarks: Almost complete tablet put together from many small and large fragments, mostly

before World War II. The separate HS numbers have been joined by Oelsner. The obverse has containers, restoring MSL 7, p.200: 27-33. There were probably two pupil's

columns (erased). A handcopy of the tablet is reproduced in §2.3.3.2.

Ni II-174 HS 1806

Reverse: I: 3-21; II: 25-46; III: 51-74; IV: 79-98

Remarks: Almost complete tablet; upper edge missing. The obverse has containers, restoring part

of the gap in MSL 7, p.199 between lines 5 and 17 (including dug-kab₂-dug₄-ga).

Ni II-175 N 2210 + N 6202 + HS 1845

Obverse: 326-335

Reverse: I: 67-70; II: 96-110

Remarks: Upper left corner of a tablet. Both sides giš. The N pieces have on the obverse the

teacher's example. The HS fragment has the pupil's copy. A very small part of the teacher's side clings to the HS piece. There the surface of the tablet is higher. The pupil's copy duplicates the teacher's writing on the N fragment, including the error in line 3 (gis usan 3-gigir instead of gis e,-usan 3-gigir). Teacher's and pupil's sides are given as

one line in the transliteration.

Ni II-176 HS 1827

Obverse: 45-51

Remarks: Upper left corner of a tablet. The reverse has TU-TA-TI.

Ni II-177 HS 1841

Reverse: I: 82-83; II: 97-106; III: 113-125

Remarks: Upper part of a tablet. The obverse is erased. Lines on the reverse are slanted.

Ni II-178 HS 2860 Reverse: I: 3-9; II: 23-32

Remarks: Bottom part of a tablet, near right corner. The obverse is an pigraphic.

Ni II-179 UM 29-16-584

Reverse: 99-106

Edition: *MSL* 10, p.145: L (obverse only)

Remarks: Upper left corner of a tablet. The obverse has clothing.

Ni II-180 N 5973

Obverse: 566-572 Reverse: 207-210

Remarks: Lower left corner of a tablet with both sides giš; probably type II. The identification of

obverse and reverse is not completely certain. Good writing on both sides.

Ni II-181 CBS 06573

Reverse: 95-99a

Remarks: Upper left corner of a tablet. The obverse has birds.

Ni II-182 CBS 04876

Reverse: I: 280-288; II: 304-310

Remarks: Upper right corner of a tablet. The obverse is an igraphic.

Ni II-183 CBS 06598

Reverse: 92-95

Remarks: Small fragment of the lower left corner of a tablet. The obverse is an igraphic.

Ni II-184 CBS 04853

Reverse: I: 36-38; II: 52-54

Remarks: Lower left corner of a tablet. The obverse preserves two lines from the list of

containers: dug-ni[g₂-. May duplicate MSL 7, p.199: 20-21 or 24-25. The reverse is

badly written, in places illegible.

Ni II-185 CBS 05887

Publication: PBS 11/2, 13 (reverse only).

Remarks: Lower left corner of a tablet. The reverse has names beginning with I e₂-a (Akkadian).

The obverse has gis ma, items:

 $\begin{array}{l} 01^{!}\,^{gis}[\\ 02^{!}\,^{gis}ma_{2}\text{-}[\\ 03^{!}\,^{gis}ma_{2}\text{-}[\\ \{end\ of\ exercise\}\\ Not\ used\ in\ the\ edition. \end{array}$

Ni II-186 N 6106

Reverse: I: 389-396; II: 421-424

Remarks: Upper left corner of a tablet. The obverse has plants (SAR). Columns on the reverse run

from left to right. Obverse:

ha-za-nu-um SAR
 an-dah-šum SAR
 za-ha-din SAR
 za₂?-hi-li-a SAR

5 [numun-z]a₃?-hi-li-a SAR KU

{break}

The second half of the SAR sign in line 5 is reduplicated (SAR.KU).

Ni II-187 CBS 06466

Reverse: 322-328

Remarks: Bottom part of a tablet. On the obverse a few signs of the teacher's example have been

preserved. Unidentified. The reverse is difficult to read.

Ni II-188 CBS 06548

Reverse: 87-92

Publication: *SLT* 94 (obverse only)

Edition: *MSL* 7, p.179: V27 (obverse only)

Remarks: Upper left corner of a tablet. The obverse has reed objects.

Ni II-189 CBS 13621

Reverse: 89-99

Publication: *SLT* 116 (obverse only)

Remarks: Left edge fragment of a tablet. The obverse has a god list.

Ni II-190 CBS 10212

Reverse: I: 74-75; II: 97-103

Publication: *PBS* 5, 123 (obverse only) Edition: *MSL* 14, p.27: Jf (obverse only)

Remarks: Left edge piece of a tablet. Obverse has Proto-Ea. The reverse has a deviant version of

the Nippur giš list.

Ni II-191 N 6006

Reverse: 137-152

Remarks: Upper left corner of a tablet. The obverse is perhaps Old Babylonian Proto-Lu:

UG-[KID?-UG-[

SAL-UG-[(613) BAD-[(615)

ma-al-ga-[

Ni II-192 Ni 05256

Reverse: 88-93

Remarks: Upper left corner of a tablet. The obverse is probably Proto-Ea. Apart from the single

verticals which introduce each line, there is only one sign left: KU₃. This sign probably belongs to the pronunciation column of Proto-Ea 10 or 11. The text was studied from a

photograph in the University Museum, Philadelphia.

Ni II-193 Ni 04931

Reverse: 52d-55

Remarks: Lower left corner of a tablet. The obverse has reed objects:

gi[

giba-an-du-[

giba-an-du-um-[(perhaps end of line).

end of exercise.

Duplicates MSL 7, p.190, 96-99. The text was studied from a photograph in the Univer-

sity Museum, Philadelphia.

Ni II-194 Ni 04615

Reverse: 88-99

Edition: *MSL* 14, p.25: Hk (obverse only)

Remarks: Left half of a tablet. The obverse has Proto-Ea. The reverse needs cleaning and is at

times hard to read. The text was studied from a photograph in the University Museum,

Philadelphia.

Ni II-195 Ni 03818

Obverse: 319-332

Remarks: Left half of a tablet. The reverse has personal names, including names beginning with

a-ab-ba. The text was studied from a photograph in the University Museum,

Philadelphia.

Ni II-196 Ni 03615

Reverse: I: 100-104; II: 128-129; III: 148-153

Remarks: The obverse of this fragment is probably broken. Few lines of the reverse are legible.

The text was studied from a photograph in the University Museum, Philadelphia.

Ni II-197 N 6111

Reverse: 26-36

Remarks: Central part of a tablet. On the obverse a few traces of the pupil's side remain.

Unidentified.

Ni II-198 N 6148

Reverse: 15-22

Remarks: Right edge fragment of a tablet. The obverse is an epigraphic. The reverse is badly pre-

served.

Ni II-199 N 6159

Obverse 183-187

Remarks: Left edge fragment of a tablet. The piece was probably cut on purpose in antiquity. The

reverse is almost completely destroyed. The lines on the obverse are slanted.

Ni II-200 N 6101

Reverse: I: 15-17; II: 52-55; III: 92-99; IV: 123-129

Remarks: Central part of a tablet. The obverse is an pigraphic. Parts of four columns of the

reverse are preserved.

Ni II-201 CBS 13520

Reverse: I 31-32; 42; II: 62-65

Remarks: Small upper right corner of a tablet. The obverse is erased.

Ni II-202 N 6157

Reverse: I: 146-155; II: 172-180

Remarks: Upper right corner of a tablet. The obverse is an igraphic.

Ni II-203 N 5452

Reverse: 80-83

Edition: *MSL* 10, p.120: H (obverse only)

Remarks: Upper left corner of a tablet. Obverse plants.

Ni II-204 N 3435

Reverse: 99-104

Remarks: Flake; part of the left edge preserved. The columns run from right to left, therefore the

piece belongs to a reverse, probably the reverse of a type II tablet.

Ni II-205 UM 29-16-646

Reverse: I: 1-7; II: 45-53

Edition: *MSL* 13, p.15: G2 (obverse only)

Remarks: Lower right corner of a tablet. The obverse has Proto-Izi (pupil's copy).

Ni II-206 N 5186

Reverse: I: 132-134; II: 157-161

Remarks: Upper left corner of a tablet. Obverse has wild animals (snakes):

1 muš
2 muš-gir₃
3 [muš]-^dmuš
{break}.

Ni II-207 N 5552

Obverse: 317-324

Remarks: Upper left corner of a tablet. The reverse has personal names.

Ni II-208 N 5039 + N 5059

Reverse: I: traces; II: 79-87; III: 99-118

Edition: *MSL* 8/1, p.82: V 60 (obverse only)

Remarks: Upper left part of a tablet. Obverse domestic animals.

Ni II-209 N 5126

Reverse: 15-23

Remarks: Right edge fragment of a tablet. The obverse is erased.

Ni II-210 CBS 06514

Reverse: 502-507

Publication: *SLT* 87 (obverse only)

Edition: *MSL* 7, p.180: V36 (obverse only)

Remarks: Left edge fragment of a tablet. The obverse has reed objects. The reverse is difficult to

read.

Ni II-211 N 5140 (+) N 6015

Reverse: I: 37-41; II: 46-57

Remarks: Upper (N 6015) and lower edge fragments of a tablet. The obverses preserve parts of

two pupil's columns with a list of hides, duplicating $MSL\ 7$, p.214: 35-37 and 41. The reverse columns run from left to right. In the transliteration the line numbers of N 6015 (indicated with B) are estimated on the basis of the number of reconstructed lines

missing between the two fragments.

Ni II-212 UM 29-13-999

Reverse: 549-554

Remarks: Upper right corner of a tablet. The obverse preserves a few pupil's signs on a flattened

surface. Unidentified. The tablet turns in the wrong direction.

Ni II-213 N 4977

Obverse:74

Remarks: Left edge part of a tablet. The obverse is nearly effaced. The reverse has the end of

standard TU-TA-TI, including the subscript ^dnisaba-za₃-mi₂. The subscript is followed

by two or more lines but these are almost completely destroyed.

Ni II-214 N 4597

Obverse: 65 Reverse: 504-505

Remarks: Small upper left corner of a tablet. Both sides giš.

Ni II-215 N 4683

Reverse: 457-460

Remarks: Bottom fragment of a tablet. The obverse is an igraphic.

Ni II-216 N 4634

Reverse: I: 22-30; II: 57-61

Remarks: Upper right corner of a tablet. The obverse is an igraphic.

Ni II-217 CBS 02263

Reverse: I: 25-39; II: 64-72

Remarks: Upper right quarter of a tablet. The obverse is an igraphic.

Ni II-218 N 4062

Reverse: 55-64

Remarks: Central part of a tablet. On the obverse the ends of four lines are preserved. Legible is [

]- gi_4 -a (2x). Unidentified.

Ni II-219 CBS 13611

Obverse: 255-259

Publication: *PBS* 11/3, 7 (reverse only)

Remarks: Bottom part, near left corner, of a tablet. The reverse has personal names.

Ni II-220 CBS 15418

Obverse: 88-91

Remarks: Bottom left part of a type II tablet. The more curved side has an 'obverse' extract. The

reverse has the beginning of Short Ea (see §3.6). Therefore the columns on the reverse probably ran from left to right. The tablet was deliberately cut in two in antiquity.

Ni II-221 CBS 10344

Reverse: 359-365

Remarks: Lower left corner of a tablet. The obverse is an igraphic.

Ni II-222 N 4973 + N 4984

Reverse: I: 4-9; II: 22-30; III: 40-49; IV: 63-67

Remarks: Large bottom part of a tablet. The obverse is empty, except for horizontal lines indicat-

ing the end of the exercise.

Ni II-223 CBS 10259

Reverse: I: 25-26: II: 53-60

Remarks: Upper left corner of a tablet. The obverse has zabar items but differs from the text in

MSL 7, p.235f:

1 kam-kam-ma-[tum]-zabar (43) 2 hub₂-tu-u[m]-zabar (58)

3 []-ma-zabar (room for one sign, ending in a vertical)

4 []-zabar

Ni II-224 UM 55-21-387 (3N-T909h)

Obverse: 432-437

Reverse: I: traces; II: 31-35; III: 44-48

Edition: *MSL* 6, p.145 (obverse only)

Remarks: Upper left corner of a tablet. Both sides giš. The obverse preserves the teacher's model

and a small part of a pupil's copy (GIŠ signs only).

Ni II-225 N 5836

Reverse: I: 45-47; II: 57-58; 1-3

Remarks: Bottom left part of a tablet. The obverse has birds. The reverse has the list of trees. The

last few items of the last column repeat the beginning of this list. The tablet was cut on

purpose in antiquity.

Ni II-226 N 5614

Obverse: 511-514

Remarks: Left edge fragment of tablet. The reverse has personal names (?).

Ni II-227 N 4981

Obverse: 388-394

Remarks: Fragment of the upper edge of a tablet, near the left corner. The obverse preserves the

teacher's model and a few GIŠ signs of the pupil's copy. The reverse has names

beginning with 'a-.

Ni II-228 N 4787

Obverse: 43-45

Remarks: Central piece of the obverse of a tablet. The line separating the teacher's example from

the pupil's copy is partly visible.

Ni II-229 N 5019

Reverse: 1-6

Remarks: Lower right corner of a tablet. The obverse is an igraphic.

Ni II-230 N 4557

Reverse: I: 366-368; II: 388-390

Remarks: Small fragment of a tablet, parts of two columns preserved.

Ni II-231 N 5342

Reverse: 139-147

Remarks: Left edge fragment of a tablet. The obverse had lines beginning with SAL (six times

preserved), but seems to have been destroyed on purpose. Probably Old Babylonian

Proto-Lu.

Ni II-232 UM 29-15-022

Reverse: I: 405-409; II: 429-433

Remarks: Lower right corner of a tablet. The obverse is an igraphic.

Ni II-233 UM 29-16-554

Obverse: 293-302

Remarks: Left edge part of a tablet with upper edge preserved. The reverse has TU-TA-TI.

Ni II-234 N 4779

Reverse: 636-638

Remarks: Small upper edge fragment of a tablet. The obverse preserves the ends(?) of three lines:

1 []-ad 2 []-ur₂ 3 []-u[r₂?]

Unidentified. The reverse has been impressed by something leaving a pattern of lines in

a deep hole.

Ni II-235 N 5523

Reverse: 20-27

Remarks: Right edge fragment of a tablet. The obverse is an inepigraphic.

Ni II-236 UM 29-16-150

Obverse: 235-240

Remarks: Left edge part of a tablet. The reverse has names beginning with I a-bi.

Ni II-237 N 5564

Reverse: I: traces; II: 50-52d; III: 71-74

Remarks: Upper edge fragment of a tablet. The obverse is an epigraphic except for vertical lines,

probably division lines between two pupil's columns.

Ni II-238 UM 29-15-620

Reverse: I: 1-6a; II: 23-26

Remarks: Lower right corner of a tablet. The obverse is an pigraphic. The reverse is half effaced.

Ni II-239 UM 29-15-645

Reverse: I: 10-14; II: 40-49; III: 81-88; IV: 113-121

Remarks: Large bottom part of a tablet. The obverse has Old Babylonian Proto-Lu, partly

restoring MSL 12, p.52f:

[]-la₂ (3 times) [ba]lag-la₂ [ba]lag-la₂ []-la₂

-i]l-la₂ (553b)

 $]-ba_7-la_2$ (556)

 $]-ur_2$ (557)

{end of exercise}

The right side of the obverse has numerous scratches but seems to be unused. The

reverse is in a bad hand.

Ni II-240 UM 29-16-001

Reverse: I: 19-28; II: 46-58; III: 76-84; IV 99-109

Remarks: Upper half of a tablet. The left side of the obverse has a teacher's model with a list of

reed objects (gi ma-sa $_{2}$ -ab), duplicating MSL 7, p.187: 63-70 (omitting 66a and 68). The right half of the obverse is re-used for a list of names. The text on the reverse is well preserved. Most signs are executed in a detailed way. At the same time there are strange

errors, both in the execution of signs and in the items.

Ni II-241 UM 29-16-013

Reverse: I: 323-350; II: 354-375; III: 381-398; IV: 408-425 Edition: *MSL* 10, p.54: V29 (obverse only)

Remarks: Large part of a tablet; the bottom part and several pieces are missing. The obverse has

stones.

Ni II-242 N 6242

Reverse: 133-137

Remarks: Left edge fragment of a tablet. The obverse has reed objects, duplicating MSL 7,

p.181f.: 9-13.

Ni II-243 CBS 04815

Reverse: 83-86

Remarks: Left edge fragment of a tablet. The obverse has wild animals: the last items of the

section snakes and the first item of the section ur.

Ni II-244 Ni 10003

Reverse: I: 64-67; II: 96-98

Remarks: Left edge fragment of a tablet. The obverse has Proto-Izi, sections tukum-bi and UD,

duplicating MSL 13, p.23f: 196ff. The text was studied from a photograph in the

University Museum, Philadelphia.

Ni II-245 CBS 06686

Obverse: 12-22

Remarks: Upper left part of a tablet. The reverse has TU-TA-TI. The tablet was deliberately cut in

two in antiquity.

Ni II-246 CBS 08470

Obverse: 568-571

Remarks: Central part of a tablet, near the left edge. The reverse has TU-TA-TI, only the passage

pu-pa-pi is partly preserved. The identification of obverse and reverse is uncertain. Since the determinatives are lost, the obverse may be either gis or urudu (see MSL 7,

p.224: 173-177).

Ni II-248 CBS 06945

Reverse: I: 1-12; II: 62-75

Remarks: Lower right corner of a tablet. The obverse is an igraphic.

Ni II-249 CBS 07935

Obverse: 67-78a

Remarks: Lower right corner of a tablet. The text preserved on the obverse belongs to a pupil's

column. To the right another column is left unused (with rulings to align the GIŠ signs). The reverse is almost completely erased, leaving only some traces. The surface is

smoothed, apparently in preparation for the next exercise.

Ni II-250 N 5936

Reverse: I: 455-460; II: 483-491

Remarks: Upper left corner of a tablet. The obverse has foodstuffs. This part of ur₅-ra is not

standardized, compare MSL 11, p.123f. section 11:

1 še-sag

2 še-ESAG₂ ($GA_2xŠE$)

3 še-aš-te 4 še-gu-nu

5 še-zar

6 še-za[r]-tab-ba 7 še-zar-sal-l[a]

{break}.

Ni II-251 N 5960

Reverse: I: 423-429; II: 456-463

Remarks: Right edge fragment of a tablet. On the obverse a few pupil's signs remain: []-la; []-la-

ta; and traces. Unidentified. The reverse columns run from left to right.

Ni II-252 N 6201

Reverse: 58-65

Remarks: Flake of the reverse of a tablet. The piece is badly damaged.

Ni II-253 N 4990

Reverse: 81-87

Remarks: Upper left corner of a tablet. The obverse has model contracts concerning silver loans.

Ni II-254 CBS 10778

Reverse: 701-702

Remarks: Central part of a tablet. The obverse is lost. The reverse contains a passage from the

very last part of the giš list. The passage giš za-na is preserved here and in Ni I-10, but the

two texts can only partly be harmonized. Ni II-254 is edited separately in §5.5.

Ni II-255 N 6140

Obverse: 191-194 Reverse: 450-454

Remarks: Fragment, near the right edge, of a tablet. Both sides giš. On the obverse the remains of

two pupil's columns are preserved. The pupil's columns have been overlaid with new clay. Apparently the old clay had become too dry to allow another copy of the same exercise. The new layer is partly preserved and bears lines 4'-6' in the transcription.

Lines 1'-3' are legible on the older layer and are written in a much better hand.

Ni II-256 3N-T922z

Reverse: 94-98

Remarks: Central part of a tablet. The obverse has either wild animals or hides. The piece is now

in Baghdad but its IM number is unknown. It was studied from a cast in Chicago.

Ni II-257 3N-T922o

Reverse: I: 19-24; II: 38-39

Remarks: Left edge fragment of a tablet. The obverse is empty except for the 'end of exercise'

horizontal lines. The piece is now in Baghdad but its IM number is unknown. It was

studied from a cast in Chicago.

Ni II-258 3N-T909e

Obverse: 580-586

Remarks: Upper left part of a tablet. The reverse has Syllable Alphabet B. The piece is now in

Baghdad but its IM number is unknown. It was studied from a cast in Chicago.

Ni II-259 3N-T909c

Reverse: I: traces; II: 51-57; III: 79-82

Remarks: Bottom fragment of the reverse of a tablet. The piece is now in Baghdad but its IM

number is unknown. It was studied from a cast in Chicago.

Ni II-260 3N-T914cc

Obverse: 84-88

Remarks: Left edge piece of a tablet. The reverse has personal names, including Šul-gi-dingir-mu.

Ni II-261 3N-T921jj

Obverse: 146-148

Remarks: Left edge fragment of a tablet. Reverse personal names? The piece is now in Baghdad

but its IM number is unknown. It was studied from a cast in Chicago.

Ni II-262 3N-T920s

Reverse: 349-355

Remarks: Reverse fragment of a tablet. The piece is now in Baghdad but its IM number is

unknown. It was studied from a cast in Chicago.

Ni II-263 3N-T920ff

Reverse: I: 191-198; II: 239-242

Edition: *MSL* 13, p.64: B (obverse only)

Remarks: Left edge fragment of a tablet. The obverse has Proto-Kagal. The text was published as

A 33516 in MSL 13. The tablet moved to Baghdad but its present IM number is

unknown. It was studied from a cast in Chicago.

Ni II-264 12N-562

Obverse: 131-134

Remarks: Lower half of a tablet. The reverse has Syllable Alphabet B. It was listed in OIC 23,

p.117. The piece is now in Baghdad but its IM number is unknown. It was studied from

a cast in Chicago.

Ni II-265 CBS 02235

Reverse: 1-9

Remarks: Lower right corner of a tablet. The obverse is an igraphic.

Ni II-266 CBS 04800

Reverse: I: 74-77; II: 90-99

Publication: *SLT* 74 (obverse only)

Remarks: Upper left corner of a tablet. The obverse has birds.

Ni II-267 CBS 04823

Reverse: I: 31-34; II: 48-52

Remarks: Upper part of a tablet. On the obverse a few traces of the pupil's column remain. The

reverse is in crude writing.

Ni II-268 CBS 06390

Obverse: 422-423

Publication: *PBS* 11/1 Pl.37 (reverse only)

Remarks: Upper right corner of a tablet. On the obverse two pupil's columns are partly preserved.

The pupil's text is written on a new layer of clay, in places the old layer is visible. The writing on the old layer cannot be identified. The transliteration is a compilation of the

two columns. The reverse has personal names.

Ni II-269 CBS 06558

Reverse: 55-62

Publication: *SLT* 208 (obverse only)

Edition: *MSL* 7, p.211: V19 (obverse only)

Remarks: Upper part of a tablet. The obverse has a list of hides.

Ni II-270 CBS 06578

Obverse: 513-515

Remarks: Small left edge fragment of a tablet; only few signs remain. The size of the writing

makes it very plausible that this is a fragment from the obverse of a type II tablet.

Ni II-271 CBS 06808A

Reverse: I: 3-6a: II: 21-25

Remarks: Very badly preserved piece of the reverse of a tablet. The obverse is lost.

Ni II-272 CBS 06557

Reverse: I: traces; II: 41-45; III: 61-62 Publication: *SLT* 198 (obverse only)

Edition: *MSL* 7, p.212: V30; p.229: V3 (obverse only)

Remarks: Upper left corner of a tablet. The obverse has metal objects. Compared to the copy in

SLT and the edition in MSL the lower part of the fragment is now lost (lines 7-10; lines

5 and 6 preserve the last sign only).

Ni II-273 N 6171

Obverse: 66-68 Reverse: 52c-56

Remarks: Right edge fragment of a tablet. Both sides have giš. The tablet turns in the wrong

direction. Most probably the side with giš-nimbar items is the obverse. The tablet was cut in two in antiquity. The cut edge is such that the giš-nimbar items are fully

preserved.

Ni II-274 CBS 12655

Reverse: 120-124

Remarks: Left edge fragment of a tablet. The obverse probably has items beginning with zabar

(see MSL 7, p.231: 1-6).

Ni II-275 CBS 07904 + N 5220

Reverse: I: 45-56; II: 67-75

Remarks: Central part of a tablet. The obverse has reed items, apparently deviating from the text

edited in MSL 7, p.188f.:

1 []-an (74) 2 []-sim (73) 3 []-DI 4 []-sur 5 []-hal (80a)

5 []-nat (80a) 6 [g]i-hal-zi-ig (81) 7 [-h]al-ku₆ (82) 8 []-mušen (83)

9 []-uzu (84) 10 []-an (85)

Ni II-276 N 5736

Reverse: 592-595

Remarks: Bottom fragment of a tablet. The obverse is lost.

Ni II-277 UM 29-15-343

Reverse: I: 299-301; II: 325-327; III: 351-357

Remarks: Bottom part of a tablet. The obverse has Proverb Collection 14 no.21 (identified by

Steve Tinney). The line preceding this proverb is unidentified but does not belong to

PC 14 (personal communication by B. Alster).

Ni II-278 UM 29-15-977

Reverse: I: 108-118; II: 142-161

Edition: *MSL* 10, p.144: E (obverse only)

Remarks: Upper left corner of a tablet. The obverse has wool. The tablet was deliberately cut in

two in antiquity.

Ni II-279 CBS 13619

Reverse: 4-6b

Edition: *MSL* 10, p.54: V34 (obverse only)

Remarks: Left edge part, near the upper corner, of a tablet. The obverse has stones. The columns

on the reverse run from left to right.

Ni II-280 UM 29-16-539

Obverse: 411-415

Remarks: Central part of a tablet. Very little of the reverse is preserved; unidentified. The tablet

turns in the wrong direction.

Ni II-281 N 1564

Obverse: 517-526

Remarks: Upper left corner of a tablet. The reverse has personal names in groups of three.

Ni II-282 N 3359

Reverse: 17-22

Remarks: Flake, with part of the right edge preserved. The fragment probably comes from the

reverse of a type II tablet.

Ni II-283 N 4067

Reverse: 1-9

Remarks: Lower right corner of a tablet. The obverse is an igraphic.

Ni II-284 N 4624

Reverse: 74; 68

Remarks: Upper right corner of a tablet. On the obverse a few signs of a pupil's column remain;

unidentified.

Ni II-285 N 4885

Reverse: 52-54

Remarks: Lower left corner of a tablet. The obverse is unidentified, it may be giš, the determi-

native ends in a vertical. Legible is [] TUN₃-s[ur?].

Ni II-286 N 4660

Obverse: 649 Reverse: 38-40

Remarks: Lower left corner of a tablet. Both sides have giš. On the obverse only one line is

legible, the rest of the column is erased.

Ni II-287 N 4836

Reverse: 1-5

Remarks: Lower right corner of a tablet. The obverse is an igraphic.

Ni II-288 N 4880

Reverse: 69-70

Remarks: Upper left corner of a tablet. The obverse has hides; only the determinative kuš has

been preserved several times.

Ni II-289 N 5365

Reverse: I: 82-90; II: 108-118

Remarks: Upper right corner of a tablet. The obverse is an igraphic.

Ni II-290 N 5568

Obverse: 31-40 Reverse: 25-27

Remarks: Middle part of a tablet, near left edge. Both sides giš.

Ni II-291 N 5598

Reverse: 78-80

Remarks: Left edge fragment of a tablet. The obverse is an igraphic.

Ni II-292 N 5648

Reverse: 98-99a

Remarks: Left edge fragment of a tablet. The obverse has domestic animals (UZ₃), but little

remains.

5.7.1.4 Type III Tablets

Ni III-01 CBS 06465

Obverse: 121-128 Reverse: 133-134

Publication: *SLT* 244

Remarks: Almost complete tablet. A part of the bottom is missing. The exercise continues on the

reverse. A double line indicates the end. Under these lines a number of largish signs are to be seen, the meaning of which is unclear (the copy in *SLT* is not entirely reliable

here): nig₂-lu₂ ku₃-lugal še-šul i₃-suhur

Ni III-02 CBS 06540

Obverse: 451-461 Reverse: 462-468

Publication: *SLT* 135 (reverse only)
Edition: *MSL* 6, p.147 (reverse only)

Remarks: Nearly complete tablet. The obverse is weathered and hardly legible.

Ni III-03 UM 29-13-163

Obverse: 560-574

Remarks: Almost complete tablet. The exercise ends on the obverse with a double horizontal line.

The writing is very superficial and difficult to read. The reverse preserves traces of

erased signs. A handcopy of the tablet is reproduced in §2.3.3.3.

Ni III-04 CBS 06138

Obverse: 122-138

Publication: *SLT* 134

Remarks: Upper part of a tablet; part of the upper edge is probably preserved. On the reverse

there are impressions of the stylus, apparently without meaning. A number of incisions

are found on the obverse. Part of the text is erased, probably by a finger.

Ni III-05 UM 29-16-402

Obverse: 105-115 Reverse: 116-127

Remarks: Almost complete tablet. The surface is somewhat eroded. Four vertical wedges are

drawn on the upper edge.

5.7.1.5 Type IV Tablets (Lentils)

Ni IV-01 CBS 04864

Obverse: 28-29

Edition: Falkowitz *AfO* 29/30, p.24

Remarks: Fragmentary lentil-shaped tablet. Two lines of text repeated on the obverse. The reverse

has some illegible signs.

Ni IV-02 CBS 04869

Obverse: 52-53

Publication: *SLT* 154

Edition: Falkowitz *AfO* 29/30, p.24

Remarks: Complete lentil-shaped tablet. Two lines of text repeated on the obverse. The reverse is

anepigraphic.

Ni IV-03 CBS 10507

Obverse: 127-128

Edition: Falkowitz *AfO* 29/30, p.28

Remarks: Fragment of a lentil-shaped tablet. Two lines of text repeated on the obverse. The

reverse is inscribed but illegible.

Ni IV-04 UM 29-16-469

Obverse:41-42

Edition: Falkowitz *AfO* 29/30, p.33

Remarks: Fragment of a lentil-shaped tablet. Two lines of text repeated on the obverse. The

reverse is an pigraphic.

Ni IV-05 N 5063

Obverse: 86-87

Edition: Falkowitz *AfO* 29/30, p.33

Remarks: Damaged lentil-shaped tablet. Two lines of text repeated on the obverse.

Ni IV-06 N 5399

Obverse: 70-71

Edition: Falkowitz *AfO* 29/30, p.34

Remarks: Fragment of a lentil-shaped tablet. Two lines of text repeated on the obverse. The

reverse is an pigraphic.

Ni IV-07 N 5933

Obverse: 34-35

Edition: Falkowitz *AfO* 29/30, p.35

Remarks: Almost complete lentil-shaped tablet. Two lines of text repeated on the obverse. The

reverse is an pigraphic. The obverse is weathered.

Ni IV-08 UM 55-21-043 (2N-T207)

Obverse: 43-44

Edition: Falkowitz *AfO* 29/30, p.37

Remarks: Complete lentil-shaped tablet. Two lines of text repeated on the obverse. The reverse is

an epigraphic. A hand copy of the tablet is reproduced in §2.3.3.4.

Ni IV-09 UM 55-21-044 (2N-T209)

Obverse: 20-21

Edition: Falkowitz *AfO* 29/30, p.38

Remarks: Tablet not collated. The transliteration is taken from the edition by Falkowitz.

Ni IV-10 UM 55-21-055 (2N-T258)

Obverse: 14; 16

Edition: Falkowitz *AfO* 29/30, p.38

Remarks: Almost complete lentil-shaped tablet. The surface is partly damaged. Two lines of text

repeated on the obverse. The reverse is an pigraphic.

Ni IV-11 2N-T459

Obverse:unplaced

Edition: Falkowitz *AfO* 29/30, p.39

Remarks: Damaged lentil-shaped tablet. Two lines of text repeated on the obverse. The original is

now in Baghdad but the IM number is unknown. The piece was studied from a cast in Chicago. The text as preserved does not fit any known passage in the Nippur standard

text. The lentil is edited separately in §5.5.

Ni IV-12 IM 58046 (2N-T730)

Obverse: 130; 133

Reverse: 1-133 (abbreviated)

Publication: TIM X/1, 130 (obverse only).

Edition: Falkowitz *AfO* 29/30, p.41 (obverse); *MSL* 5, pp.132-133 (reverse).

Remarks: Almost complete lentil-shaped tablet. The obverse has two lines of text repeated. The

reverse has three columns of text. Both obverse and reverse have an extract from the list of trees. The reverse list is a much abbreviated version of this list. The reverse ends with the two items found on the obverse. The piece was studied from a cast in Chicago.

A separate transliteration of this lentil is offered in §5.5.

Ni IV-13 A 30170 (3N-T160)

Obverse: 139-140

Edition: Falkowitz *AfO* 29/30, p.41

Remarks: Damaged lentil-shaped tablet. Two lines of text repeated on the obverse.

Ni IV-14 IM 58398 (3N-T240)

Obverse: 110-111

Edition: Falkowitz *AfO* 29/30, p.42

Remarks: Lentil-shaped tablet. Two lines of text repeated on the obverse. The piece was studied

from a cast in Chicago.

Ni IV-15 CBS 06517

Obverse: 586-587

Publication: SLT 155 Edition: MSL 6, p.154

Remarks: Complete lentil-shaped tablet. Two lines of text repeated on the obverse. Not collated.

Transliterated from the published copy.

Ni IV-16 UM 55-21-054 (2N-T257)

Obverse: 290-291

Edition: Falkowitz *AfO* 29/30, p.38

Remarks: Almost complete lentil-shaped tablet. Two lines of text repeated on the obverse. The

reverse is an epigraphic. The museum number may be incorrect. In my collation notes and on my photograph the piece is indicated as UM 55-21-070. In Falkowitz's list the

latter number is a lentil with personal names (2N-T414).

Ni IV-17 CBS 07872

Obverse: 153-154

Edition: Falkowitz *AfO* 29/30, p.27

Remarks: Almost complete lentil-shaped tablet. Two lines of text repeated on the obverse. The

reverse is an pigraphic.

Ni IV-18 CBS 10784

Obverse: 160-161

Edition: Falkowitz *AfO* 29/30, p.28

Remarks: Central part of a lentil. Two lines of text repeated on the obverse. Very little of the

writing is preserved. The placement of the (traces of the) gu in lines 1 and 3 shows that the item was $[g^{ig}g]u$ -[za], without further qualification. The second item is therefore

[gis gu]-za-s[ig₅], which fits the traces in line 2 well.

Ni IV-19 N 5923

Obverse: 290-291

Edition: Falkowitz *AfO* 29/30, p.34

Remarks: Fragment of a lentil-shaped tablet. Two lines of text repeated on the obverse. The

reverse is an pigraphic.

Ni IV-20 A 30182 (3N-T231)

Obverse: 294-294a

Edition: Falkowitz *AfO* 29/30, p.42

Remarks: Almost complete lentil-shaped tablet. Two lines of text repeated on the obverse. The

pupil's copy is clearly inferior in writing.

Ni IV-21 IM 58397 (3N-T239)

Obverse: 293-294

Edition: Falkowitz *AfO* 29/30, p.42

Remarks: Lentil-shaped tablet. Two lines of text repeated on the obverse. The piece was studied

from a cast in Chicago.

Ni IV-22 IM 58399 (3N-T241)

Obverse: 359-360

Edition: Falkowitz *AfO* 29/30, p.42

Remarks: Lentil-shaped tablet. Two lines of text repeated on the obverse. The piece was studied

from a cast in Chicago.

Ni IV-23 HS 1662

Obverse: 63; 62

Remarks: Nearly complete lentil-shaped tablet; diameter 8 cm. Two lines of text repeated on the

obverse. The error in the teacher's text (gis mi-ri-is-ra instead of gis mi-ri-is-gar-ra) is

faithfully copied by the pupil. On the reverse some lines have been incised.

Ni IV-24 N 5527

Obverse: 639

Edition: Falkowitz AfO 29/30, p.34

Remarks: Fragment of the upper edge of a lentil-shaped tablet. One line of the obverse has been

preserved.

Ni IV-25 CBS 07970

Obverse: 610-611

Edition: Falkowitz *AfO* 29/30, p.27

Remarks: Fragment of a lentil-shaped tablet. Two lines of text repeated on the obverse. The

reverse has something that looks like a seal impression.

Ni IV-26 Ni 01829

Obverse: 477; 479

Remarks: Lentil-shaped tablet. Two lines of text repeated on the obverse. The text was studied

from an unpublished copy by Hilprecht kept in the University Museum, Philadelphia.

5.7.1.6 Type Unidentified

Ni U-01 CBS 04855

Obverse?: 77-77a Publication: *SLT* 130

Remarks: Left edge fragment of a tablet. Three lines preserved on one side, on the other side only

traces remain. The fragment may come from a type II tablet, but whether obverse or reverse cannot be established. A hole has been pierced through the fragment from top to

bottom.

Ni U-02 CBS 07998

Obverse: 50-56 Reverse: 61-64

Remarks: Right edge fragment of a tablet. The text probably continues from obverse to reverse

but the tablet turns in the wrong direction. On both sides the writing is relatively large.

Ni U-03 CBS 06399

Obverse?: 190-192

Remarks: Small central fragment of a tablet. On one side part of one column in good writing has

been preserved. On the other side only a few traces remain. These traces include a double line, such as is commonly found under the obverse exercise of a type II tablet,

but these lines are again followed by traces of a sign.

Ni U-04 CBS 06585

Reverse: I: 586-596; II: 625-637; III: 663-665

Remarks: Central part, near the right edge of a tablet. The obverse is crumbling; illegible. The

reverse has good writing. The piece may be either type I or type II.

Ni U-05 N 5229

Obverse: I: 2-12; II: 16-25 Reverse: I: 25b-33; II: 35-42

Remarks: Almost complete tablet; the lower corners are missing. The tablet is similar in format to

Ni U-24 = IM 58729 (3N-T 809), with two columns on both sides.

Ni U-06 CBS 03853

Obverse?: 178-181 Publication: *SLT* 174 Remarks: Small flake.

Ni U-07 CBS 08269

Obverse: 13; 45; 12

Remarks: Oval tablet. Only one side inscribed (three lines). The text deviates from the standard

giš list. A transliteration is offered in §5.5.

Ni U-08 N 6970

Obverse?: 280-282

Remarks: Small central fragment of a tablet. One side has gistma2, the other side is unidentified. The

writing on both sides differs, so the piece probably comes from a type II tablet. Judging

from the curvature the ^{g18}ma₂ side is probably the obverse.

Ni U-09 CBS 10164

Obverse: 160-171

Publication: *SLT* 142

Remarks: Large piece of a tablet. The obverse is divided into two columns. The left column is

inscribed with a list of wooden objects, the right column with two personal names. The

rest of the right column is unused. The reverse is an pigraphic.

Ni U-10 CBS 08062

Obverse?: 276

Remarks: Small fragment of a tablet in a box with numerous chips. Parts of two columns are

preserved. The left column has traces only. The fragment is too small to determine its

type.

Ni U-11 CBS 13522

Obverse?: unplaced

Remarks: Small lower left corner piece, too small to determine its type. It may belong to the

obverse of a type II tablet. Two lines preserved:

 ${}^{gi\check{s}}X$ [${}^{gi\check{s}}$ eme-[

A possible reading is gis [ag-apin]; gis eme-[apin]; but too little is left to decide. The

fragment is not used in the edition.

Ni U-12 N 5108

Obverse?: 375-384

Remarks: Chip with good, but largish writing. It derives either from the obverse of a type II tablet,

or from a type I tablet. The writing is similar to that of CBS 6003 + 6369 (Ni U-15). If the pieces belong together it is a type I tablet, this fragment being the obverse and CBS

6003+ the reverse.

Ni U-13 CBS 03944

Obverse?: 428-431

Remarks: Small fragment with remainders of two columns. Perhaps a part of the upper edge is

preserved.

Ni U-14 N 5283

Obverse?: I: 25-25b; II: 44-45

Remarks: Bottom fragment of a tablet. A few traces remain on the other side.

Ni U-15 CBS 06003 + CBS 06369

Reverse: I: 586-591; II: 617-625

Publication: SLT 127 (CBS 06369)

Remarks: Chip of the reverse of a tablet; perhaps type I. Good but rather largish writing. The

piece may belong to the same tablet as N 5108 (Ni U-12) which has a similar writing style. It cannot belong to CBS 5931+ (Ni I-10) because the width of the column differs.

Ni U-16 CBS 06433

Obverse?: 596-604 Publication: *SLT* 182

Edition: *MSL* 6, pp.156-157

Remarks: Flake.

Ni U-17 N 1479

Obverse?: 380-382

Remarks: Left edge fragment of a thin tablet. The other side is an igraphic.

Ni U-18 CBS 10767

Obverse?: 20-25b

Remarks: Flake with the remains of two columns. The piece may come from the reverse of a type

II tablet or from a type I tablet or prism.

Ni U-19 N 5353

Obverse?: 444-446 Remarks: Flake.

Ni U-20 UM 29-16-604

Obverse?: 145-149

Remarks: Tablet chip with careful writing. The columns run from left to right. The piece possibly

comes from a type I tablet. Since the text deviates from the standard Nippur list, a

separate transliteration is offered in §5.5.

Ni U-21 N 4728

Obverse?: 39-44

Remarks: Flake with relatively small writing. Remains of two columns preserved.

Ni U-22 N 5367

Obverse?: 93-97 Remarks: Flake.

Ni U-23 CBS 06536A

Obverse?: 86-89

Remarks: Small left edge fragment.

Ni U-24 IM 58729 (3N-T809)

Obverse: I: 12-20; II: 36-38; 53-55 Reverse: I: 56-63; II: 84-89

Edition: See MSL 5, p.111 and p.113

Remarks: Relatively small tablet with two columns on both sides, similar in format to N 5229 (Ni

U-05). The piece was studied from a cast in Chicago. On the left side:

šu-ur-ma-nu-um ma-na-an-mu-[

Ni U-25 3N-T911u

Obverse?: I: 3-11; II: 53-57

Remarks: Upper left corner of a tablet, with columns running from left to right. The piece may

come from the reverse of a type II tablet, or from the obverse of a type I tablet. The tablet is now in Baghdad but its IM number is unknown. It was studied from a cast in

Chicago.

Ni U-26 12N-516

Obverse: I: 428-433; II: 465-468

Remarks: Fragment of a tablet with only one side preserved. The columns run from left to right.

The writing is small and careful. Most probably the piece comes from a type I tablet that started with gis ig. However, it may also belong to the reverse of a type II tablet. The fragment is in Baghdad but its IM number is unknown. It was studied from a cast in

Chicago. The piece is listed in OIC 23, p.116.

Ni U-27 N 6475

Obverse?: unplaced

Remarks: Small chip; with only three lines gisig-[] preserved. Not used in the edition.

Ni U-28 CBS 10071

Obverse?: 646-647

Remarks: Small fragment of a tablet. Traces of three columns have been preserved; of the first

and the last columns only traces remain. The text represents an alternative version of

the last part of the giš list. The piece is edited separately in §5.5.

Ni U-29 CBS 10192

Reverse: I: 296; 293; II: 315-316; 264; 319-324

Remarks: Flake of a reverse of a tablet. Parts of two columns are preserved. The tablet is either

type I or type II. The writing is similar to CBS 10071 (Ni U-28). Both texts represent a

deviant tradition and are edited separately in §5.5.

5.7.1.7 Nippur Tablets not Used.

3N-T910e

Publication: Edition:

Remarks: Fragment of a tablet. The piece is now in Baghdad but its IM number is unknown. It

was studied from a cast in Chicago. Mostly illegible except for a few GIŠ signs.

12N-568

Publication:

Edition: Falkowitz *AfO* 29/30, p.43

Remarks: Fragment of a lentil which only preserves the GIŠ sign four times. Studied from a cast

in Chicago. Listed in OIC 23, p.117.

CBS 04804 (+) CBS 19811

Publication: *SLT* 95 (obverse only)

Edition: *MSL* 7, p.179: V32 (obverse only)

Remarks: Upper left corner of type II tablet. The obverse has reed objects. The reverse has giš.

Legible is gis zi-[(last item in first col.), and some gis-nimbar items in the second col.

CBS 06458

Publication: Edition:

Remarks: Upper part of a type II tablet. The obverse has birds (parallels *SLT* 69 IV, 17-20); the

reverse giš: illegible.

CBS 06532

Publication: Edition:

Remarks: Small left hand fragment of a tablet with good writing. Only contains the GIŠ sign three

times and traces.

CBS 06572

Publication: Edition:

Remarks: Very small piece of a tablet with good writing. Only a few GIŠ signs and some traces

of a column to the left have been preserved.

CBS 06581

Edition:

Remarks: Central fragment of a tablet. 1' giš []; 2' giš sa-[]; 3' giš sa-[]; 4' giš x []; 5' g[iš].

The passage may belong to the section $^{\mbox{\tiny gis}}sa$ ('net') or $^{\mbox{\tiny gis}}sa\mbox{-ma-nu-um}$ etc. (in the section

trees). To the left of this column some space is left unused. The reverse is broken. Tablet type is undetermined.

CBS 06586

Publication:

Edition: *MSL* 8/1, pp.81-88: V28 (obverse only).

Remarks: Large upper left corner piece of a type II tablet. The obverse has domesticated animals.

The reverse has giš.nimbar items. Traces of three columns are preserved. Col II: gišnimbar-[].; col III: [giš]-nimbar. The tablet is too eroded to warrant transcription.

CBS 06592

Edition:

Remarks: Central part of a type II tablet. The obverse is an pigraphic; the reverse has giš: illeg-

ible.

CBS 08028

Edition:

Remarks: Bottom right corner of a type II tablet. The preserved column on the obverse is a pupil's

column which has been covered with a new layer of clay. This new layer is inscribed with a part of the stone list (parallels *MSL* 10, p.60f. 192-198). A few traces of writing on the old layer are still visible. The reverse has a giš list. Only some GIŠ signs have

been preserved.

CBS 13524

Edition:

Remarks: Left edge fragment of a tablet. Only a few GIŠ signs are preserved.

IM 58631 (3N-T698)

Edition: *MSL* 11, p.112: F1 (obverse only)

Remarks: Fragment of a type II tablet. The piece was studied from a cast in Chicago. The obverse

has foodstuffs. The reverse has gis ma₂ items; unidentified.

N 4704

Edition:

Remarks: Upper left corner of a tablet. The reverse is illegible. The obverse has 5 gis ma, items. No

qualifications have been preserved.

N 4978

Edition:

Remarks: Left hand fragment, probably from the obverse of a type II tablet. Only gis gu-za

preserved (5 times). Largish writing.

N 5020

Edition:

Remarks: Flake. Two gis ig items, and 5 more gis lines preserved. The latter five lines have blank

space after the GIŠ, which suggests that the GIŠ was followed by a single sign. There is no passage in the Nippur giš list that fits this fragment. The piece may be post-Old

Babylonian

N 5607

Edition:

Remarks: Upper left corner. Obverse illegible. The reverse has giš items, but is otherwise

illegible.

N 5929

Edition: *MSL* 13, p.65: M (obverse only)

Remarks: Bottom part of a type II tablet. The obverse has Proto-Kagal. The reverse is giš. It may

contain the passage 'loom and related objects': gik TAG-TUG; gik kur-ra (col. II). Very

difficult to read.

N 6096

Edition:

Remarks: Central piece, most probably from the reverse of a type II tablet. Few remains of signs

have been preserved. The right column has GIŠ signs.

N 6578

Edition:

Remarks: Upper left corner of a type II(?) tablet. The obverse preserves partial signs; the reverse

has the GIŠ sign four times and traces.

Ni 01103

Edition:

Remarks: Fragment of a type II tablet. The obverse has Proto-ki-ulutin-bi-še₃; the reverse giš. The

tablet was examined from a photograph in the University Museum, Philadelphia. The

reverse could not be deciphered.

Ni 03275

Publication: ZSN Pl. X (reverse only)

Edition:

Remarks: Type II tablet. The obverse has giš, the reverse TU-TA-TI. Listed in Cig, Kizilyay, and

Landsberger (1959), p.11. Not examined.

Ni 04776

Edition:

Remarks: Type II tablet. The obverse(!) has giš; the reverse TU-TA-TI, with columns from left to

right. Listed in Cig, Kizilyay, and Landsberger (1959) p.15. Not examined.

Ni 05055

Edition:

Remarks: Type II tablet. The obverse has giš; the reverse TU-TA-TI. Listed in Cig, Kizilyay, and

Landsberger (1959), p.16. Not examined.

UM 29-13-076

Edition: *MSL* 7, p.198: V7 (obverse only)

Remarks: Left upper quarter of a type II tablet. The obverse has containers (dug); the reverse

giš(?). The reverse has largish writing but no items could be identified.

UM 29-16-574

Edition:

Remarks: Almost complete type II tablet. The obverse has containers (parallels MSL 7, p.200:

41-49; and 52). The reverse has ^{gis}gu-za items: illegible. The reverse is destroyed by a

hand which was pressed into the soft clay.

5.7.2 Tablets from Isin

Is I-01 IB 1535 + IB 1606

Remarks: Large upper-left corner piece of a five- or six-column tablet. Transliterated from a copy

by Prof. C. Wilcke. See Wilcke 1987, p.103.

Is I-02 IB 1547

Remarks:

Four-column tablet, almost complete. Reverse columns run from left to right. Second half of the last column has scribbles and a date. Transliterated from a copy by Prof. C. Wilcke. See Wilcke 1987, p.103.

Is I-03 IB 1512c + IB 1516 + IB 1550 + IB 1561 + IB 1563

Remarks: Large four-column tablet. IB 1561 and IB 1550 are physically joined. The join with IB

1516 was already suggested in annotations by Wilcke. The other joins are almost certain. IB 1512c is said to belong with the fragments of the large tablet of personal names IB 1512, but it clearly fits the present tablet. All pieces are found in NO III. IB 1566, also from NO III, may be part of the reverse of the same tablet. According to the proposed restoration col. III has 31 lines, giving a total amount of approximately 8x31=248. Transliterated from copies by Prof. C. Wilcke. See Wilcke 1987, p.102.

Is IV-01 IB 1701

Publication: Krebernik 1992, p.110.

Remarks: Three lines of text; repeated on the reverse.

Is IV-02 IB 1620

Remarks: Three lines of text, repeated on the reverse. Transliterated from a copy by Prof. C.

Wilcke. See Wilcke 1987, p.113.

Is IV-03 IB 1495

Remarks: Three lines of text. The reverse probably contained the pupil's copy but is almost

completely broken. Transliterated from a copy by Prof. C. Wilcke. See Wilcke 1987,

p.112.

Is IV-04 IB 1613

Remarks: Three lines of text, repeated on the reverse. Transliterated from a copy by Prof.

C.Wilcke. See Wilcke 1987, p.113.

Is IV-05 IB 1614

Remarks: Fragment. Three lines of text, repeated on the reverse. Transliterated from a copy by

Prof. C. Wilcke. See Wilcke 1987, p.113.

Is IV-06 IB 1618

Remarks: Three lines of text. Transliterated from a copy by Prof. C. Wilcke. See Wilcke 1987,

p.113.

Is IV-07 IB 1619

Remarks: Three lines of text. Transliterated from a copy by Prof. C. Wilcke. See Wilcke 1987,

p.113.

Is U-01 IB 1566

Remarks: Text type unknown but may be part of the reverse of IB 1512c+. Transliterated from a

copy by Prof. C. Wilcke. See Wilcke 1987, p.102.

5.7.3 Tablets from Ur

Ur I-01

Publication: UET 7, 87 + UET 7, 91 + UET 6/3, 549

Remarks: Large multi-column tablet. Six columns of the reverse are preserved. The tablet orig-

inally contained the whole giš list. No field number is known. The two pieces published in *UET* 7 are now in Iraq, and have not been collated. *UET* 6/3, 549 joins the top of the middle column of *UET* 7, 87. The exact location of *UET* 7, 91 is uncertain. It is assumed that column I of this piece has the first sign(s) of *UET* 7, 87 III 7'-15', but a position of one to four lines higher or one line lower is not excluded. This particular position is chosen because lines 3' and 4' have some blank space at the beginning sug-

gesting short lines (al-šub and al-sag).

Ur IV-01 BM 113910 (= UR 1918-10-12, 458)

Publication: Archaeologia 70 (1920), p.125 (copy) and plate VIII.

Edition: *MSL* 6, 154

Remarks: Lentil. In MSL 6 the provenance of the tablet is erroneously indicated as 'Abu Shahrein'.

The text is repeated on the reverse in a rather bad hand. At the bottom of the reverse

three signs are partly preserved, the first of which is PI. Perhaps a name?

Ur IV-02 BM 113911 (= UR 1918-10-12, 459)

Publication: Archaeologia 70 (1920), p.125 (copy) and plate VIII.

Edition *MSL* 6, 44-45 (V12)

Remarks: Lentil. The text is repeated on reverse.

Ur IV-03

Publication: *UET* 6/3, 342

Remarks: Lentil. Text repeated on the reverse. On the obverse the teacher's model is followed by

a name (mu-ha-du-um). On the reverse the pupil's exercise is followed by a-dnisaba

arad-X-bal. This is hardly a name; perhaps an exclamation?

Ur IV-04

Publication: *UET* 6/3, 338

Remarks: Upper half of a lentil. The text was repeated on the reverse, but almost nothing has been

preserved there.

Ur IV-05

Publication: *UET* 6/3, 373

Remarks: Lentil. Text repeated on reverse.

5.7.4 Tablets from Uruk

Uk II-01 W 16603 c

Publication: Cavigneaux 1996, no. 176 Edition: Cavigneaux 1996, p.85

Remarks: Right edge fragment of a tablet. The obverse preserves a part of the pupil's text. On the

reverse a sign list. Transliterated from the published copy.

Uk U-01 W 16743 dp

Publication: Cavigneaux 1996, no 174 Edition: Cavigneaux 1996, p.84

Remarks: Small fragment of a tablet. Transliterated from the published copy.

5.7.5 Tablets of Unknown Provenance

Prisms

NP P-01 KM 89542

Remarks: Kelsey Museum, Ann Arbor, Michigan. Square prism with two columns per side. Parts

of columns 1, 6, 7, and 8 are preserved. The surface is crumbling. The full height and breadth of the piece are preserved on side 4 (17.5x7.5). Traces of the hole are visible. The last column ends with a double horizontal line, followed by traces of a colophon

(illegible).

NP P-02 Ash. 1923.0402

Publication: *MSL SS*1, 96 (Plate XIX-XX)

Remarks: Four-sided prism from the Weld-Blundell collection. All four sides partly preserved but

very damaged. On collation Gurney's copy proved to be excellent.

Type I Tablets

NP I-01 VAT 06588

Remarks: Upper left corner of a tablet. Reverse broken. Incorrectly listed in MSL 5, p.90 as VAT

6558; see p.96 (ad 30e) and 105 (ad158-175).

NP I-02 VAT 00658 + 663 + 665 + 685

Publication: *LTBA* I 79

Remarks: Very large tablet, probably six columns per side. Part of the right edge is preserved.

Order of the sections is unlike most other versions but corresponds to NP I-05.

NP I-03 MLC 01454 + MLC 01455

Publication: BRM IV, 29 + 30

Remarks: Upper part of a large tablet, 5 columns per side. The two pieces join but are at present

not glued together. The text is dated Samsuiluna 28.

NP I-04

Publication: *SMEA* 18 (1977), Plate III Edition: *SMEA* 18 (1977), 106.

Remarks: Fragment of a tablet belonging to the Egyptian Museum, Turin. Transliterated from the

published copy.

NP I-05 BM 080790 (Bu 91-5-9,928)

Remarks: Part of the obverse of a type I tablet. The text follows the same order as LTBA I, 79

(also of unknown provenance): giš-nu; giš-nu; giš-nu; giš-nu. The piece may be from Sippar.

It probably belongs to the same tablet as NP I-06.

NP I-06 BM 16653 (92-5-16, 189)

Remarks: Small fragment of a type I tablet. It probably belongs to the same piece as NP I-05. The

text parallels NP I-02.

Type II Tablets

NP II-01 MLC 01878

Publication: *BRM* IV, 31

Remarks: Upper left corner of a tablet. Both sides giš. Obverse 'Col. II' in BRM IV 31 is the

pupil's copy. The reverse has a giš section followed by a metrological list (še ku₃-

babbar).

NP II-02 Ash. 1932.0526n

Publication: *MSL SS*1, 95 (Plate XVIII)

Remarks: Type II tablet: obverse chairs, reverse metrological. Against the copy, no part of the left

edge is preserved.

Type III Tablets

NP III-01 Ash. 1923.0417

Publication: MSL SS1, 97 (Plate XXI)

NP III-02 LB 1080

Remarks: Almost complete tablet. In the blank space on the reverse detached signs (turned 180

degrees).

NP III-03 NCBT 1891

Remarks: Oblong tablet, largish writing. Handcopy reproduced on p.389.

NP III-04 YBC 06702

Remarks: The reverse is an epigraphic. The exercise ends with a double line. The surface of the

tablet is worn. Wedges inscribed in a sign are hardly visible, or not at all. This holds true for the verticals in U_2 and SA, for the inscribed part of HAR (looks like HI), and

for the inscribed part of ZAR/SUG in line 8. Handcopy reproduced on p.389.

NP III-05 YBC 12048

Remarks: Upper part of an oblong tablet. The reverse is not inscribed. Handcopy reproduced on

p.391.

NP III-06 YBC 06717

Remarks: Oblong tablet, complete. The surface is weathered. The reverse is not inscribed. The

exercise ends with a double line. Handcopy reproduced on p.391.

NP III-07 YBC 01991

Remarks: Oblong tablet, upper and lower parts missing. Both sides are inscribed. Some lines are

almost effaced. Handcopy reproduced on p.393.

Type IV Tablets (Lentils)

NP IV-01 Patterson Museum 13

Publication: *JCS* 8 (1954), p.146

Remarks: Three lines of text, repeated on the reverse. Transliterated from the published copy. The

first two lines are Sumerian, the third line is the Akkadian translation of line 2.

NP IV-02 NBC 1292

Publication: BIN II, 50

Remarks: Six lines of text on the obverse. The reverse is aligned and has some erased signs.

These signs are not compatible with the text on the obverse.

NP IV-03 NBC 1283

Publication: BIN II, 65

Remarks: Fragment with three lines of text, repeated on the reverse. The transliteration is a

compilation of text preserved on obverse and reverse. Under the last line of the reverse

some illegible signs.

NP IV-04 Crozer Theological Seminary 195

Publication: *JCS* 8 (1954), p.146

Remarks: Three lines of text. Republished in M. Sigrist: Documents from Tablet Collections in

Rochester New York, no. 248. Transliterated from published copies.

NP IV-05 NBC 1293

Publication: BIN II, 54

Remarks: Fragment with three lines of text.

NP IV-06 IM 28951

Publication: TIM X/1, 1

Remarks: Three lines of text, repeated in clumsy writing on the reverse. Transliterated from

published copy.

NP IV-07 IM 43864

Publication: TIM X/1, 7

Remarks: Three lines of text. Transliterated from published copy.

NP IV-08 BM 078260 (Bu 88-5-12, 116)

Publication: CT 44, 43

Remarks: Three lines of text, repeated on the reverse. Transliterated from a photograph.

NP IV-09

Publication: *SMEA* 18 (1977), p.106: 4

Remarks: Lentil. The text is part of the collection of the Egyptian Museum, Turin, and was

published by A. Archi in transliteration only. Not collated.

NP IV-10 YBC 08936

Remarks: Three lines of text, repeated on the reverse. Handcopy reproduced on p.393.

NP IV-11 YBC 09907

Remarks: Three lines of text, repeated on the reverse. Obverse has a subscript: ta-ri-ba-tum.

Handcopy reproduced on p.395.

NP IV-12 LB 0998

Remarks: Three lines of text. See *MLVS* III, p.66.

NP IV-13 PB 44

Publication: Freedman 1975 no. 243

Remarks: Three lines of text, repeated on the reverse. Transliterated from the published copy.

NP IV-14 PB 43

Publication: Freedman 1975 no. 244

Remarks: Three lines of text, repeated on the reverse. Transliterated from the published copy.

First line was read $^{\rm gis}$ SIMUG.LU $_{\rm 2}$ by Freedman. Collation is needed.

NP IV-15 NCBT 1918

Remarks: Three lines of text. Obverse giš-nimbar items? Reverse has three lines, turned 90

degrees. First line has scribbles, rest anepigraphic. Handcopy reproduced on p.395.

NP IV-16 NBC 8048

Remarks: Three lines of text, repeated on the reverse (damaged). Handcopy reproduced on p.397.

NP IV-17 NBC 8063

Remarks: Three lines of text; reverse an epigraphic. Handcopy reproduced on p.397.

NP IV-18 AUAM 73 3285

Publication: AUCT 5 (forthcoming), 207

Remarks: Two lines of text repeated on the same side. The text was transliterated from a copy

generously made available by M. Sigrist.

Ni IV-19 AUAM 73 2578

Publication: AUCT 5 (forthcoming), 234

Remarks: Three lines of text. The text was transliterated from a copy generously made available

by M. Sigrist.

5.7.6 Tablets Excluded from the Edition

For reasons explained in §5.1 the texts from Northern Babylonia are not included in this study. A few other texts, whose presence here might have been expected, have been laid aside. Most of these proved to be Middle rather than Old Babylonian.

SLT 143 (CBS 6405) is a typical cushion-shaped Kassite exercise text from Nippur. It duplicates almost exactly the Sumerian column of late ur_5 -ra 3. For this tablet type see §2.5.2.1.

PBS 12/1, 17 (CBS 4598) is an oblong tablet from Nippur, inscribed on both sides with a list of wooden furniture. It is described in §2.5.2.1, and belongs to the Kassite period.

IM 57836 (2N-T75; Falkowitz *AfO* 29/30, p.37) is a Kassite period lentil from Nippur. On one side it has an extract from the section doors (virtually duplicating the passage in ur₅-ra 5), on the other side a literary extract. See §2.5.2.1 for a discussion of Kassite lentils.

LTBA I, 75 (VAT 9617) was published as a giš text. It was recognized in *MSL SS*1, pp.101-102 that the keyword is E_2 rather than giš.

LTBA I, 78 (VAT 6667) is a fragment of a very large tablet of unknown provenance which once contained the whole giš chapter of ur_s-ra. The tradition it contains is very close to the tradition known from Ugarit and Emar. The piece either derives from this region itself or, less likely, represents the Old Babylonian tradition that was transmitted to the west. It should be studied with the western peripheral tradition rather than with the Old Babylonian.

BM 15780A (96-6-12,4a) appears in the Catalogue of the Babylonian Tablets Vol. II as a four-sided lexical prism with giš and na_4 . The prism is almost complete, but its surface is crumbling and in large parts illegible. The section described as 'giš' has tug_2 (including tug_2 -bar-si items) and gada respectively.

In addition to these published texts, a number of unpublished unilingual giš texts came to my attention which, upon consideration, proved to be post-Old Babylonian. They follow the known first millennium text of ur_s -ra more or less closely. Most of these are small, cushion-shaped exercise tablets with a literary extract on the other side, as described in §2.5.2.1. The exception is NBC 10915 which is a small tablet (3x6cm) with three columns on both sides, inscribed with the entire text of ur_s -ra 6 (unilingual).

Museum Number Origin Contents

A 29917 (2N-T005)	Nippur	50 gir ₃ -gub ur ₅ -ra 4: 144-148
NBC 7834	Unknown	7 lines gis ma ₂ and related items, not following the text in ur ₅ -ra 4.
NBC 10915	Unknown	ur₅-ra 6 (entire Sumerian text)
UM 29-13-947	Nippur	duplicates ur _s -ra 7a 128-134 and is edited in §5.3 in the commentary
		to the lines 621-627.
UM 29-15-848	Nippur	ur ₅ -ra 3: 40-44
UM 29-16-383	Nippur	ur_s -ra 3: 85-91; handcopy and edition in §2.5.2.1.

5.7.7 Addenda

The following tablets have come to my knowledge after finishing the edition. All of them are unprovenanced. The three BM pieces are very similar, and most probably come from the same site.

AO 6701	Prof. M. Civil kindly informed me of the existence of this tablet with 9 columns of giš.
BM 30009	Upper half of a type II tablet. The obverse has a list of trees. The teacher's column and two pupil's columns are partly preserved. The reverse has a sign list.
BM 30013	Upper-right part of a type II tablet. The obverse has the beginning of the section U_2 . Two pupil's columns are partly preserved. The reverse has a list of trees.
BM 30018	Upper edge fragment of a type II tablet. The obverse has a list of trees. The teacher's column and one pupil's column are partly preserved. On the reverse some numerical signs are visible. Metrological or mathematical?

Appendices

Appendix 1: The Catalogue of Nippur Lexical Texts: Description

The Catalogue of Nippur Lexical Texts is a database in which Old Babylonian lexical tablets from Nippur have been collected. The database has been used primarily for the analysis of the correlation between the obverse and reverse exercises on type II tablets. These data play a crucial role in the reconstruction of the Nippur curriculum, as discussed in §2.4.

In the Catalogue of Nippur Lexical Tablets each tablet receives a short description, including joins, publication, edition, period, and excavation number. In addition, for each tablet there are three numerical variables: obverse, reverse, and type. All compositions used in the first phase of Nippur education (lexical texts, mathematical and metrological lists, model contracts, proverbs) are identified by a numerical code. For instance, the six tablets of the Old Babylonian version of Nippur ur₅-ra are coded 131-136. The variable 'type' is used to distinguish between the 5 main types of Nippur lexical tablets (types I, II, III, IV, and prism respectively). A type II tablet with a list of stones on the obverse (Nippur ur₅-ra division 4) and on the reverse a list of wooden objects (division 1) receives the following codes:

OBVERSE 134 REVERSE 131 TYPE 2

Though the database was devised originally for type II tablets, lexical tablets of other types have now been entered as well.

The database grew out of an extract from the computerized catalogue of the cuneiform tablets in the University Museum in Philadelphia, generously made available by Steve Tinney. The extract contained all tablets which were indicated as 'lexical' in the Philadelphia database. For published tablets this database may be regarded as a digital version of the catalogue published by Gerardi (1984). For unpublished tablets the database mainly contains very old information, deriving from the original handwritten catalogue. However, additions and corrections by various scholars have been included. The reliability of the data is therefore difficult to assess. Moreover, being a museum catalogue the original database did not contain information on Nippur tablets in other collections.

The extract from the Philadelphia database was reformatted to include the encoded information as explained above. Moreover, the data were improved and augmented from various sources and in various ways. It is a pleasure to be able to acknowledge here my gratitude to those scholars who have contributed their private unpublished collections of data. Data have been entered and/or corrected from the following sources:

- Tablet descriptions in *MSL* 5-14, *PBS* 11, and *SLT*. The amount of information about the tablets used in the various volumes of *MSL* is not uniform. In some volumes (e.g. 6, 8/1, and 9) only the tablet numbers are indicated, and no information is given about tablet type or about other compositions found on the same piece. In volumes 13 and 14 all

relevant information is included.

- Tablet descriptions in the hypertext version of *MSL* 15 (Proto-Diri). This program was generously made available by M. Civil.
- Tablet catalogue of the proverb collections, generously made available by B. Alster. From this catalogue only the type II tablets have been entered systematically. The catalogue will be published in Alster's forthcoming edition of the proverbs.
- Catalogue of lexical tablets in Jena. This hand-written catalogue was generously made available by J. Oelsner.
- Catalogue of lentils (type IV tablets) by R. Falkowitz (1984).
- Autopsy of tablets in Philadelphia. During a three-month stay in Philadelphia a systematic search for type II tablets resulted in many improvements and additions to published tablet descriptions. Two categories of type II tablets were not systematically included: tablets with Syllable Alphabet B on both sides, and tablets of which only one side has been preserved. Both groups are particularly numerous and add little or nothing that is relevant for the curricular analysis. Permission to search the collection and to use these data for the present purposes was kindly given by the curator Prof. Å. Sjöberg.
- Autopsy of tablets in Jena. A two-week stay in Jena was used first of all for an inspection of the giš tablets. Further, a small number of other lexical tablets was inspected. Permission to inspect the tablets and use the data was kindly given by the curator of the Jena collection Prof. J. Oelsner.
- Autopsy of tablets and casts in Chicago. The Oriental Institute houses a complete collection of Nippur tablets from post-World War II campaigns, either in original or in cast. During a one-week stay in Chicago the giš tablets from this collection were examined. A limited search for type II tablets was also made. The search was restricted to those tablets of which both sides had been identified in the 2 N-T and 3 N-T catalogues. The permission to search the Chicago collection was kindly given by the curator Prof. J.A. Brinkman.
- A collection of photographs in the University Museum, Philadelphia. This collection includes photographs from various museums all over the world. The permission to inspect these photographs was kindly given by Prof. Å. Sjöberg.

In addition to the sources mentioned above, relevant information has been collected from a wide range of scattered publications. Not systematically included is the tablet catalogue in the edition of the elementary exercises Syllable Alphabet B and TU-TA-TI in Çi_, Kizilyay, and Landsberger 1959. The tablet descriptions do not always allow the tablet type to be ascertained. Moreover, the identification of obverse and reverse does not seem to be reliable. According to the catalogue, Ni 5152 has the same exercise repeated in three columns on the reverse (Çi_, Kizilyay, and Landsberger 1959, p.51). This, of course, is the obverse with a teacher's model and two pupil's copies.

From the above a few conclusions may be drawn concerning the reliability of the data as used for this study. First, the sources of information have a considerable overlap. A Philadelphia tablet with proverbs on one side and Proto-Ea on the other appears in *MSL* 14, in Alster's Proverb catalogue, and in my own collection of data based on autopsy. This overlap provides a double or triple check and raises the reliability of the data. Second, the data collection is not complete. Particularly incompletely represented are the tablets from the post-World War II campaigns, and those from the Istanbul collection. In the third place the quality of the data partly depends on the quality of the edition of a composition. Thus, in Civil's edition of Proto-Ea in *MSL* 14 we find authoritative information on tablet types, and on the combination of Proto-Ea with other school texts on type II tablets¹. The model contracts, on the other hand, have not been published or edited in a systematic way. The evidence on these texts, therefore, is less systematically collected and less reliable.

For the usefulness of the catalogue, this has the following consequences. The catalogue cannot be used, or only with due reservations, for comparisons between compositions. The number of tablets included for a single composition depends on many factors and may not be a valid indicator of the relative frequency of that composition on school tablets or its distribution over tablet types. The catalogue may be used for the analysis of obverse/reverse correlations in type II tablets. For this analysis the differences in coverage between the compositions are less important, as long as each composition is represented by a sufficient number of examples. The database contains examples of all school compositions which are frequently found on type II tablets. The systematic search for type II tablets in the Philadelphia collection guarantees the exclusion of systematic errors that might arise from the state of publication of a composition, or the degree of interest that Assyriology has shown in it. Numerous additional identifications could be made, and there is no reason to assume that any composition of importance has been omitted. The analysis in Chapter 2 has attributed a relative place in the Nippur curriculum to each composition. The reliability of each attribution depends on the number of tablets included for the composition and the reliability of the data concerning the tablets on which the composition is found. Improvements to the analysis and its results are to be expected for those compositions which are poorly represented (such as the Nippur God list) or for which the data available are poor in quality (particularly the lists of names).

The catalogue now contains 2418 tablets, distributed as follows over tablet types:

It should be remembered, however, that Proto-Ea texts without glosses were omitted from the edition (MSL 14, p.17).

TYPE

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
Type I Type II Type III Type IV Prism or Cylinder	1 2 3 4 5	211 1517 92 102 70 426	8.7 62.7 3.8 4.2 2.9 17.6	10.6 76.2 4.6 5.1 3.5 Missing	10.6 86.7 91.4 96.5 100.0
	Total	2418	100.0	100.0	
Valid cases 1992	Missing ca	ases 426			

The category 'Missing cases' includes both tiny fragments, of which the type can no longer be ascertained, and tablets for which no complete or no reliable description is available and which have not been checked by autopsy. It should be noted that type II tablets have been entered more systematically than the other tablet types. Of the 1517 type II tablets entered in the catalogue, in 887 cases, almost 60% (58.5%), both obverse and reverse could be identified. These are the tablets used for the analysis in §2.4.

Appendix 2: Concordances

Concordance 1: Museum number - Siglum

2N-T005	see A 29917
2N-T075	see IM 57836
2N-T207	see UM 55-21-043
2N-T209	see UM 55-21-044
2N-T257	see UM 55-21-054
2N-T258	see UM 55-21-055
2N-T382	see A 29979+
2N-T384	see A 29979
2N-T459	Ni IV-11
2N-T730	see IM 58046
3N-T160	see A 30170
3N-T231	see A 30182
3N-T239	see IM 58397
3N-T240	see IM 58398
3N-T241	see IM 58399
3N-T259	see A 30187
3N-T354	see UM 55-21-314
3N-T595	see A 30274
3N-T629	see UM 55-21-361
3N-T655	see IM 58599
3N-T691	see IM 58624
3N-T692	see IM 58624
3N-T693	see IM 58626
3N-T697	see IM 58620
3N-T809	see IM 58030
3N-T905,211	Ni P-02
3N-T906,236	Ni II-159
3N-T909a	see UM 55-21-314+
3N-T909c	Ni II-259
3N-T909e	Ni II-258
3N-T909h	see UM 55-21-387
3N-T910e	(see §5.7.1.7)
3N-T911r	see UM 55-21-409
3N-T911t	Ni II-160
3N-T911u	Ni U-25
3N-T911v	Ni II-149
3N-T914cc	Ni II-260
3N-T920ff	Ni II-263
3N-T920s	Ni II-262
3N-T921jj	Ni II-261
3N-T9220	Ni II-257
3N-T922z	Ni II-256
12N-516	Ni U-26
12N-562	
	Ni II-264
12N-568	(see §5.7.1.7)
A 20070 (2N-T005)	(see §5.7.6)
A 29979 (2N-T384) + IM 57976 (2N-T382) A 30170 (3N-T160)	Ni II-155 Ni IV-13
` '	
A 30182 (3N-T231)	Ni IV-20

1. 2010E (2) E2E)	N. D. O.
A 30187 (3N-T259)	Ni P-06
A 30274 (3N-T595)	Ni II-148
AO 6701	(see §5.7.7)
Ash. 1923.0402	NP P-02
Ash. 1923.0417	NP III-01
Ash. 1924.1776	see Ash. 1924.563
Ash. 1932.0526n	NP II-02
AUAM 73 2578	NP IV-19
AUAM 73 3285	NP IV-18
BM 015780A (96-6-12, 4A)	(see §5.7.6)
BM 016653 (92-5-16, 189)	NP I-06
BM 030009	(see §5.7.7)
BM 030013	(see §5.7.7)
BM 030018	(see §5.7.7)
BM 078260 (Bu 88-5-12, 116)	NP IV-08
BM 080790 (Bu 91-5-9,928)	NP I-05
BM 113910 (= UR 1918-10-12, 458)	Ur IV-01
BM 113911 (= UR 1918-10-12, 459)	Ur IV-02
CBS 02235	Ni II-265
CBS 02260	Ni II-020
CBS 02263	Ni II-217
CBS 02264	Ni II-098
CBS 03825 + CBS 04847	Ni II-064
CBS 03849	Ni II-052
CBS 03853	Ni U-06
CBS 03857	Ni II-024
CBS 03875	Ni II-151
CBS 03935	Ni II-025
CBS 03944	Ni U-13
CBS 04598	(see §5.7.6)
CBS 04800	Ni II-266
CBS 04801 + CBS 04802	Ni II-026
CBS 04802	see CBS 04801
CBS 04804 (+) CBS 19811	(see §5.7.1.7)
CBS 04806	Ni II-027
CBS 04807	Ni II-028
CBS 04811	Ni II-029
CBS 04812 + CBS 06533 + CBS 06755	Ni II-157
CBS 04815	Ni II-243
CBS 04820	Ni II-030
CBS 04823	Ni II-267
CBS 04824	Ni II-031
CBS 04825	Ni II-032
CBS 04827	Ni II-033
CBS 04829	Ni II-034
CBS 04830	Ni II-035
CBS 04832	Ni II-036
CBS 04833	Ni II-038
CBS 04837	Ni II-037
CBS 04838	Ni II-039
CBS 04839	Ni II-040
CBS 04847	see CBS 03825
CBS 04853	Ni II-184
CBS 04854	Ni II-045
CBS 04855	Ni U-01

CBS 04856	Ni II-046
CBS 04864	Ni IV-01
CBS 04865	Ni II-047
CBS 04866	Ni II-001
CBS 04869	Ni IV-02
CBS 04876	Ni II-182
CBS 04877	Ni II-135
CBS 05811 + CBS 05839 + N 6971	Ni II-117
CBS 05839	see CBS 05811
CBS 05865	Ni II-071
CBS 05887	Ni II-185
CBS 05905 + CBS 06372	Ni II-099
CBS 05931 + CBS 06589 + CBS 07204 + CBS 08468	Ni I-10
CBS 05939	Ni II-010
CBS 05944	Ni II-050
CBS 05985	Ni II-051
CBS 06003 + CBS 06369	Ni U-15
CBS 06068	Ni I-01
CBS 06098 + N 3960 + N 5128	Ni II-053
CBS 06117	Ni II-054
CBS 06119	Ni II-136
CBS 06138	Ni III-04
CBS 06369	see CBS 06003
CBS 06370	Ni II-055
CBS 06372	see CBS 05905
CBS 06386	Ni II-096
CBS 06390	Ni II-268
CBS 06399	Ni U-03
CBS 06403	Ni II-057
CBS 06405	
	(see §5.7.6)
CBS 06407	Ni II-058
CBS 06409	Ni II-059
CBS 06411	Ni II-007
CBS 06412	Ni II-056
CBS 06416	Ni II-008
CBS 06419	Ni II-060
CBS 06424	Ni II-009
CBS 06426	Ni II-061
CBS 06433	Ni U-16
CBS 06455	Ni II-062
CBS 06458	(see §5.7.1.7)
CBS 06459	Ni II-104
CBS 06465	Ni III-01
CBS 06466	Ni II-187
CBS 06468	Ni II-063
CBS 06476	Ni II-012
CBS 06496	Ni II-048
CBS 06514	Ni II-210
CBS 06515	Ni II-006
CBS 06517	Ni IV-15
CBS 06518	Ni II-065
CBS 06521	Ni II-132
CBS 06531	Ni II-066
CBS 06532	(see §5.7.1.7)
CBS 06533	see CBS 04812

CBS 06536A	Ni U-23
CBS 06540	Ni III-02
CBS 06542	Ni II-067
CBS 06546	Ni II-068
CBS 06547	Ni II-069
CBS 06548	Ni II-188
CBS 06549	Ni II-072
CBS 06552	Ni II-021
CBS 06554	Ni II-073
CBS 06556	Ni II-003
CBS 06557	Ni II-272
CBS 06558	Ni II-269
CBS 06572	(see §5.7.1.7)
CBS 06573	Ni II-181
CBS 06574	Ni II-130
CBS 06576	Ni II-131
CBS 06578	Ni II-270
CBS 06581	(see §5.7.1.7)
CBS 06584	Ni II-158
CBS 06585	Ni U-04
CBS 06586	(see §5.7.1.7)
CBS 06587	Ni II-074
CBS 06589	see CBS 05931
CBS 06590	Ni II-145
CBS 06592	(see §5.7.1.7)
CBS 06593	Ni II-014
CBS 06594	Ni II-017
CBS 06598	Ni II-183
CBS 06599 + HS 1616 + HS 1844	Ni II-137
CBS 06600	Ni II-011
CBS 06659	Ni II-122
CBS 06660	Ni II-079
CBS 06674	Ni II-121
CBS 06682	Ni II-097
CBS 06686	Ni II-245
CBS 06736	Ni II-120
CBS 06755	see CBS 04812
CBS 06808A	Ni II-271
CBS 06854	Ni II-070
CBS 06945	Ni II-248
CBS 06974	Ni II-023
CBS 07139 + CBS 07152 + N 0330	Ni II-154
CBS 07152	see CBS 07139
CBS 07153	Ni II-129
CBS 07204	see CBS 05931
CBS 07872	Ni IV-17
CBS 07904 + N 5220	Ni II-275
CBS 07935	Ni II-249
CBS 07970	Ni IV-25
CBS 07998	Ni U-02
CBS 08028	(see §5.7.1.7)
CBS 08062	Ni U-10
CBS 08063	Ni II-005
CBS 08164	Ni II-128
CBS 08269	Ni U-07
020 00207	1.100/

CBS 08298	Ni II-156
CBS 08468	see CBS 05931
CBS 08470	Ni II-246
CBS 09847 (+) CBS 12516	Ni II-015
CBS 10071	Ni U-28
CBS 10164	Ni U-09
CBS 10101 CBS 10192	Ni U-29
CBS 10192 CBS 10212	Ni II-190
CBS 10259	Ni II-223
CBS 10344	Ni II-221
CBS 10507	Ni IV-03
CBS 10767	Ni U-18
CBS 10778	Ni II-254
CBS 10784	Ni IV-18
CBS 10793	Ni II-109
CBS 11322	Ni II-110
CBS 11342 + 12714	Ni II-002
CBS 12486	Ni P-04
CBS 12511	Ni II-153
CBS 12515	Ni II-018
CBS 12516	see CBS 09847
CBS 12652	Ni II-106
CBS 12655	Ni II-274
CBS 12666	Ni II-019
CBS 12000 CBS 12705	Ni II-019 Ni II-105
CBS 12706	Ni II-103
CBS 12707	Ni II-102
CBS 12714	see CBS 11342
CBS 12748	Ni II-150
CBS 12754	Ni II-004
CBS 13519	Ni II-042
CBS 13520	Ni II-201
CBS 13522	Ni U-11
CBS 13524	(see §5.7.1.7)
CBS 13525 + CBS 13527 + CBS 13528 + CBS 13570 + CBS 13621A	Ni II-095
CBS 13527	see CBS 13525
CBS 13528	see CBS 13525
CBS 13568 +	Ni II-013
CBS 13570	see CBS 13525
CBS 13575	see CBS 13568
CBS 13576	see CBS 13568
CBS 13576 CBS 13583	see CBS 13568
CBS 13588	see CBS 13568
	see CBS 13568
CBS 13592	
CBS 13596	see CBS 13568
CBS 13601	see CBS 13568
CBS 13611	Ni II-219
CBS 13614	see CBS 13568
CBS 13619	Ni II-279
CBS 13621	Ni II-189
CBS 13621A	see CBS 13525
CBS 14143	Ni II-127
CBS 14156	Ni II-085
CBS 14157	Ni II-143
CBS 15081	Ni II-084

CBS 15366	Ni II-080
CBS 15418	Ni II-220
CBS 19753	Ni II-118
CBS 19803	Ni II-116
CBS 19811	see CBS 4804
Crozer Theol. Sem. 195	NP IV-04
HS 1616	
	see CBS 06599
HS 1629 + HS 1834	Ni II-162
HS 1631	Ni II-163
HS 1646	Ni II-164
HS 1647	Ni II-165
HS 1657	Ni II-166
HS 1662	Ni IV-23
HS 1665	Ni II-167
HS 1699	Ni II-168
HS 1701	Ni II-169
HS 1734	Ni II-170
HS 1744	Ni II-172
	Ni II-172 Ni II-173
HS 1745 + HS 1797 + HS 2630 + HS 2902	
HS 1797	see HS 1745
HS 1798	Ni II-171
HS 1806	Ni II-174
HS 1823	see N 1361
HS 1827	Ni II-176
HS 1834	see HS 1629
HS 1841	Ni II-177
HS 1844	see CBS 06599
HS 2630	see HS 1745
HS 2860	Ni II-178
HS 2902	see HS 1745
IB 1495	Is IV-03
IB 1512c + IB 1516 + IB 1550 + IB 1561 + IB 1563	Is I-03
IB 1516	see IB 1512c
IB 1535 + IB 1606	Is I-01
IB 1547	Is I-02
IB 1550	see IB 1512c
IB 1561	see IB 1512c
IB 1563	see IB 1512c
IB 1566	Is U-01
IB 1606	see IB 1535
IB 1613	Is IV-04
IB 1614	Is IV-05
IB 1618	Is IV-06
IB 1619	Is IV-07
IB 1620	Is IV-02
IB 1701	Is IV-01
IM 28951	NP IV-06
IM 43864	NP IV-07
IM 57836	(see §5.7.6)
IM 57976	see A 29979
IM 58046 (2N-T730)	Ni IV-12
IM 58397 (3N-T239)	Ni IV-21
IM 58398 (3N-T240)	Ni IV-14
IM 58399 (3N-T241)	Ni IV-22
IM 58599 (3N-T655)	Ni P-05

TO 5 TO 10 1 (0) 7 TO 10 1	
IM 58624 (3N-T691)	Ni II-022
IM 58626 (3N-T693)	Ni II-147
IM 58630 (3N-T697)	Ni II-108
IM 58631 (3N-T698)	(see §5.7.1.7)
IM 58729 (3N-T809)	Ni U-24
KM 89542	NP P-01
LB 0998	NP IV-12
LB 1080	NP III-02
MLC 01454 + MLC 01455	NP I-03
MLC 01455	see MLC 01454
MLC 01433 MLC 01878	NP II-01
N 0330	see CBS 07139
N 0673	Ni II-161
N 1361 +	Ni I-08
N 1465 + N 1500 (+) N 6125	Ni I-02
N 1479	Ni U-17
N 1500	see N 1465
N 1540	Ni II-086
N 1564	Ni II-281
N 2210 + N 6202 + HS 1845	Ni II-175
N 3359	Ni II-282
N 3435	Ni II-204
N 3960	see CBS 06098
N 4039	Ni II-100
N 4062	Ni II-218
N 4067	Ni II-283
N 4098	see N 1361
N 4557	Ni II-230
N 4597	Ni II-214
N 4624	Ni II-284
N 4634	Ni II-216
N 4640	Ni I-07
N 4642	Ni II-134
N 4660	Ni II-286
N 4683	Ni II-215
N 4704	(see §5.7.1.7)
N 4728	Ni U-21
N 4779	Ni II-234
N 4787	Ni II-228
N 4836	Ni II-287
N 4880	Ni II-288
N 4885	Ni II-285
N 4917	Ni II-078
N 4947	Ni I-11
N 4953	Ni II-041
N 4973 + N 4984	Ni II-222
N 4977	Ni II-213
N 4978	(see §5.7.1.7)
N 4981	Ni II-227
N 4983	Ni I-03
N 4984	see N 4973
N 4990	Ni II-253
N 5019	Ni II-229
N 5020	(see §5.7.1.7)
N 5039 + N 5059	Ni II-208
11 3037 11 3037	141 11-200

N 5059	see N 5039
N 5063	Ni IV-05
N 5108	Ni U-12
N 5126	Ni II-209
N 5128	see CBS 06098
N 5133	Ni II-043
N 5134	see N 1361
N 5140 (+) N 6015	Ni II-211
N 5143	Ni II-089
N 5147	handcopy in §2.4.1.1
N 5186	Ni II-206
N 5196	Ni II-111
N 5201	Ni II-152
N 5220	see CBS 07904
N 5223	Ni I-06
N 5229	Ni U-05
N 5246	Ni II-101
N 5260	Ni P-03
N 5276	Ni II-077
N 5283	Ni U-14
N 5342	Ni II-231
N 5346 + N 5726	Ni II-076
N 5353	Ni U-19
N 5365	Ni II-289
N 5367	Ni U-22
N 5370	Ni II-112
N 5396	Ni II-144
N 5399	Ni IV-06
N 5405	see N 1361
N 5452	Ni II-203
N 5456	Ni II-044
N 5502	Ni II-124
N 5523	Ni II-235
N 5527	Ni IV-24
N 5552	Ni II-207
N 5564	Ni II-237
N 5568	Ni II-290
N 5589	Ni I-04
N 5598	Ni II-291
N 5614	Ni II-226
N 5648	Ni II-292
N 5703 (+) N 5705	Ni II-088
N 5705	see N 5703
N 5706	Ni II-107
N 5720	Ni II-092
N 5726	see N 5346
N 5735	Ni II-090
N 5736	Ni II-276
N 5782	Ni II-146
N 5792	Ni II-133
N 5819	Ni II-083
N 5836	Ni II-225
N 5846	see N 5782
N 5847	Ni II-081
N 5880	Ni II-091

N 5881	Ni I-09
N 5903	Ni II-114
N 5907	see N 1361
N 5912	see N 1361
N 5923	Ni IV-19
N 5929	(see §5.7.1.7)
N 5933	Ni IV-07
N 5936	Ni II-250
N 5957	see N 1361
N 5960	Ni II-251
N 5973	Ni II-180
N 5978	Ni II-094
N 6006	Ni II-191
N 6011	see N 1361
N 6015	see N 5140
N 6035	see N 1361
N 6053	see N 1361
N 6073	Ni II-113
N 6087	see N 1361
N 6089	see N 1361
N 6096	(see §5.7.1.7)
N 6101	Ni II-200
N 6104	Ni II-087
N 6106	Ni II-186
N 6108	Ni II-123
N 6111	Ni II-197
N 6121	Ni II-082
N 6125	see N 1465
N 6140	Ni II-255
N 6148	Ni II-198
N 6157	Ni II-202
N 6158	Ni II-139
N 6159	Ni II-199
N 6171	Ni II-273
N 6201	Ni II-252
N 6202	see N 2210
N 6207	Ni I-12
N 6242	Ni II-242
N 6257	Ni II-093
N 6475	Ni U-27
N 6578	(see §5.7.1.7)
N 6766 + N 6960	Ni P-01
N 6800	Ni II-115
N 6960	see N 6766
N 6970	Ni U-08
N 6971	see CBS 05811
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NBC 01292	NP IV-02
NBC 01293	NP IV-05
NBC 07834	(see §5.7.6)
NBC 08048	NP IV-16
NBC 08063	NP IV-17
NBC 10951	(see §5.7.6)
NCBT 1891	NP III-03
NCBT 1918	NP IV-15

Ni 01103	(see §5.7.1.7)
Ni 01829	Ni IV-26
Ni 01865	Ni II-016
Ni 03275	(see §5.7.1.7)
Ni 03615	Ni II-196
Ni 03818	Ni II-195
Ni 04615	Ni II-194
Ni 04776	(see §5.7.1.7)
	· - /
Ni 04931	Ni II-193
Ni 05055	(see §5.7.1.7)
Ni 05256	Ni II-192
Ni 10003	Ni II-244
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PB 44	NP IV-13
Patterson Museum 13	NP IV-01
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UM 29-13-075	Ni II-141
UM 29-13-076	(see §5.7.1.7)
UM 29-13-163	Ni III-03
UM 29-13-947	(see §5.7.6)
UM 29-13-947 UM 29-13-999	Ni II-212
UM 29-15-022	Ni II-232
UM 29-15-314 + UM 29-15-320	Ni II-140
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UM 29-15-977	Ni II-278
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UM 29-16-056	Ni II-138
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UM 29-16-402	Ni III-05
UM 29-16-469	Ni IV-04
UM 29-16-539	Ni II-280
UM 29-16-554	Ni II-233
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UM 29-16-584	Ni II-179
UM 29-16-586	Ni II-049
UM 29-16-604	Ni U-20
UM 29-16-646	Ni II-205
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UM 55-21-387 (3N-T909h)	Ni II-224
UM 55-21-409 (3N-T911r)	Ni II-126
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SLT 119	Ni II-004
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SLT 137	Ni II-156
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SLT 139	Ni II-064
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SLT 141	Ni II-110
SLT 142	Ni U-09
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SLT 155	Ni IV-15
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SLT 159	Ni I-10
SLT 160	Ni II-099
SLT 161	Ni II-069
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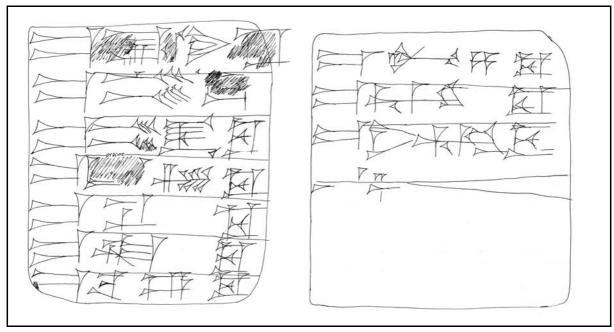
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Plates

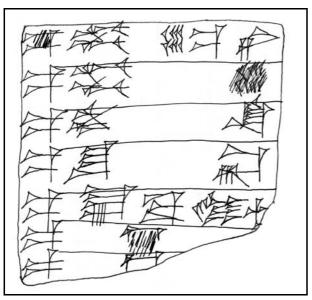
In the following plates a few of the texts edited in this volume are presented in handcopy. In accordance with the policy of the Yale Babylonian Collection this includes the relevant texts in their possession. The Nippur texts, the main body of data on which this study rests, have not been copied systematically. The added value of copies over transliterations is minimal in the case of a composition with so many duplicates. For a first impression of what the Nippur material looks like, a few tablets have been copied and included as illustrations in §2.3.3. E. Chiera's *Sumerian Lexical Texts* (Chicago 1929) provides countless additional examples. For a more thorough investigation no copy can take the place of the original.



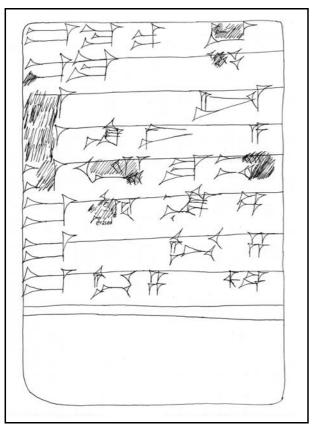
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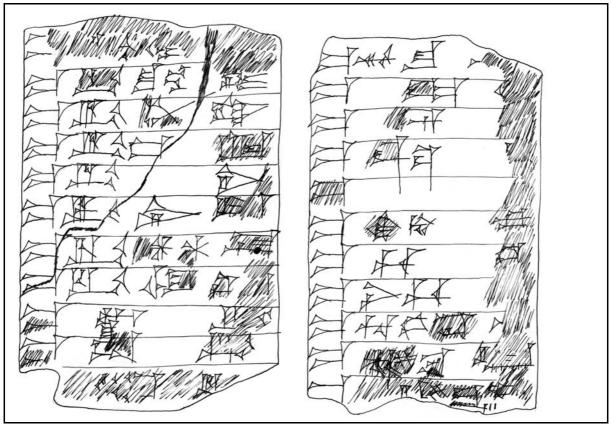
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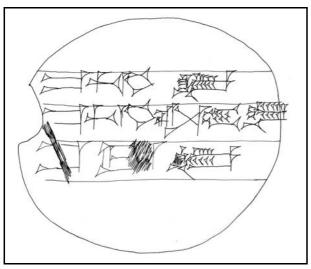
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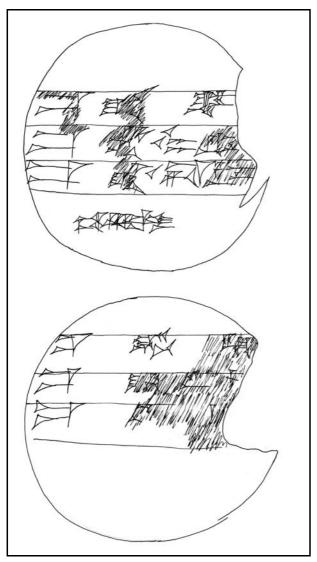
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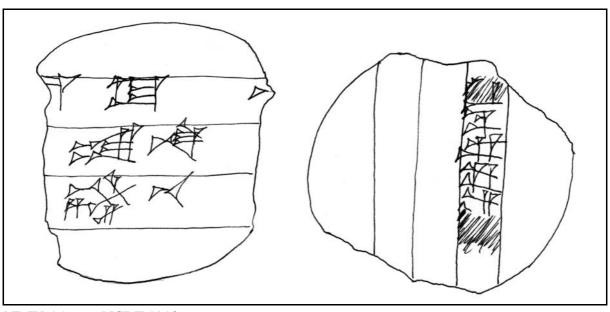
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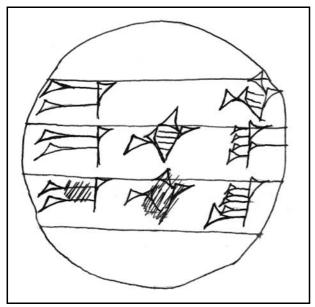
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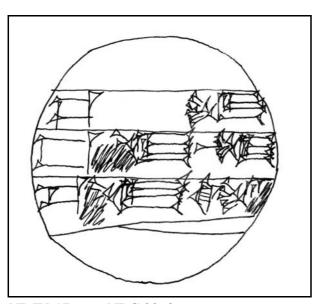
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