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Index of norms and ratings published in the Psychonomic Society journals

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The journals of the Psychonomic Society have served as outlets for numerous stimulus norms and ratings. Such norms are useful to researchers in a variety of areas for manipulating and controlling stimulus attributes. This article presents an index of 142 norms published in the Society's journals, categorized according to the types of materials and ratings that are included in each.

In many areas of psychological research, stimuli must be selected according to some attribute to achieve appropriate experimental control. Stimuli may be selected with respect to an attribute in order to use it as an independent variable, to avoid confounds of it with other variables of interest, or to examine the effects of it in relation to other variables. For example, it is customary to manipulate frequency of use as a factor, or to control for it as a potentially confounding variable, when one is examining perception or memory of words (e.g., Rao & Proctor, 1984). This is typically accomplished by consulting word frequency norms, such as those developed by Kučera and Francis (1967). Numerous other properties of words, letters, pictures, symbols, and so forth, are of interest as well, and careful selection of stimuli according to a number of attributes is often necessary. Over the years, many norms for stimulus materials have been published to enable researchers to select stimuli that satisfy the desired constraints.

Since the 1960s, the Psychonomic Society's journals have served as repositories for norms and ratings of various types. In the late 60s and early 70s, a large portion of the *Psychonomic Monograph Supplements* was devoted to such norms. In more recent years, *Behavior Research Methods, Instruments, & Computers* (*BRMIC*) has been the journal in which most norms are published, although norms have occasionally appeared in the other journals as well. Given the vast collection of norms that have been published in the journals, it should be of value to researchers to have an index of them. The purpose of this paper is to provide such an index, alphabetized by author, along with a table that classifies the norms according to their content.

The index follows in the tradition of Brown's (1976) catalog, which contains detailed information summarizing 172 studies that present information on scaled verbal materials, and Bradshaw's (1984) guide, which provides an index of 119 studies, mostly post-1960, that include norms, scales, ratings, or lists of verbal materials for use in experiments. Our index differs from theirs in not being restricted to verbal materials and in listing only articles published in *BRMIC* and the other Psychonomic journals. These journals include *Memory & Cognition*, *Perception & Psychophysics*, *Psychonomic Bulletin & Review*, and its earlier incarnations, *Psychonomic Science* and the *Bulletin of the Psychonomic Society*, as well as the *Psychonomic Monograph Supplements* mentioned above. In addition to searching the indexes of each volume of the respective journals, we consulted the earlier norm indexes by Brown and Bradshaw. We also searched PsycINFO, using the keywords *norms*, *ratings*, *confusion matrices*, and their variants. Our primary criterion for inclusion of articles was that they report characteristics for a stimulus set that might be of use and value to researchers. The index should be relatively complete, although it certainly is possible that some norms were overlooked.

The entries in the index itself are presented in alphabetical order by author. In addition, the articles are classified in Table 1 according to the following categories for the English Language: Word Frequency; Word Associations; Word Meanings; Anagrams and Completion Norms; Grapheme–Phoneme Correspondence; Imagery, Concreteness, Familiarity, and Related Measures; Letter Frequency; Letter Strings; Homographs, Homophones, and Homonyms; Typicality and Category Judgments; Names; Pictures and Symbols; Alphabetic Confusion Matrices; and Recall and Recognition. In addition, categories for Word and Picture Norms for Languages other than English and Other (norms that do not fit into the categories above) are included. For each study in a category we have indicated the characteristics of the stimuli that were scaled and the size of the corpus. Abstracts of the studies are not included, as in Brown's (1976) article, because of the widespread availability of computerized indexing services such as PsycINFO, which can be consulted if more information about the norms in question is desired.

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REFERENCES

BLOOM, P. A., & FISCHLER, I. (1980). Completion norms for 329 sentence contexts. *Memory & Cognition*, **8**, 631-642.

BRADSHAW, J. L. (1984). A guide to norms, ratings, and lists. *Memory & Cognition*, **12**, 202-206.

BROWN, A. S. (1976). Catalog of scaled verbal material. *Memory & Cognition*, **4** (1B), 1S-45S.

KENT, G. H., & ROSANOFF, A. J. (1910). A study of associations in insanity. *American Journal of Insanity*, **67**, 37-96, 317-390.

KUČERA, H., & FRANCIS, W. N. (1967). *Computational analysis of present-day American English*. Providence, RI: Brown University Press.

PALERMO, D. S., & JENKINS, J. J. (1964). *Word association norms: Grade school through college*. Minneapolis: University of Minnesota Press.

RAO, K. V., & PROCTOR, R. W. (1984). Study-phase processing and the word frequency effect in recognition memory. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, **10**, 386-394.

RUSSELL, W. A., & JENKINS, J. J. (1954). *The complete Minnesota norms for responses to 100 words from Kent–Rosanoff word association test* (Tech. Rep. No. 11, Contract N8-ONR-66216, ONR). Minneapolis: University of Minnesota Press.

SNODGRASS, J. G., & VANDERWART, M. (1980). A standardized set of 260 pictures: Norms for name agreement, image agreement, familiarity, and visual complexity. *Journal of Experimental Psychology: Human Learning & Memory*, **6**, 174-215.

THORNDIKE, E. L., & LORGE, I. (1944). *The teacher's word book of 30,000 words*. New York: Columbia University, Teachers College, Bureau of Publications.

UNDERWOOD, B. J., & SCHULZ, R. W. (1960). *Meaningfulness and verbal learning*. Chicago: Lippincott.

Table 1
Categories of Norms and Ratings

Study	Category	Corpus
	WORD FREQUENCY	
Bowen (1971)	Printed frequency	420 conceptual nouns
Brown (1984)	Conversational frequency	190,000 words
Keenan & Benjafield (1994)	Availability (the frequency with which a word is used in the definition of other words)	*Oxford English Dictionary*
Rudell (1993)	Frequency of word usage and perceived word difficulty	Four sets of 50 words from Kučera and Francis (1967)
	WORD ASSOCIATIONS	
Amster (1967)	Associative responses to mutually related pairs of words for children and adults	Word pairs from Russell and Jenkins (1954) and Palermo and Jenkins (1964) norms
Biersdorff & Solso (1973)	Word associations labeled by responses	Recodified Palermo and Jenkins (1964) word association norms
Duncan & Wood (1966)	Successive word associations	20 Kent–Rosanoff (1910) words
Garskof, Houston, & Mednick (1967)	Single and multiple associations: Overlap and direct associative strength values	480 word pairs
Geen & Stonner (1975)	Associates to verbs connoting violence	20 words
Gerjouy & Gerjouy (1965)	Word associations for institutionalized adolescent retardates	100 Kent–Rosanoff (1910) words
Lovelace, Reid, & Hunt (1981)	Free associations to conceptually structured word triads for elementary school, high school, and college students	40 word triads
S. S. Shapiro (1966)	Word association norms for 12- to 13-year-olds	82 words
S. I. Shapiro & Palermo (1968)	Atlas of normative free association data	20 collections of normative discrete free association data
Stark (1972)	Synonym responses to words that have synonyms as their free association primaries	100 words
Tresselt & Mayzner (1964)	Word association norms as a function of age from 18 to 87 years	Kent–Rosanoff (1910) words
Winters & Kahn (1970)	Word association norms for adolescent mental retardates, grade school, and undergraduate normals	200 words
Winters & Kahn (1971)	Word association norms for adolescent mental retardates and normal children	200 words
	WORD MEANINGS	
Britton (1978)	Lexical ambiguity as indicated by number of meanings	257 words
Dale & Fenson (1996)	Lexical development norms for young children	680 words
Ferraro & Kellas (1990)	Subjective number of meaning for words and pseudowords	576 words and orthographically legal pseudowords
Griffin (1999)	Frequency of meaning use for ambiguous and unambiguous words	211 words
Nickerson & Cartwright (1984)	Generated meanings for words	90 words
Roberts (1968)	Meaningfulness of sense impression adjectives	40 sense impression adjectives
Solso (1971)	Meaningfulness ratings for colors and color words	10 colors and 10 color words
Wilson (1988)	MRC psycholinguistic database	150,837 words and 26 linguistic and psycholinguistic attributes

Table 1 (Continued)

Study	Category	Corpus
	ANAGRAMS AND COMPLETION NORMS	
Bloom & Fischler (1980)	Completion norms for sentence contexts	329 sentence contexts
Erickson, Gaffney, & Heath (1987)	Difficulty and familiarity norms for single-solution word fragments	192 word fragments
Gibson & Brooks (1993)	Word fragments with unique completions	4,741 word fragments
Gibson & Watkins (1988)	Word fragments with unique completions	1,086 word fragments
Graf & Williams (1987)	Completion norms for three-letter word stems	40 three-letter word stems
Hamberger, Friedman, & Rosen (1996)	Completion norms for sentence contexts from young and older adults	198 sentence contexts
R. Olson & Schwartz (1967)	Single and multiple solutions for five-letter words	3 lists (five-letter words)
Schwanenflugel (1986)	Completion norms for final words of sentences	Subset of Bloom & Fischler (1980) sentence-completion norms
Shaw (1997)	Unprimed word-stem completion norms	914 multicompletion three-letter word stems
Tresselt & Mayzner (1966)	Solution times for solution words and associated anagrams	134 solution words and 378 associated anagrams
	GRAPHEME–PHONEME CORRESPONDENCE	
Berndt, Reggia, & Mitchum (1987)	Probabilities for grapheme-to-phoneme correspondences	17,310 English words
Cowan (1986)	Consonant-cluster–free monosyllabic words	Matrix of English phonemes
Martin, Jones, Nelson, & Nelson (1981)	Words with multiple phonemic representations	52 strong and 62 weak heteronyms; 246 polyphones
Ziegler, Stone, & Jacobs (1997)	Database for feedforward inconsistency (multiple ways to pronounce a spelling) and feedback inconsistency (multiple ways to spell a pronunciation)	2,694 monosyllabic words
	IMAGERY, CONCRETENESS, FAMILIARITY, AND RELATED MEASURES	
Altarriba, Bauer, & Benvenuto (1999)	Imagery, concreteness, context availability, and word associations	155 abstract words, 100 concrete words, and 71 emotion words
Benjafield, Frommhold, Keenan, Muckenheim, & Mueller (1993)	Imagery, concreteness, goodness, and familiarity	500 proverbs
Benjafield & Muckenheim (1989)	Imagery, concreteness, goodness, and familiarity	1,046 words from the *Oxford English Dictionary*
Friendly, Franklin, Hoffman, & Rubin (1982)	Imagery, concreteness, orthographic variable, and grammatical usage	1,080 words from Toronto Word Pool
Gilhooly & Hay (1977)	Imagery, concreteness, age-of- acquisition, familiarity, and meaningfulness	205 five-letter words with anagram solutions
Gilhooly & Logie (1980a)	Age-of-acquisition, imagery, concreteness, familiarity, and ambiguity	1,944 words of varying length and frequency
Gilhooly & Logie (1980b)	Meaning-dependent imagery, age of acquisition, familiarity, and concreteness	387 ambiguous words
Hunt (1978)	Imagery for taxonomic categories	90 category names
Kerr & Johnson (1991)	Familiarity, concreteness, meaningfulness, imageability, imagery modality, and word associations for blind and sighted people	161 nouns
Stratton, Jacobus, & Brinley (1975)	Age-of-acquisition, imagery, familiarity, and meaningfulness	543 five- and six-letter words
Walker (1970)	Imagery ratings	338 nouns
	LETTER FREQUENCY	
Gilhooly (1978)	Bigram statistics	205 five-letter words with single solution anagrams
Mayzner & Tresselt (1965)	Single-letter and bigram frequency	20,000 English words
Mayzner, Tresselt, & Wolin (1965a)	Trigram frequency	20,000 English words
Mayzner, Tresselt, & Wolin (1965b)	Tetragram frequency	20,000 English words
Mayzner, Tresselt, & Wolin (1965c)	Pentagram frequency	20,000 English words
Solso (1979)	Positional frequency and versatility of letters	Six-, seven-, and eight-letter words from Kučera and Francis (1967) norms
Solso, Barbuto, & Juel (1979)	Bigram and trigram frequencies and versatilities	577 bigrams and 6,140 trigrams
Solso & Juel (1980)	Positional frequency and versatility of bigrams	577 bigrams

Table 1 (Continued)

Study	Category	Corpus
Solso & King (1976)	Frequency and versatility of letters and letter combinations	Kučera and Francis (1967) norms
Stadtlander (1997)	Word neighborhood and frequency	800 words
Topper, Macey, & Solso (1973)	Brigram versatility and frequency	Thorndike–Lorge (1944) and Underwood & Schulz (1960)
	LETTER STRINGS	
	CCCs, CVCs, and CVCVCs	
Costantini & Blackwood (1968)	Meaningfulness ratings	343 CCC trigrams
Hunt (1977)	Meaningfulness values	300 CCC trigrams
Ley & Karker (1974)	Pronunciabilty ratings	319 CVCVC words and paralogs
Ley & Tesiny (1975)	Associative reaction time, meaningfulness, and pronunciability ratings	382 CVCVCs and paralogs
Lippman & Kintz (1968)	Ranks for pronunciability and ease of learning	20 CVC trigrams
Noble (1967)	Pronunciability ratings	100 CVC trigrams
Nodine & Hardt (1969)	Pronunciation latencies for CVC trigrams	2,100 CVC trigrams
Scott & Baddeley (1969)	Acoustic confusability values	1,172 CCC trigrams
S. S. Shapiro (1964)	Meaningfulness values for grade-school-aged children	52 CVC trigrams
Taylor (1970)	CVC trigram meaningfulness	210 trigrams and 20,000 words
	Letter Sequences and Approximation to English	
Hirata & Bryden (1971)	Letter sequences varying in approximation to English	100 10-letter sequences
Lachman & Laughery (1965)	Letter association and sequence norms	All letters of the alphabet
Rubin (1981)	Order approximation and orthographic neighborhood ratio	925 nouns
	Other	
Amster & Keppel (1966)	Letter association norms for children	26 single-letter and 676 double-letter stimuli
Jones (1980a)	English palindromes (strings of letters that spell the same word forward or backwards)	81 palindromes from *Chambers Twentieth Century Dictionary*
Jones (1980b)	Heteropalindromes (strings of letters that form words when read forward and backward)	145 heteropalindromes
	HOMOGRAPHS, HOMOPHONES, AND HOMONYMS	
	Homographs	
Azuma (1996)	Familiarity and relatedness among meanings	110 homographs
Gawlick-Grendell & Woltz (1994)	Meaning dominance norms	120 homographs
Geis & Winograd (1974)	Semantic encoding variability	50 homographs
Gorfein, Viviani, & Ledo (1982)	Four continuous word associations to each homograph	107 homographs
Nelson, McEvoy, Walling, & Wheeler (1980)	Meaning dominance norms	320 homographs
Twilley, Dixon, Taylor, & Clark (1994)	Relative meaning frequency	566 homographs
Warren, Bresnick, & Green (1977)	Definitional dominance	20 English homographs
Wollen, Cox, Coahran, Shea, & Kirby (1980)	Frequency and concreteness of homograph meanings	120 homographs
	Homophones and Homonyms	
Ferreira & Cutting (1997)	Pictures and questions for elicitation of homophones	93 pictures and 108 questions
G. A. Olson & Kausler (1971)	Orthographic distinctiveness of homonyms	139 homonym pairs
Whalen & Zsiga (1994)	Subjective familiarity of English word/name homophones	40 homophones
	TYPICALITY AND CATEGORY JUDGMENTS	
	Typicality	
Ashcraft (1978)	Property norms for typical and atypical items	121 words, 17 categories
Bjorklund, Thompson, & Ornstein (1983)	Category typicality norms for 12 natural language categories for kindergarten, third-grade, sixth-grade, and college students	12 natural languages
Chiarello, Shears, & Lund (1999)	Imageability and distributional typicality measures	1,197 words

Table 1 (Continued)

Study	Category	Corpus
Gruenenfelder (1984)	Typicality ratings for exemplars and categories	893 exemplars of 93 categories
Katz (1983)	Dominance and typicality norms	170 nouns and 459 properties
Maridaki-Kassotaki (1997)	Family resemblance scores of category members used to derived typicality ratings for young children and adults	4 categories of 12 words
Uyeda & Mandler (1980)	Prototypicality norms for semantic categories	840 words and 28 categories
	Category	
Chaffin & Herrmann (1981)	Ratings of antonymy, synonymity, subordination, coordination, and similarity for word pairs	2 sets of 20 stimulus pairs
Hunt & Hodge (1971)	Category-item frequency, and category-name meaningfulness	84 categories
Loess, Brown, & Campbell (1969)	Norms for items in taxonomic categories	30 taxonomic categories
Posnansky (1978)	Category norms for children Grades 2–6	25 categories
S. I. Shapiro & Palermo (1970)	Conceptual organization and class membership	100 conceptual categories
	NAMES	
Conley, Burgess, & Hage (1999)	Two corpora of proper names, one based on U.S. phone book listing, and the other derived from a database of Usenet text	More than 10,000 names from the U.S. phone book corpus and more than 5,000 names from the Usenet-based corpus
Surprenant et al. (1999)	Familiarity and pronunciability of nouns and names	199 surnames and 199 nouns
Zechmeister, King, Gude, & Opera-Nadi (1975)	Ratings of frequency, familiarity, orthographic distinctiveness, and pronunciability	192 surnames
	PICTURES AND SYMBOLS	
	Snodgrass and Vanderwart Pictures	
Berman, Friedman, Hamberger, & Snodgrass (1989)	Name agreement, familiarity, and visual complexity of line drawings for children and adults	62 Peabody Picture Vocabulary Test–Revised and 259 Snodgrass and Vanderwart (1980) pictures
Snodgrass & Poster (1992)	Visual-word recognition threshold for screen-fragmented names	Names corresponding to Snodgrass–Vanderwart's (1980) pictures
Snodgrass & Yuditsky (1996)	Naming times and age-of-acquisition ratings for pictures	250 Snodgrass–Vanderwart's (1980) pictures
	Objects, Symbols, Figures	
Boutsen, Lamberts, & Verfaillie (1998)	Recognition times for depth-rotated objects	56 depth-rotated objects
Danks (1972)	Associative responses to novel figures	22 novel figures
de Bruijn, McDougall, & Curry (1999)	Database for selection of icon and symbol sets	ESPbase
McDougall, Curry, & de Bruijn (1999)	Concreteness, complexity, meaningfulness, familiarity, and semantic distance for symbols	329 symbols
Verfaillie & Boutsen (1995)	Full-color images of depth-rotated objects, with up to 11 perspective views of each object	714 full-color images of depth-rotated objects
	ALPHABETIC CONFUSION MATRICES	
	Visual	
Boles & Clifford (1989)	Upper- and lowercase alphabetic similarity	2,704 letter pairs
Geyer (1977)	Recognition and confusion of lowercase alphabet	Lowercase letters of the alphabet
Geyer & Gupta (1981)	Confusion matrices for dot matrix and conventional font capital letters	9 letters
Keren & Baggen (1981)	Feature list for uppercase letters based on interletter confusion matrices	Uppercase letters of the alphabet
Townsend (1971a)	Alphabetic confusion matrix for individuals	Uppercase letters of the alphabet
Townsend (1971b)	Alphabetic confusion matrix	Uppercase letters of the alphabet
van der Heijden, Malhas, & van den Roovaart (1984)	Interletter confusion matrix for continuous-line capital letters	Uppercase letters of the alphabet
	Tactile and Auditory	
Craig (1979)	Confusion matrix for tactually presented letters	Uppercase letters of the alphabet
Kikuchi, Yamashita, Sagawa, & Wake (1979)	Confusion matrix for tactile letters generated by a 17 × 17 matrix of tactile stimulators	Uppercase letters of the alphabet
Loomis (1974)	Tactile letter recognition under different modes of stimulus presentation using a 20 × 20 matrix of vibratory tactors placed against the back	Block capital letters

Table 1 (Continued)

Study	Category	Corpus
Loomis (1982)	Confusion matrices for Braille letters and characters presented as touch stimuli and visual stimuli	Uppercase letters and Braille characters
Manning (1977)	Auditory and visual similarity of consonants	English consonants and consonant letter triplets
	RECALL AND RECOGNITION	
Bell & Shapiro (1971)	Norms for organizational strategies in free recall	48 lists of 16 unrelated words
Butler & Biner (1990)	Recall norms of common spaces and activities	40 spaces and 123 behaviors
Christian, Bickley, Tarka, & Clayton (1978)	Measures of free recall of nouns	900 English nouns
Stadler, Roediger, & McDermott (1999)	Norms for word lists that create false memory	36 word lists
	WORD AND PICTURE NORMS FOR LANGUAGES OTHER THAN ENGLISH	
	Chinese	
Mou & Anderson (1981)	Sets of Chinese characters and their pronunciations that varies as a function of whether the vowel is the same or different and the radical is the same or different	4 sets of 12 characters
Rickard Liow, Tng, & Lee (1999)	Semantic and phonetic regularity in Mandarin for China, Singapore, and Taiwan	256 semantic and 96 phonetic compound characters
	French	
Alario & Ferrand (1999)	Name agreement, familiarity, visual complexity, image variability, and age of acquisition for French	400 pictures
Peereman & Content (1999)	Orthography–phonology statistics for French monosyllabic words	LEXOP lexical database
Ziegler, Jacobs, & Stone (1996)	Database for feedforward inconsistency (multiple ways to pronounce a spelling) and feedback inconsistency (multiple ways to spell a pronunciation)	Monosyllabic French words from the database
	Spanish	
Algarabel, Ruiz, & Sanmartin (1988)	University of Valencia's computerized word pool	16,109 Spanish words
Cuetos, Ellis, & Alvarez (1999)	Naming times for pictures in Spanish	Snodgrass–Vanderwart (1980) pictures
Sanfeliu & Fernandez (1996)	Picture standardized for Spanish for name agreement, image agreement, familiarity, and visual complexity	254 Snodgrass–Vanderwart (1980) pictures
Santiago, Justicia, Palma, Huertas, & Gutiérrez (1996)	Surface word forms in Spanish	Spanish linguistic database
	Welsh	
Fear (1997)	Ratings of age of acquisition, familiarity, concreteness, and imageability for Welsh words and their English equivalents	705 English and Welsh equivalent words
	OTHER	
Arlinsky & Epstein (1965)	Frequency of grammatical classes in production of random strings and grammatically correct English sentences	Produced strings and sentences of 11, 22, or 33 words
Fearnley (1997)	Program that allows words to be extracted from the MRC Psycholinguistic database according to word length, number of syllables or phonemes, frequency of use, imageability, concreteness, meaning, etc.	Medical Research Council (MRC) Psycholinguistic Database of approximately 100,000 words
Fuhrman, Bodenhausen, & Lichtenstein (1989)	Kindness, intelligence, goodness, and normality ratings for statements about social behaviors	400 social behavior statements
Hendrick, Hoving, & Franz (1974)	Children's likableness ratings for common trait adjectives	22 trait adjectives
Libkuman (1994)	Norms for generation of rhyme words	477 words

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ALARIO, F.-X., & FERRAND, L. (1999). A set of 400 pictures standardized for French: Norms for name agreement, image agreement, familiarity, visual complexity, image variability, and age of acquisition. *Behavior Research Methods, Instruments, & Computers*, **31**, 531-552.

ALGARABEL, S., RUIZ, J. C., & SANMARTIN, J. (1988). The University of Valencia's computerized word pool. *Behavior Research Methods, Instruments, & Computers*, **20**, 398-403.

ALTARRIBA, J., BAUER, L. M., & BENVENUTO, C. (1999). Concreteness, context availability, and imageability ratings and word associations for abstract, concrete, and emotion words. *Behavior Research Methods, Instruments, & Computers*, **31**, 578-602.

AMSTER, H. (1967). Convergent association norms for ten-year-old children and college age adults. *Psychonomic Monograph Supplements*, **2** (1, Whole No. 17), 1-32.

AMSTER, H., & KEPPEL, G. (1966). Letter association norms. *Psychonomic Monograph Supplements*, **1** (9, Whole No. 9), 211-238.

ARLINSKY, M., & EPSTEIN, W. (1965). The frequency of grammatical classes in the production of verbal strings under two response sets. *Psychonomic Science*, **3**, 555-556.

ASHCRAFT, M. H. (1978). Property norms for typical and atypical items from 17 categories: A description and discussion. *Memory & Cognition*, **6**, 227-232.

AZUMA, T. (1996). Familiarity and relatedness of word meanings: Ratings for 110 homographs. *Behavior Research Methods, Instruments, & Computers*, **28**, 109-124.

BELL, J. A., & SHAPIRO, S. I. (1971). A normative study of organizational strategies in free recall learning. *Psychonomic Monograph Supplements*, **4** (1, Whole No. 49), 1-32.

BENJAFIELD, J., FROMMHOLD, K., KEENAN, T., MUCKENHEIM, R., & MUELLER, D. (1993). Imagery, concreteness, goodness, and familiarity ratings for 500 proverbs sampled from the *Oxford Dictionary of English Proverbs*. *Behavior Research Methods, Instruments, & Computers*, **25**, 27-40.

BENJAFIELD, J., & MUCKENHEIM, R. (1989). Dates of entry and measures of imagery, concreteness, goodness, and familiarity for 1,046 words sampled from the *Oxford English Dictionary*. *Behavior Research Methods, Instruments, & Computers*, **21**, 31-52.

BERMAN, S., FRIEDMAN, D., HAMBERGER, M., & SNODGRASS, J. G. (1989). Developmental picture norms: Relationships between name agreement, familiarity, and visual complexity for child and adult ratings of two sets of line drawings. *Behavior Research Methods, Instruments, & Computers*, **21**, 371-382.

BERNDT, R. S., REGGIA, J. A., & MITCHUM, C. C. (1987). Empirically derived probabilities for grapheme-to-phoneme correspondences in English. *Behavior Research Methods & Instrumentation*, **19**, 1-9.

BIERSDORFF, K. K., & SOLSO, R. L. (1973). A recodification of the Palermo and Jenkins word-association norms. *Behavior Research Methods & Instrumentation*, **5**, 14-20.

BJORKLUND, D. F., THOMPSON, B. E., & ORNSTEIN, P. A. (1983). Developmental trends in children's typicality judgments. *Behavior Research Methods & Instrumentation*, **15**, 350-356.

BLOOM, P. A., & FISCHLER, I. (1980). Completion norms for 329 sentence contexts. *Memory & Cognition*, **8**, 631-642.

BOLES, D. B., & CLIFFORD, J. E. (1989). An upper- and lowercase alphabetic similarity matrix, with derived generation similarity values. *Behavior Research Methods & Instrumentation*, **21**, 579-586.

BOUTSEN, L., LAMBERTS, K., & VERFAILLIE, K. (1998). Recognition times of different views of 56 depth-rotated objects: A note concerning Verfaillie and Boutsen (1995). *Perception & Psychophysics*, **60**, 900-907.

BOWEN, J. H. (1971). The stability of the printed frequencies of occurrence of 420 English conceptual nouns. *Psychonomic Science*, **23**, 156-158.

BRITTON, B. K. (1978). Lexical ambiguity of words used in English text. *Behavior Research Methods & Instrumentation*, **10**, 1-7.

BROWN, G. D. A. (1984). A frequency count of 190,000 words in the *London–Lund Corpus of English Conversation*. *Behavior Research Methods, Instruments, & Computers*, **16**, 502-532.

BUTLER, D. L., & BINER, P. M. (1990). Recall norms of common spaces and activities of college students. *Behavior Research Methods, Instruments, & Computers*, **22**, 3-12.

CHAFFIN, R. J. S., & HERRMANN, D. J. (1981). Comprehension of semantic relationships and the generality of categorization models. *Bulletin of the Psychonomic Society*, **17**, 69-72.

CHIARELLO, C., SHEARS, C., & LUND, K. (1999). Imageability and distributional typicality measures of nouns and verbs in contemporary English. *Behavior Research Methods, Instruments, & Computers*, **31**, 603-637.

CHRISTIAN, J., BICKLEY, W., TARKA, M., & CLAYTON, K. (1978). Measures of free recall of 900 English nouns: Correlations with imagery, concreteness, meaningfulness, and frequency. *Memory & Cognition*, **6**, 379-390.

CONLEY, P., BURGESS, C., & HAGE, D. (1999). Large-scale database of proper names. *Behavior Research Methods, Instruments, & Computers*, **31**, 215-219.

COSTANTINI, A. F., & BLACKWOOD, R. O. (1968). CCC trigrams of low association value: A re-evaluation. *Psychonomic Science*, **12**, 67-68.

COWAN, N. (1986). A matrix of consonant-cluster-free monosyllabic words in English. *Behavior Research Methods, Instruments, & Computers*, **18**, 434-446.

CRAIG, J. C. (1979). A confusion matrix for tactually presented letters. *Perception & Psychophysics*, **26**, 409-411.

CUETOS, F., ELLIS, A. W., & ALVAREZ, B. (1999). Naming times for the Snodgrass and Vanderwart pictures in Spanish. *Behavior Research Methods, Instruments, & Computers*, **31**, 650-658.

DALE, P. S., & FENSON, L. (1996). Lexical development norms for young children. *Behavior Research Methods, Instruments, & Computers*, **28**, 125-127.

DANKS, J. H. (1972). Associative responses to novel figures. *Psychonomic Monograph Supplements*, **4** (18, Whole No. 66), 319-325.

DE BRUIJN, O., MCDOUGALL, S., & CURRY, M. B. (1999). ESPbase: A Microsoft Access tool for selecting symbol and icon sets for usability. *Behavior Research Methods, Instruments, & Computers*, **31**, 479-486.

DUNCAN, C. P., & WOOD, G. (1966). Norms for successive word associations. *Psychonomic Monograph Supplements*, **1** (7, Whole No. 7), 203-206.

ERICKSON, J. R., GAFFNEY, C. R., & HEATH, W. P. (1987). Difficulty and familiarity norms for 192 single-solution word fragments. *Behavior Research Methods, Instruments, & Computers*, **19**, 370-376.

FEAR, W. J. (1997). Ratings for Welsh words and their English equivalents. *Behavior Research Methods, Instruments, & Computers*, **29**, 425-445.

FEARNLEY, S. (1997). MRC Psycholinguistic Database search program. *Behavior Research Methods, Instruments, & Computers*, **29**, 291-295.

FERRARO, F. R., & KELLAS, G. (1990). Normative data for number of word meanings. *Behavior Research Methods, Instruments, & Computers*, **22**, 491-498.

FERREIRA, V. S., & CUTTING, J. C. (1997). Ninety-three pictures and 108 questions for the elicitation of homophones. *Behavior Research Methods, Instruments, & Computers*, **29**, 619-635.

FRIENDLY, M., FRANKLIN, P. E., HOFFMAN, D., & RUBIN, D. C. (1982). The Toronto Word Pool: Norms for imagery, concreteness, orthographic variables, and grammatical usage for 1,080 words. *Behavior Research Methods & Instrumentation*, **14**, 375-399.

FUHRMAN, R. W., BODENHAUSEN, G. V., & LICHTENSTEIN, M. (1989). On the trait implications of social behaviors: Kindness, intelligence, goodness, and normality ratings for 400 behavior statements. *Behavior Research Methods, Instruments, & Computers*, **21**, 587-597.

GARSKOF, B. E., HOUSTON, J. P., & MEDNICK, S. A. (1967). Overlap and direct associative strength norms for 480 word pairs. *Psychonomic Monograph Supplements*, **2** (2, Whole No. 18), 33-38.

GAWLICK-GRENDELL, L. A., & WOLTZ, D. J. (1994). Meaning dominance norms for 120 homographs. *Behavior Research Methods, Instruments, & Computers*, **26**, 5-25.

GEEN, R. G., & STONNER, D. (1975). Primary associates to 20 verbs connoting violence. *Behavior Research Methods & Instrumentation*, **7**, 391-392.

GEIS, M. F., & WINOGRAD, E. (1974). Norms of semantic encoding variability for fifty homographs. *Bulletin of the Psychonomic Society*, **3**, 429-431.

GERJOUY, I. R., & GERJOUY, H. (1965). Preliminary word-association norms for institutionalized adolescent retardates. *Psychonomic Science*, **2**, 91-92.

GEYER, L. H. (1977). Recognition and confusion of the lowercase alphabet. *Perception & Psychophysics*, **22**, 487-490.

GEYER, L. H., & GUPTA, S. M. (1981). Recognition/confusion of dot matrix vs. conventional font capital letters. *Perception & Psychophysics*, **29**, 280-282.

GIBSON, J. M., & BROOKS, J. O., III (1993). A collection of 4,741 word fragments that have unique completions with respect to 146,205 words. *Behavior Research Methods, Instruments, & Computers*, **25**, 434-454.

GIBSON, J. M., & WATKINS, M. J. (1988). A pool of 1,086 words with unique two-letter fragments. *Behavior Research Methods, Instruments, & Computers*, **20**, 390-397.

GILHOOLY, K. J. (1978). Bigram statistics for 205 five-letter words having single-solution anagrams. *Behavior Research Methods & Instrumentation*, **10**, 389-392.

GILHOOLY, K. J., & HAY, D. (1977). Imagery, concreteness, age-of-acquisition, familiarity, and meaningfulness values for 205 five-letter words having single-solution anagrams. *Behavior Research Methods & Instrumentation*, **9**, 12-17.

GILHOOLY, K. J., & LOGIE, R. H. (1980a). Age-of-acquisition, imagery, concreteness, familiarity, and ambiguity measures for 1,944 words. *Behavior Research Methods & Instrumentation*, **12**, 395-427.

GILHOOLY, K. J., & LOGIE, R. H. (1980b). Meaning-dependent ratings of imagery, age of acquisition, familiarity, and concreteness for 387 ambiguous words. *Behavior Research Methods & Instrumentation*, **12**, 428-450.

GORFEIN, D. S., VIVIANI, J. M., & LEDO, J. (1982). Norms as a tool for the study of homography. *Memory & Cognition*, **10**, 503-509.

GRAF, P., & WILLIAMS, D. (1987). Completion norms for 40 three-letter word stems. *Behavior Research Methods, Instruments, & Computers*, **19**, 422-445.

GRIFFIN, Z. M. (1999). Frequency of meaning use for ambiguous and unambiguous words. *Behavior Research Methods, Instruments, & Computers*, **31**, 520-530.

GRUENENFELDER, T. M. (1984). Typicality ratings for 893 exemplars of 93 categories. *Behavior Research Methods, Instruments, & Computers*, **16**, 351-354.

HAMBERGER, M. J., FRIEDMAN, D., & ROSEN, J. (1996). Completion norms collected from younger and older adults for 198 sentence contexts. *Behavior Research Methods, Instruments, & Computers*, **28**, 102-108.

HENDRICK, C., HOVING, K. L., & FRANZ, C. M. (1974). Children's likableness ratings of 22 trait adjectives. *Bulletin of the Psychonomic Society*, **4**, 91-92.

HIRATA, K., & BRYDEN, M. P. (1971). Tables of letter sequences varying in order of approximation to English. *Psychonomic Science*, **25**, 322-324.

HUNT, K. [P.] (1977). Meaningfulness (m′) values for 300 CCCs. *Behavior Research Methods & Instrumentation*, **9**, 469-470.

HUNT, K. [P.] (1978). Imagery values for taxonomic-category names. *Behavior Research Methods & Instrumentation*, **10**, 750-752.

HUNT, K. P., & HODGE, M. H. (1971). Category-item frequency and category-name meaningfulness (m′): Taxonomic norms for 84 categories. *Psychonomic Monograph Supplements*, **4** (6, Whole No. 54), 97-121.

JONES, G. V. (1980a). English palindromes: A distributional model. *Behavior Research Methods & Instrumentation*, **12**, 489-491.

JONES, G. V. (1980b). Heteropalindromes. *Behavior Research Methods & Instrumentation*, **12**, 393-394.

KATZ, A. N. (1983). Dominance and typicality norms for properties: Convergent and discriminant validity. *Behavior Research Methods & Instrumentation*, **15**, 29-38.

KEENAN, T. R., & BENJAFIELD, J. G. (1994). An additional measure of availability derived from the *Oxford English Dictionary*. *Psychonomic Bulletin & Review*, **1**, 255-257.

KEREN, G., & BAGGEN, S. (1981). Recognition models of alphanumeric characters. *Perception & Psychophysics*, **29**, 234-246.

KERR, N. H., & JOHNSON, T. H. (1991). Word norms for blind and sighted subjects: Familiarity, concreteness, meaningfulness, imageability, imagery modality, and word associations. *Behavior Research Methods, Instruments, & Computers*, **23**, 461-485.

KIKUCHI, T., YAMASHITA, Y., SAGAWA, K., & WAKE, T. (1979). An analysis of tactile letter confusions. *Perception & Psychophysics*, **26**, 295-301.

LACHMAN, R., & LAUGHERY, K. R. (1965). Letter association and sequence norms. *Psychonomic Science*, **2**, 103-104.

LEY, R., & KARKER, J. (1974). Pronunciability ratings of 319 CVCVC words and paralogs previously assessed for meaningfulness and associative reaction time. *Bulletin of the Psychonomic Society*, **3**, 421-424.

LEY, R., & TESINY, E. (1975). Associative reaction time, meaningfulness, and pronunciability ratings of 382 words and paralogs. *Bulletin of the Psychonomic Society*, **6**, 645-648.

LIBKUMAN, T. M. (1994). Norms for words that rhyme. *Behavior Research Methods, Instruments, & Computers*, **26**, 278-322.

LIPPMAN, L. G., & KINTZ, B. L. (1968). Group predictions of item differences of CVC trigrams. *Psychonomic Science*, **12**, 265-266.

LOESS, H., BROWN, A., & CAMPBELL, J. (1969). Cultural norms for items in 30 taxonomic categories. *Psychonomic Monograph Supplements*, **3** (7, Whole No. 39), 69-86.

LOOMIS, J. M. (1974). Tactile letter recognition under different modes of stimulus presentation. *Perception & Psychophysics*, **16**, 401-408.

LOOMIS, J. M. (1982). Analysis of tactile and visual confusion matrices. *Perception & Psychophysics*, **31**, 41-52.

LOVELACE, E. A., REID, L. S., & HUNT, L. C. (1981). Free associations to conceptually structured word triads. *Bulletin of the Psychonomic Society*, **17**, 65-68.

MANNING, S. K. (1977). Ratings of the auditory and visual similarity of consonants: Implications for research. *Behavior Research Methods & Instrumentation*, **9**, 495-498.

MARIDAKI-KASSOTAKI, K. (1997). Are rating-based procedures reliable for derivation of typicality judgments from children? *Behavior Research Methods, Instruments, & Computers*, **29**, 376-385.

MARTIN, M., JONES, G. V., NELSON, D. L., & NELSON, L. (1981). Heteronyms and polyphones: Categories of words with multiple phonemic representations. *Behavior Research Methods & Instrumentation*, **13**, 299-307.

MAYZNER, M. S., & TRESSELT, M. E. (1965). Tables of single-letter and digram frequency counts for various word-length and letter-position combinations. *Psychonomic Monograph Supplements*, **1** (2, Whole No. 2), 13-32.

MAYZNER, M. S., TRESSELT, M. E., & WOLIN, B. R. (1965a). Tables of trigram frequency counts for various word-length and letter-position combinations. *Psychonomic Monograph Supplements*, **1** (3, Whole No. 3), 33-78.

MAYZNER, M. S., TRESSELT, M. E., & WOLIN, B. R. (1965b). Tables of tetragram frequency counts for various word-length and letter-position combinations. *Psychonomic Monograph Supplements*, **1** (4, Whole No. 4), 79-142.

MAYZNER, M. S., TRESSELT, M. E., & WOLIN, B. R. (1965c). Tables of pentagram frequency counts for various word-length and letter-position combinations. *Psychonomic Monograph Supplements*, **1** (5, Whole No. 5), 145-185.

MCDOUGALL, S. J. P., CURRY, M. B., & DE BRUIJN, O. (1999). Measuring symbol and icon characteristics: Norms for concreteness, complexity, meaningfulness, familiarity, and semantic distance for 239 symbols. *Behavior Research Methods, Instruments, & Computers*, **31**, 487-519.

MOU, L.-C., & ANDERSON, N. S. (1981). Graphemic and phonemic codings of Chinese characters in short-term retention. *Bulletin of the Psychonomic Society*, **17**, 255-258.

NELSON, D. L., MCEVOY, C. L., WALLING, J. R., & WHEELER, J. W., JR. (1980). The University of South Florida homograph norms. *Behavior Research Methods & Instrumentation*, **12**, 16-37.

NICKERSON, C. A., & CARTWRIGHT, D. S. (1984). The University of Colorado meaning norms. *Behavior Research Methods, Instruments, & Computers*, **16**, 355-382.

NOBLE, C. E. (1967). Comparative pronounceability ratings (p) of 100 CVCs in two college populations. *Psychonomic Science*, **8**, 433-434.

NODINE, C. F., & HARDT, J. V. (1969). A measure of pronunciability of CVC trigrams. *Behavior Research Methods & Instrumentation*, **1**, 210-216.

OLSON, G. A., & KAUSLER, D. H. (1971). Orthographic distinctiveness of homonyms. *Behavior Research Methods & Instrumentation*, **3**, 298-299.

OLSON, R., & SCHWARTZ, R. (1967). Single and multiple solution five-letter words. *Psychonomic Monograph Supplements*, **2** (8, Whole No. 24), 105-152.

PEEREMAN, R., & CONTENT, A. (1999). LEXOP: A lexical database pro-

viding orthography–phonology statistics for French monosyllabic words. *Behavior Research Methods, Instruments, & Computers*, **31**, 376-379.

POSNANSKY, C. J. (1978). Category norms for verbal items in 25 categories for children in Grades 2–6. *Behavior Research Methods & Instrumentation*, **10**, 819-832.

RICKARD LIOW, S. J., TNG, S. K., & LEE, C. L. (1999). Chinese characters: Semantic and phonetic regularity norms for China, Singapore, and Taiwan. *Behavior Research Methods, Instruments, & Computers*, **31**, 155-177.

ROBERTS, D. M. (1968). Meaningfulness of Underwood and Richardson's (1956a) sense impression descriptive adjectives. *Psychonomic Science*, **13**, 121-122.

RUBIN, D. C. (1981). First-order approximation to English, second-order approximation to English, and orthographic neighbor ratio norms for 925 nouns. *Behavior Research Methods & Instrumentation*, **13**, 713-721.

RUDELL, A. P. (1993). Frequency of word usage and perceived word difficulty: Ratings of Kučera and Francis words. *Behavior Research Methods, Instruments, & Computers*, **25**, 455-463.

SANFELIU, M. C., & FERNANDEZ, A. (1996). A set of 254 Snodgrass–Vanderwart pictures standardized for Spanish: Norms for name agreement, image agreement, familiarity, and visual complexity. *Behavior Research Methods, Instruments, & Computers*, **28**, 537-555.

SANTIAGO, J., JUSTICIA, F., PALMA, A., HUERTAS, D., & GUTIÉRREZ, N. (1996). Lex I and II: Two databases of surface word forms for psycholinguistic research in Spanish. *Behavior Research Methods, Instruments, & Computers*, **28**, 418-426.

SCHWANENFLUGEL, P. J. (1986). Completion norms for final words of sentences using a multiple production measure. *Behavior Research Methods, Instruments, & Computers*, **18**, 363-371.

SCOTT, D., & BADDELEY, A. D. (1969). Acoustic confusability values for 1172 CCC trigrams. *Psychonomic Science*, **14**, 189-190.

SHAPIRO, S. I., & PALERMO, D. S. (1968). An atlas of normative free association data. *Psychonomic Monograph Supplements*, **2** (12, Whole No. 28), 219-250.

SHAPIRO, S. I., & PALERMO, D. S. (1970). Conceptual organization and class membership: Normative data for representatives of 100 categories. *Psychonomic Monograph Supplements*, **3** (11, Whole No. 43), 107-127.

SHAPIRO, S. S. (1964). Meaningfulness values for 52 CVCs for grade-school-aged children. *Psychonomic Science*, **1**, 127-128.

SHAPIRO, S. S. (1966). Word association norms: Stability of response and chains of association. *Psychonomic Science*, **4**, 233-234.

SHAW, R. J. (1997). Unprimed stem completion is only moderately predicted by word frequency and length. *Behavior Research Methods, Instruments, & Computers*, **29**, 401-424.

SNODGRASS, J. G., & POSTER, M. (1992). Visual-word recognition thresholds for screen-fragmented names of the Snodgrass and Vanderwart pictures. *Behavior Research Methods, Instruments, & Computers*, **24**, 1-15.

SNODGRASS, J. G., & YUDITSKY, T. (1996). Naming times for the Snodgrass and Vanderwart pictures. *Behavior Research Methods, Instruments, & Computers*, **28**, 516-536.

SOLSO, R. L. (1971). Meaningfulness of colors. *Psychonomic Science*, **23**, 301-303.

SOLSO, R. L. (1979). Positional frequency and versatility of letters for six-, seven-, and eight-letter English words. *Behavior Research Methods & Instrumentation*, **11**, 355-358.

SOLSO, R. L., BARBUTO, P. F., JR., & JUEL, C. L. (1979). Bigram and trigram frequencies and versatilities in the English language. *Behavior Research Methods & Instrumentation*, **11**, 475-484.

SOLSO, R. L., & JUEL, C. L. (1980). Positional frequency and versatility of bigrams for two- through nine-letter English words. *Behavior Research Methods & Instrumentation*, **12**, 297-343.

SOLSO, R. L., & KING, J. F. (1976). Frequency and versatility of letters in the English language. *Behavior Research Methods & Instrumentation*, **8**, 283-286.

STADLER, M. A., ROEDIGER, H. L., III, & MCDERMOTT, K. B. (1999). Norms for word lists that create false memories. *Memory & Cognition*, **27**, 495-500.

STADTLANDER, L. M. (1997). A compilation of 800 word neighborhoods by frequency. *Behavior Research Methods, Instruments, & Computers*, **29**, 636-644.

STARK, K. (1972). Synonym responses to 100 free association stimuli. *Psychonomic Monograph Supplements*, **4** (16, Whole No. 64), 269-274.

STRATTON, R. P., JACOBUS, K. A., & BRINLEY, B. (1975). Age-of-acquisition, imagery, familiarity and meaningfulness norms for 543 words. *Behavior Research Methods & Instrumentation*, **7**, 1-6.

SURPRENANT, A. M., HURA, S. L., HARPER, M. P., JAMIESON, L. H., LONG, G., THEDE, S. M., ROUT, A., HSUEH, T.-H., HOCKEMA, S. A., JOHNSON, M. T., SRINIVASAN, P. N., WHITE, C. M., & LAFLEN, J. B. (1999). Familiarity and pronounceability of nouns and norms. *Behavior Research Methods, Instruments, & Computers*, **31**, 638-649.

TAYLOR, K. B. (1970). An information-theory measurement of CVC trigram meaningfulness. *Psychonomic Science*, **21**, 101-103.

TOPPER, G. E., MACEY, W. H., & SOLSO, R. L. (1973). Bigram versatility and bigram frequency. *Behavior Research Methods & Instrumentation*, **5**, 51-53.

TOWNSEND, J. T. (1971a). Alphabetic confusion: A test of models for individuals. *Perception & Psychophysics*, **9**, 449-454.

TOWNSEND, J. T. (1971b). Theoretical analysis of an alphabetic confusion matrix. *Perception & Psychophysics*, **9**, 40-50.

TRESSELT, M. E., & MAYZNER, M. S. (1964). The Kent–Rosanoff word association: Word association norms as a function of age. *Psychonomic Science*, **1**, 65-66.

TRESSELT, M. E., & MAYZNER, M. S. (1966). Normative solution times for a sample of 134 solution words and 378 associated anagrams. *Psychonomic Monograph Supplements*, **1** (15, Whole No. 15), 293-298.

TWILLEY, L. C., DIXON, P., TAYLOR, D., & CLARK, K. (1994). University of Alberta norms of relative meaning frequency for 566 homographs. *Memory & Cognition*, **22**, 111-126.

UYEDA, K. M., & MANDLER, G. (1980). Prototypicality norms for 28 semantic categories. *Behavior Research Methods & Instrumentation*, **12**, 587-595.

VAN DER HEIJDEN, A. H. C., MALHAS, M. S. M., & VAN DEN ROOVAART, B. P. (1984). An empirical interletter confusion matrix for continuous-line capitals. *Perception & Psychophysics*, **35**, 85-88.

VERFAILLIE, K., & BOUTSEN, L. (1995). A corpus of 714 full-color images of depth-rotated objects. *Perception & Psychophysics*, **57**, 925-961.

WALKER, H. J. (1970). Imagery ratings for 338 nouns. *Behavior Research Methods & Instrumentation*, **2**, 165-167.

WARREN, R. E., BRESNICK, J. H., & GREEN, J. P. (1977). Definitional dominance distributions for 20 English homographs. *Bulletin of the Psychonomic Society*, **10**, 229-231.

WHALEN, D. H., & ZSIGA, E. C. (1994). Subjective familiarity of English word/name homophones. *Behavior Research Methods, Instruments, & Computers*, **26**, 402-408.

WILSON, M. (1988). MRC Psycholinguistic Database: Machine-usable dictionary, version 2.00. *Behavior Research Methods, Instruments, & Computers*, **20**, 6-10.

WINTERS, J. J., JR., & KAHN, H. (1970). Word association norms of adolescent mental retardates. *Psychonomic Monograph Supplements*, **3** (8, Whole No. 40), 87-94.

WINTERS, J. J., JR., & KAHN, H. (1971). Word-association norms: A comparison of adolescent mental retardates and normals. *Psychonomic Monograph Supplements*, **4** (8, Whole No. 56), 129-163.

WOLLEN, K. A., COX, S. D., COAHRAN, M. M., SHEA, D. S., & KIRBY, R. F. (1980). Frequency of occurrence and concreteness ratings of homograph meanings. *Behavior Research Methods & Instrumentation*, **12**, 8-15.

ZECHMEISTER, E. B., KING, J., GUDE, C., & OPERA-NADI, B. (1975). Ratings of frequency, familiarity, orthographic distinctiveness and pronunciability for 192 surnames. *Behavior Research Methods & Instrumentation*, **7**, 531-533.

ZIEGLER, J. C., JACOBS, A. M., & STONE, G. O. (1996). Statistical analysis of the bidirectional inconsistency of spelling and sound in French. *Behavior Research Methods, Instruments, & Computers*, **28**, 504-515.

ZIEGLER, J. C., STONE, G. O., & JACOBS, A. M. (1997). What is the pronunciation for *-ough* and the spelling for /u/? A database for computing feedforward and feedback consistency in English. *Behavior Research Methods, Instruments, & Computers*, **29**, 600-618.