Advances in the study of Siouan languages and linguistics

Edited by

Catherine Rudin

Bryan J. Gordon



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To Bob, whose knowledge was matched only by his generosity.	

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Preface

This volume presents a group of papers representing a range of current work on Siouan¹ languages, in memory of our colleague Robert L. Rankin, a towering figure in Siouan linguistics throughout his long career, who passed away in February of 2014.

Beyond honoring a beloved colleague, our aim in this volume is to bring a variety of issues in Siouan linguistics to the attention of the linguistic community. The Siouan language family is a large and important one, with branches geographically distributed over a broad swath of the North American plains and parts of the southeastern United States. This puts it in contact historically with several other families of languages: Algonquian, Iroquoian, Caddoan, Uto-Aztecan, and Muskogean. Siouan languages are, or were historically, spoken by the members of at least 25 ethnic/political groups. One Siouan language, Lakota, is among the handful of indigenous North American languages with younger speakers today. Siouan languages have occasionally risen to prominence in general linguistics, for instance in the study of reduplication (Shaw1980); and Omaha and Crow (Apsaalooke) have lent their names to two of the basic categories of kinship systems in anthropology. Nonetheless, the Siouan family has been underrepresented in the descriptive and typological literature, and most of the languages in the family are severely understudied. The majority of work on Siouan languages is unpublished, existing only in the form of conference papers or manuscripts.² This volume is a step toward making information on Siouan languages more broadly available and encouraging deeper investigation of the myriad issues they raise.

From the perspective of linguistic typology, Siouan languages have many notable features. Many of these features stand to challenge typological generalizations. Here we briefly sketch a few of the most characteristic features of the Siouan family.

¹ "Siouan" is not to be confused with "Sioux", a controversial term referring to Lakota and Dakota people, rarely to Nakota/Nakoda people too, but never correctly to people of other traditionally Siouan-language-speaking communities.

² Many of these unpublished works are collected in the electronic Siouan Archive, maintained by John Boyle at the University of California at Riverside.

All Siouan languages possess a rich variety of applicative affixes, confirming Polinsky2013's (Polinsky2013) observation that applicatives are common in North America and adding another language family to her list of applicative-rich families in the area. Helmbrecht2006a divides the applicatives into three templatic slots: locative applicatives, benefactive applicatives, and applicative markers; all of the Siouan languages sampled by Helmbrecht possess at least two applicative morphemes.

All Siouan languages are strongly head-final, and the consensus among syntacticians working with Siouan languages is that all but the supraclausal projections (and even some of these) are underlyingly head-final in Siouan languages, contra **Kayne1994**'s (**Kayne1994**) Antisymmetry theory.

All Siouan languages have head-internal relative clauses. A series of strong claims regarding the typological implications of head-internal relative clauses (cf. Cole1987; Murasugi2000), including purported distinctions between "Japanese-type" and "Lakota-type" constructions (cf. Watanabe2004; Williamson1987; Bonneau1992), propelled Lakota into the debates of theoretical syntax. It has been pointed out that head-internal relative clauses of the kind found in Lakota and other Siouan languages lack the island restrictions found in other languages. On the other hand, Murasugi2000 argues that languages with head-internal relative clauses must also have head-external relative clauses, which is not true in Siouan languages.

All Siouan languages have verbal affixes which index subject possession of or relationship with the object. They vary with respect to contexts of obligatoriness of these affixes.

Many Siouan languages have grammaticalized systems of speaker-gender marking, with gender-specific morphology for speech-act markers, address terms, and kinship lexemes.³ Such usage varies depending on stuational factors, however, especially in the case of speech-act markers; see for instance **Trechter1995**

Many Siouan languages have a modal CCV morpheme shape. This does not necessarily imply a preference for CCV phonetic realizations, but may indicate such a preference in the distant past. Another unusual prosodic feature is the preference for second-syllable stress in most Siouan languages. Ho-Chunk may be the only attested language with default third-syllable stress in the world.

Most Siouan languages have ejective stops. The Dhegiha branch is notable for a four-way glottal-state distinction in its stop series (voiced/lenis, tense/preaspirated, ejective and aspirated). Outside of the Dhegiha branch are many Siouan

³ In the case of kinship terms, lexical choice is driven by the gender of the "ego" deictic center, which coincides with speaker gender when there is 1st-person inflection.

languages which have the unusual feature of a phonemic voicing distinction in fricatives but not in stops.

Verbs play some typologically unusual, prominent roles in Siouan languages. Diachronically, many grammatical items which rarely grammaticalize from verbs in other languages tend to derive from verbs in Siouan languages. For instance, **Rankin1977** documents the derivation of classifiers and articles from verbs. In some Siouan languages, the source verbs and target grammatical items continue to exist in parallel with substantial semantic overlap. The Omaha positional article t^ho^n 'obviative animate specific standing', for instance, is homophonous with the root of $\hat{a}t^ho^n$ 'stand on'.

This diachronic tendency is mirrored by synchronic flexibility. Siouan languages tend to verb freely — to use nearly any open-class stem as a verb. Thus Lakota *wimačhaša* 'I am a man' is derived from the nominal stem *wičhaša* 'man/person' with the 1st-person stative pronominal ma-.

Dhegiha articles (which have many features in common with positional classifiers in e.g. Mayan languages; see Gordon2009) are homophonous with postverbal and postclausal functional items like subordinating conjunctions and aspect and evidentiality markers. They have considerable semantic overlap with them too, a fact which comprises another area of blurriness between nominal and verbal syntax: In Ponca, *niáshiⁿga-ama* may mean 'the [proximate animate plural specific] people', but also may mean either 'they are people' or 'I am told s/he was a person'. Plurality is a part of the semantics of -ama in both the nominal and the first clausal interpretation. To make matters more interesting, these kinds of ambiguity are not always easily resolved by context alone, and may suggest a "simultaneity" (cf. Woolard1998) at work as part of speakers' competence.

This flexibility, that is, the ability of one and the same root to function in both nominal and verbal contexts, has led to some discussion on the status and quality of the noun/verb distinction in Siouan languages (see e.g. Helmbrecht2002 and Ingham2001).

Nominal arguments in general are not required in Siouan languages, thematic relations being signaled by pronominal or agreement markers within the verb — including zero markers. This makes Siouan languages relevant to debates about the existence of "pronominal argument" languages (Jelinek1984) and to the related issues of whether there are languages with truly nonconfigurational or flat structure. The preponderance of evidence in Siouan is for the existence of hierarchical structure, specifically including a VP (for instance, West2003; Johnson2016; JohnsonEtAl2016; Rosen2016).

Although Siouan languages have many remarkable features in common, they

vary on many others. Some Siouan languages have noun incorporation, while others do not. Some Siouan languages have stress-accent systems, and others have pitch-accent systems. Dhegiha languages are notable in having as many as eleven definite/specific articles indexing features such as animacy, proximacy/obviation (or case), posture/position, number, visibility, motion and dispersion; meanwhile other Siouan languages have no fully grammaticalized articles at all.

Some Siouan languages reflect longtime cultural presence on the Plains, while others are located as far east as the Atlantic Coast, and many more show cultural aspects of both regions. Dhegiha-speaking peoples (Quapaw, Osage, Kaw, Omaha and Ponca, and likely Michigamea as well (Kasak2016; Koontz1995a) likely lived at the metropolis at Cahokia, perhaps at a time before any of the descendant groups had separated, and have many Eastern Woodlands-style features of traditional governance and religion, in sharp contrast with the more Plains-typical cultural features of close Lakota and Dakota neighbors and relatives.

One seemingly minor but in fact quite significant issue in Siouan linguistics is the matter of language names and their spelling. Often this involves a self-designation in competition with a name imposed by outsiders. Even when an autonym gains currency among linguists there is sometimes no agreed spelling; so for instance the Otoe self-designation is written Jiwere or Chiwere. For the most part in this volume the choice of language designations has been left to the individual chapter authors. However, after a volume reviewer pointed out that the language of the Ho-Chunk or Winnebago people was spelled no less than ten different ways in various chapters, we encouraged authors to choose one of the two spellings used on the tribe's web site: Ho-Chunk or Hoocak. Most have voluntarily complied. In a related move, we decided to retranscribe all Lakota data throughout the volume using the now-standard orthography of the *New Lakota Dictionary* (Ullrich2012).

The volume is divided into four broad areas (Historical, Applied, Formal/Analytical, and Comparative/Cross-Siouan) described in more detail in separate introductions to each part of the volume. Part I consists of five chapters on historical themes: Ryan Kasak evaluates the evidence for a relationship between Yuchi and Siouan; David Kaufman discusses the participation of some Siouan languages in a Southeastern sprachbund; Rory Larson summarizes current knowledge of Siouan sound changes; and Kathleen Danker and Anthony Grant investigate early attempts to write Ho-Chunk, Kanza, and Osage. Part II opens with Linda Cumberland's interview with Robert Rankin about his work with Kaw language programs. Jimm Goodtracks, Saul Schwartz, and Bryan Gordon present three different perspectives on Baxoje-Jiwere language retention. Justin McBride ap-

plies formal syntax to the solution of a pedagogical problem in teaching Kaw. This applied-linguistics section ends with Jill Greer's sketch grammar of Baxoje-Jiwere. Part III contains formal analyses of individual Siouan languages. David Rood proposes an analysis of /b/ and /g/ in Lakota using the tools of autosegmental phonology and feature geometry. John Boyle elucidates the structure of relative clauses in Hidatsa. Meredith Johnson, Bryan Rosen, and Mateja Schuck, in a series of three interrelated chapters, discuss syntactic constructions in Ho-Chunk including resultatives and VP ellipsis, which they argue show the language has VP and an adjective category. Part IV consists of three chapters which take a broader view of grammar, considering data from across the Siouan family. Catherine Rudin compares coordination constructions across Siouan; Bryan Gordon does the same with information structure and intonation, and Johannes Helmbrecht with nominal possession constructions.

All four of the areas represented by this volume are ones to which Bob Rankin contributed. His scholarly publications centered primarily around Siouan historical phonology, but included works ranging from dictionaries to toponym studies, from philological investigation of early Siouanists to description of grammaticalization pathways. He was deeply involved in language retention efforts with the Kaw Language Project. Other interests included archeology, linguistic typology, Iroquoian and Muskogean languages, and the history of linguistics.

Bob was a major figure in Siouan linguistics, a mentor to nearly all living Siouanists, and a mainstay of the annual Siouan and Caddoan Linguistics Conference meetings for decades. Trained in Romance and Indo-European linguistics, with a specialty in Romanian (Ph.D. University of Chicago 1972), he shifted gears soon after leaving graduate school, and became an expert in Siouan languages, especially the Dhegiha branch, with special focus on Kaw. From the mid 1970s through the end of his life, he devoted himself to Siouan studies, both practical and scholarly. His long association with the Kaw Tribe led to a grammar and dictionary of that language (see Cumberland2016), and he also produced a grammar of Quapaw, and briefly conducted field work on Omaha-Ponca and Osage. At the University of Kansas he directed dissertations on Lakota (Trechter1995) and Tutelo (Oliverio1996) as well as several M.A. theses on Siouan languages, and taught a wide variety of courses including field methods and structure of Lakota and Kansa as well as more theoretical courses in phonology, syntax, and historical linguistics. Perhaps Bob's greatest gift to the field was his encouragement of others. At conferences and on the Siouan List email forum, he was unfailingly patient and encouraging, answering all questions seriously, explaining linguistic terms to non-linguist participants and basic facts of Siouan languages to general

linguists with equal enthusiasm and lack of condescension.

Following his untimely passing, a special session was held at the 2014 Siouan and Caddoan Linguistics Conference to organize several projects in Bob's honor: The first of these was publication of the Comparative Siouan Dictionary, an immense project comparing cognates across all the Siouan languages, undertaken by Rankin and a group of colleagues in the 1980s. It had been circulated in various manuscript forms but never published. Thanks to David Rood (another founding member of the CSD project), with help from Iren Hartmann, the CSD is now available online (RankinEtAl2015AccessSeptember). The second project was a volume of Bob's conference papers and other previously unpublished or less accessible work, to be collected and edited by a group headed by John P. Boyle and David Rood; that volume, tentatively titled *Siouan Studies: Selected Papers by Robert L. Rankin*, is currently in progress. The third project was a volume of Siouan linguistic work in Bob's memory, which has taken the shape of the present volume.

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We are grateful to everyone who helped with this project, especially the many people who served as chapter reviewers and volume reviewers. Special thanks to Deniz Rudin for his invaluable typesetting assistance and to Jan Ullrich for orthography checking.

Chapter 1

Baxoje-Jiwere grammar sketch

Jill D. Greer

This synchronic grammar follows a descriptive approach to Jiwere-Baxoje of the Mississippi Valley branch of the Siouan language family. It expands upon prior published and unpublished documentation, based upon fieldwork conducted from 1987-96. Jiwere-Baxoje-Nyut'achi is a "sleeping language," with no fully fluent speakers at present, but with revitalization efforts underway in each of the three native communities of Red Rock and Perkins, Oklahoma, and White Cloud, Kansas. The sketch begins with phonology, morphology, then syntax, with special attention to the complex system of verbal affixes; the interesting phenomenon of nounincorporation within certain verbs; verb classes (regular stems, irregular stems in r/l, w, and d, and the causative construction); positional verbs, which may serve as auxiliary verbs; and SOV word order, with clause-final and utterance final enclitics marking relation to the following clause, source of evidence, sentence type, and gender of speaker. The topic of language variation concludes the sketch, with gender differences documented for greetings and interjections; brief tables illustrate phonological and lexical distinctions associated with both tribal dialects. KEY-WORDS: [Jiwere-Baxoje, Ioway, Otoe-Missouria, Chiwere, descriptive grammar]

1 Introduction

Baxoje-Jiwere belongs to the Mississippi Valley branch of the Siouan language family, and is the native language of the Plains/Prairie tribes known today as the Otoe-Missouria and Iowa (Goddard1996). While their original homelands were in northern Missouri, southeastern Nebraska, and the state of Iowa, during the late 19th century, the two tribes relocated to a north-central portion of Indian Territory in an attempt to avoid Euro-Americans' increasing encroachment on their reservations and the assimilation policies of the BIA. One segment of the Iowa chose to stay on a portion of their original reservation near the Missouri River in northeastern Kansas (Wedel2001 Schweitzer2001).

The following sketch is based upon fieldwork in central Oklahoma which I conducted mainly between 1987 and 1996 while a graduate student and research assistant within a larger team, led by Dr. Louanna Furbee, and including Lori A. Stan-



ley.¹ The research was conducted with the permission of the 1987 Otoe-Missouria Tribal Council, among members of both the Otoe-Missouria and the Ioway Tribes living in an approximately 100 mile radius of Red Rock, OK. It was funded initially by a University of Missouri Faculty Development Grant, then generously supported by the National Science Foundation Documenting Endangered Languages Program and the American Philosophical Society's Phillips Fund.

Báxoje is the Ioway tribe's name for their people and language. Jíwere is the native Otoe term for themselves (and the language), while Nyút'achi refers to the Missouria people/language.² The native language spoken by these two tribes has frequently been called *Chiwere* in the existing literature (**Whitman1947**; **Marsh1936**; **Wedel2001**; **Schweitzer2001**). However, because this spelling makes it more likely for English speakers to mispronounce the first sound of the Otoes' selfname, I prefer to use <J> instead, because the voiced allophone is far less likely to be aspirated by language learners with English as their first language. Good-Tracks also follows this orthographic shift.

In addition to the two contemporary communities centered in Red Rock and Perkins, Oklahoma, respectively, there is also a Northern Ioway Nation located on their original Reserve in White Cloud, Kansas. Sadly, there are no L1 speakers of Baxoje-Jiwere, but a few individuals may be semi-speakers. Language renewal efforts are underway in each of the small communities, so there is hope that while yet sleeping, the ancestral tongue may still be awakened.

Many factors led to this particular effort to document Jiwere-Baxoje, but the original impetus was the collegial friendship between two University of Chicago linguists (both students of Eric Hamp), the late Robert L. Rankin and N. Louanna Furbee. These two scholars both landed jobs in the Midwest, the former at KU in Lawrence, Kansas, and the latter just a few hours away at Mizzou. They remained in touch throughout the 1970s and 80s. As Bob adopted Siouan languages as his primary research focus, he saw the urgent need for more linguists. He would tease Louanna that since she was employed by the primary research university in the state that was named for one dialect of this highly endangered Siouan language, it was her duty to start doing research on it.

His good-natured urging came to fruition in 1987, when a critical mass of graduate students interested in language study surrounded Louanna and she offered

¹ Stanley's Ph.D. dissertation (**Stanley1993**) includes a life history of Dr. Truman W. Dailey, one of the primary speakers and contacts within the Otoe-Missouria Tribe, available at the University of Missouri-Columbia Library.

² Because the Missouria language was not recorded, I omit the name Nyút'achi when referencing the language in general, although the Missouria people and history are remembered in Otoe tribal heritage in the conjoined name today.

a special seminar on Siouan languages. About nine eager students enrolled in the course, myself included. Bob came to Mizzou to give a beginning workshop to Louanna's class, with stacks of handouts full of concrete suggestions such as questions to ask and topics to cover in the field.

His help did not end there, but continued throughout the years, giving feedback on papers, guiding our elicitation of forms for the Comparative Siouan Dictionary, reading much earlier versions of this sketch, and countless other generous acts on his part. Thus, without the initial friendship between Robert L. Rankin and N. Louanna Furbee,³ there would have been no Missouri Jiwere Language Project grammar. This work is dedicated to them both. All errors are of course my own.

2 Sound system (phonology)

2.1 Consonants

2.1.1 Stops

There are three sets of stops distinguished by these features:

- **a.** Aspiration /p^h, t^h, k^h/
- **b.** Glottalization /p', t', k'/
- c. Plain (neither aspirated nor glottalized) /b, d, g/

The "plain" sounds can be either voiced or voiceless, but the two allophones would have been heard by native speakers as the "same." Different scholars of Baxoje-Jiwere have used either or both [p/b, k/g, t/d] for the plain (lenis) series. Variation may have existed between closely related forms within the three historic speech communities, within some families, or even with particular speakers. Notes by earlier researchers suggest that individuals' speech did display such tendencies, but the data are too limited to address such topics at present (Whitman1947). In addition, the glottal stop /?/ does appear in word-initial, medial, and word-final positions, but in the first two instances, it serves primarily to prevent amalgamation and preserve semantic content before certain vowelinitial morphemes such as verb stems. In those settings, its function is morphological, rather than phonemic per se. Likewise, it tends to appear in word-final

³ The essential role of Louanna Furbee as major professor, grant writer, P.I., fieldworker, editor, friend, and all around pillar of strength cannot be overemphasized. The MCLP (Missouri Jiwere Language Project) original materials are archived at Luther College, Decorah, Iowa.

position only for a limited set of morphemes, namely interjections and sentence final particles/enclitics. In those instances, its phonetic abruptness carries an iconic meaning of emphasis, doubt, or even impatience (c.f. Tables 18 and 19).

2.1.2 Affricates

As with the stop series, there are three contrasts: plain affricates $/\check{c}/-/\check{j}/$, aspirated $/\check{c}^h/$, and glottalized $/\check{c}'/$.

2.1.3 Fricatives

The plain series has a larger set of sounds than the glottalized versions.

a. Plain: $\theta \delta s s x h$

b. Glottalized: θ s' x'/

2.1.4 Nasals

The four nasal consonants are /m n ñ ŋ/. The latter two phonemes /ñ/ and /ŋ/ were significant as indices of tribal identity. Baxoje speakers favored \tilde{n} in words where Jiwere speakers typically said η , such as 'horse': \check{sune} in Ioway vs. sune in Jiwere. ⁴ However, there are clear cases of /ñ/ in both dialects, such as the shared indefinite plural - $\tilde{n}e$. Word-initial /n/ often palatalized to [\tilde{n}] before front high vowels /i, \tilde{i} /.

The /ŋ/ cannot occur word initially, and probably is historically derived from phonological environments where a velar stop followed a nasal vowel. Note that there is a very strong tendency to pronounce an epenthetic homorganic nasal consonant when nasal vowels precede stops, probably for economy of effort, or making the word "smoother," as some elders liked to put it, as in the /m/ in $namp^ho$ 'finger'.⁵

2.1.5 Liquids

There has been some difficulty defining and representing the liquid sound in Baxoje-Jiwere. Phonetically, it has been described as resembling an unreleased

⁴ That example also illustrates another common pronunciation difference between the distinct versions of this language, namely the plain /s/ at the beginning of words for Otoe, where Ioway produces /š/ instead.

Amelia Susman1943's (Susman1943) work on Hoocak (Winnebago) mentioned the same tendency in that very closely related Siouan language.

"flap" [d] like the medial sound in *latter*, the plain [r] found in Spanish, and a variation upon the [l] sound (**Whitman1947**); Rankin also included [ð, n, y] as possible phonetic reflexes (**Wedel2001 Schweitzer2001**). For orthographic consistency, the symbol /r/ will be used.

2.1.6 Glides

Glides include /w/ and /v/.

2.2 Vowels

2.2.1 Oral vs. Nasal.

There are both oral and nasal vowels in Baxoje-Jiwere. They include /a i o u e/ and /a i u/. Frequently /a/ would be realized as a nasalized schwa.

2.2.2 Vowel allophones as gender indexicals.

Phonetic vowel quality sometimes differs significantly in particular words used by female speakers especially; in those contexts, there is also an $[\epsilon]$ and sometimes an $[\alpha]$. These variations are limited to a particular small domain of the overall vocabulary of the language, and serve a social-indexical function. (Cf. section 5.2. on sentence final particles and interjections.)

2.2.3 Vowel length.

Robert Rankin transcribed long vowels from a recording of a key word list by a Jiwere speaker, but I have been unable to perceive length on the same recording. No minimal pairs clearly establish phonemic significance of vowel length between etymologically unrelated words.⁶ Thus, at present there is scant evidence to support the idea of *phonemic* vowel length, although the revised Plains volume of the Handbook of North American Indians presents a list of long and short vowels, based on Rankin's analysis (Wedel2001 Schweitzer2001).

However, there are very prolonged vowels that occur when morphological boundaries have been "blurred" during amalgamation. The greatly extended length preserves the mora from the contracted morpheme, and sometimes affects the stress pattern as well. It seems to be primarily a morphological rather than phonological process.

⁶ John Boyle's student presented a brief paper on this topic based on spectrographic analysis of MCLP recordings, but that paper has not been published.

2.3 Stress/accent

Stress is both volume and pitch-based, with phonemic value in Baxoje-Jiwere, as in *ráwe* 'beaver' and *rawé* 'to count' (**GoodtracksND**), or *gísa* 'to laugh at another (v.)' vs. *gisá* 'a knot (n.)' (**DorseyNDChiwere**) When a root word with two syllables has additional affixes attached to it, the basic stress (and pitch) pattern can change, typically with primary stress shifting to the left in the case of prefixation, and addition of a secondary stress in the case of infixes or suffixes. An adequate prediction of stress patterns is beyond the scope of this grammar.⁷

2.4 Syllable structure

There is a strong tendency to end all syllables with a vowel,⁸ thus (V) and (CV) are very frequent syllable shapes. Initial consonant clusters are allowed (CCV), but examples of CCCV have not been discovered, nor have (VCC). The consonant clusters shown in Table 1 may begin a syllable.

2.5 Longer sound patterns/prosody

For length constraint, phrase level prosody is included under the later section labeled Syntax.

2.6 Phonological processes

2.6.1 Elision.

One of the most common changes, elision is characteristic of rapid speech, such as the final vowels mentioned in Footnote 8 which frequently are deleted.

2.6.2 Vowel harmony and nasal spread

The nasal quality of a nasal vowel may "spread" regressively (from right to left) to nearby vowels. (Hoocak scholars have documented such nasality spread not just to directly adjacent vowels, but also across the consonants /h/ and /w/ to the closest non-adjacent vowel (HelmbrechtLehmann2010).

⁷ Cf. discussions of Dorsey's Law in Miner1979b and HaleWhiteEagle1980

⁸ The few exceptions to the preference for vowel-final syllables would be represented as a CVC structure. However, such instances only appear in informal speech and seem to be elision. During quick speech, the final unstressed vowel disappears, yet speakers give the full "precise" pronunciation with final vowel if asked to repeat or clarify what they said. This seems to have been a major aspect of the historical sound changes separating Hoocak from Jiwere.

Table 1: Syllable-initial consonant clusters

a. stop + liquid:	br-	bra-'separated, spread in layers, sliced, flat'
	gr-	grų 'to curse'
b. stop + glide:	p ^h y-	$p^h y \acute{u} b r q$ 'mint, medicine tea, Indian perfume herb'
	gw-	gwák'ų 'to wipe off, scrape off, dry one's self (body)'
c. fricative + stop:	sd-	sdq 'to stop, cease, leave off'
	sg-	sga 'to be white, shiny'
	šg-	šgų̃nį 'no; not; (does) not'
	θg-	θ ga 'to be white' (old form)
	hg-	hga 'to be white' (Ioway)
d. fricative + liquid:	sr-	sroge 'to remove object from inside hole'
	θr-	$\theta rije$ 'easily, softly, slowly'
	xr-	xra 'eagle'
e. fricative + glide:	sw-	swąhi 'to soften' (flesh, leather, stale bread)
	šw-	šwąra 'soft (buckskin, flesh, cloth)'
f. fricative + nasal:	sn-	sni 'cold' (WistrandRobinson1972)
	θn-	θni 'cold' (possibly archaic; Dorsey in (GoodtracksND)

2.6.3 Vowel ablaut.

This well-known phenomenon within Siouan languages involves /a/ and /e/ which may alternate in a variety of settings, especially before particular verbs or certain suffixes, suggesting it is morphologically conditioned. Motion verbs are one set of verbs that trigger ablaut. Some verbs ending in -e such as ugwe 'to enter' and re 'to go' will also ablaut to final -a before -wi 'definite plural' as does the indefinite plural $\tilde{n}e > na$ before the definite -wi also. Conversely, verbal prefixes with final /a/ will ablaut to /e/ before the possessive gra- and the verb $udw\tilde{a}\tilde{n}i$ 'to fail to reach, fail to come up to' (Whitman1947), as well as doye 'to break'. The instrumental prefix gi- 'by hitting' (with an ax, hammer, or other object in the hand) will trigger ablaut from /a/ to /e/ in the pronominal prefixes which attach directly to it. The dative gi-, however, will not trigger the same vowel change, despite the identical phonetic shape, supporting the idea that it is not a purely phonological process.

Examples:

(1) $\check{C}^h \acute{u} g w \acute{a}$ -wi re. house.enter-def.pl imp(male speaker)

```
[from \check{c}^h i 'house'+ ugwe 'to enter' + -wi 'def.pl'] 'Come in the house, you-all.' (Marsh1936)
```

- (2) Iwálà-wi ho.
 yonder.go-def.pl hort(male speaker)
 [from i-'there'+ wa-'directional' + re'to go'+ -wi 'def.pl']
 'Let's go over there!' (Marsh1936)
- (3) He-grahi k^hi.

 1P.AGT-love DECL(female speaker)

 [from ha-1P.AGT + grahi 'love']

 'I love him.'

An alternative analysis accounts for the vowel change before -gra 'poss' and -gi 'dat/ben' as two vowels coalescing. Since the key morphemes in question are consonant initial, there would have to be an underlying vowel, either /e/ or /i/. The /e/ matches the target vowel, and parallels the 3pl form found in the independent pronoun e?e, and the possessive etháwe 'his/hers/its' and ethéwi 'theirs'. But there is precedent within Baxoje-Jiwere for /a/ + /i/ to become /e/, which Whitman1947 called 'amalgamation.' The volume reviewer likewise suggested that possibility, igra-. That shape/meaning resembles the 3pl inalienable prefix on kin terms (Table 2), which parallels cognate Lakota forms and matches the reconstructed Proto-Siouan *i- Possessive (on non-verbs) (Rood1979). This analysis also reserves the term 'ablaut' to stem-final vowels, as has been the norm within Siouan scholarship. 9

3 Words/morphology

3.1 Nouns

Many nouns can function fully as verbs, complete with the extensive system of prefixes and suffixes described later in the verbal template. Siouan languages are classified as strongly verb oriented, with very few prefixes or suffixes limited only to nouns. Certain verbal prefixes transform that state/action into something more noun-like, as in the following example, wherein the verb 'to eat' becomes

⁹ Unfortunately, *udwāñį* 'to fail to reach, come up to' and other verbs with separable prefixes preceding PRON prefixes also show the shift from final /a/ to /e/, [*uhédwañį* 'I fail to reach'] and these cases do not fit neatly into the proposed explanation (**Whitman1947**).

Helmbrecht2002 gives an extended discussion of ways to distinguish between nouns and verbs in Hoocak (Winnebago).

'something to eat upon': $w\acute{a}:ru\check{y}e$ 'table' < wa- 'indefinite object' + a- 'upon' + $ru\check{y}e$ 'eat'. Without the locative a- 'upon', the first vowel is not lengthened, and the stress remains on the second syllable: $war\check{u}\check{y}e$ 'something to eat, food.' Because there is a \varnothing third person pronominal prefix, 'food' sounds identical to the third person singular sentence 'He ate (something).'

3.1.1 Possessing: inalienable vs. alienable

Native American languages often distinguish people and things extremely close to a person's identity and self (INALIENABLE) versus other entities that separate more easily (ALIENABLE). The former category includes kinship terms and in Baxoje-Jiwere, the formal social ties of friendship and parenthood. The prefixes meaning inalienable possession are bound morphemes similar in shape to first and second singular person patient pronouns, but they differ in having an expressed third person form (which is sometimes dropped in fast speech), as shown in Table 2. (See Table 8 for personal pronominal prefixes.)

3.1.2 Address form -o 'speaking to this one'

While $hit^h \acute{a}ra$ 'my friend' is the unmarked referential form, a person would switch to $hit^h \acute{a}ro$ 'my friend (address form)' while speaking directly to the special friend (formally established as cultural role).¹³ Kin terms also take the same address morpheme when speaking directly **to** that person. The identical substitution of /o/ for final vowel affects line-final words in songs as well (**Davidson1997**). There is no vowel variation by gender for this morpheme.

3.1.3 Names

A proper name uniquely identifies someone, for both address and referential purposes. It also may encode key identity features (gender, clan membership, per-

¹¹ While body parts may be inalienably possessed in other languages, it is not the case in Jiwere-Baxoje. Frozen remnants of such a system are evidenced if one interprets the initial *i-* in the following body parts as representing the third person *i-* inalienable prefix found in kin terms and other life-long social relationships like formal friendship and parenthood ('(his/her) child' *ičičjne* (Otoe), *ičičjne* (Ioway)): *ihdóge* 'elbow', *iréje* 'shoulder', *isda* 'eye'.

¹² See Goodtracks1992 dictionary for complete inventory.

¹³ The friendship would have been initiated by parents of two children of the same sex, formalized with a ceremonial feast, and thereafter a lifelong bond of reciprocity and obligation existed between the two, to be recognized by this word -t^hara 'friend'. The ultimate duty came at the death of one friend, when the other would sit with the deceased's body for the duration of the wake, traditionally 4 days before burial would take place (Whitman1936 Davidson1997).

Kin term ¹²	T.		C	
Kili terili	Inalienable possessive prefix			
	1st person sg.	2nd person sg.	3rd person sg.	
Father	hį́-ka 'my father/FaBr'			
	hį-daje	naje <ri-ąje< td=""><td>aje < i-aje</td></ri-ąje<>	aje < i-aje	
	(old) 'my father'	'your father'	'his/her father'	
Mother	hį́-na 'my mother/MoZ' hį́-hụ	đi-hų /ri-hų	i-hų	
	archaic 'my mother'	'your mother/MoZ'	'his/her mother/MoZ'	
Man's elder brother	hį-yį́na 'my elder brother'	ri-yį́na 'your elder brother'	i-yį́na 'his elder brother'	
Woman's brother	hį-čįdo 'my(ғем) brother'	ri-čįdo 'your(fем) brother'	i-čįdo 'her brother'	
Grandfather	hį-t ^h úga 'my grandfather'	ri-t ^h úga 'your grandfather'	i-t ^h úga 'his/her grandfather'	

Table 2: Inalienable possession

sonal attributes/characteristics, or significant events relating to that person).¹⁴ Both dogs and horses were named also (Cf. **Whitman1936** for traditional Otoe-Missouria dog names).

Gender Some names were identical for both genders within the same clan, but often a woman's form differed by the addition of -mį 'feminine' suffix. A nickname could be coined to tease someone, as when one elder told another they should call me Toské-mį 'Quick/Speedy-Woman,' because I had done something so quickly that it surprised them. While names for men were not specially marked, there was a masculine morpheme -do that occurs in words for male noun referents such as 'boy,' 'buck,' and 'bull'; see Table 3.

Diminutive suffix -*iŋe*, -*šį́ŋe* [O-M]; *įñe*, *šį́ñe* 'small /DIM [Ioway]'. There are also cases in Ioway tales where the protagonist's name is created from a verb + diminutive suffix: [V + DIM > Name].

¹⁴ The Reverend James Owen Dorsey collected names, their meanings, and clan identification during his brief fieldwork in the late 19th century. The Smithsonian Institution has his field notes, truly a rich resource for individuals interested in discovering more about names, now available in their digital archive.

Table 3: Gender affixes: -do 'MASC'; -mi 'FEM'

```
a) i\check{c}^h id\acute{o}i\tilde{n}e 'boy-child' < i- 'at/around'+ č<sup>h</sup>i 'house'+ -do 'MASC'+ -ine 'small/DIM' [Ioway] 
b) i\check{c}^h imin(e) 'girl-child' < i- 'at/around'+ č<sup>h</sup>i 'house' + -mi FEM + -ine 'small/DIM' [Otoe] 
c) t^h ado 'buck, male deer' < t^ha 'deer'* + -do 'MASC' 
d) \check{c}^h \acute{e}do 'bull buffalo' < \check{c}^h \acute{e} 'buffalo, bison' + -do 'MASC'
```

```
(4) a. Bé-ñe-íŋe
throw.out-INDEF.PL-DIM
'The Outcast' < 'Little One(They)Threw Away' (Marsh1936)
b. Hịnú-šíŋe číla
my.first.son-DIM dear
'My dear Little-Son' (Marsh1936)
```

3.1.4 Number

Nouns do not inflect for plural or case; numerals may follow the noun to give an exact number, or verbal suffixes reveal plural information instead. Numbers may act as stative verbs, with patient inflection, as also happens in other Siouan languages such as Quapaw (Rankin2005b) and Lakota (Ullrich2008).

Numerals One through ten are the basics from which other numbers are expressed. Eleven through nineteen are formed using the formula 'X over ten' lit. 'ten-over-one': $grebrq\ agri\ (i)yqk^hi$, 'ten over two', etc. Multiples of ten become 'two tens' (lit. 'ten (be) two') $grebrq\ núwe$, 'two tens over one', up to ninety-nine. An interesting example of word coinage is the large quantity 'one thousand'; it is expressed by the word $k\acute{o}ge$ 'box or trunk', because shipments of money (presumably annuity payments from Washington, D.C.) arrived in packing boxes, each of which held one thousand dollars.

Ordinal numbers Baxoje-Jiwere may use either a prefix *i*- or a suffix -yq.

(5) *i-* 'ordinal marker': (Marsh1936)

^a With white-tailed deer, a buck is clearly the "marked form" if the visible feature of antlers was the primary basis for assigning group membership.

- a. walúxawe i-θát^h q dahá?-e
 bundle ORD-five it.is.standing-that.one
 'that fifth upright bundle' (LN 25)
- b. walúxawe i-šágwe dahá?-e bundle ORD-six it.is.standing-that.one 'that sixth upright bundle' (LN 30)
- c. walúxawe i-šáhmą dahá?-e bundle ORD-seven it.is.standing-that.one 'that seventh upright bundle' (LN 34)
- (6) (*i* 'ordinal marker') + -yq 'indefinite article' (Marsh1936)
 - a. Dáñ-í=yq (uthq?iwagi aškų).
 three-ORD=INDEF
 'A third time (he makes them appear to him, it seems).' (LN 34)
 - b. Hetále idóyą dahági síge alé gű?waškų.
 hetále i-dowe=yą dahági síge alé gű?waškų
 then.it.is ORD-four=INDEF time.it.is again it.is.this he.do.it.it.seems.'
 'And then, he does it again for the 4th time, it seems' (LN 35)

3.1.5 Compound nouns

Jiwere-Baxoje compound nouns,¹⁵ shown in Table 4 often have the modifying word precede the base noun, while other times the modifier(s) follow it. These words can also include names, i.e. $mqk^h\acute{a}$ $ru\check{j}\grave{e}$ 'medicine eaters' denoting those who participate in the religious traditions surrounding the sacred sacrament peyote.

3.1.6 Culture contact and word coinage

There was strong resistance to borrowing from European languages throughout Plains tribes in general, 16 so it is not surprising that Jiwere-Baxoje speakers also chose to coin new words, or extend the meaning of existing words. For instance, the Ioways chose the part of a bird that powers its motion to name that revolutionary object, the wheel: ahu 'wing' > wheel (wagon/car). 17

¹⁵ In other Siouan languages, e.g. Lakota and Crow, there can be a greater degree of noun incorporation. See Ullrich2008 DeReuse1994; Graczyk1991a

¹⁶ Cf. Brown1999 also Larson2004

¹⁷ Keith Basso described the Western Apache (Athabaskan) words for automobiles in similar ways, but in that case it was a hand/arm = front wheel and foot = rear wheel set extension (Basso1990).

Table 4: Compound nouns

a. č ^h ína	'village' < č ^h i 'house' + -na 'horizontal?'
b. č ^h ína wanàxi	'cemetery' < č ^h ina 'village' + wanaxi 'spirit, ghost'
c. walúšge č ^h ìna	'giant(s) village' (Marsh1936) Ln 100]
d. hį́dų́ŋe-ną̀wų	'mouse + paths' (Marsh1936)
e. wanáxi waxòñit ^h ą	'spirit/ghost + be holy/sacred' [Davidson1997]
f. mą́yą uhą̀we	'heaven' < 'land + full.of.light' [Davidson1997; GoodtracksND]
g. mą́yą wàtahe	'Wanderer' < máya 'land' +wa- 'directional' + dahe 'be standing'
h. wą́ŋegíhi	'Chief/Headman' <wane 'caus'<="" 'man'="" +="" -hi="" dat'="" gi-'ben="" td=""></wane>
i. wą?kwás'ose	'warrior/veteran/soldier'< wane 'man' + was'ose a 'brave'
j. wą́?šige	'person' < wane 'man' + šige 'again' +/or -ge 'NOM'
k. wą?ší k'uč'e	'man-hunter' < wą?sige 'person' + k'uč'e 'to kill'
l. $t^h \dot{a}$ wa $\theta l \dot{q}$	'roasted deer' < deer + to roast (Marsh1936)
m. istą č ^h i	'(menstrual) period' [literally 'be alone-house']

^a Whitman1947 noted glottal stop marking morpheme juncture. It seems especially prevalent when the deleted sounds/syllable involves $/\eta$ /.

- (7) a. wagon = námañi < na 'wood' + máñi 'moving/walking'
 - b. train = $n\acute{a}mq\~n\~i d\grave{a}k\'o < n\acute{a}m\~a\~n\~i `wagon' + d\acute{a}k'o `thunder/fire'$
 - c. photographs/pictures = ije wagaxe < ije 'face' + wagaxe 'writing'
 - d. Saturday = $h\acute{q}we~uk^hi\theta re$ 'day-half' < h\acute{q}we 'day' + ukhi\theta re 'half, be split into two' [because the Tribal Agency was open from morning to noon on Saturdays]
 - e. piano = nayąwe 'wood sings' < na 'wood' + yą́we 'to sing'

The existing word for 'metal' $mq\delta e$ originally referred to copper, available from the Great Lakes region in particular, and found throughout late Woodland through Mississippian periods in the Mississippi River valley and tributaries. European silver and gold coins were called 'white/light' or 'shiny' metal, $mq\delta e \theta ka$. The different types of coins led to this unique descriptor for 'penny' < 'coin (white/shiny-metal)+ red' $mq\delta e \theta ka \delta u e$. This new unit formed a single compound noun, as shown by the phrase $mq\delta e \theta ka \delta u e$ iya 'a penny, one penny.'

3.1.7 Degrees of noun incorporation

Table 5 demonstrates various ways that the words now functioning as compound verbs are conjugated. The left-most column represents the least degree of noun incorporating into the verb, because the personal pronominal prefixes still attach directly to the verb: [Noun [Pronominal prefix + Verb]]. Or a speaker might prefer to add an auxiliary verb to carry person/number inflections, rather than inflect the main verb; see center column. Finally, a fully fused/incorporated nounverb lexeme accepts the pronominal prefixes attaching directly to the left-most edge of the word, as represented in the far right-hand column [Pronoun + [Noun + Verb]]. The table shows some variation, and speaker preference seems to have been involved. Forms with *ho* 'voice' (11-13) appear to be more fully fused than other nouns were.

There is an intriguing case from another Marsh text in which the noun seems strongly associated with a certain verb but it was in the third person with \emptyset affix, so the conjugation pattern is unknown: $t^h \acute{a} \ \check{c}'\grave{e}hi \ ma\~n\~a$ 'he went deer-hunting' (Marsh1936)

3.1.8 Nominalizing prefixes

Certain prefixes commonly attach to verb stems to form a nominal. To illustrate, the three prefixes in (8) all incorporate the basic *wa-* 'indefinite object' (sometimes contracted with a locative prefix also) to action word(s).

- (8) a. wawagáxe 'paper' < wa 'INDEF.OBJ' + gaxe 'to scratch, write' warúwaha 'bundle' < wa + ruwaha 'to show with hands'
 - b. wi wi:u 'tool' < wa 'INDEF.OBJ' + i- 'at, to' + ?u 'to do, make, create'
 wi:ro:ha 'kettle' < wa + i- + róha 'plenty, lots, much, many'
 wi:khahi 'bridle' < wa + i- + khahi 'blood-vessel, sinew, cord' (Marsh1936)¹⁸
 - c. wo- $w\acute{o}: \check{c}^h exi$ 'difficult times, trials' < wa 'INDEF.OBJ' + u-'in' + be.cruel/stingy' $w\acute{o}: yqwe$ 'festivity' < wa + u- + yąwe 'sing'? ¹⁹

¹⁹ Length is presumed here from the overall language pattern. Marsh rarely marked vowel length in the narratives, except on interjections within dialogue, when they were greatly lengthened for emphasis.

¹⁹ This form and derivation is from Jimm Goodtracks. **Marsh1936** gives *wóyawe* with non-nasal /a/, perhaps from to *yawe* 'stab' (which might refer to the preparation of meat for feasting or

Table 5: Conjugating different verbs with nouns attached

Jiwere gloss	[N+[pron-V]]	[N+V] PRON-AUX	PRON-[N+V]
1) hóθige 'to fish'	ho- he -θige		
['fish + split']	'I am fishing'	-	-
2) nąsje p ^h iskųñį	nąsje- hį -p ^h iskųñį	-	-
'to be unkind'	'I am unkind'		
['heart be good-not']			
3) nąsje p ^h i	nąsje ri -p ^h i		
'to be kind'	'you are kind'	-	-
['heart be-good']			
4) nąt'ų́dą	nąt'ų- he -dą		
'to pity'	'I pity him'	-	-
5) irodaxra	iro- hį -daxra	irodaxra hį ñį wi	-
'to have a fever'	'I have a fever'	'we (PL) have a fever'	
['body-burn/be hot']	iro- ri -daxra	[añį 'have']	
	' you have a fever'		
6) iroruθ'a	wawa-roruθ'awi	roruθ'a hį ñi- wi	-
'to be shaken up,	'we're shook up pl.'	'we're shook up'	
excited'	(first response)	(second response)	
['body be-pushed?']	roruθ'ani		
	'I am shook up'		
7) iroθet ^h ą	-	-	i ri roθet ^h ą
'to abuse'			' you were abused'
['body + ?']			(1Psg & PL also)
8) irok ^h up ^h i	-	irok ^h up ^h i hį ñiwi	i- ri -rosk ^h up ^h i
'to be handsome'		'we look good'	'you are handsome'
['body +?look+good']		[<añi 'to="" have']<="" td=""><td>(1Psg also)</td></añi>	(1Psg also)
9) rosje		rosje- ri -ñe	wawa-rosjewi
'to sweat' [<'body+?']	-	'they made you sweat'	'we're sweating'
		[CAUS]	(1Psg also)
10) dąwe	-	-	ha -dąwe
'to awaken, open eyes'			'I awakened'
[<isda 'eye(s)="" +="" move']<="" td=""><td></td><td></td><td></td></isda>			
11) hohga 'to belch'	-	-	ra-hohga
[<ho 'voice'="" +="" sound<="" td=""><td></td><td></td><td>'you belched'</td></ho>			' you belched'
symbolic hga]			(1Psg & Pl also)
12) hoxga 'to hiccup'	-	-	ha -hoxga mąñi
[<ho 'voice'="" +="" sound<="" td=""><td></td><td></td><td>'I am hiccupping'</td></ho>			'I am hiccupping'
symbolic xga]			
13) hoxu 'to cough'a	-	-	ha-hoxu
[<ho 'voice'="" +="" sound<="" td=""><td></td><td></td><td>'I coughed.'</td></ho>			'I coughed.'
symbolic xu]			

^a Note 12 is lexicalized, as is its Lakota cognate, relative to Biloxi, which treated 'cough' still as separable, inflecting after ho 'voice' (RankinEtAl2003)

3.2 The verb and its many parts

3.2.1 The verb template

In Siouan languages, the most complex morphology involves the verb, which may include basic verb stem, plus up to ten "slots" or positions for a number of possible prefixes, as well as at least four positions for potential suffixes. Figure 1 (at end of chapter) is the representation of all fourteen potential affix positions and which prefix/suffixes can appear in each of those places.

Described in more detail, beginning at the front or left-most position of an inflected verb, the prefixes may occur as follows (Whitman1947 Marsh1936 also HopkinsFurbee1991). Negative numbers represent positions preceding the verb root; positive numbers follow the root.

Position [-10] 1st person patient pronouns:

```
h_i =singular 'me' wa_{1a} = dual 'us two' (first half of separable morpheme)
```

Position [-9] The second *wa-* set:

 wa_{2a} - 'them, something;' indefinitely extended object (also detransitivizes the verb)

wa_{2b}- 'toward, directional' [precedes all person prefixes except hi- 1sg. patient 'me']

Two examples of the first meaning, wa-2a, give an idea of its flexibility as both derivational and inflectional morpheme:

- (9) a. **wa**naxi 'spirit, ghost' < wa_{2a}- 'indefinitely extended object' + naxi 'breath, life'.
 - b. *Hinage wa-tha naha waye:re na?* woman PL.PAT-1sG.see those.ones who-are-they Q 'Who are the women that I saw?'

Whitman considered directional *wa*- to parallel both *gra*- and *gi*- of template positions -3 and -4 in some functions.²⁰ The next case illustrates directional *wa*-frequently found in prayer songs.

the the piercing that took place during mourning a chief).

²⁰ Cf. Boyle2009 for a discussion of the wa-prefixes across the Siouan languages, quoting the late Carolyn Quintero on Osage wa-, which was especially interesting. Based on these analyses, it may be more elegant to conclude that in Baxoje-Jiwere there is only one wa-which does a wide variety of things to the verb, including the various functions within the different glosses

(10) Hįyįno wa-hį-na-wi.
OurElderBrother DIR-1PL.AGT-go-DEF.PL
'We're going toward Our Elder Brother (Jesus).' (Davidson1997)

Position [-8] Locatives:

```
a- 'on, upon, over',u- 'in, within, into',i- 'at, to, by' (Whitman1947)
```

The locatives combine with the prefix wa_{2a} - (indefinitely extended object) to make a "heavy" syllable with a longer vowel, which usually attracts stress (Cf. nominal prefixes.)

```
wa: < wa<sub>2a</sub>- + a- 'on'
wo: < wa<sub>2a</sub>- + u- 'in'
wi: < wa<sub>2a</sub>- + i- 'at, to, by'
```

Position [-7] Object/patient pronouns:

```
wa_{1b}- 'us (1PL.PAT; speaker & another, usually listener)' ri_1- 'thee (2SG.PAT)' mi- 'me (1SG.PAT)'
```

Position [-6] Agent pronouns (first and second person):

```
ha-, he- 'I/1sg.Agt' ra<sub>1</sub>-, re- 'thou/2sg.Agt' a-, e- '3pl.Agt' with motion verbs only<sup>21</sup>
```

Position [-5] Reflexive $k^h i$ - '(to) one's self'

This prefix relates the event/state described by the verb back to the agent, usually translated as 'one's self.' If $k^h i$ reduplicates, giving $k^h i k^h i$, it adds the sense of reciprocal action 'to/with each other'.

Position [-4] Possessive gra- 'one's own'

given above. At present, it does not seem crucial to determine whether they are best described as two distinct morphemes *wa*-, or as a single *wa*- quite flexible in meaning. In the future, as more work on comparative Siouan *wa*- emerges, perhaps the issue can be resolved.

²¹ Whitman did not list the *e-/a-* prefixes within the ordering of preverbal elements, probably because they are limited to motion verbs. However, since motion verbs do occur frequently, it seems preferable to include them as possibly archaic forms. The two also occur in 3rd p. possessive pronouns *ethawe* 'his (singular)', *ethewi* 'theirs (definite pl.)', and *aré* 'it is' (independent pronoun that primarily serves as demonstrative now, loosely 'that').

The possessive prefix gives additional information about social relations between persons and things mentioned in the verb complex.

```
(11) Excerpt from the Otoe-Missouria Flag Song:
```

```
E-gra-ña-gri-ñe.

e-gra-añi+a-gri-ñe

30BJ[ablaut]-Poss-have+3PL-come.back.(home)-PL.INDEF

'They brought it (the flag) back home.' (Greer2008)
```

Position [-3] Benefactive/dative gi₁- 'for, to'

Position [-2] Instrumentals (describing how an action was completed):

```
ba- 'by cutting'
bo- 'with a blow'
da- 'by heat or cold'
gi<sub>2</sub>- 'with object away from the body, by pushing or striking with an object'
na- 'with foot/feet'
ra<sub>2</sub>- 'by mouth, teeth'
ri<sub>2</sub>- 'with held object, toward the body, pulling with an object/tool'
ru- 'with hand, toward oneself, by pulling with the hand'
wa<sub>3</sub>- 'with hand away, by pushing with the hand'
```

According to **Whitman1947** these nine prefixes transform a passive verb into an active one, or a stative verb into a transitive one (**Rankin2005b**). They make very specific distinctions in the world of human activity. 'Long horizontal object being cut in two' -*gruje* is an interesting yet abstract verbal root; someone or something must do the cutting, and the various ways that action is accomplished can be encoded very precisely (and concisely) with these prefixes, as in wa_3 - 'with hand away (from agent's body)' -*gruje* > *wagruje* 'to saw'. Siouan scholars have sometimes distinguished between "inner" and "outer" instrumentals, with the latter a smaller set consisting of 'by extreme temperature/heat', 'by cutting with a knife,' and 'by shooting/blowing' (**Rankin2005b**); however, I have not found data pertaining to that distinction in Jiwere-Baxoje thus far.

Position [-1] 2nd person s-

Archaic form that stands for 'you' (second person) on a small number of specific verb stems. Siouan scholars have found related forms in the Mississippi Valley subgroup (e.g. Quapaw allomorphs \check{s} -/ \check{z} -), even extending into Proto-Siouan,

suggesting it is of ancient origin (Rankin2005b). Over time, it was probably replaced in less common verbs by the regular second person forms *ra-*, *ri-*, but remained in very frequent verbs, which are more resistant to change.

(12) Arastawi k^he.

a-ra-s-da-wi k^he

on-you.AGT.archaic.2-see-PL.DEF MASC.DECL

'You (all) see it.' (Final line, Otoe-Missouria Flag Song, Greer2008)

Position [0] Verb root/stem

Position [+1] Post-positioned person affixes + causative suffix -hi 'to make something happen, to cause something'

One way to form an active verb from a stative one is by adding the causative suffix -hi; so \check{c} 'e 'to die' becomes \check{c} 'ehi' 'to kill' (literally 'to cause to die'). Since the causative -hi occurs after the verb stem, personal pronoun affixes also come after the verb, but immediately before the -hi, rather than their usual pre-verbal positions. Sometimes the -hi itself is omitted (as in the following example), but the pronominals' marked position after the verb, plus the meaning 'to cause (something)' are still present. The word nayihi 'to heal, cure' literally means 'to cause one to stand up, to stand X up.' The chorus of a NAC song by Edward Small (Ioway) exemplifies an instance where -hi does not overtly appear. Still, the translation and the location of the PRO prefixes after the verb stem nayi 'to stand' give evidence of the causative -hi having an underlying presence.

(13) Hįyį́no | Wakhąda- yįne | mąya čegi wahire nayį-wa-ra
Our-elder-Brother | God-son) | land this sick stand-|3PL.PAT-2.AGT

na
and|
'Elder Brother, Son of God, you heal the sick in this land.'(Davidson1997)

Likewise, it occurs in this sentence from missionary scholars **HamiltonIrvin1848** #53):

One possible origin of this unusual case of pronominal prefixes shifting to the end is that *hi* was once truly an independent verb, and over time, the forms were re-analyzed by speakers as single unified words. Then the initial verb of the compound was no longer conjugated. In that light, it is interesting to note that there is another *hi*, the motion verb meaning 'arrive here' (**Taylor1976a Hopkins1988**). That would parallel English idioms such as 'to come to pass' for 'happen, take place,' or 'go and X' as in 'Sam went and punched the man'.

(14) \check{C} 'e-wa- $[\varnothing]$ -hi k^he . kill-3.PL/INDEF-EXT-OBJ-3-CAUS DECL(male.speaker) 'He killed them'.

Position [+2] Negation -skuñi 'not'

Position [+3] General Plural suffix -ne 'they/them'

Usually limited to third persons, **Whitman1947** called it an indefinite form; perhaps the term 'general plural' is more appropriate.

Position [+4] Definite Plural -wi 'DEF.PL'

Usually 'we' or 'you-all', it may occur with any grammatical person

(15)
$$wa-wa...-wi$$
, $h_{\bar{l}}-...-wi$, $ra-...-wi$, $ri-...-wi$, $\varnothing...-wi$).
(1PL-PAT...-PL, 12AGT...-PL, 2AGT...-PL, 2PAT...-PL, 3...PL)

Both suffixes can pluralize any personal pronoun, no matter if that pronoun is in the role of an actor, patient or object (direct or indirect). They only index number, and definiteness vs. indefiniteness. Specifically, it says there are more than one for second and third person forms, and three or more for the first person dual form. The two potential plurals above differ by whether the people or things being referenced represent given or new information.²³

Thus, they are not interchangeable. They reference the speaker's knowledge about the group, how specific group membership is, whether persons' identities are known, if they have already been mentioned in a story before this point or not, and so on. It makes sense for the definite plural to appear with the first person plural for pragmatic reasons. It is difficult to imagine a situation in which 'we' might mean a group with unknown or uncertain membership. Second person plurals also usually take the definite plural, for the same reason, although some rare exception might occur. However, it is very possible to imagine situations involving third persons to be either definite ('the gourd dancers from Red Rock, Oklahoma') or indefinite in nature ('everyone on Earth who knew my uncle'). Just as one might expect, zero third person-inflected verbs occur with either plural suffix, depending on the meaning intended.

(16) wówak'ųñawi wa-∅-u-wa-k'ų-**ña-wi** 12PAT-3PAT-LOC-12PAT-gave-INDEF.PL('they')-DEF.PL('us')

²³ Think of the parallel indefinite article being used in the formula which begins many English fairy tales, 'Once upon a time, there was a princess…'

[vowel ablaut to $\tilde{n}a$ from INDEF.PL $-\tilde{n}e$ when before -wi] 'They gave it to us.' (**Whitman1947**)

Position [+5] Mood/Aspect -hñe, -hna 'will, shall'

The modal suffix seems similar to a future tense, but probably is more accurately expressed as 'an action that is not yet completed' according to **Rankin2009**²⁴ The *e*- itself ablauts to *a*- with verbs of motion.²⁵

Position [+6] Evidential and gender indexical particle.

It is not clear that these enclitics are actually part of the verbal complex, rather than serving as an audible coda indexing the gender identity of the speaker of an utterance and the degree of certainty of the speaker for the information given. The enclitics are not tied absolutely to the speaker's gender, but may also reflect the gender of a character during dialogue in a narrative, or original speaker's gender in reported speech/quotatives). They do not seem to function as truly "free" morphemes, as they carry only secondary stress, and there is basically no pause between the verbal complex and the sentence-final particle, which tend to form a single prosodic contour. Because it is such a rich and complex set, with meanings that are not easy to gloss, these particles are listed in Table 18, rather than being included in the verbal template per se.

3.3 Auxiliary verbs

Auxiliaries may appear alone, inflected with the full variety of verbal prefixes. When they are not the main verb, they will follow it (and any verbal suffixes attached to it). In third person and inanimate subjects, the auxiliary verbs may not be inflected, but otherwise they would still bear first and second person prefixes, which strongly tend to be animate for practical contextual reasons. The same pattern is found in most SOV languages (Rankin2005b).

Positionals/modals. After the main verb, there is often a second verb expressing the action or position of the agent, or a distinct clause describing the activity/position of the speaker. If one witnessed an event, a proper Baxoje-Jiwere description would include whether someone was sitting, lying, standing, or mov-

²⁴ While **Rankin2009** included auxiliary verbs, adverbial intensifiers, positionals, and more within his comparative Siouan post-verbal template, this analysis will not follow his template for those morphological elements at this time.

²⁵ Comparatively speaking, there is not yet an elegant historical explanation of ablaut across the various members of the Siouan language family (Rankin2005b).

ing around while it occurred.²⁶ Beyond clarifying the bodily orientation of the person or thing being described, there are also various aspectual meanings that may be conveyed. One such aspect is continuative as if the action takes place over an extended time frame, rather than occurring at a single moment or limited duration.²⁷ They include:

máñi 'going around, moving (in the characteristic way for that creature)' mína 'sitting /dwelling' náne 'be in a sitting position' háne 'be in a lying or reclining position' dáhe 'be in a standing /upright position' náyi 'to stand something/someone up'

3.4 Pronominals

Baxoje-Jiwere has overt prefixes for first and second persons, while third person is represented by \varnothing morpheme. There are also three numbers expressed: one (singular), we two (dual inclusive), or more than two (distinguished by the plural suffixes discussed in §3.2). Each person's role is identified relative to the action of the verb, as agent/actor or patient/object. There is potential confusion caused by homophony between one allomorph of first person singular patient hi- 'me' and the first person dual agent hi- 'we two'. The other allomorph for 1PAT.SG, mi-, mirrors the form in the independent first person pronoun, as well as the independent possessive first person pronoun. The first person plural can only be expressed by addition of the definite plural suffix -wi (see (+4) above), denoting the speaker, hearer, and one or more additional people as either agents hi-...wi, or patients wa-wa-...wi.

'You' is composed of second person singular agent ra_2 - and patient ri_2 -, and also second person plural agent and patient forms. See Table 6 for further illustration.

The parenthetical forms with final /e/ show the vowel change that takes place when the prefix is followed by certain derivational morphemes such as *gra*-'one's

²⁶ Davidson1997 outlined the key role these auxiliary verbs played in creating vivid images in Native American Church songs composed by Otoe-Missouria and Ioway speakers.

²⁷ In addition to the continuative aspect, **Rankin2005b** also distinguished a habitual ('always') aspect (Quapaw *nq*), an imperfective 'used to X' derived from Proto-Siouan /*?õ/ 'do', a potential 'will/would X' (Quapaw *tte*). Negation, imperative, and narrative forms were grouped with the auxiliary aspects, too. More complex moods could be created with combinations of these forms, such as potential + continuative, or negative potential continuative 'to not go on X-ing'. However, I have grouped the imperative and narrative particles with the general sentence-final enclitics, in Table 18.

	1sg 'I/me'	1DUAL 'we/us two'	1PL 'we/us all'	2sg 'thou/thee'	2pl 'you'
Agent	ha- (he-)	hį-	hį-[+ -wi]	ra- (re-)	ra-[+ -wi] (re-) [+ -wi]
Patient	mį- hį-	wa _{1a} - wa _{1b} -	wa _{1a} -[+ -wi] wa _{1b} -[+ -wi]	ri-	ri-[+ -wi]

Table 6: Personal pronominal prefixes

own' (possessive), represented in the verb gra-hi 'to love, have pity on someone'. The agentive forms ha- 'I', ra- 'thou' will become he-, re- in other complex verbs such as nqt'udq 'to pity (someone/something)'. A potential origin for this word is nqhje 'heart' plus u-gi-dq 'be depressed toward' (Whitman1947). If that analysis is correct, the benefactive prefix gi- 'for' would be the conditioning morpheme for that particular case. Another example is gi-t'q '(it) flies', despite the fact that the gi- prefix itself only is fully apparent in the plain \varnothing third person form (Whitman1947).

Third person singular is typically marked by a zero morpheme, although an e-prefix may rarely occur, especially with the possessor prefix 'one's own', and with independent possessive third person et^hawe 'his/hers (singular)' or et^hewi 'theirs'. The demonstrative form -?e combines with many prefixes, including third person e-, resulting in e?e 'it is that one.' Motion verbs provide an exception to that rule, with an a- prefix in plural contexts. ²⁹ Once again, we see an |a|-|e| alternation.

Independent pronouns, shown in Table 7, appear for emphasis or clarity, but are not required grammatically to complete a sentence, provided that the verb is properly inflected.

3.5 Conjugating verbs

3.5.1 Regular verbs

A verb stem is considered REGULAR if it follows the verbal template of prefixes in its ordering, and the stem itself does not change in form, regardless of any shift

²⁸ **Whitman1947** has the plain [u] here while I heard it as a nasal [ų], perhaps just spreading from the surrounding environment (**Davidson1997**).

²⁹ Marsh1936; Taylor1976a

Person	Independent	Possessive
1 Singular	mį́re	mįt ^h áwe
1 Dual Inclusive	hį́re	hįt ^h áwe
1 Plural Inclusive	-	hįt ^h éwi
2 Singular	ríre	rit ^h áwe
2 Plural	-	rit ^h éwi
3 Singular	é?e	et ^h áwe
3 Plural	aré	et ^h éwi

Table 7: Personal pronouns (HamiltonIrvin1848 Marsh1936).

in person or number. Verbs are grouped according to whether they are ACTIVE or STATIVE, with the agentive pronominal prefixes inflecting the active verbs, and the patient pronominal prefixes forming the subject of stative verbs, as well as the objects of transitive verbs; see Table 8.

3.5.2 Irregular verbs stems in D-, R-, W-.

All irregular verb stems begin with d-, r-, or w- sounds (Whitman1947). Note that the stem-initial consonant defines the class, and determines which conjugation will be irregular; however, there may also be prefixes attached to that stem. When any of those prefixes come before the personal pronoun, they do not influence each other (no amalgamation). These irregular verbs share another anomaly; in second person agent forms, in addition to the expected ra-, the archaic Siouan second person s- also appears (Slot -1 on Verbal Template). Examples of irregular compound stems include: 30

D- stems The stem's initial /d/ becomes /t/ to indicate 1AGT, instead of having the regular first person agent pronominal ha-. The stem change does not occur in any other person; even first person patient constructions take regular 1AGT hi-. Second person agentive form is doubly inflected; both 2AGT ra- and archaic 1AGT s- attach to the stem initial consonant; see Table 9.

³⁰ Twentieth century elicitations seem to exhibit a tendency toward including the regular pronominal prefixes, in addition to the verb stem changes. However, Dorsey's slip file only has one speaker who doubles the inflection on these forms; this tendency to move toward the regular pattern may reflect the decline in everyday language use, leading to a preference for the most familiar inflections to be added onto the irregular verb stem changes (DorseyNDChiwere).

Table 8: Regular verb paradigm

Person	Active verb	Stative verb	Transitive verb
1sg	ha-mąñį	hį-yą , mį-yą	ha-k'e
	'I walk/move'	'I sleep'	'I dig (it)/ I dug (it)'
1DU.INCL	hį-mąñį	wawa-yą	hį-k'e
	'We 2 walk'	'We 2 sleep'	'We 2 dig (it)'
1PL.DEF	hį-mąñį-wi	wawa-yą-wi	hį-k'e-wi
	'We-all walk (>2)	'We-all sleep'	'We-all dig (it)'
2sg	ra-mąñį	ri-yą	ra-k'e
	'You(sg) walk'	'You(sg) sleep'	'You (sg)dig (it)'
2PL.DEF	ra-mąñį-wi	ri-yą-wi	ra-k'e-wi
	'You-all walk'	'You-all sleep'	'You-all dig (it)'
3sg	∅-mąñį	Ø-yą	∅-k'e
	'He/she/it walks'	'He/she/it sleeps'	'He/she/it digs (it)'
3PL.DEF	∅-mąñį-wi	∅-yą-wi	∅-k'e-wi
	'They walk'	'They sleep'	'They dig (it)'
	(known)	(known)	(known)
1sg.indef	∅-mąñį-ñe	∅-yą-ñe	Ø-k'e-ñe
	'They walk'	'They sleep'	'They dig (it)'
	(unknown)	(unknown)	(unknown)

Table 9: D- stem

a-dá 'to see'	á <u>t</u> a	'I see (it/him/her)'
	ará <u>s</u> da	'You(sG) see (it)'
	hą́da	'We two (1sg & 2sg) see (it,)'
	hą́dawi	'We (PL) see (it,)'a
	adá	'he sees her/it'
	a <u>rít</u> a	'I see you'
	á̞ra <u>š</u> da	'You(sg) -Archaic 2P see me'
	<u>wáwa</u> dáwi	'(he) sees us (PL)'

 $[^]a$ Stress shifted left to reflect a "heavy" syllable resulting from two vowels coalesced together, hi-1PAT plus a-'on' LOC.

R- stems There are two irregular verb classes beginning with r. In the first paradigm, shown in Table 10, the liquid r is followed by back vowels r, r, giving r- or r- as the stem's first syllable. First person agent is marked by r becoming r- or r- as the second person form inflects twice, with regular 2AGT r- and archaic 2AGT r-, r- and archaic 2AGT r- and r- archaic 2AGT r- archaic 2AGT

Table 10: R-stem 1

rumi 'to buy'	ha <u>d</u> umi ra <u>st</u> umi hárumi rumi	'I bought (it)' 'You (sG) bought (it)' 'We two bought (it)' 'He/she bought (it)'
	1 (31111	Tie/site bought (it)

The second subclass of irregular verb stems, shown in Table 11, begin with /r/ paired with front vowels /i, e/. The /ri-, re-/ verb stems demonstrate a shift from /r/ to /j/ to mark 1AGT forms, while the archaic 2AGT /s, š/ morpheme inflects the unchanged stem alone.

Table 11: R- stem 2

ré 'to go'	hajé	'I go'
	sre	'You go'
	hįre	'We two go'
	hįrewi	'We go (pl.)'
	ré	'He/she/it goes'

W- stems These verbs have an initial voiceless bilabial glide /w/ which becomes a voiceless aspirated bilabial stop /p/ in the 1AGT form. The regular 2AGT *ra*- may be present with some verbs, but is absent in others, while all W-stems take the archaic 1AGT /s, š/ inflection; see Table 12.

Additional verbs may conjugate regularly in all other persons, but preserve the archaic 2AGT /s, š-/ inflection. These mixed verbs include common words: e 'to say, $hij\acute{e}$ 'reach a standing position', $\acute{a}\~n\~ile \ifmmode{i}\ifmode{i}\ifmmode{i}\ifmmode{i}\ifmmode{i}\ifmmode{i}\ifmmode{i}\ifmmode{i$

Table 12: W- stem

awáđo 'to point at, point to'	á <u>p</u> ađo a <u>š</u> wáđo háwađowi	'I point at (it)' 'You point at (it)' 'We (PL) point at (it)' 'He (she / it points at (it)'
	awáđo	'He/she/it points at (it)'

3.5.3 Other special conjugation patterns: motion verbs

Like all Siouan languages, the Baxoje-Jiwere system of motion verbs has a rich set of distinctions. One intriguing dimension is the vertitive, which allows a concise and powerful way of expressing the notion of leaving home or predicting a safe homecoming. Otoe-Missouria patriotic songs often have this powerful motion verb, poetically highlighting the fear involved when soldiers leave home, and joy when they return safely to their families. Motion verbs are also distinguished by a $3^{\rm rd}$ person plural prefix a- which changes to e- in the same conditioning environments in which $1^{\rm st}$ and $2^{\rm nd}$ person prefix vowels also shift from a- to e-, namely before the benefactive prefix a- and the possessive a-. (See Table 13).

Table 13: Jiwere motion verb stems (Taylor1976a)

Destination:	Arriving Motion		Motion Prior to Arrival	
	non-vertitive /	vertitive	non-vertitive /	vertitive
here	jí	grí	hú	gú
there	hí	-	rá	grá

Note the initial consonant cluster echoes the possessive prefix [gra- 'one's own']; the shared phonological shape plus semantic congruity between vertitive and possesive is surely no coincidence.

³¹ While English lacks the motion verb equivalent to the vertitive, the compound noun 'home-coming' is perhaps the closest in meaning and emotional power.

³² Scholars of related Siouan languages such as Assiniboine have also analyzed these verbs in terms of how they appear in traditional narratives, where the notion of 'belonging'/ home location also can be used to mean the place where a person or animal was located at the beginning of the story (by the river/point A), versus where they ended up later on (inside a cave/point B) (Cumberland2005).

3.6 Adverbials

There are basic adverbial morphemes that may combine to express a wide range of meanings, with parallels to the personal pronouns (both independent and bound) in recognizing not only distinct first and second persons ('I' vs. 'you'), but also 'we two (you and I),' dual inclusive.

3.6.1 Spatial elements

Baxoje-Jiwere identifies five distinct places relating to the discourse context:³³ 1) location of speaker 'my spot here' je-, 2) location of listener 'your spot' se-,³⁴ 3) shared area of persons conversing together 'our here' i- (location of both you and me), 4) 'there' ga-, beyond the immediate discourse zone, e.g. a distant but visible location, and 5) 'place beyond their sight (usually far away) hari- (similar to archaic English yonder). These spatial elements combine with morphemes that distinguish between a fixed spot close at hand (-gi), a stationary spot slightly further off (-da 'at there'), and motion toward a location (-gu 'to'). The directional sense of the prefix wa_{2b} - 'motion toward' may follow first or second person forms to complete the variety of distinctions recognized.

3.6.2 Negatives

Two basic forms can negate the main verb, $sk u \tilde{n} i$ 'not' and $\tilde{n} i n e$ '(be/have) nothing'. Thus, while the stative verb $p^h i$ 'be good' expresses a positive attribute, the opposite meaning results from adding $sk u \tilde{n} i$ 'not', giving $p^h i$ - $sk u \tilde{n} i$ literally 'goodnot'; 'no good, bad, ornery'. At the clausal level there can be additional ways to make it clear that something is false. (Cf. the section on syntax, especially the evidential enclitics in sentence final position.)

3.6.3 Time elements

While some Baxoje-Jiwere words for space do apply metaphorically to time, there are also specific temporal adverbs. They tend to occur at the beginning of the sentence, as in this verse from NAC prayer-song composed by the late George Washington Dailey (Otoe-Missouria):

 $^{^{33}}$ My M.A. thesis details the system of deixis in Baxoje-Jiwere (Hopkins1988).

³⁴ This form *se*- with initial /s/ representing second person is very likely related to the archaic 2AGT /s/ found in conjugations of some conservative (irregular) verbs also (Rankin2005b).

(17) Go:ċhi Hįyįno hį-ha-wi-yiyi now Our.Elder.Brother(male.spkr) 1PL.AGT-say-PL.DEF-chant 'Oh, My Lord, we're calling upon Your name, now.' (Davidson1997)

3.7 Other morphological processes

3.7.1 Sound symbolism

In Jiwere-Baxoje, there are two characteristics of such mimetic words that attempt to recreate certain sounds or material aspects of the world:

- a. Often they use fricatives, which sometimes form sets of related words which vary only in the fricatives' place of articulation.
- b. Many also are stative verbs, especially ones related to topics of color shade, intensity of hue, or other changes in sense perception, as in volume of noise, or roughness of texture.

This phenomenon is common in most Siouan languages, and can create interesting semantic sets differing by a single consonant sound (Rankin2005b). The "lighter/less intense" word is usually associated with a front and/or upper place of articulation, while the greatest intensity of meaning is found with the "deepest" back sounds. It has been documented for Hoocak and Dakota in particular. Baxoje-Jiwere sound symbolic vocabulary sets include those in Table 14.

Note also the terms for upper body noises with variation in the medial fricative: *hohga* 'to belch' [*ho* 'voice' plus sound symbolic *hga*]; *hoxga* 'to hiccup' [*ho* 'voice' plus sound symbolic *xga*].

Although this is not an exhaustive list, let me add my personal favorite, $h\acute{e}$? $\acute{s}i$ 'sneeze', which beautifully imitates the sound of sneezing, and takes an active/agentive conjugation. 36

3.7.2 Reduplication

Adult/standard reduplication Another kind of sound symbolism is reduplication, copying part (or all) of a particular word. If a stative verb such as a color is reduplicated, it means the color is scattered here and there (as in patches, spots, stripes), rather than in a continuous or "solid" distribution. For an active verb, it gives an iterative meaning, whereby gis'é 'drip' becomes gis'és'e 'drip several

³⁵ Dorsey's orthography for consonants retained here.

³⁶ Dorsey gave Dhegiha hé-tchi 'sneeze' (Kwapa hě-shi), and 'snore' zha-khdhú-de (Dorsey1892).

Table 14: Sound symbolism

šá-kh'e	 'swishing sound made in water' 'sound made by hitting or dragging of a chain'
thá-kh'e	(probably th = θ) 1) 'rattling of a rattlesnake'; 2) 1 rattling of corn in granary or in pile outside'
khó-kh'e	'ripping of calico, roar of falling water, sawing or scraping sound of tool on wood, whizzing of a whirled stick ('a bullroarer) (Dorsey1892)
to-tó-khe	'repeated sharp sounds, such as the crackling or snapping of twigs and small branches, or fre- quent gunshots'
tópě	'pattering sound', natótopě no gloss given (I posit 'the sound of dancing feet')
?é-ghe,	'the sounds of filing, grating, gnawing, or scratching on metal, bone, hard wood, etc.' (Dorsey1892) ³⁵
kh'é-ghe, kh'á-ghe, ká-ghe	'crow (bird, n.)' [initial syllable imitating crow's call] (Dorsey1892)

drops'. For less concrete activity, the reduplication can convey that the verb's action is somehow partial or incomplete. For example, the form $up^ha'p^harehi$ 'understanding only bits and pieces, imperfectly comprehending' comes from up^harehi 'to understand, notice, investigate'.³⁷ In Jiwere-Baxoje, reduplication seems to have been a very productive process.

Reduplication in baby talk In addition to adult reduplication, there is also "baby talk" or caretaker speech, a simplified version of ordinary phonological

³⁷ The latter example came from the late Rev. Arthur Lightfoot and Dr. Truman W. Dailey conversing about white missionaries' partial understanding of Indian beliefs at the Missouri Jiwere Language Project in July 1992.

forms. Based on the limited sample available, it appears to have involved producing an exact copy of a monosyllabic morpheme, such as CV-CV. If the word is polysyllabic, then everything after the first syllable would be deleted. Some of the morphemes have been so simplified that it is not always clear from which word the simplified "baby" form originated. However, the primary difference between adult reduplication and "baby talk" is semantic. The latter had no notion of something being repeated or scattered. Caretaker speech must have made it easier for little ones to learn to speak. Perhaps it originated as an adult imitation of the adorable way young children pronounce things themselves. Examples are in Table 15. Other items elicited include the repeated form + the normal diminutive suffix, -iñe 'little one': mamáiñe 'baby' (Ioway), haháiñe 'baby colt, horsey' (Davidson1997).

Table 15: Baby talk reduplication

dáda	'something to eat'
jíji	'hot (to touch)'
náną	'something forbidden because of potential danger or pain'
bobo	'penis' abbreviated from buje 'acorn cap, penis'

4 Word order/syntax

Baxoje-Jiwere is classified as an SOV language. However, a verb (for third person forms, a "plain" (uninflected) verb) may function as a grammatical sentence, ³⁸ since the independent pronouns are optional, and there is a \varnothing third person pronominal prefix corresponding to 'he, she, it.'

4.1 Noun phrases

4.1.1 Adjectival forms.

The head noun should come first in the noun phrase, followed by everything that describes it in any way, including stative verbs showing shape, color or size

³⁸ There also needs to be a final particle that tells the gender of the speaker, as well as how certain the speaker is of the information being given, and the way the listener should respond (by listening and talking, by obeying what was said, by joining in with the speaker). These S-final particles are discussed in a later part of the grammar.

('large, round, yellow'), which may also inflect as a main verb in other contexts, demonstrating they are not true adjectives.

4.1.2 Determiners, demonstratives, articles and more.

Determiners identify which person or thing is being discussed, if it is a specific individual(s) or a generic one, how many there are, and so forth. They include quantifiers, demonstratives, and at least one definite article and an indefinite article, which all follow their "head". So 'a white horse' when spoken in proper Baxoje-Jiwere order would be 'horse white a' \check{sune} \check{sune} \check{sune} \check{other} doe-Missouria. Quantifiers would begin with specific numerals, as well as other words relating to quantity of a group for countable objects and for animate beings ('few, many, all, most, ...') or for quantities of mass nouns such as flour, soup, water and so forth ('some, much, little, ...').

4.1.3 Article(s)

Indefinite article -yq, -iyq 'a, one' is derived from the word for 'one' $iy\dot{q}k^hi$.³⁹ Definite article is -ge.⁴⁰ *Gilbert-ge danine*. '(That) Gilbert was drunk (again)!'

While earlier researchers did not identify a definite article for Jiwere-Baxoje, it seems likely that this is an oversight, due to the relatively small amount of data collected, and its lack of frequency compared to the English definite article. There certainly needs to be further examination in this area, considering its complexity in other Siouan languages (Rankin1977; Rankin2005b RoodTaylor1996).

4.1.4 Interrogatives

Those words that are used to ask questions about quantity or number fall into this category.

tahéna 'how many, how much?' (tana in HamiltonIrvin1848) taheda 'how far?' danáha, danáhaje 'which?'⁴¹

³⁹ Lakota also utilizes the 'one' morpheme as an indefinite article (Ullrich2008).

⁴⁰ Until very recently I followed Marsh's (Marsh1936) analysis of Jiwere-Baxoje, which included no definite article. I would like to thank Johannes Helmbrecht (2015 p.c.), and Iren Hartmann (2008 p.c.), whose wonderful work on Hoocak and excellent questions about possible cognates in Jiwere have forced me to reconsider the function of -ge. I cannot explain how it was overlooked, except that its representation in the data collected was too infrequent to attract notice. More review of the existing data is needed to confirm the current interpretation.

⁴¹ Cf. the similarity of sound shape in the cognate set found in Lakota (**RoodTaylor1996**).

(18) Bi-rawe tahena ra-gusta ja? 'moon-count how.many 2P.AGT-want(irreg.verb.2/s-/) Q.FEM 'How many calendars do you want?'

4.1.5 Indefinite quantifiers

Such words give information as to scope, for instance which members of a collective group are included (or excluded) in the utterance. For example:

dáhi, áhi 'each, every' bróge 'all'

Table 16 presents the demonstrative pronouns paired with the corresponding deictic directional prefixes. Note the latter's strong parallels to and semantic association with discourse participants/persons in the context of the speech event.

Table 16: Comparison of demonstrative pronouns to deictic directional prefixes

Demo	Demonstrative Pronouns		etic Directional Prefixes (Hopkins1988)
je?e	'this one'	je- 1 LOC 'near me', 'this here'	
se?e	'this one	se-	2 гос 'near you' [also še- Ioway]
	[near you]'		
		i-	inclusive 12 Loc 'here'
e?e	'it is he/	e-	3 Loc 'near her/him/it'
	that one'		
are	'it is'	a-	*unattested; possible ablaut form of
			/e/ with re 'to go'
ga?e	'that one'	ga-	'there'

Aré 'it is' "points" back at something previously mentioned, and appears with great frequency in the texts collected by Gordon **Marsh1936** according to **HopkinsFurbee1989** It can be paired with the emphatic bound morpheme *-sų* 'indeed' (*aré?sų* 'indeed!' (emphatic)), and even 'stacked' with the first person deictic prefix *je-* 'this (here)' to give *járe* 'this one-it is', and other additional complex compounds.

4.2 Subordinate clauses

Main clauses normally occur sentence-finally, while subordinators(s) transform the first clause(s) into a supporting or modifying syntactic role, signaling duration, exact sequence of events, if events were actual or potential, etc. These subordinating particles include *-sge* 'if', *-da* 'when', *-sji* 'but, although', *nu?a* 'but'. The temporal particle fills that function as follows:

(19) Hįyįno| wo-waxoñitą rithawe urakhi-ne
'Our.Elder.Brother| ceremony-sacred your they.tell.about-INDEF.PL
da| wa?ų waruphi Rire [∅] a-ne (h)na
when| the.work wonderful(it.does) you 3- say-INDEF.PL Imperfect.'
'Elder Brother, when they tell about Your ceremony and the wonderful
work it does, they say it's You.'

This complex sentence begins with a kin tem (addressed to Jesus), a subordinate clause indicated by subordinator -da 'when', then finally the main clause (Davidson1997).⁴²

4.2.1 Relative clauses.

The Baxoje-Jiwere language tends to place the head noun first within the relative clause. An optional special marker $-naha^{43}$ 'the one(s) that X' immediately follows the clause it acts upon, as in $hinage\ at^ha\ naha$ 'the woman that I saw' (lit. 'woman I saw (her) that one').

- (20) a. Relative clause as the object of the sentence:

 John hinage at^ha naha $uk^hi\check{c}'e$ k^he .

 John woman I.saw.(her) that.one (he)spoke.with.(her) MASC.DECL 'John spoke with the woman that I saw.'
 - b. Relative clause as the subject of the sentence: $Hinage~at^ha~naha~John~uk^hič'e~k^he.$ Woman I.saw that.one John (she).spoke.with.(him) MASC.DECL 'The woman that I saw spoke with John.'
 - c. Relative clause as the direct object of the verb phrase:

 Sam wawagaxe hapagaxe naha araje khe.

 Sam book I.wrote.it that-one (he).read.it MASC.DECL

 'Sam read the book that I wrote.'

⁴² Edward Small (Ioway) composed this song after being healed during a NAC worship service.

⁴³ **DorseyNDChiwere** gave daha as another potential relative clause marker, in an example sentence referring to an object rolling under a tent flap that was not fastened down: $t^h q$ gri were daha, $ru\theta ewi$ re 'That which has gone outside, get ye' (spelling and punctuation adapted to modern conventions). Further study on Jiwere-Baxoje demonstratives' potential relationship to positional verbs in a classificatory system is very much needed (Cf. Rankin2005b).

Because the relative clause marker is optional, and the $3^{\rm rd}$ person pronoun is zero, it can be difficult to translate some sentences, even though the general meaning is clear.

4.3 Conjoined clauses

The conjunction *heda* 'and' may occur at the beginning of the second sentence. Within more rapid speech sequences, it is common to instead have the particle *-na* 'and' occur at the end of the first main clause, separating it from the one to come.

4.4 Beyond statements: Other kinds of sentences

4.4.1 Directives/requests/commands.

These ways to "boss" others are linguistically interesting because many languages omit both first person and verb stating 'I am telling you' to do something. Sometimes second person form is also omitted. The "pragmatic skewing" occurs because overt first and second person forms may be considered too direct, and thus rude (Heath1998). This politeness pattern holds true with Baxoje-Jiwere directives. One speaks to children in a more direct manner than adults, since few question the authority of parents/elders to tell kids what to do. If speaking to an adult, it would be more polite to use a different form, $ne/n\varepsilon$. However, songs demonstrate expressing a plea with the stronger command particle, re:

(21) Hįyįno wa-a-wa-da-wi re
Our.Elder.Brother 1PAT-look.at-DEF.PL [command (male speaker)]
'Elder Brother, look at us!' (Davidson1997)

Finally, one may make a very polite request by using the dual/first person inclusive plural form with hortative enclitic $t^h o$. 'Let us all call on the Creator's name', or 'Let's go to the handgame!'

4.4.2 Questions

There are three ways to correctly form questions:

a. Declarative sentence + sentence-final question particle. Word order does not vary; it is an evidential ending particle that signals an answer is expected, because the speaker is asking, not telling something. As with many of

- these ending particles, the exact form varies by the speaker's gender: $\check{\textit{\textit{je}}}$ 'Q (male speaker)' / $\check{\textit{\textit{\textit{ja}}}}$ 'Q (female speaker)'.
- **b.** By using interrogatives such as *wayé:re* 'who (is it)?' or *dagú:re* 'what (is it)?' The interrogative word receives the special question-sentence melodic contour, which includes lengthening the stressed vowel greatly and making its pitch higher, plus pronouncing the final syllable's pitch lower than usual.
- **c.** Finally, one can create a question by simply omitting all S-final particles, and using the interrogative intonation pattern. See (25b) below. In Ioway/Otoe-Missouria speech, the question pattern is made with a much longer (and slightly higher pitched) vowel in the penultimate syllable of the sentence, and a drop to a lower pitch in the last syllable.
- (22) a. Wabúθga ra-gústa jà? bread 2sg-want(it) Q.female.speaker 'Do you want any bread?'
 - b. Wabúθga ra-gú:sta?bread 2sG-want(it)'You want some bread?'
 - c. Ra-gústa dagúre? 2sG-want(it) what(is.it) 'What (do) you want?' or 'You want what?'

5 Variation in speech by social group

5.1 Tribal identity and language use

The Otoe-Missouria and Ioway people spoke mutually intelligible dialects of one language. After a devastating enemy attack in the late 18th century, most surviving Missouria fled from their village in Missouri to the Otoe village in southeast Nebraska (Schweitzer2001). Geographic separation between these two tribes ended about forty years before any language records exist. Although recognition of a leader, "Missouri Chief," is documented in Indian Territory ca. 1885,⁴⁴ there is no data on unique Missouria dialect features.⁴⁵ At the phonological level,

⁴⁴ Cf. the diary of Miss Emma DeKnight, who taught at the Otoe tribal boarding school at that time (DeKnight ms., University of Oklahoma Archives, Norman, OK).

⁴⁵ J. O. Dorsey identified a tiny bit of data as specifically Missouri, but it related to only a single speaker, so I prefer to avoid any discussion of the Missouri dialect at present.

general tendencies have been noted (Table 17). It is not as simple as always substituting one sound for another, yet listeners certainly noticed the distinctions. 46

Table 17: Dialect differences

I. Phonological variation	Baxoje	Jiwere			
A. Difference in fricatives:					
1. Word initially	[š]	[s]			
	š úñe	súŋe			
	'horse'	'horse'			
2. In consonant clusters					
a) before [g]	[sg/hg]	$[\theta g]$			
	wahge	waθge			
	'dish/plate'	'dish/plate'			
	hga	θ ga			
	'(be) white'	'(be) white'			
b) before [j]	[ʔj̆/hj̆]	[sj]			
	ną ? je, ną h je	ną s je			
	'heart'	'heart'			
B. Difference in nasal consonants:					
1. Medial position, esp. before final -e	$[\tilde{\mathbf{n}}]$	[ŋ]			
	č ^h idói ñ e	č ^h idói ŋ e			
	'little boy'	'little boy'			
II. Select lexical differences					
A. Nouns:	mamáiñe	šúwe			
	'little baby'	'little baby'			
B. Interjections:	sik'	dąrah			
	'incredible!'	tan-rah (Marsh1936) 'incredible!'			

⁴⁶ There has been intermarriage for a long time, so 100% dialect consistency for a speaker would be very unlikely, regardless of tribal membership. Dialects may be a matter of tendencies, rather than always/never. Family members might use different speech within a household, such as Mr. and Mrs. Small, Ioway and Otoe respectively. The couple understood each other but didn't speak exactly the same (Marsh1936).

5.2 Gender marked speech

Three distinct lexical sets signal speaker's gender.

- 1. Kinship The first set is kin terms as outlined in Goodtracks' dictionary. Gender is distinguished not only of referent (mother vs. father, etc.) but certain terms vary by sex of speaker as well, especially siblings' words for each other and words for one's in-laws. Birth order establishes seniority and thereby determines respect relationships, and is reflected in words denoting sons, daughters, and siblings, which served as familial address terms.
- 2. Sentence final particles The second set of gender-indexical terms distinguish between declarative statements, requests, 47 commands, dubitatives, quotatives, and more. 48 These important enclitics audibly punctuate the sentence, informing the listener how to interpret the speech segment. (See Table 18. The list may not be exhaustive.) These enclitics occur in combination with each other, especially when expressing emphasis: $k^h e \ hu$? 'Indeed!'('This I declare! male speaker').

Note that a narrator will use the character's gender marker during dialogue, rather than indexing his or her own identity. Based on the songs I collected, while mixed gender singing does occur (females may join in during various worship and powwow songs), it is the men who traditionally begin the songs, and texts reflect that with male forms.

3. Interjections The final morpheme set indexes a speaker's gender, and is usually sentence initial. (See Table 19.) It is sometimes only a subtle difference, such as a final vowel shift, while other forms show little apparent derivational relationship between the two forms at all.

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⁴⁷ Earlier scholars have often called the "inclusive request" form in Table 18 the HORTATIVE. marker, related to the rather old-fashioned word to "exhort" someone to do something.

⁴⁸ **Trechter1995** presents a thorough analysis of gender enclitics, including the circumstances where a speaker's gender was not the determining factor, for various pragmatic and contextual reasons, including quoted speech.

⁴⁹ Dorsey's manuscripts (**DorseyNDChiwere**) gave the male declaratives as distinguished by tribe, with kei as the Otoe form and ke as Ioway, while he listed k^hi 'Ioway female declarative', but hq for Otoe women's equivalent.

Table 18: Sentence final particles showing mood, evidentiality and gender

S-final particle type	Male speaker	Female speaker
Declarative 1	k ^h e	k ^h i
Declarative 2	k'a	hą
Completed Action 'not continuing into		
present' (DorseyNDChiwere)		
Inference (2nd hand source)	no	na (?)
'I think'		
Command	re	rε, ræ
Polite Command	ne	nε
Inclusive request	t ^h o , dáhò, hda?o	t ^h a
'Let us' /		
'Would that'		
Question marker (optional)	j́е	jа
Tag question	?a	k?a
Narrative marker 'It seems'	asgų	asgų
Quotative	?e	?ε
Emphatic	hų?	æ, ?a, ?
Surprise/excitement	t'o	t'ų:
'Exclamation point!'		
(DorseyNDChiwere)		

902-1337], APS "Chiwere Oral Traditions" [Jill D. Greer, P.I.], as well as linguistic consulting work with Jimm GoodTracks, P.I. for his dictionary project [NSF "Ioway-Otoe-Missouria Dictionary Project" BNS 0553585].

Abbreviations

1, 2, 3 = first, second, third person; 12 = first+second person (first person dual); AGT = agent; AUX = auxiliary; BEN = benefactive; CAUS = causative; DAT = dative; DECL = declarative; DEF = definite; DIM = diminutive; DIR = directional; DU = dual; EMPH = emphatic; EXT = extended; FEM = feminine; HORT = hortative; IMP = imperative; INDEF = indefinite; INCL = inclusive; LOC = locative; MASC = masculine; NOM = nominalizer; OBJ = object; ORD = ordinal; PAT = patient; PL = plural; POSS = possessive; PRON = pronoun; Q = question; SG = singular.

Table 19: Interjections showing mood and gender

Interjection gloss	Male speaker	Female speaker
	Wale speaker	Temale speaker
'Oh, my!' (Pity, love, sympathy, compassion)	hé:hą	inà:, hina:
'Say! Hey!' (Change subject)	kàró	unknown
Joy, Happiness (while singing or talking)	íyà	íyà ^a
Greeting/Acknowledgement, Thank you! Approval/Sanction	ahó, hó	ahá, há
'Hmph! Aw, Heck!' (critical/doubtful; prior speaker isn't telling it right)	dε? ^b	he?
'Well! (GT) Whew!' (Almost!; something nearly happened, but didn't, either good or bad)	gwí, kwí	hí
'Well, well [Whitman]; Oh, my!' (negative response, as in niece/nephew teasing uncle/aunt too harshly; surprised in a bad way)	hé:hą ^c	hára?
'My goodness! Surely not! No way!' (Negative response; surprise, shock)	bá?, huba?, hú? húba? (L-R in order of increasing emphasis)	dó?, dó?ò (greater em- phasis) ga: (Rankin2009)
'Yes' (Affirmative)	hújé	hújè
'No' (Negative)	hiñégo	hiñéga

 $[^]a$ Not traditionally female but some use it now. b Both male and female forms = short vowel [ϵ]

^c also glossed as doubting truth

+5	ASP MOOD	=hna 'future, incom- pletive'
+4	PL2	=wi 'definite'
+3	PL1	= ne 'gen' 'gen' [Whit-man's midefi-nite]
+2	NEG	= 8g ún j 'not'
+	CAU	'make, cause' [+pers. afffixes]
0	VERB STEM	
-1	Arch 2Pers	-
-2	INS	ba- 'by cutting' bo- 'with a blow' da- 'by heat or cold' 'by heat or cold' 'with obj. away from self, push- ing with something' nq 'by foot' ri2- 'by foot' ri2- 'by mouth/teeth' ri2- 'with obj. mouting nu ru- 'with hand toward self, pulling with something' nu- 'with hand toward self, pulling with something' nu- 'with hand away. by pushing was- 'with hand away, by pushing
-3	DAT BEN	'for, to'
-4	POS	gya- ome's own'
-5	REF	κ_{h}^{i} .
9-	AGT Actor	ha, he- 1SG ra-, re- 2SG a- 3PL motion verbs
-7	PAT OBJ	hi- 1SG wa _{1b} - ni- 2SG
∞	TOC	a-'on' ; ; -'at' y -'in' u-'in'
6-	INDEF	waga- a-'on 'them, something; i-'at' indefinitely ex- u-'in' tended object' waga- 'toward', directional
-10	PRO	hi- 12AGT wa _{la} - 1PL-PAT

Figure 1: Verbal template: Prefix slots in order = verb = suffix slots

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Back Title

The Siouan family comprises some twenty languages, historically spoken across a broad swath of the central North American plains and woodlands, as well as in parts of the southeastern United States. In spite of its geographical extent and diversity, and the size and importance of several Siouan-speaking tribes, this family has received relatively little attention in the linguistic literature and many of the individual Siouan languages are severely understudied. This volume aims to make work on Siouan languages more broadly available and to encourage deeper investigation of the myriad typological, theoretical, descriptive, and pedagogical issues they raise.

The 17 chapters in this volume present a broad range of current Siouan research, focusing on various Siouan languages, from a variety of linguistic perspectives: historical-genetic, philological, applied, descriptive, formal/generative, and comparative/typological. The editors' preface summarizes characteristic features of the Siouan family, including head-final and "verb-centered" syntax, a complex system of verbal affixes including applicatives and subject-possessives, head-internal relative clauses, gendered speech markers, stop-systems including ejectives, and a preference for certain prosodic and phonotactic patterns.

The volume is dedicated to the memory of Professor Robert L. Rankin, a towering figure in Siouan linguistics throughout his long career, who passed away in February of 2014.