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COMPLEXIVE ORDERING OF READING EXPERIENCE THROUGH
GRAPHEME-PHONEME RELATIVE FREQUENCY CONTROL

by

Wesley K. Roberts

A dissertation submitted in partial fulfillment
of the requirements for the degree

of

DOCTOR OF PHILOSOPHY

in

Psychology

Approved:

Utah State University
Logan, Utah

1973

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Wesley K. Roberts

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ABSTRACT

Complexive Ordering of Reading Experience Through
Grapheme-Phoneme Relative Frequency Control

by

Wesley K. Roberts, Doctor of Philosophy

Utah State University, 1973

Major Professor: Dr. David R. Stone
Department: Psychology

This dissertation develops a word bank based on a series of well defined filters. The basis of this system is grapheme-phoneme relative frequency control. The word bank is designed to be used in developing reading materials at varied degrees of difficulty.

Four short stories were edited as to their grapheme-phoneme relationships. Reading speed and reading comprehension were measured for each student on these stories. All students read a story in the original form and a story in the filtered version.

No difference in reading comprehension were found, but reading speed was significantly higher on three of four stories.

(433 pages)

CHAPTER I

INTRODUCTION TO THE PROBLEM

The task of learning to read in the English language is perhaps the most intricate problem confronting children in our schools. Many children fail to master the reading skill, and as adults they contribute to the millions of adults who cannot read past the fourth grade level (Cortright, 1965-66).

There has been an increase in the research to develop more efficient methods and materials to teach reading during the recent years. Much of this research and development is sponsored by large corporation serving the various educational institutions. Today, we are able to select from the wealth of materials published and reading programs to serve most any educational requirement. A survey of materials currently produced would reveal no known programs based on the basic element of the reading process, that is, developed on materials based on grapheme-phoneme relative frequency correspondence data.

The development and ordering of reading experience materials, based on symbol-sound relationships, for beginning and remedial readers would serve to resolve many of the currently unanswered theoretical questions of the research in phonetics. It would also serve the beginning and remedial readers by providing them the opportunity to develop a firm foundation of regular English words in initial reading skills. The readers could then attack irregular grapheme-phoneme words with a broader background of information than has been previously available.

Regular grapheme-phoneme words could also be used in the initial teaching of English to the bilingual Americans or to the non-English speaking population undertaking this study. There are too many exceptions to rules in the English language; these often serve only to frustrate and confuse the beginning reader. A need for regular grapheme-phoneme words is very apparent in teaching reading. Gunderson (1939) recognized this need when reporting that a child must approach words with ease and facility in order to read fluently and with understanding.

Research in phoneme-grapheme relative frequency control in spelling has been given consideration in depth (Hanna et al., 1966). This research was further developed into a method of providing words for readers which were high in phoneme-grapheme regularity. It also produced a most effective method of developing reading materials (Grow, 1969; Roberts, 1972).

There exists a need to clarify the system of regular word development. To base correspondences on sound-symbol relationships would be to produce a method for spelling skill development. Reading is a similar but different process; it follows the order of symbol-sound correspondences. The development of a symbol-sound matrix system for filtering words into frequencies of regularity was a major portion of this dissertation.

Grapheme-phoneme relative frequency correspondence control in reading materials is adaptable to any previously written materials. It is also appropriate for use in developing original materials for reading instruction. Through a procedure of filtering out irregular grapheme-phoneme patterns in words and by replacing these with

regularly occurring words, all previously written reading materials may be controlled for varying levels of reading difficulty. New materials may be written using a word list, arranged in varying filter levels, to construct reading substance.

The development of a word bank, and its subsequent testing, to provide authors with words consisting of varying degrees of grapheme-phoneme relative frequency patterns, provided a basis for this dissertation.

Statement of the Problem

The objective of this dissertation was to establish a procedure for utilizing and testing the value of a frequency theory as applied to grapheme-phoneme relationships.

Accompany sub-objectives were: (1) to classify the words appearing in the Hanna et al., study (1966) according to the grapheme-phoneme relative frequency correspondence method developed in this dissertation, (2) to order additional words according to the system, (3) to consolidate these words into a word bank consisting of three major degrees of difficulty for use by authors in reading, and (4) to illustrate the filtering and grapheme-phoneme control method upon selected stories which were tested in public schools.

Definitions

Beginning reader: Any person not having mastered reading in the English language beyond the expected third grade level.

Comprehension level: Percentage of questions answered correctly after reading a story.

Decode: To decipher a word.

Filter: A mental construct implying the inclusion or omission of words into written materials based on grapheme-phoneme frequency correspondence data.

Grapheme: A written symbol.

Original text: The form in which reading materials are written by their author.

Phoneme: A sound.

Phonetic: Refers to the science of speech sounds, and is used interchangeably with phonics where appropriate in this dissertation.

Reading rate: Rate of reading words averaged over a period of two minutes.

Reading skill: Reading rate and comprehension level of written materials.

Relative frequency: Rate at which a sound occurs in relationship to other sounds produced from the same grapheme(s).

Remedial reader: A person reading at a grade level two or more below that expected for individuals of that age.

Rewritten text: Reading materials that have been reconstructed from the original text using the varying filter levels of grapheme-phoneme relative frequency correspondence data. Words with irregular grapheme-phoneme patterns are not used, but are replaced by analogous words with regular grapheme-phoneme correspondences.

Sound-symbol: Synonym for phoneme-grapheme.

Symbol-sound: Synonym for grapheme-phoneme.

Words such as method, level, and frequency are used in their general sense rather than referring to a specific system. These words are used to help in decisions relative to the ordering of student experience. By ordering is meant the arrangement of the content, level of difficulty, and sequence of the experience.

Justification

The development of a procedure for complexive ordering of reading materials was required to further test the relevance of using the grapheme-phoneme relative frequency correspondences in teaching beginning and remedial readers in the English language, as was suggested by Grow (1969) and Roberts (1972).

Summary

In summary, this dissertation was concerned with developing a procedure for the complexive ordering of reading experience through the utilization of grapheme-phoneme relative frequency correspondence data. A word bank was created to facilitate the grapheme-phoneme procedure in future reading material production. The procedure was applied to four stories which served as a field test for the implications of using grapheme-phoneme correspondences in writing reading materials.

This dissertation served as a catalyst for the broadening of the grapheme-phoneme relative frequency method in the complexive ordering of reading experience for beginning and remedial readers.

CHAPTER II
REVIEW OF LITERATURE

The research germane to the subject of this dissertation may be divided into three categories, which are: (1) references on the teaching of reading, (2) articles relating to the teaching of phonic generalizations, and (3) research pertinent to phoneme-grapheme relative frequency correspondences. These topics presented such a natural development of the research that this order was used as the organizational scheme for this chapter.

Teaching of Reading

Reading is a vital process in our present school system. Disability to read can be the cause for other types of educational failures. Eustis (1969) states that reading disability is the inability of an otherwise healthy child to master the dynamics of writing, spelling, and reading as quickly as he develops other skills. He also points out that the exercise and control of certain muscle groups is important on the part of the student early in the reading program. There are other skills such as sound blending and auditory discrimination that must also be taught early in reading.

The teaching of reading in the English language presents various problems to the instructor who considers the cultural and environmental background of all students. This point has been substantiated by

Johnson and Jacobson (1970) when they found environmental influences greatly effect the reading skill acquisition of disadvantaged students. Some children do not receive instruction from their parents in the reading skill; this is not the best environment for new readers. According to Niedermeyer (1970), parents should take a positive role in teaching children to read. The parents, though receiving a minimum of training, in this research proved to significantly increase the reading ability of children through assistance in their child's reading instruction. A study by Tatham (1970) furthered the notion of environmental influences when she found children could comprehend reading materials at a higher rate when the text was written in the oral language patterns most often used by the children. Duyne and Gutierrez (1972) also add data to the complication of teaching reading to students of varied cultural and environmental backgrounds. They found that decoding verbal instructions and encoding them into other forms of behavior, such as perceptual-motor activities, was different for various aged bilingual Spanish children. The differences found in their scoring system was reported greater at the lower ages; this was concluded to be an effect due to better skills in Spanish than in English at lower ages. The results showed that these children are delayed as much as two years in developing the specific elective aspects of the English language. The problem of the bilingual effect in learning to read may carry into later educational study. Tunley (1969) reports that the high occurrence of English inability, on the part of Navajo students, often leads to failure in the present school system.

The essence of the requirement to read well in order to improve the society itself has been stressed by Jennings (1965). He states that reading is man's own sovereign cure for the ills and confusions of a changing world. The importance of learning to read well on the part of all society cannot be overly emphasized as a necessary requirement to improving personal knowledge.

Stone (1929) wrote that easy materials should be used with poor readers; also, a story with a comparatively large number of word difficulties contributes to the ranks of the non-reader. Some authors take this type of research to imply that more use of illustrations should be included with stories at the beginning level of reading. Contrary to the use of illustrations is a study by Samuels (1970) which found that there is no basis for concluding that illustrations contribute to learning to read. It was reported that groups learning to read without pictures learn words faster than those working on materials with a high number of illustrations.

Several authors suggest sight vocabulary words for beginning readers. The use of basic word lists was endorsed in Living Age (1931), when it was indicated that 850 words can do the work of 20,000 words. This topic appears recently in research by Otto and Chester (1972). Most researchers would rather base an approach to reading on a more fundamental method even in the use of basic vocabulary words for beginning readers. Harris and Jacobson (1973) posit their word list as having certain advantages over the previously mentioned Otto and Chester list. These advantages include: words are arranged in

in grade levels by alphabetical order, it contains 50 percent of the total words in basal readers, variants are represented by their root words, the list is more current, and the use of levels makes it possible for instruction on words a child does not know in the levels below his instructional level.

The use of word lists is not seen to be the answer to a basic approach in the teaching of reading by many authors. It is now important to review some of the research considered to be more vital to beginning reading instruction, which includes the teaching of phonics.

Teaching Phonic Generalizations

Word recognition is viewed by Wiley (1928); Levin, Watson, and Feldman (1964); and Marchbanks and Levin (1965) to be based on the perception of dominant key letters. In most instances the first letter in the word provides the basis for decoding skills; in other cases, dominant key letters assume alternating order in the recognition of words. These articles provide a basis for discussing the importance of teaching letter sounds.

A study by Flemming (1972), which supports earlier research (Clymer, 1963; Emans, 1967; and Bailey, 1967), reported that the greater the phonic generalization frequency, the less chance of no understanding of the generalization by students. This conclusion is indicative of the manner in which researchers are now attempting to revise phonic generalizations for readers.

A logical step in the complexive ordering of reading experience is to teach beginning and remedial readers some basic phonic generalizations. In order for this experience in reading to have a generalizing effect it is important that a logical sequence be utilized. This is supported by Morteaux (1971) who concludes that knowledge of graphemic options is developmental in nature through at least the fifth grade level. She also found a generalizing effect during grades three to five in that pupils' knowledge of the ways sounds are spelled relates positively to their reading and spelling achievement.

Students may apply phonic generalizations for the purpose of decoding unfamiliar words they encounter in reading. One author in reading (Fry, 1964) lists 12 phonic rules. These phonic generalizations are based on the frequency of sounds and symbols. Fry states that it is necessary for the student to become adept in using these 12 phonic rules in order to accelerate their reading skills. Emphasis on phonic generalizations is also given by Winkley (1966) who found seven accent generalizations valuable in the teaching of reading. This research provides a basis for concentration on more detailed analysis of word structure.

In reviewing cues to proper meaning of words, Wiley (1928) found that many times the cues may be confusing and incomplete. This article leads to the issue that it may be necessary to teach beginning readers a hierarchical form of phonic rules. According to Emans (1967), some phonetic applications are exceptions to common generalizations. He points out that children should learn which rules to try first and which

generalization to try second. However, the teaching of phonic generalizations is at least a theoretically difficult task in the English language. Henderson (1956) implied that there is an orderly method of teaching letter sounds. This approach is to teach long vowel sounds, then short vowel sounds, and conclude with consonant sounds. This approach to the teaching of phonics does not concur with the theoretical model developed in the course of study by Grow (1969) or by Roberts (1972), both of which are supported by the use of relative frequency data by Hanna et al. (1966).

Some methods of teaching phonetics to readers are not deemed to be correct. Stott (1973) took issue that some phonetic teaching methods are very misguided. What appears to be the straight-forward method of teaching phonetics, by first practicing the phoneme-grapheme correspondences and then blending these to form words, is not a good approach according to Stott's conclusions. He states that this method of teaching phonic generalizations is based on a misunderstanding of the nature of phonics and how they are used to produce words in reading. Stott said that teachers should provide situations in which the child learns to identify and distinguish the phonemes as heard in words at a natural rate of delivery. These sounds should then be linked to their corresponding graphemes in order for maximum generalization in reading.

Certain phonic generalizations are essential to beginning reading, while others may not be so initially vital. Bailey (1967) reported that there are six vital generalizations useful to children. These generalizations are taken from those posited by Clymer (1963) and are

ones with few or no exceptions, and the frequency of usage is over 90 percent. Bailey's rules are given as follows. The number preceding the rule refers to the generalizations in the Clymer study.

1. Number 20. When c and h are next to each other, they make only one sound. This rule is valid at the 100 percent level.
2. Number 22. When c is followed by e or i, the sound of s is likely to be heard. There are 24 exceptions. This rule is valid at the 92 percent level.
3. Number 23. When the letter c is followed by o or a, the sound of k is likely to be heard. This rule is valid at the 100 percent level.
4. Number 28. When two of the same consonants are side by side, only one is heard. There are 17 exceptions to this rule which is valid at the 98 percent level.
5. Number 32. In most two-syllable words that end in a consonant followed by y, the first syllable is accented and the last syllable is unaccented. There are five exceptions to this rule, which is valid at the 97 percent level.
6. Number 40. If the last syllable of a word ends in le, the consonant preceding the le usually begins the last syllable. There are 15 exceptions to this rule, which is valid at the 93 percent level.

In developing an order of phonic generalizations, Burmeister (1968) concluded that the level of difficulty of words in general

makes no significant difference in the utility level for a phonic rule. This study also lists a complex set of rules in the teaching of phonetics. The rules previously listed by Bailey are included in the Burmeister study, and other rules are added in order to present generalizations for consonants, vowels, syllabication, and accent.

The importance of phonics in the reading program is also reported to carry into the later years in reading (Rogers, 1938), and received attention in early experimentation by Sexton and Herron (1928).

A slightly different outlook is offered by Emans (1973) who states that phonics is not a method in reading, but rather a goal. He further states that some linguists advocate the teaching of only regularly spelled words in beginning reading. The problem here is, according to Emans, that many words occurring in the English language have irregular grapheme-phoneme relationships and for this reason it is suggested that variant correspondences do have a place in teaching phonetics. This statement is important to the teacher; however, the theoretical models posited by Grow (1969) and Roberts (1972) tend to imply that irregular grapheme-phoneme correspondences should be taught after the child has mastered the higher level of symbol-sound occurrences.

Many instructors give periodic achievement tests in phonetics in order to restructure individual or group practice in reading. Ekwall (1973) suggests that the method of using standardized tests and poorly constructed informal reading inventories may not actually measure a student's ability in phonics. Ekwall suggests the method used in the Diagnostic Test of the R_x Reading Program (Ekwall and Oswald, 1970)

has certain advantages in measuring performance and knowledge in phonetics. Some of these advantages are: each initial consonant sound or consonant blend is dealt with as it would be in an actual reading situation, the method tests for knowledge of sounds and blends in word attack skills, known sight words are not used to ensure testing of letter sound associations, sounds in isolation are not used, nonsense words are used to test as though they were unfamiliar words, vowels are tested in conjunction with known consonants, and vowels in nonsense words can be constructed as to fit commonly taught vowel generalizations.

The foregoing method suggested by Ekwall measures phonic usage as a portion of the reading process. Clelland and Morgan (1966) also found that the use of phonetics is but a portion of the reading task to be mastered by students. Teaching phonic generalizations is important by this generalizations should be those occurring in a high frequency.

Research by Groff (1973) reported several errors in the use of phonics. Some of the mistakes are not presented in dogmatic form by authors and are therefore excused. Some defects are not so easily ignored as they are harmful to the beginning reader. Groff points out several of the harmful defects in teaching phonics. They include: signs of phonic readiness based on sight words, the role of syntax as cues in the recognition of words, failures to teach phonics for the various parts of speech, mistreatment of individual or regional dialect in the teaching of phonics, the teaching of dictionary syllabication,

the learning of now unmeaningful affixes, the use of popular standardized measures of phonetic development and achievement, and the lack of knowledge on the part of authors in the field of phonemics and graphemics.

The teaching of some basic phonic generalizations seems to be vital in the reading development sought after in the primary grades. The theoretical basis of this dissertation will view the organization of phonetic principles second to the development of reading materials. This method is concluded to be more a precise one in that past research has failed to develop a sound basis for phonetic generalizations established on the foundation of the English language, which is grapheme-phoneme relationships.

Phoneme-Grapheme Correspondences

The application of phoneme-grapheme correspondences to reading materials is found of little importance in many reading programs. Austin (1963) reported that in more than 95 percent of the schools she studied little emphasis on phoneme-grapheme control was found in the reading materials used in the classroom. Austin summarizes that there should be such an emphasis in the early stages of the first grade reading program to develop a basis of high utility words in reading. The practice of introducing only regularly spelled words may result in the child developing a mind set for reading only such words. The notion may develop that all words are spelled regularly and the student may become confused when he discovers they are not all regularly spelled.

This possibility is given support by a study by Levin and Watson (1963) who found that introducing variations in the regularity of phoneme-grapheme correspondences assisted students in later learning. This conclusion would have more merit if spelling and reading were one in the same learning process, rather than possessing their own particular skills to be learned by the student.

The role of grapheme-phoneme correspondences in the perception and reading of words is developed in all learners. Gibson (1962) states that a successful reader forms grapheme-phoneme relationships. This formation is said to occur whether or not the successful reader is aware of it. Inconsistencies in English orthography place a limitation on learning sound-symbol relationships as presently developed in reading materials. Initial words need to be introduced on the basis of grouped consistencies in grapheme-phoneme correspondences (Bloomfield, 1933; Soffiatti, 1955; Smith, 1959; Hall, 1961; and Fries, 1963). An article by Stone (1966) suggests that the phoneme-grapheme problem could be solved by establishing a sound-symbol relationship for each sound, by using cues such as colors to indicate which sound the symbol is being used for, and teaching this system in terms of phoneme-grapheme relative frequency correspondences. Stone and Tracy (1963) earlier developed a word list from which such a project could be undertaken to provide higher regular words for basal readers. An important point made by Stone to watch for in phoneme-grapheme relationships is that greater variability occurs for sound-symbols in vowels as does in consonants.

There has been recent attempts to measure the effects of grapheme-phoneme correspondences in reading materials. The first in a series of articles by Ruddell (1965) was a comprehensive study of students with a wide socioeconomic background measuring language structure in word reading. This study was tightly controlled for subject and methodological techniques. The results indicated that the students reading materials with regular grapheme-phoneme correspondences performed significantly higher than groups where the materials were not controlled; the measure was in word reading skills. A year later Ruddell (1966) tested reading instruction in the first grade based on varying conditions of grapheme-phoneme correspondences. He found that reading programs based on this method had significant results in word reading, word study skills, and regular word identification scores than in classrooms where the teaching method did not include regular symbol-sound relationships. There were also significant results in sentence and paragraph meaning scores in classrooms using the controlled grapheme-phoneme method. Ruddell (1967) extended this approach into the second grade and found results compatible with his earlier research. He concludes that the method of using regular grapheme-phoneme correspondences is better for beginning readers with a diversity of language skills. The research by Ruddell does present one major question, that being: Are the grapheme-phoneme correspondences said to be regular by the publishers of beginning reading materials actually based on orthographical research? At present, this question does not deviate the importance of Ruddell's research; it rather presents some doubt into the use of currently published reading materials as being controlled at the very lowest level possible.

Hanna et al. (1966) performed a very comprehensive analysis of phoneme-grapheme correspondences to be used as cues in spelling improvement. This research was modified by Grow (1969) to develop a basis for controlling words appearing in reading materials. He found that stories revised to meet his modified approach to the Hanna et al. method were much easier for subjects. The method did not leave out meaning from the original text and favorably compared in content in both cases. Roberts (1972) furthered the implications of the Grow study in finding that Navajo high school students read more rapidly and with higher comprehension scores when the text was filtered to meet the requirements of phoneme-grapheme relative frequency data correspondences.

A recent attempt at controlling correspondences in the English language was by Cronnell (1973). A lexicon of 9,000 words with 166 correspondences was developed for primary school students. This study included only one- and two-syllable words coded for correspondences, form class, stress, and grade level. This research used spelling-to-sound relationships as a basis to improve reading skills. The author does conclude that this is not the best approach as spelling-to-sound relationships are not simply reversed to sound-to-spelling correspondences, but it should be possible to relate reading and spelling in order that the latter builds on the former. The conclusion stated by Cronnell forms the basic theory from which the method of this dissertation approached.

The progress in reading research has gone from basic teacher methodology to generalized language rules and is now focusing on the

importance of studying the correspondences in the English language structure of grapheme-phoneme relative frequency data. The research included in this chapter provides a basis for developing a method of ordering reading experience through the utilization of grapheme-phoneme relative frequency correspondence control in materials used for the teaching of beginning reading.

CHAPTER III

METHODOLOGY

Word Bank Development

Symbol-sound relationships in the English language were classified using the relative frequency correspondence data adapted from the Hanna et al. (1966) study. The words were then categorized into three filter levels consisting of four sub-filters which developed into a total of 12 filter levels.

A system for categorizing any word into the filter levels of grapheme-phoneme relative frequency data was developed for use by the coders, author, and for future application of this method by researchers. This system is presented in Appendix E (submitted for copyright) of this dissertation.

A word bank was then constructed for use in this dissertation. The basic word list was adapted from Hanna et al. (1966). Other words were added to the word bank through the rewriting of the four short stories used to test the classification method developed in the process of this dissertation.

Three research assistants worked as coders during the classification of the initial word list. The words added as a process of rewriting the four short stories were categorized by the author of this dissertation. The word bank is presented in Appendix F of this dissertation.

The word bank was then used as a resource for filtering out words not occurring in regular grapheme-phoneme relative frequency correspondence in the four rewritten short stories. Words in the word bank were also used to replace irregular words in each level of filtering during the rewriting of the selected four short stories.

Procedure

This dissertation developed in four ordered phases, which are: (1) procedures for classifying words based on grapheme-phoneme relative frequency data, (2) the development of a comprehensive word bank for use in writing or rewriting original reading materials, (3) rewriting of four short stories using the grapheme-phoneme relative frequency method developed by this dissertation, and (4) testing of the four rewritten short stories against the original text version with fourth and sixth readers.

The need for developing a procedure for classifying symbol-sound relationships in words was to facilitate a more rapid and consistent method for placing words into categories of regularity. The system for this classification was considered by the author to be much more intelligible than any such method previously developed.

A word bank was required to give a comprehensive list of words for quick reference, which could be used in ordering the reading experience based on the frequency of grapheme-phoneme relationships. This word list served as a very valuable resource for the filtering out of irregular words from the original short stories used in this dissertation. It also functioned as a reference for the selection of synonyms to replace words which were omitted due to the filtering procedures.

Words were placed into filter levels in the word bank based on the most difficult single or multiple occurrence of a grapheme-phoneme relationship. The words were prepared in decoded form and each grapheme-phoneme relationship was given for each word. Webster's Seventh New Collegiate Dictionary was used in the decoding of each word by the research assistants in order to provide consistency in classification of symbol-sound relationships. An example of this procedure is shown in Figure 1.

Subjects

Thirty-six fourth grade and sixty sixth grade students from the Roy Elementary School from Roy, Utah, were used as subjects. Both male and female students were used in the study.

Measuring Instruments

Four short stories were used in both original and rewritten text form to test the method developed in this dissertation. They were: (1) "The Great Migrator" (O'Reilly, 1958); (2) "The Man in the Wicker Basket" (Toland, 1957); (3) "Onward the Lemmings" (Lister, 1958); and (4) "Rocket to London" (Ley, 1958).

Two of the short stories, "The Great Migrator" and "Rocket to London" were rewritten at the filter one level, using the sub-filter levels of one through four. These materials were selected from graded SRA reading materials as measuring instruments for fourth grade readers.

<u>Word</u>	<u>Word Decoded</u>	<u>Filter Level</u>
donate	dōnāt	1 1 1 8 1
drake	drāk	1 1 8 5
drape	drāp	1 1 8 1
drive	drīv	1 1 8 1

Figure 1. Example of the analysis of four words as presented in the word bank (Appendix I). The numbers in the filter level column refer to the filter level of each symbol-sound relationship in the word.

Two of the short stories, "Onward the Lemmings" and "The Man in the Wicker Basket," were rewritten at the filter two level, utilizing the sub-filter levels of one through eight. These materials were selected from graded SRA reading materials as measuring instruments for sixth grade readers.

It was not the intention of this dissertation to measure individual reading abilities, but rather to develop and test a method for the complexive ordering of reading experience through grapheme-phoneme relative frequency control in reading materials. Therefore, groups participating in the reading of the short stories were not measured in terms of individual scores, though recorded, but they were measured as to the average group performance while reading the original or rewritten text materials. A multiple choice test was administered after the completion of each reading exercise which measured the comprehension level of each student on the text previously read. These scores were converted into group scores to compare comprehension levels on the two

types of reading materials. To measure reading speed, each student was notified at the end of the initial two minutes of reading to circle the last word read. These scores were grouped and averaged to measure the reading rates on the two types of reading materials.

The selected short stories were then filtered for irregular occurrences based on grapheme-phoneme relationships in individual words. Filter levels one and two were used in this procedure, using sub-filters one through four and one through eight, respectively. An example of this procedure is shown in Figures 2 through 5.

"Migrating Canada geese, flying northward, their steady wingbeats accompanied by that familiar wild honking, herald springtime to people who live in the North."

Figure 2. Original text before filtering and rewriting at the filter one level. Taken from "The Great Migrator," (O'Reilly, 1958) (Appendix I).

"The clatter of Nomadic Canada geese, going to nest, tells of spring to persons living in the North."

Figure 3. Sentence in Figure 2 rewritten at the filter one level. Taken from "The Vast Nomads" (Appendix I).

"A strange procession was coming across a broad field in the beautiful new Zoological Garden of Paris on a September day in 1898."

Figure 4. Original text before filtering and rewriting at the filter two level. Taken from "The Man in the Wicker Basket," (Toland, 1957) (Appendix I).

"A strange parade was moving across a large field in a pretty garden in Paris on a September day in 1898."

Figure 5. Sentence in Figure 4 rewritten at the filter two level. Taken from "The Man in the Yellow Balloon" (Appendix I).

The original text and the rewritten version of each selected short story used to test the grapheme-phoneme relative frequency method for the complexive ordering of reading experience developed in this dissertation are presented in both forms in Appendix I.

Next, the appropriate materials were presented to either primary or intermediate readers. One-half of each group was tested on the original text materials while the other one-half read the rewritten version of the same story. On the second trial, using the other story for the appropriate group, the students read the opposite type of materials as in the first trial. Each student was matched against a student in the other group in terms of scholastic ability, based on a previously administered SRA Test of Educational Ability. This test was selected because of its availability from the school at the time of the testing.

At the end of the initial two minutes of reading time, the students were told to circle the last word read and then finish reading the story. A short multiple choice reading comprehension test adapted from the original stories, was administered after the students had finished reading each story. These tests are presented in Appendix I of this dissertation.

The reading rate was averaged from the two minutes of words read by each student. The reading comprehension level was based on the number of correctly answered questions on each selected short story. Each student read two stories, one in original form and one in rewritten text.

Null hypothesis

There is no difference between reading ability on original or rewritten text materials at either the fourth or sixth grade reading level.

To test the null hypothesis, the Sandler's A statistical method was used (Runyon and Haber, 1971). This statistic is derived from students' t-ratio and is used with correlated samples. The probability values in Sandler's A are the same as in students' p-values. The formula for Sandler's A is:

$$A = \frac{\text{the sum of the square of the differences}}{\text{the square of the sum of the differences}} = \frac{\sum D^2}{(\sum D)^2}$$

The effectiveness of the grapheme-phoneme relative frequency approach to ordering reading materials was individually measured on each story. The significance of difference found between the original and rewritten text individual reading scores was the test of the procedure suggested in this dissertation.

CHAPTER IV
RESULTS AND DISCUSSION

The results of this dissertation are discussed under five major categories. These are: (1) the development of three major filter levels, (2) the establishment of a grapheme-phoneme relative frequency correspondence data word bank, (3) rules for writing or rewriting original text materials, (4) the grapheme-phoneme method applied to original text materials, and (5) results of the testing of rewritten versus original text materials at the fourth and sixth reading levels. Each category of the results will be discussed in developmental order.

Development of Three Major Filter Levels

Before reading materials could be ordered into difficulty as to the relative frequency of grapheme-phoneme occurrences, levels for filtering out irregular correspondences were required to be established. The result of this research created three major filter levels, each consisting of four sub-filters. These filter levels were based on the modification of the Hanna et al. (1966) relative frequency tables. Each filter level is discussed below.

Filter Level One: This is the most frequent symbol-sound level. Graphemes must be represented by phonemes at a frequency of 1,000 or more as occurring in the total symbol-sounds in the English language.

Filter Level Two: This is the second most frequent symbol-sound level. Graphemes must be represented by phonemes at a frequency of 500 by less than 1,000 as occurring in the total symbol-sounds in the English language.

Filter Level Three: This is the lowest frequency level considered necessary for classification. Symbol-sound relationships less frequent than in this level are not considered regular enough to be important for early reading instruction. At the filter three level graphemes must be represented by phonemes at a frequency of at least 100 but less than 500 as occurring in the total symbol-sounds in the English language. Grapheme-phoneme relations occurring with less frequency than 100 were not classified in this system, and therefore such relationships were not allowed.

Sub-filter Levels: Under each major filter level occurs four sub-categories. These are the same in all filter levels, varying only as does the frequency of their major filter level.

S*: Single grapheme-single phoneme

MS*: Multiple grapheme-single phoneme

MM*: Multiple grapheme-multiple phoneme

X-E*, Y-E*, or Z-E*: e-cued phonemes for vowel graphemes

The three filter levels along with their sub-filter levels were consolidated into a classification matrix. In classifying a symbol-sound relationship the following procedure is applied. First find the symbol in the grapheme column, then look across the matrix to find the phoneme

* These categories are presented in graphic form in Appendix F.

for the specific grapheme in question. The next step is to look to the heading of the column in which the phoneme for the grapheme is found, this is the filter level for the symbol-sound relationship. If such a correspondence is not to be found then the grapheme-phoneme relationship occurs so infrequently that it is not to be classified in the present system. The classification matrix is presented in Appendix E. An example is shown in Figure 1 (page 23).

A Grapheme-Phoneme Relative Frequency Word Bank

The major result of this dissertation was the establishment of a word bank of over 8,000 words. These words were placed into filter levels based on their grapheme-phoneme relative frequency correspondence. This word bank was found to be a vital reference source in the testing of the grapheme-phoneme method developed in this dissertation. It was also used to a great extent in the rewriting of original text materials. Research assistants were trained to use the classification scheme shown in Appendix E of this dissertation. Using this method they placed the words from the Hanna et al. (1966) study into the filter levels. Only two errors in classification were found. These errors are noted in Appendix H, which contain the grapheme-phoneme relative frequency word bank. The supplementary word bank was developed as a result of rewriting the four short stories. These words were classified by the author of this dissertation.

Rules for Writing or Rewriting Original Text

Materials

In the rewriting of original text materials it was necessary to make allowance for some grapheme-phoneme relationships to be utilized at a frequency higher than they were classified in the method developed during this dissertation. These rules were necessary to allow clarity in sentence structure. The specific grapheme-phoneme correspondences allowed in these rules were all irregular at the filter levels allowed but are very common sight vocabulary words found in basal readers. This procedure does not follow the pure form desired in the grapheme-phoneme relative frequency method; however, the introduction of high frequency irregular correspondence words during the initial reading period does have research support (Levin and Watson, 1963).

The following list of rules was adopted for the rewriting of the four short stories used in this dissertation and are considered to be rules which may be omitted as more research is completed on the grapheme-phoneme relative frequency method for the complexive ordering of the reading experience.

1. "The" and "that" are allowed in filter one due to their utility in basal readers even though the "th" blend is not regular until the filter three level.

2. Plural forms of words are allowed at the filter level established by the basic word. For example, "belt" is a filter one word and "belts" "z" sound for the "s" is allowed at this filter level.

3. High frequency words of one-syllable that appear in basal readers, such as "of," ("f" having a "v" sound does not have a frequency over 1,000) are allowed for utility in filter one.

4. The four basic geographical directions are allowed as sight vocabulary words at the filter one level; i.e., North, South, East, and West.

5. Basic color names are allowed at the filter one level because of their high occurrence of utility in early language patterns.

6. "Ing" and "ng" may be allowed with words that are otherwise regular at the filter one and two levels. For example, "nesting" and "sing."

7. Single syllable words ending in a silent "y" grapheme with one other consonant and vowel may be permitted if the word has a utility in basal sight vocabulary. This introduction of irregular patterns in the English language is not considered too difficult for beginning readers. For example, "day," and "way."

8. Seasons of the year are permitted in filters below their classification as they are basic words desired in early language development. These are: "spring," "summer," "fall," and "winter."

9. The personal pronouns "their," "they," and "them" are allowed in filters above filter three. These words have a high frequency utilization to teach irregular patterns of grapheme-phoneme relationships early in the development of reading skills.

10. Common double sounds in high frequency basal words are allowed if they produce a consistent single vowel phoneme of high frequency. For example, "tree" and "see."

11. One-syllable state-of-being verbs are allowed in all filter levels.

12. Time of day nouns are allowed in all filter levels. For example, "morning," "afternoon," "evening," and "night."

13. Words used as verbs that have a high utility in sentence structure; i.e., "could," that are not regular at the filter one and two levels are allowed as advanced organizers to teach more difficult grapheme-phoneme relationships at the levels below their accepted regularity.

14. Sentences, clauses, or phrases which do not add to the vital information of the text may be omitted, if they contain many irregular words at the filter level being used.

15. The sounding of a final "y" grapheme may be long "e" instead of short "i," as the short "i" sounding for a final "y" is geographical in utilization.

16. Written numbers may be used as regular in place of words for numbers as they produce the same utterance. For example, "8" for "eight."

17. Proper nouns are allowed at all levels, but these should be regular when possible as many of them produce very irregular sounds; for example, "Sean."

18. The nouns "boy" and "girl" are allowed at all filter levels due to their high usage in basal reading materials.

19. "h," "j," "k," and "w" are allowed in single syllable sight vocabulary words at the filter one and two levels.

20. When synonyms or phrases cannot logically replace irregular words, the original word must be retained.

21. Pragmatic Rules:

- a. If the grapheme is pronounced in a usable utterance, though not in accordance with the grapheme-phoneme frequency classification, the usable utterance is permitted. For example, "about" or "ubout" may be understood in either form.
- b. Double consonants are moved to the filter level established by the occurrence of the consonant appearing in single form. For example, cc is placed in filter one multiple grapheme-single phoneme as it has the same usable utterance as c that is classified in filter one single grapheme-single phoneme.
- c. Double vowels are not moved to the filter level established by the single vowel sound. Single vowels generally have three high frequency phonemes of short, schwa, and long, which do not directly correspond to the double vowel sounds.

22. Another consideration has to do with equally strong sound variations of a given letter. The c-k, s problem is an example, if it is included in this high frequency position, it implies teaching the student alternate sound. This would prevent the student from developing a learning set too simple for future use.

The Grapheme-Phoneme Method Applied
to Original Text Materials

Four short stories were edited and rewritten using the procedures and rules developed in this dissertation. They were: (1) "The Great Migrator" (O'Reilly, 1958), and "Rocket to London" (Ley, 1958), both rewritten at the filter one level for testing the grapheme-phoneme method with fourth grade readers; (3) "Onward the Lemmings" (Lister, 1958), and (4) "The Man in the Wicker Basket" (Toland, 1957), rewritten at the filter two level to measure the grapheme-phoneme application to materials at the sixth grade reading level.

One of the major problems encountered in the process of this dissertation was that of attempting to maintain the poetic expression, found in the original text version of the short stories, in the text of the filtered stories. The problem in maintaining this flow of words without the possible utility of all the original words, is deserving of consideration in future research in this area. In rewriting materials it is important to translate the original passages into a filtered version which at least has concept correspondence. This problem can be of major significance when using the grapheme-phoneme relative frequency procedure to edit and rewrite original text materials, if it dilutes or destroys original meaning.

It was during the editing and rewriting of these stories that the rules discussed previously were developed. All of the short stories are presented in both original and rewritten text in Appendix I of this dissertation. Questions presented to each student at the end of each reading exercise are presented in Appendix I.

Results of the Application of Four Grapheme-Phoneme Rewritten
Short Stories Measured Against Original Text Versions

The results of the experimental and control groups reading short stories rewritten at the filter one level are shown below in Tables 1 through 4. These subjects were in the fourth grade. The stories in the original text were "Rocket to London" and "The Great Migrator." The same stories in rewritten form were "Rocket for Travel" and "The Vast Nomads," respectively.

The results of the experimental and control groups reading short stories rewritten at the filter two level are shown in Tables 5 through 8. These subjects were in the sixth grade. The stories in the original text were "Onward the Lemmings" and "The Man in the Wicker Basket." The same stories in rewritten form were "Lemmings" and "The Man in the Yellow Balloon," respectively.

Table 1. Summary of the performance of the control and experimental groups on the reading speed criterion on "Rocket to London" versus "Rocket for Travel"

Item	Experimental Group	Control Group
1. Total number of words read in one minute, based on a two minute average	4415	3455
2. Group mean	245.28	191.94
3. Sandler's A = .198*		
4. Number of subjects = 36		

*This value is significant at the .02 level.

Table 2. Summary of the performance of the control and experimental groups on the reading comprehension criteria on "Rocket to London" versus "Rocket for Travel"

Item	Experimental Group	Control Group
1. Total number of questions answered correctly	65	59
2. Group mean	3.61	3.28
3. Sandler's A = 1.22*		
4. Number of subjects = 36		

*This result is not statistically significant

Table 3. Summary of the performance of the control and experimental groups on the reading speed criterion on "The Great Migrator" versus "The Vast Nomad"

Item	Experimental Group	Control Group
1. Total number of words read in one minute, based on a two minute average	4619	3253
2. Group mean	256.61	180.72
3. Sandler's A = .14*		
4. Number of subjects = 36		

*This value is significant at the .01 level.

Table 4. Summary of the performance of the control and experimental groups on the reading comprehension criteria on "The Great Migrator" and "The Vast Nomads"

Item	Experimental Group	Control Group
1. Total number of questions answered correctly	73	75
2. Group mean	4.06	4.17
3. Sandler's A = 4.5*		
4. Number of subjects = 36		

*This value is not statistically significant.

Table 5. Summary of the performance of the control and experimental groups on the reading speed criterion on "Onward the Lemmings" and "Lemmings"

Item	Experimental Group	Control Group
1. Total number of words read in one minute, based on a two minute average	6042	6041
2. Group mean	201.40	201.36
3. Sandler's A = 19,194.37*		
4. Number of subjects = 60		

* This value is not statistically significant.

[It was brought to the attention of the author by the instructor in this class of students that they had just previously had a seminar on Lemmings in their science program. This was concluded to add to the continuity of reading speed by subjects on this short story.]

Table 6. Summary of the performance of the control and experimental groups on the reading comprehension criterion on "Onward the Lemmings" versus "Lemmings"

Item	Experimental Group	Control Group
1. Total number of questions answered correctly	93	101
2. Group mean	3.10	3.37
3. Sandler's A = 1.09*		
4. Number of subjects = 60		

* This value is not statistically significant.

Table 7. Summary of the performance of the control and experimental groups on the reading speed criterion on "The Man in the Wicker Basket" versus "The Man in the Yellow Balloon"

Item	Experimental Group	Control Group
1. Total number of words read in one minute based on a two minute average	6503	4921
2. Group mean	216.76	164.03
3. Sandler's A = .153		
4. Number of subjects = 60		

* This value is significant at the .01 level.

Table 8. Summary of the performance of the control and experimental groups on the reading comprehension criterion on "The Man in the Wicker Basket" versus "The Man in the Yellow Balloon"

Item	Experimental Group	Control Group
1. Total number of questions answered correctly	97	92
2. Group mean	3.23	3.06
3. Sandler's A = 2.33*		
4. Number of subjects = 60		

* This value is not statistically significant.

The summary of the results is presented in Table 9.

Table 9. Summary of results

Story	Experimental Group	Control Group	Significance Level
1. "Rocket to London" versus "Rocket for Travel"			
a. Reading speed average	245.28	191.94	.02S*
b. Reading comprehension average	3.61	3.28	NS**
2. "The Great Migrator" versus "The Vast Nomads"			
a. Reading speed average	256.61	180.72	.01S*
b. Reading comprehension average	4.06	4.17	NS**
3. "Onward the Lemmings" versus "Lemmings"			
a. Reading speed average	201.40	201.36	NS**
b. Reading comprehension average	3.10	3.37	NS**
4. "The Man in the Wicker Basket" versus "The Man in the Yellow Balloon"			
a. Reading speed average	216.76	164.03	.01S*
b. Reading comprehension average	3.23	3.06	NS**

* Significance level

** Not significant

In summary, the null hypothesis was not rejected in any case concerning the reading comprehension criterion. It was rejected on all stories concerning the reading speed criterion, except the case of "Onward the Lemmings" and "Lemmings." The failure to reject the null hypothesis on this story was felt to be due to the recent discussion on Lemmings in this class.

There seems to be evidence that students can read faster on materials with regular grapheme-phoneme correspondences, if the materials have no covariate effect as was on one of the short stories.

There is no present evidence to conclude that reading comprehension is improved or decreased with grapheme-phoneme controlled materials, since reading comprehension was essentially the same for both methods.

CHAPTER V

SUMMARY

The major accomplishments of this dissertation were: (1) the development of a method for classifying words using grapheme-phoneme relative frequency correspondence data, (2) the establishment of a word bank using various levels of frequency of grapheme-phoneme relationships, and (3) testing this method as a possible way of ordering reading experience with beginning readers.

The methodology used to accomplish these objectives consisted of four phases. They were: (1) developing a scheme for classifying grapheme-phoneme correspondences in words, (2) the ordering of several thousand words into a word bank based on relative frequency of grapheme-phoneme occurrences in the English language, (3) rewriting four short stories using the grapheme-phoneme relative frequency method, and (4) testing the rewritten materials to measure the possibility of the grapheme-phoneme method in the complexive ordering of the reading experience.

A method was devised for classifying grapheme-phoneme occurrences in words. A word bank was established using the grapheme-phoneme relative frequency method. Four short stories, "Onward the Lemmings," "Rocket to London," "The Great Migrator," and "The Man in the Wicker Basket," were rewritten for use as measuring devices.

Students in the fourth grade read two stories, one in original text and one in rewritten text, which when rewritten were based on the filter

one level. Students in the sixth grade read two stories, one in each form, which when rewritten were based on the filter two level. The differences between reading speed and reading comprehension served as the criteria for measurement of the potentiality of the grapheme-phoneme relative frequency method for ordering the reading experience.

Major Findings

The potential for increasing reading speed using materials of high relative frequency in grapheme-phoneme correspondences was verified by this dissertation.

The improvement of reading comprehension using this same method was not verified by this dissertation. There was no difference in reading comprehension scores on the two variations which leads to the conclusion that the comprehension on the rewritten version is at least as good as on original text materials.

The grapheme-phoneme relative frequency approach is not advocated as the means of teaching all reading. It does serve as a logical description from which to teach developmental reading systematically. Such an approach had not previously been experimented with to this extent. This grapheme-phoneme relative frequency approach to teaching reading is directly related to critical learning stages.

Problems in writing materials using this approach exist in that many verbs and pronouns are filtered out at the filter one and two levels. These difficulties are at present reduced by establishing needed exceptions for editing and writing reading materials.

Conclusions

1. Grapheme-phoneme relative frequency controlled reading materials offer a usable approach for increasing the reading speed of elementary students.

2. The grapheme-phoneme relative frequency method does not decrease simple reading comprehension of elementary readers.

3. All English words can be ordered as to degrees of difficulty by using grapheme-phoneme relative frequency occurrences.

4. The word bank established as part of this dissertation can be expanded to include many more words.

Recommendations

It is recommended that:

1. More research be made as to the logic of the filter levels. It may be possible to develop a filtering system which would be more flexible at the filter one and two levels by systematically varying the frequency of occurrences.

2. The existing word bank be expanded to include more words for basal reading materials.

3. The word bank be ordered not only in filter levels, but as to the parts of speech in the English language.

4. The rules for editing and writing reading materials, developed in this dissertation, be reviewed and condensed where possible.

5. Further research be conducted to measure the potentiality of the grapheme-phoneme relative frequency method as a technique for increasing reading comprehension.

6. The pragmatic rules developed in this dissertation be applied to the total classification scheme as a criterion for placing words into filter levels.

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APPENDICES

Appendix A

Tabulations for Total Occurances of Graphemes with
Phoneme Representations in American English: 22-Vowel and
30-Consonant Classification

[Modified from Hanna et. al. (1966)]

Total Vowel Phonemes	<u>38,725</u>
Total Vowel-R-Cued Phonemes	<u>2,964</u>
Total Vowel and Vowel-R-Cued Phonemes	<u><u>41,689</u></u>
Total Consonant Phonemes	<u>66,997</u>
Total Phonemes for Graphemes - All Catagories	<u><u>108,686</u></u>
Percent Vowel-Phonemes	<u>.3563016</u>
Percent Vowel-R-Cued Phonemes	<u>.0272712</u>
Percent Total Vowel Phonemes	<u>.3835728</u>
Percent Consonant-Phonemes	<u>.6164271</u>

Appendix B

Grapheme Frequency and Percentage Tabulations for
Vowel-R-Cued Phonemes Occuring in American
English: 22-Vowel Classification
 [Modified from Hanna et. al. (1966)]

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
A	er	168	.06	.004	.001
E	er	1979	.67	.047	.018
EA	er	29	.01	.000	.000
EA-E	er	2	.00	.000	.000
E-E	er	42	.01	.001	.000
EU	er	6	.00	.000	.000
I	er	122	.04	.002	.001
I-E	er	1	.00	.000	.000
O	er	319	.11	.007	.002
O-E	er	1	.00	.000	.000
OU	er	22	.01	.000	.000
OU-E	er	1	.00	.000	.000
U	er	233	.08	.005	.002
U-E	er	33	.01	.000	.000
Y	er	6	.00	.000	.000
TOTALS	--	<u>2964</u>		<u>.071</u>	<u>.027</u>

Appendix C

Grapheme Frequency and Percentage Tabulations for VowelPhonemes Occuring in American English:22-Vowel Classification

[Modified from Hanna et. al. (1966)]

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
A	ʌ	4192	.55	.100	.038
	u or ə	1438	.19	.034	.013
	a	1002	.13	.024	.009
	o	763	.10	.018	.007
	e	158	.02	.003	.001
	i	4	.00	.000	.000
		<u>7757</u>		<u>.186</u>	<u>.071</u>
A-E	a	790	.77	.018	.007
	ʌ	147	.14	.003	.001
	e	51	.05	.001	.000
	o	33	.03	.000	.000
	u or ə	3	.00	.000	.000
		<u>1025</u>		<u>.024</u>	<u>.009</u>
AE	e	5	.83	.000	.000
	eʌ	1	.16	.000	.000
		<u>6</u>		<u>.000</u>	<u>.000</u>

Appendix C (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
AH	o	4	1.00	<u>.000</u>	<u>.000</u>
		4		.000	.000
AI	a	208	.73	.004	.001
	e	50	.18	.001	.000
	i	15	.05	.000	.000
	u or ə	9	.03	.000	.000
	ɹ	1	.00	<u>.000</u>	<u>.000</u>
		283		.006	.002
AI-E	a	18	.82	.000	.000
	e	3	.14	.000	.000
	i	1	.04	<u>.000</u>	<u>.000</u>
		22		.000	.000
AIGH	a	4	1.00	<u>.000</u>	<u>.000</u>
		4		.000	.000
AL	l	4	1.00	<u>.000</u>	<u>.000</u>
		4		.000	.000
AO	o	2	1.00	<u>.000</u>	<u>.000</u>
		2		.000	.000
AU	o	150	.98	.003	.001
		3	.02	<u>.000</u>	<u>.000</u>
		153		.003	.001

Appendix C (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
AU-E	o	9	.75	.000	.000
	o	2	.17	.000	.000
	a	1	.08	.000	.000
		<u>12</u>		<u>.000</u>	<u>.000</u>
AUGH	o	12	1.00	.000	.000
		<u>12</u>		<u>.000</u>	<u>.000</u>
AW	o	75	1.00	.001	.000
		<u>75</u>		<u>.001</u>	<u>.000</u>
AW-E	o	2	1.00	.000	.000
		<u>2</u>		<u>.000</u>	<u>.000</u>
AY	a	131	.96	.003	.001
	i	3	.02	.000	.000
	e	1	.01	.000	.000
	i	1	.01	.000	.000
		<u>136</u>		<u>.003</u>	<u>.001</u>
AY-E	a	1	1.00	.000	.000
		<u>1</u>		<u>.000</u>	<u>.000</u>

Appendix C (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
E	e	3320	.56	.079	.030
	ɛ	1765	.30	.042	.016
	u or ə	763	.13	.018	.007
	i	64	.01	.001	.000
	a	16	.00	.000	.000
	o	5	.00	.000	.000
	y	1	.00	.000	.000
		<u>5934</u>		<u>.142</u>	<u>.054</u>
EA	e	245	.51	.005	.002
	ɛ	152	.32	.003	.001
	i	50	.10	.001	.000
	o	18	.04	.000	.000
	a	14	.03	.000	.000
	u or ə	3	.00	.000	.000
		<u>482</u>		<u>.011</u>	<u>.004</u>
EA-E	e	30	.94	.000	.000
	ɛ	1	.03	.000	.000
	i	1	.03	.000	.000
		<u>32</u>		<u>.000</u>	<u>.000</u>

Appendix C (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
EAH	oɔ	6	.55	.000	.000
	u	5	.45	.000	.000
		<u>11</u>		<u>.000</u>	<u>.000</u>
ED	t	216	1.00	.005	.001
		<u>216</u>		<u>.005</u>	<u>.001</u>
E-E	eɔ	113	.37	.002	.001
	u or ə	101	.33	.002	.000
	e	62	.20	.001	.000
	i:ɔ	27	.09	.000	.000
	a	6	.01	.000	.000
		<u>309</u>		<u>.007</u>	<u>.001</u>
EE	e	249	.86	.005	.002
	i	42	.14	.001	.000
		<u>291</u>		<u>.006</u>	<u>.002</u>
EE-E	e	9	1.00	.000	.000
		<u>9</u>		<u>.000</u>	<u>.000</u>
EI	e	16	.28	.000	.000
	a	14	.24	.000	.000
	i	13	.22	.000	.000
	eɔ	7	.12	.000	.000
	i	6	.10	.000	.000
	u or ə	2	.03	.000	.000
		<u>58</u>		<u>.001</u>	<u>.000</u>

Appendix C (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
EI-E	\bar{e}	6	.75	.000	.000
	\bar{a}	2	.25	.000	.000
		<u>8</u>		<u>.000</u>	<u>.000</u>
EIGH	\bar{a}	18	.86	.000	.000
	\bar{i}	3	.14	.000	.000
		<u>21</u>		<u>.000</u>	<u>.000</u>
EL	l	19	1.00	.000	.000
		<u>19</u>		<u>.000</u>	<u>.000</u>
EN	n	84	1.00	.002	.000
		<u>84</u>		<u>.002</u>	<u>.000</u>
EO	\bar{u} or $\bar{\theta}$	10	.66	.000	.000
	\bar{e}	3	.20	.000	.000
	\bar{e}	2	.13	.000	.000
		<u>15</u>		<u>.000</u>	<u>.000</u>
EOU	\bar{u} or $\bar{\theta}$	8	1.00	.000	.000
		<u>8</u>		<u>.000</u>	<u>.000</u>
ES	z	44	1.00	.001	.000
		<u>44</u>		<u>.001</u>	<u>.000</u>
ET	\bar{a}	9	1.00	.000	.000
		<u>9</u>		<u>.000</u>	<u>.000</u>

Appendix C (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
EU	ü	28	.85	.000	.000
	oo	4	.12	.000	.000
	oo	1	.03	.000	.000
		<u>33</u>		<u>.000</u>	<u>.000</u>
EU-E	ü	1	1.00	.000	.000
		<u>1</u>		<u>.000</u>	<u>.000</u>
EW	ü	39	.61	.000	.000
	oo	22	.34	.000	.000
	o	3	.05	.000	.000
		<u>64</u>		<u>.001</u>	<u>.000</u>
EW-E	ü	1	1.00	.000	.000
		<u>1</u>		<u>.000</u>	<u>.000</u>
EY	ç	40	.65	.000	.000
	i	14	.23	.000	.000
	a	6	.10	.000	.000
	e	1	.02	.000	.000
	eç	1	.02	.000	.000
	i	1	.02	.000	.000
	<u>62</u>		<u>.001</u>	<u>.000</u>	
EY-E	i	7	1.00	.000	.000
		<u>7</u>		<u>.000</u>	<u>.000</u>

Appendix C (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
I	i	5349	.73	.128	.049
	u or ə	1347	.18	.032	.012
	i	554	.08	.013	.005
	y	66	.01	.001	.000
	e	38	.00	.000	.000
		<u>7354</u>		<u>.176</u>	<u>.067</u>
IA	u or ə	2	1.00	.000	.000
		<u>2</u>		<u>.000</u>	<u>.000</u>
IA-E	i	3	1.00	.000	.000
		<u>3</u>		<u>.000</u>	<u>.000</u>
I-E	i	555	.59	.013	.005
	i	339	.36	.008	.003
	e	44	.05	.001	.000
	u or ə	6	.00	.000	.000
		<u>944</u>		<u>.022</u>	<u>.008</u>
IE	i	43	.34	.001	.000
	e	33	.26	.000	.000
	i	26	.20	.000	.000
	u or ə	22	.17	.000	.000
	e	4	.03	.000	.000
	<u>128</u>		<u>.003</u>	<u>.001</u>	

Appendix C (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
IE-E	e	23	.74	.000	.000
	i	4	.13	.000	.000
	u or ə	4	.13	.000	.000
		<u>31</u>		<u>.000</u>	<u>.000</u>
IEU	u	4	1.00	.000	.000
		<u>4</u>		<u>.000</u>	<u>.000</u>
IEW	u	6	1.00	.000	.000
		<u>6</u>		<u>.000</u>	<u>.000</u>
IGH	i	88	1.00	.002	.000
		<u>88</u>		<u>.002</u>	<u>.000</u>
IL	l	7	1.00	.000	.000
		<u>7</u>		<u>.000</u>	<u>.000</u>
IN	n	3	1.00	.000	.000
		<u>3</u>		<u>.000</u>	<u>.000</u>
O	o	1993	.35	.047	.018
	o	1876	.33	.044	.017
	u or ə	1723	.31	.041	.015
	oo	37	.01	.000	.000
	oo	17	.00	.000	.000
	i	1	.00	.000	.000
		<u>5647</u>		<u>.135</u>	<u>.051</u>

Appendix C (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
OA	o	126	.93	.003	.001
	o	9	.06	.000	.000
		<u>135</u>		<u>.003</u>	<u>.001</u>
OA-E	o	3	1.00	.000	.000
		<u>3</u>		<u>.000</u>	<u>.000</u>
O-E	o	370	.79	.008	.003
	u or ə	47	.10	.001	.000
	o	41	.08	.000	.000
	oo	12	.02	.000	.000
		<u>470</u>		<u>.011</u>	<u>.004</u>
OE	o	13	.59	.000	.000
	e	5	.23	.000	.000
	oo	4	.18	.000	.000
		<u>22</u>		<u>.000</u>	<u>.000</u>
OH	o	4	1.00	.000	.000
		<u>4</u>		<u>.000</u>	<u>.000</u>
OI	oi	92	1.00	.002	.000
		<u>92</u>		<u>.002</u>	<u>.000</u>
OI-E	oi	8	.80	.000	.000
	u or ə	2	.20	.000	.000
		<u>10</u>		<u>.000</u>	<u>.000</u>

Appendix C (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
OL	l	<u>1</u> 1	1.00	<u>.000</u> .000	<u>.000</u> .000
ON	n	<u>41</u> 41	1.00	<u>.000</u> .000	<u>.000</u> .000
OO	oo	173	.57	.004	.001
	oo	114	.38	.002	.001
	o	9	.03	.000	.000
	u or ə	<u>7</u>	.02	<u>.000</u>	<u>.000</u>
		303		.007	.002
OO-E	oo	<u>12</u> 12	1.00	<u>.000</u> .000	<u>.000</u> .000
OU	u or ə	339	.52	.008	.003
	ou	227	.35	.005	.002
	o	29	.04	.000	.000
	oo	29	.04	.000	.000
	oo	25	.04	.000	.000
	w	<u>1</u>	.00	<u>.000</u>	<u>.000</u>
		650		.015	.005
OU-E	ou	54	.79	.001	.000
	o	10	.15	.000	.000
	oo	<u>4</u>	.06	<u>.000</u>	<u>.000</u>
		68		.001	.000

Appendix C (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
OUGH	ɔ	15	.52	.000	.000
	o	8	.28	.000	.000
	ou	4	.14	.000	.000
	oo	2	.06	.000	.000
		<u>29</u>		<u>.000</u>	<u>.000</u>
OW	o	124	.50	.002	.001
	ou	119	.48	.002	.001
	ɔ	4	.02	.000	.000
		<u>247</u>		<u>.005</u>	<u>.002</u>
OW-E	ou	2	.66	.000	.000
	o	1	.33	.000	.000
		<u>3</u>		<u>.000</u>	<u>.000</u>
OY	oi	48	.98	.001	.000
	i	1	.02	.000	.000
		<u>49</u>		<u>.001</u>	<u>.000</u>
U	u or ʊ	1509	.57	.036	.013
	ɪ	814	.31	.019	.007
	ɔ	200	.07	.004	.001
	oo	93	.03	.002	.000
	w	47	.02	.001	.000
	i	3	.00	.000	.000
	e	2	.00	.000	.000
		<u>2668</u>		<u>.063</u>	<u>.024</u>

Appendix C (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
U-E	u	256	.76	.006	.002
	oo	34	.10	.000	.000
	u or ə	27	.08	.000	.000
	oo	17	.05	.000	.000
	i	3	.01	.000	.000
		<u>337</u>		.008	.003
UE	u	27	.63	.000	.000
	oo	16	.37	.000	.000
		<u>43</u>		.001	.000
UI	e	16	.53	.000	.000
	u	8	.27	.000	.000
	oo	6	.20	.000	.000
		<u>30</u>		.000	.000
UI-E	oo	4	1.00	.000	.000
		<u>4</u>		.000	.000
UO	oo	2	1.00	.000	.000
		<u>2</u>		.000	.000
UY	i	3	1.00	.000	.000
		<u>3</u>		.000	.000
Y	i	1801	.87	.043	.016
	i	211	.10	.005	.001
	y	53	.03	.001	.000
		<u>2065</u>		.049	.018
Y-E	i	1	1.00	.000	.000
		<u>1</u>		.000	.000

Appendix D

Grapheme Frequency and Percentage Tabulations for
Consonant Phonemes Occuring in American
English: 30-Consonant Classification
 [Modified from Hanna et. al. (1966)]

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
B	b	2239	1.00	.033	.020
		2239		.033	.020
BB	b	63	1.00	.000	.000
		63		.000	.000
BT	t	11	1.00	.000	.000
		11		.000	.000
C	k	3452	.76	.051	.031
	s	1067	.23	.015	.009
	sh	38	.01	.000	.000
	ch	2	.00	.000	.000
		4559		.068	.041
CC	k	76	1.00	.001	.000
		76		.001	.000
CCH	k	1	1.00	.000	.000
		1		.000	.000

Appendix D (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
CE	sh	<u>2</u> 2	1.00	<u>.000</u> .000	<u>.000</u> .000
CH	ch	313	.64	.004	.002
	k	142	.29	.002	.001
	sh	<u>34</u> 489	.07	<u>.000</u> .007	<u>.000</u> .004
CHT	t	<u>2</u> 2	1.00	<u>.000</u> .000	<u>.000</u> .000
CI	sh	<u>81</u> 81	1.00	<u>.001</u> .001	<u>.000</u> .000
CK	k	<u>290</u> 290	1.00	<u>.004</u> .004	<u>.002</u> .002
CQ	k	<u>3</u> 3	1.00	<u>.000</u> .000	<u>.000</u> .000
CQU	kw	<u>5</u> .5	1.00	<u>.000</u> .000	<u>.000</u> .000
CS	ks	<u>26</u> 26	1.00	<u>.000</u> .000	<u>.000</u> .000
CT	t	<u>2</u> 2	1.00	<u>.000</u> .000	<u>.000</u> .000

Appendix D (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
CZ	z	<u>1</u>	1.00	<u>.000</u>	<u>.000</u>
		1		.000	.000
D	d	3611	.99	.053	.033
		<u>32</u>	.01	<u>.000</u>	<u>.000</u>
	3643		.054	.033	
DD	d	<u>74</u>	1.00	<u>.001</u>	<u>.000</u>
		74		.001	.000
DG	j	<u>51</u>	1.00	<u>.000</u>	<u>.000</u>
		51		.000	.000
DI	j	<u>2</u>	1.00	<u>.000</u>	<u>.000</u>
		2		.000	.000
DJ	j	<u>16</u>	1.00	<u>.000</u>	<u>.000</u>
		16		.000	.000
F	f	1580	.99	.023	.014
		<u>3</u>	.00	<u>.000</u>	<u>.000</u>
	1583		.023	.014	
FF	f	<u>177</u>	1.00	<u>.002</u>	<u>.001</u>
		177		.002	.001
FT	f	<u>3</u>	1.00	<u>.000</u>	<u>.000</u>
		3		.000	.000

Appendix D (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
G	g	1178	.64	.017	.010
	j	647	.35	.009	.005
	zh	<u>15</u>	.01	<u>.000</u>	<u>.000</u>
		1840		.027	.016
GG	g	67	.97	.001	.000
	j	<u>2</u>	.03	<u>.000</u>	<u>.000</u>
		69		.001	.000
GH	g	10	.56	.000	.000
	f	<u>8</u>	.44	<u>.000</u>	<u>.000</u>
		18		.000	.000
GI	j	<u>14</u>	1.00	<u>.000</u>	<u>.000</u>
		14		.000	.000
GM	m	<u>7</u>	1.00	<u>.000</u>	<u>.000</u>
		7		.000	.000
GN	n	<u>32</u>	1.00	<u>.000</u>	<u>.000</u>
		32		.000	.000
GU	g	<u>19</u>	1.00	<u>.000</u>	<u>.000</u>
		19		.000	.000
GUE	g	<u>21</u>	1.00	<u>.000</u>	<u>.000</u>
		21		.000	.000

Appendix D (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
H	h	762	.95	.011	.007
	h (silent)	41	.05	.000	.000
		<u>803</u>		<u>.011</u>	<u>.007</u>
J	j	218	1.00	<u>.003</u>	<u>.002</u>
		218		<u>.003</u>	<u>.002</u>
K	k	601	1.00	<u>.008</u>	<u>.005</u>
		601		<u>.008</u>	<u>.005</u>
KH	k	3	1.00	<u>.000</u>	<u>.000</u>
		3		<u>.000</u>	<u>.000</u>
KN	n	41	1.00	<u>.000</u>	<u>.000</u>
		41		<u>.000</u>	<u>.000</u>
L	l	4894	1.00	<u>.073</u>	<u>.045</u>
		4894		<u>.073</u>	<u>.045</u>
LD	d	6	1.00	<u>.000</u>	<u>.000</u>
		6		<u>.000</u>	<u>.000</u>
LE	el	620	1.00	<u>.009</u>	<u>.005</u>
		620		<u>.009</u>	<u>.005</u>
LF	f	9	1.00	<u>.000</u>	<u>.000</u>
		9		<u>.000</u>	<u>.000</u>
LK	k	14	1.00	<u>.000</u>	<u>.000</u>
		14		<u>.000</u>	<u>.000</u>

Appendix D (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
LL	l	<u>489</u>	1.00	<u>.007</u>	<u>.004</u>
		489		.007	.004
LM	m	<u>17</u>	1.00	<u>.000</u>	<u>.000</u>
		17		.000	.000
LN	l	<u>1</u>	1.00	<u>.000</u>	<u>.000</u>
		1		.000	.000
LY	y	<u>4</u>	1.00	<u>.000</u>	<u>.000</u>
		4		.000	.000
M	m	3302	.97	.049	.030
		<u>97</u>	.03	<u>.001</u>	<u>.000</u>
		3399		.050	.031
MB	m	<u>27</u>	1.00	<u>.000</u>	<u>.000</u>
		27		.000	.000
MM	m	<u>140</u>	1.00	<u>.002</u>	<u>.001</u>
		140		.002	.001
MN	m	7	.88	.000	.000
		<u>1</u>	.12	<u>.000</u>	<u>.000</u>
		8		.000	.000
N	n	7452	.97	.111	.068
		<u>251</u>	.03	<u>.003</u>	<u>.002</u>
		7703		.114	.070

Appendix D (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
NG	ng	<u>362</u>	1.00	<u>.005</u>	<u>.003</u>
		362		.005	.003
NGUE	ng	<u>2</u>	1.00	<u>.000</u>	<u>.000</u>
		2		.000	.000
NN	n	<u>127</u>	1.00	<u>.001</u>	<u>.001</u>
		127		.001	.001
P	p	<u>3296</u>	1.00	<u>.049</u>	<u>.030</u>
		3296		.049	.030
PB	b	<u>1</u>	1.00	<u>.000</u>	<u>.000</u>
		1		.000	.000
PH	f	<u>242</u>	1.00	<u>.003</u>	<u>.002</u>
		242		.003	.002
PN	n	<u>3</u>	1.00	<u>.000</u>	<u>.000</u>
		3		.000	.000
PP	p	<u>153</u>	1.00	<u>.002</u>	<u>.001</u>
		153		.002	.001
PS	s	<u>33</u>	1.00	<u>.000</u>	<u>.000</u>
		33		.000	.000
PT	t	<u>3</u>	1.00	<u>.000</u>	<u>.000</u>
		3		.000	.000

Appendix D (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
Q	k	<u>20</u>	1.00	<u>.000</u>	<u>.000</u>
		20		.000	.000
QU	kw	191	.88	.002	.001
	k	<u>27</u>	.12	<u>.000</u>	<u>.000</u>
		218		.003	.002
R	r	<u>9119</u>	1.00	<u>.136</u>	<u>.083</u>
		9119		.136	.083
RR	r	<u>207</u>	1.00	<u>.003</u>	<u>.001</u>
		207		.003	.001
RH	r	<u>16</u>	1.00	<u>.000</u>	<u>.000</u>
		16		.000	.000
S	s	4599	.87	.068	.042
	z	640	.12	.009	.005
	zh	34	.01	.000	.000
	sh	<u>20</u>	.00	<u>.000</u>	<u>.000</u>
		5293		.079	.048
SC	s	77	.87	.001	.000
	sh	6	.07	.000	.000
	k	3	.03	.000	.000
	z	<u>3</u>	.03	<u>.000</u>	<u>.000</u>
		89		.001	.000

Appendix D (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
SCH	s	2	.50	.000	.000
	h	<u>2</u> 4	.50	<u>.000</u> .000	<u>.000</u> .000
SCI	sh	<u>5</u> 5	1.00	<u>.000</u> .000	<u>.000</u> .000
	SH	<u>398</u> 398	1.00	<u>.005</u> .005	<u>.003</u> .003
SI	zh	50	.57	.000	.000
	sh	<u>38</u> 88	.43	<u>.000</u> .001	<u>.000</u> .000
SS	s	442	.95	.006	.004
	z	13	.03	.000	.000
	sh	<u>9</u> 464	.02	<u>.000</u> .006	<u>.000</u> .004
SSI	sh	<u>51</u> 51	1.00	<u>.000</u> .000	<u>.000</u> .000
	ST	<u>33</u> 33	1.00	<u>.000</u> .000	<u>.000</u> .000
SW	s	<u>4</u> 4	1.00	<u>.000</u> .000	<u>.000</u> .000

Appendix D (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
T	t	7528	.97	.112	.069
	ch	175	.02	.002	.001
	sh	30	.00	.000	.000
		<u>7733</u>		<u>.115</u>	<u>.071</u>
TCH	ch	61	1.00	.000	.000
		<u>61</u>		<u>.000</u>	<u>.000</u>
TH	th (thin)	411	.73	.006	.003
	th (that)	149	.27	.002	.001
	th	1	.00	.000	.000
		<u>561</u>		<u>.008</u>	<u>.005</u>
TI	sh	820	.98	.012	.007
	ch	13	.02	.000	.000
	zh	1	.00	.000	.000
		<u>834</u>		<u>.012</u>	<u>.007</u>
TT	t	216	1.00	.003	.001
		<u>216</u>		<u>.003</u>	<u>.001</u>
TW	t	3	1.00	.000	.000
		<u>3</u>		<u>.000</u>	<u>.000</u>
V	v	1485	1.00	.022	.013
		<u>1485</u>		<u>.022</u>	<u>.013</u>

Appendix D (Continued)

Grapheme	Phoneme	Frequency	In-Group Percentage	In-Class Percentage	Total Percentage
W	w	<u>578</u>	1.00	<u>.008</u>	<u>.005</u>
		578		.008	.005
WH	hw	89	.85	.001	.000
	h	<u>16</u>	.15	<u>.000</u>	<u>.000</u>
		105		.001	.000
WR	r	<u>48</u>	1.00	<u>.000</u>	<u>.000</u>
		48		.000	.000
X	ks	245	.50	.003	.002
	k	80	.16	.001	.000
	s	77	.16	.001	.000
	g	42	.08	.000	.000
	z	42	.08	.000	.000
	sh	<u>3</u>	.00	<u>.000</u>	<u>.000</u>
		489		.007	.004
Z	z	229	.97	.003	.002
	s	6	.03	.000	.000
	zh	<u>2</u>	.00	<u>.000</u>	<u>.000</u>
237		.003		.002	

Appendix E

Classification Matrix^a

^aCopyright applied for.

CLASSIFICATION MATRIX

GRAPHEME	PHONEMES											
	<u>Filter One (1000+)</u>				<u>Filter Two (500+)</u>				<u>Filter Three (100+)</u>			
	S	MS	MM	X-E	S	MS	MM	Y-E	S	MS	MM	Z-E
A	a	u	a		o				e			
A-E								a				a
AI										a		
AU										o		
AY										a		
AR										"er"		
B	B											
BB		(B)										
C	K S											
CC		(K)										
CH										K	CH	
CK										K		
D	D											
DD		(D)										

GRAPHHEME	PHONEMES											
	Filter One (1000+)				Filter Two (500+)				Filter Three (100+)			
	S	MS	MM	X-E	S	MS	MM	Y-E	S	MS	MM	Z-E
E	e e				u							
EA									e e			
ED									t			
E-E												e u
EE									e			
ER		"er"										
F	F											
FF		(F)							F			
G	G				J							
GG		(G)										
H					H							
I	i u				i							
I-E								i				i
IR									"er"			
J									J			

GRAPHEME	PHONEMES											
	<u>Filter One (1000+)</u>				<u>Filter Two (500+)</u>				<u>Filter Three (100+)</u>			
	S	MS	MM	X-E	S	MS	MM	Y-E	S	MS	MM	Z-E
K					K							
L	L											
LE					"el"							
LL		(L)								L		
M	M											
MM		(M)								M		
N	N								"NG"			
NG											NG	
NN	(N)									N		
O	o o u											
OA										o		
O-E												o
OO											o o o	
OU										o u	o u	
OW										o o	o u	

GRAPHEME	PHONEMES											
	<u>Filter One (1000+)</u>				<u>Filter Two (500+)</u>				<u>Filter Three (100+)</u>			
	S	MS	MM	X-E	S	MS	MM	Y-E	S	MS	MM	Z-E
OR										"er"		
P	P											
PH										F		
PP		(P)								P		
QU											KW	
R	R											
RR		(R)								R		
S	S				Z							
SH											SH	
SS		(S)								S		
T	T								"CH"			
TH											TH ⁽¹⁾ TH ⁽²⁾	
TI						SH						
TT		(T)								T		
U	U				U				"oo"			

GRAPHEME	PHONEMES											
	<u>Filter One (1000+)</u>				<u>Filter Two (500+)</u>				<u>Filter Three (100+)</u>			
	S	MS	MM	X-E	S	MS	MM	Y-E	S	MS	MM	Z-E
U-E												ū
UR										"er"		
V	V											
W					W							
X									"KS"			
Y	ı								ı			
Z									z			

Appendix F

Word Bank^a

^aCopyright applied for.

FILTER ONE

WORD	DECODE	FILTER LEVEL
abduct	ǎbdũkt	1 1 1 1 1 1
abed	ũbĕd	1 1 1 1
abet	ũbĕt	1 1 1 1
ability	ũbilũti	1 1 1 1 1 1 1
ably	ābli	1 1 1 1
abnormal	ǎbnõrmũl	1 1 1 1 1 1 1 1
abnormality	ǎbnõrmǎlũti	1 1 1 1 1 1 1 1 1 1 1
abort	ũbõrt	1 1 1 1 1
abrupt	ũbrũpt	1 1 1 1 1 1
abscond	ǎbskõnd	1 1 1 1 1 1 1
absorb	ǎbsõrb	1 1 1 1 1 1
abstract	ǎbstrǎkt	1 1 1 1 1 1 1 1
abundant	ũbũndũnt	1 1 1 1 1 1 1 1
acorn	ākõrn	1 1 1 1 1
acrid	ǎkrũd	1 1 1 1 1
acrobat	ǎkrũbǎt	1 1 1 1 1 1 1
act	ǎkt	1 1 1
activity	ǎktivũtĕ	1 1 1 1 1 1 1 1
ad	ǎd	11
adapt	ũdǎpt	1 1 1 1 1
adaptability	ũdǎptũbilũty	1 1 1 1 1 1 1 1 1 1 1 1
adept	ǎdĕpt	1 1 1 1 1

WORD	DECODE	FILTER LEVEL
adopt	ūdōpt	1 1 1 1 1
adorn	ūdōrn	1 1 1 1 1
adrenal	ūdrēnūl	1 1 1 1 1 1 1
adrift	ūdrift	1 1 1 1 1 1
adroit	ūdroit	1 1 1 1 1 1
adsorb	ādsōrb	1 1 1 1 1 1
adult	ūdūlt	1 1 1 1 1
advent	ādvent	1 1 1 1 1 1
aft	āft	1 1 1
agnostic	āgnōstik	1 1 1 1 1 1 1 1
agronomy	ūgrōnūmī	1 1 1 1 1 1 1 1
agony	āgunē	1 1 1 1 1
airy	āri	1 1 1
alacrity	ūlākrtī	1 1 1 1 1 1 1 1
album	ālbūm	1 1 1 1 1
alert	ūlert	1 1 1 1 1
alfalfa	ālfālfū	1 1 1 1 1 1 1
alfresco	ālfreskō	1 1 1 1 1 1 1 1
aloft	ūloft	1 1 1 1 1
alto	āltō	1 1 1 1
alum	ālūm	1 1 1 1
am	ām	1 1
amen	āmēn	1 1 1 1
amend	ūmēnd	1 1 1 1 1
amenity	ūmēnūtē	1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
amid	ũmid	1 1 1 1
amidst	ũmidst	1 1 1 1 1 1
amity	ãmütĩ	1 1 1 1 1
amoral	ãmörül	1 1 1 1 1 1
amorist	ãmürüst	1 1 1 1 1 1 1
amply	ãmplĩ	1 1 1 1 1
an	ãn	1 1
anagram	ãnũgram	1 1 1 1 1 1 1
anatomist	ũnătũmũst	1 1 1 1 1 1 1 1 1
anatomy	ũnătũmĩ	1 1 1 1 1 1 1
and	ãnđ	1 1 1
anomaly	ũnômũlē	1 1 1 1 1 1 1
anon	ũnon	1 1 1 1
ant	ãnť	1 1 1
antagonist	ãnťągũnũst	1 1 1 1 1 1 1 1 1 1
antagonistic	ãnťągũnĩstĩk	1 1 1 1 1 1 1 1 1 1 1 1
antibody	ãnťĩbødĩ	1 1 1 1 1 1 1 1
antic	ãnťĩk	1 1 1 1 1
antimony	ãnťũmõnĩ	1 1 1 1 1 1 1 1
antiseptic	ãnťũsẽptĩk	1 1 1 1 1 1 1 1 1 1
aorta	ãörtũ	1 1 1 1 1
apostasy	ũpõstũsē	1 1 1 1 1 1 1 1
apricot	ãprũkõt	1 1 1 1 1 1 1
apt	ãnpt	1 1 1
area	ãrẽũ	1 1 1 1

WORD	DECODE	FILTER LEVEL
arena	ũrenũ	1 1 1 1 1
arid	ãrũd	1 1 1 1
aristocrat	ũristũkrãt	1 1 1 1 1 1 1 1 1 1
aristocratic	ũristũkrãtĩk	1 1 1 1 1 1 1 1 1 1 1 1
aroma	ũromũ	1 1 1 1 1
aromatic	ãrumãtĩk	1 1 1 1 1 1 1 1
ascot	ãskũt	1 1 1 1 1
aseptic	ãseptĩk	1 1 1 1 1 1 1
aslant	ũslãnt	1 1 1 1 1 1
asp	ãsp	1 1 1
aspect	ãspekt	1 1 1 1 1 1
aspic	ãspĩk	1 1 1 1 1
asperity	ãspeřũtẽ	1 1 1 1 1 1 1 1
aspirant	ãspũřũnt	1 1 1 1 1 1 1 1
astral	ãstrũl	1 1 1 1 1 1
astronomical	ãstrũnũmĩkũl	1 1 1 1 1 1 1 1 1 1 1 1
astronomy	ũstrũnumẽ	1 1 1 1 1 1 1 1 1
at	ãt	1 1
atavist	ãtũvũst	1 1 1 1 1 1 1
atlas	ãtlũs	1 1 1 1 1
atomic	ũtomĩk	1 1 1 1 1 1
avid	ãvũd	1 1 1 1
avidity	ũvidũtẽ	1 1 1 1 1 1 1
avoid	ũvũd	1 1 1 1 1

WORD	DECODE	FILTER LEVEL
baby	bābē	1 1 1 1
bacon	bākūn	1 1 1 1 1
bad	bǎd	1 1 1
bag	bǎg	1 1 1
balcony	bǎlkūnǐ	1 1 1 1 1 1 1
ban	bǎn	1 1 1
banana	būnānū	1 1 1 1 1 1
band	bǎnd	1 1 1 1
bandy	bǎndǐ	1 1 1 1 1
bantam	bǎntūm	1 1 1 1 1 1
barony	bǎrūnǐ	1 1 1 1 1 1
bat	bǎt	1 1 1
baton	būtōn	1 1 1 1 1
bebop	bēbōp	1 1 1 1 1
bed	bēd	1 1 1
bedlam	bēdlām	1 1 1 1 1 1
beg	bēg	1 1 1
belfry	bělfri	1 1 1 1 1 1
belt	bělt	1 1 1 1
bend	bēnd	1 1 1 1
bent	běnt	1 1 1 1
best	běst	1 1 1 1
bet	bēt	1 1 1
bevy	běvǐ	1 1 1 1
bib	bǐb	1 1 1

WORD	DECODE	FILTER LEVEL
biblical	bīblikūl	1 1 1 1 1 1 1 1
bid	bīd	1 1 1
big	bīg	1 1 1
bigamy	bīgumī	1 1 1 1 1 1
bin	bīn	1 1 1
blab	blāb	1 1 1 1
bland	blānd	1 1 1 1 1
blast	blāst	1 1 1 1 1
blat	blāt	1 1 1 1
blatant	blātūnt	1 1 1 1 1 1 1
bled	blēd	1 1 1 1
blend	blēnd	1 1 1 1 1
blest	blēst	1 1 1 1 1
blob	blōb	1 1 1 1
blond	blōnd	1 1 1 1 1
blot	blōt	1 1 1 1
blunt	blūnt	1 1 1 1 1
bob	bōb	1 1 1
bobcat	bōbkāt	1 1 1 1 1 1
body	bōdē	1 1 1 1
bog	bōg	1 1 1
boil	bōīl	1 1 1 1
bold	bōld	1 1 1 1
bolt	bōlt	1 1 1 1
bombast	bōmbāst	1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
bonbon	bōnbōn	1 1 1 1 1 1
bond	bōnd	1 1 1 1
bondman	bōndmūn	1 1 1 1 1 1 1
bony	bōnē	1 1 1 1
boric	bōrīk	1 1 1 1 1
born	bōrn	1 1 1 1
botanical	būtānikūl	1 1 1 1 1 1 1 1 1
botanist	bōtūnūst	1 1 1 1 1 1 1 1
botany	bōtūnē	1 1 1 1 1 1
boy	bōi	1 1 1
brad	brād	1 1 1 1
brag	brāg	1 1 1 1
bran	brān	1 1 1 1
brand	brānd	1 1 1 1
brandy	brāndē	1 1 1 1 1 1
brant	brānt	1 1 1 1 1
brat	brāt	1 1 1 1
bred	brēd	1 1 1 1
brevity	brēvūtē	1 1 1 1 1 1 1
brig	brīg	1 1 1 1
brigand	brīgūnd	1 1 1 1 1 1 1
brim	brīm	1 1 1 1
brimful	brīmful	1 1 1 1 1 1 1
broil	brōil	1 1 1 1 1
brunt	brūnt	1 1 1 1 1

WORD	DECODE	FILTER LEVEL
bud	būd	1 1 1
bug	būg	1 1 1
bulb	būlb	1 1 1 1
bulge	būlg	1 1 1 1
bum	būm	1 1 1
bump	būmp	1 1 1 1
bun	būn	1 1 1
bunk	būnk	1 1 1 1
bunt	būnt	1 1 1 1
bust	būst	1 1 1 1
but	būt	1 1 1
cab	kāb	1 1 1
cabin	kābīn	1 1 1 1 1
cabman	kābmān	1 1 1 1 1 1
cad	kād	1 1 1
cadence	kādēns	1 1 1 1 1 1
cafeteria	kāfētērēū	1 1 1 1 1 1 1 1 1 1
calico	kālīkō	1 1 1 1 1 1
calumny	kālūmnē	1 1 1 1 1 1 1
cam	kām	1 1 1
cameo	kāmēō	1 1 1 1 1
camp	kāmp	1 1 1 1
can	kān	1 1 1
candid	kāndīd	1 1 1 1 1 1
candy	kāndē	1 1 1 1 1

WORD	DECODE	FILTER LEVEL
cannot	kǎnōt	1 1 1 1 1 1
canopy	kǎnūpē	1 1 1 1 1 1
cant	kǎnt	1 1 1 1
cantata	kǎntātū	1 1 1 1 1 1 1
canto	kǎntō	1 1 1 1 1
cantonment	kǎntōnmēnt	1 1 1 1 1 1 1 1 1 1
cap	kǎp	1 1 1
capability	kāpūbilitē	1 1 1 1 1 1 1 1 1 1
capital	kāpītūl	1 1 1 1 1 1 1
capitalist	kāpītūlist	1 1 1 1 1 1 1 1 1 1
capitalistic	kāpītūlistik	1 1 1 1 1 1 1 1 1 1 1 1
capitol	kāpītūl	1 1 1 1 1 1 1
captivity	kāptivitē	1 1 1 1 1 1 1 1 1
casement	kāsmēnt	1 1 1 1 1 1 1
cast	kǎst	1 1 1 1
cat	kǎt	1 1 1
catapult	kātūpult	1 1 1 1 1 1 1 1
cataract	kātūrakt	1 1 1 1 1 1 1 1
catnip	kātnīp	1 1 1 1 1 1
cavalry	kāvulrī	1 1 1 1 1 1 1
cavil	kāvul	1 1 1 1 1
cavity	kāvutī	1 1 1 1 1 1
clad	klǎd	1 1 1 1
clam	klām	1 1 1 1
clamp	klāmp	1 1 1 1 1

WORD	DECODE	FILTER LEVEL
clan	klān	1 1 1 1
clap	klāp	1 1 1 1
claret	klārēt	1 1 1 1 1 1
clarity	klārītē	1 1 1 1 1 1 1
clasp	klāsp	1 1 1 1 1
cleft	klēft	1 1 1 1 1
clerical	klērīkūl	1 1 1 1 1 1 1 1
clinic	klīnik	1 1 1 1 1 1
clinical	klīnikūl	1 1 1 1 1 1 1 1
clip	klīp	1 1 1 1
clod	klōd	1 1 1 1
clog	klōg	1 1 1 1
closely	klōslē	1 1 1 1 1 1
closet	klōsēt	1 1 1 1 1 1
clot	klōt	1 1 1 1
club	klūb	1 1 1 1
clump	klūmp	1 1 1 1 1
clumsy	klūmse	1 1 1 1 1 1
cob	kōb	1 1 1
cobra	kōbrū	1 1 1 1 1
coco	kōkō	1 1 1 1
cocunut	kōkūnūt	1 1 1 1 1 1 1
cod	kōd	1 1 1
coed	kōēd	1 1 1 1
cog	kōg	1 1 1

WORD	DECODE	FILTER LEVEL
cold	kōld	1 1 1 1
colic	kōlik	1 1 1 1 1
colonial	kūlōnēūl	1 1 1 1 1 1 1 1
colonist	kōlūnist	1 1 1 1 1 1 1 1
colony	kōlūnē	1 1 1 1 1 1
colt	kōlt	1 1 1 1
columnist	kōlūmnist	1 1 1 1 1 1 1 1 1 1
coma	kōmū	1 1 1 1
combat	kūmbāt	1 1 1 1 1 1
comedian	kūmēdēēn	1 1 1 1 1 1 1 1
comet	kōmēt	1 1 1 1 1
comic	kōmik	1 1 1 1 1
comical	kōmikūl	1 1 1 1 1 1 1
compact	kūmpakt	1 1 1 1 1 1 1
company	kūmpānē	1 1 1 1 1 1 1
compendium	kūmpēndēūm	1 1 1 1 1 1 1 1 1 1 1
competence	kōmpētēns	1 1 1 1 1 1 1 1 1
competent	kōmpētēt	1 1 1 1 1 1 1 1 1
complement	kōmplēmēt	1 1 1 1 1 1 1 1 1 1 1
component	kūmpōnēt	1 1 1 1 1 1 1 1 1
comport	kūmpōrt	1 1 1 1 1 1 1
compulsory	kōmpūlsūrē	1 1 1 1 1 1 1 1 1 1 1
con	kōn	1 1 1
concoct	kōnkōkt	1 1 1 1 1 1 1
concord	kōnkōrd	1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
condolence	kōndōlēns	1 1 1 1 1 1 1 1 1
contempt	kūntēmt	1 1 1 1 1 1 1 1
conduct	kōndūkt	1 1 1 1 1 1 1
conductivity	kōndūktīvītē	1 1 1 1 1 1 1 1 1 1 1 1
conflict	kūnflīkt	1 1 1 1 1 1 1 1
conform	kōnfōrm	1 1 1 1 1 1 1
conformity	kōnfōrmītē	1 1 1 1 1 1 1 1 1 1
conical	kōnikūl	1 1 1 1 1 1 1
conscript	kōnskript	1 1 1 1 1 1 1 1 1
consent	kōnsēt	1 1 1 1 1 1 1
consensus	kōnsēnsūs	1 1 1 1 1 1 1 1 1
consist	kōnsīst	1 1 1 1 1 1 1
consistent	kōnsistēt	1 1 1 1 1 1 1 1 1 1
consort	kōnsōrt	1 1 1 1 1 1 1
constant	kōnstūnt	1 1 1 1 1 1 1 1
construct	kūnstrūkt	1 1 1 1 1 1 1 1 1
consul	kōnsūl	1 1 1 1 1 1
consult	kōnsūlt	1 1 1 1 1 1 1
contact	kōntakt	1 1 1 1 1 1 1
contend	kūntēnd	1 1 1 1 1 1 1
content	kōntēt	1 1 1 1 1 1 1
contented	kūntētēd	1 1 1 1 1 1 1 1 1
contentment	kūntētment	1 1 1 1 1 1 1 1 1 1 1
contest	kōntēst	1 1 1 1 1 1 1
contestant	kūntēstūnt	1 1 1 1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
contort	kũntõrt	1 1 1 1 1 1 1
contraband	kõntrãbãnd	1 1 1 1 1 1 1 1 1 1
contract	kũntrãkt	1 1 1 1 1 1 1 1
contradict	kõntrãdĩkt	1 1 1 1 1 1 1 1 1 1
contralto	kũntrãltõ	1 1 1 1 1 1 1 1 1
contrast	kũntrãst	1 1 1 1 1 1 1 1
convent	kõnvẽnt	1 1 1 1 1 1 1
convict	kõnvĩkt	1 1 1 1 1 1 1
convince	kũnvĩns	1 1 1 1 1 1 1
cony	kõnẽ	1 1 1 1
cop	kõp	1 1 1
copy	kõpẽ	1 1 1 1
coral	kõrũl	1 1 1 1 1
cord	kõrd	1 1 1 1
corn	kõrn	1 1 1 1
cornea	kõrnẽũ	1 1 1 1 1 1
cornet	kõrnẽt	1 1 1 1 1 1
cornucopia	kõrnũkõpẽũ	1 1 1 1 1 1 1 1 1 1
corona	kũronũ	1 1 1 1 1 1
coronet	kõrũnẽt	1 1 1 1 1 1 1
corporal	kõrpũrũl	1 1 1 1 1 1 1 1
corporeal	kõrpõrẽũl	1 1 1 1 1 1 1 1 1
corselet	kõrsẽlẽt	1 1 1 1 1 1 1 1
corset	kõrsẽt	1 1 1 1 1 1
cosmetic	kõsmẽtik	1 1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
cosmic	kōsmīk	1 1 1 1 1 1
cosmopolitan	kōsmūpōlītūn	1 1 1 1 1 1 1 1 1 1 1 1
cosmos	kōsmōs	1 1 1 1 1 1
cost	kōst	1 1 1 1
costly	kōstlē	1 1 1 1 1 1
cot	kōt	1 1 1
covet	kūvēt	1 1 1 1 1
crab	krāb	1 1 1 1
craft	krāft	1 1 1 1 1
craftsman	krāftsmūn	1 1 1 1 1 1 1 1 1 1
crafty	krāftē	1 1 1 1 1 1
crag	krāg	1 1 1 1
cram	krām	1 1 1 1
cramp	krāmp	1 1 1 1 1
cranky	krānkē	1 1 1 1 1 1
craven	krāvēn	1 1 1 1 1 1
credence	krēděns	1 1 1 1 1 1 1
crept	krēpt	1 1 1 1 1
crest	krěst	1 1 1 1 1
crib	krīb	1 1 1 1
crimp	krīmp	1 1 1 1 1
crisp	krīsp	1 1 1 1 1
critic	krītīk	1 1 1 1 1 1
critical	krītīkūl	1 1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
crony	krōnē	1 1 1 1 1
crop	krōp	1 1 1 1
crust	krŭst	1 1 1 1 1
crusty	krŭstē	1 1 1 1 1 1
cry	krī	1 1 1
dab	dāb	1 1 1
dad	dād	1 1 1
daft	dāft	1 1 1 1
dam	dām	1 1 1
damp	dāmp	1 1 1 1
dampen	dāmpĕn	1 1 1 1 1 1
dance	dāns	1 1 1 1
dandy	dāndē	1 1 1 1 1
dap	dāp	1 1 1
data	dātā	1 1 1 1
datum	dātŭm	1 1 1 1 1
decadence	dĕkādĕns	1 1 1 1 1 1 1 1
decadent	dĕkādĕnt	1 1 1 1 1 1 1 1
declivity	dĕlkīvītē	1 1 1 1 1 1 1 1 1
decorum	dĕkōrŭm	1 1 1 1 1 1 1
decrement	dĕkrĕmĕnt	1 1 1 1 1 1 1 1 1
deduct	dĕdŭkt	1 1 1 1 1 1
deer	dĕr	1 1 1
defect	dĕfĕkt	1 1 1 1 1 1
defend	dĕfĕnd	1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
defendant	dēfendunt	1 1 1 1 1 1 1 1 1
deflect	deflekt	1 1 1 1 1 1 1
deform	dēfōrm	1 1 1 1 1 1
deformity	dēfōrmitē	1 1 1 1 1 1 1 1 1
deft	děft	1 1 1 1
deity	dēitē	1 1 1 1 1
delirium	dělirēum	1 1 1 1 1 1 1 1
delta	děltū	1 1 1 1 1
delve	dělv	1 1 1 1
demand	děmānd	1 1 1 1 1 1
demented	dēmētēd	1 1 1 1 1 1 1 1
demigod	dēmigōd	1 1 1 1 1 1 1
democrat	dēmōkrāt	1 1 1 1 1 1 1 1
democratic	dēmōkrātik	1 1 1 1 1 1 1 1 1 1
demonic	dēmōnik	1 1 1 1 1 1 1
den	dēn	1 1 1
denim	dēnīm	1 1 1 1 1
density	děnsitē	1 1 1 1 1 1 1
dent	děnt	1 1 1 1
dental	děntūl	1 1 1 1 1 1
dentist	děntist	1 1 1 1 1 1 1
dentistry	děntistrē	1 1 1 1 1 1 1 1 1
deny	dēnī	1 1 1 1
depend	děpēnd	1 1 1 1 1 1
dependence	děpēndēns	1 1 1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
dependent	děpěďěnt	1 1 1 1 1 1 1 1 1
depict	děpīkt	1 1 1 1 1 1
deport	děpōrt	1 1 1 1 1 1
department	děpōrtmēt	1 1 1 1 1 1 1 1 1 1
depravity	děprāvītē	1 1 1 1 1 1 1 1 1
descant	děskānt	1 1 1 1 1 1 1
descry	děskrī	1 1 1 1 1 1
desist	dēsīst	1 1 1 1 1 1
desk	děsk	1 1 1 1
despond	děspōnd	1 1 1 1 1 1 1
despondent	děspōnděnt	1 1 1 1 1 1 1 1 1 1
despot	děspōt	1 1 1 1 1 1
despotic	děspōtīk	1 1 1 1 1 1 1 1
detect	dětěkt	1 1 1 1 1 1
detest	dětěst	1 1 1 1 1 1
detract	dētrākt	1 1 1 1 1 1 1
devolve	děvōlv	1 1 1 1 1 1
dictum	dīktum	1 1 1 1 1 1
did	dīd	1 1 1
dido	dīdō	1 1 1 1
dig	dīg	1 1 1
digital	dīgītūl	1 1 1 1 1 1 1
dignity	dīgnītē	1 1 1 1 1 1 1
dīm	dīm	1 1 1

WORD	DECODE	FILTER LEVEL
dimly	ďimlĕ	1 1 1 1 1
din	ďin	1 1 1
dint	ďint	1 1 1 1
dip	ďip	1 1 1
diploma	ďiplomă	1 1 1 1 1 1 1 1
diplomat	ďiplomăt	1 1 1 1 1 1 1 1
diplomatic	ďiplomatik	1 1 1 1 1 1 1 1 1 1
disability	ďisubilitĕ	1 1 1 1 1 1 1 1 1 1
disband	ďisbănd	1 1 1 1 1 1 1
disbelief	ďisbulĕf	1 1 1 1 1 1 1 1
discontent	ďiskontĕnt	1 1 1 1 1 1 1 1 1 1
discord	ďiskord	1 1 1 1 1 1 1
discordant	ďiskordunt	1 1 1 1 1 1 1 1 1 1
disgust	ďisgust	1 1 1 1 1 1 1
disinfect	ďisinfekt	1 1 1 1 1 1 1 1
disinfectant	ďisunfektunt	1 1 1 1 1 1 1 1 1 1 1 1
disrupt	ďisrupt	1 1 1 1 1 1 1
disparity	ďispărutĕ	1 1 1 1 1 1 1 1 1
dispensary	ďispĕnsurĕ	1 1 1 1 1 1 1 1 1 1
disport	ďisport	1 1 1 1 1 1 1
disposal	ďispošul	1 1 1 1 1 1 1 1
distal	ďistul	1 1 1 1 1 1
distant	ďistunt	1 1 1 1 1 1 1
distend	ďistĕnd	1 1 1 1 1 1 1
distort	ďistort	1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
distract	dīstrākt	1 1 1 1 1 1 1 1
district	dīstrīkt	1 1 1 1 1 1 1 1
distrust	dīstrūst	1 1 1 1 1 1 1 1
distrustful	dīstrūstfūl	1 1 1 1 1 1 1 1 1 1 1
dog	dōg	1 1 1
dogma	dōgmū	1 1 1 1 1
dogmatic	dōgmātik	1 1 1 1 1 1 1 1
doily	dōilē	1 1 1 1 1
dolt	dōlt	1 1 1 1
domestic	dūmēstik	1 1 1 1 1 1 1 1
don	dōn	1 1 1
dormant	dōrmūnt	1 1 1 1 1 1 1
dormitory	dōrmūtōrē	1 1 1 1 1 1 1 1 1
dorsal	dōrsūl	1 1 1 1 1 1
dory	dōrē	1 1 1 1
dot	dōt	1 1 1
drab	dřāb	1 1 1 1
draft	dřāft	1 1 1 1 1
draftsman	dřāftsmūn	1 1 1 1 1 1 1 1 1
drag	dřāg	1 1 1 1
dram	dřām	1 1 1 1
dramatic	dřāmātik	1 1 1 1 1 1 1 1
dramatics	dřāmātiks	1 1 1 1 1 1 1 1 1
drastic	dřāstik	1 1 1 1 1 1 1
drift	dřift	1 1 1 1 1

WORD	DECODE	FILTER LEVEL
drip	dṛip	1 1 1 1
drop	dṛöp	1 1 1 1
drub	dṛub	1 1 1 1
drug	dṛug	1 1 1 1
drum	dṛum	1 1 1 1
dry	dr̄ī	1 1 1
dub	đub	1 1 1
ducat	đukūt	1 1 1 1 1
duct	đukt	1 1 1 1
dud	đud	1 1 1
dug	đug	1 1 1
dump	đump	1 1 1 1
dun	đun	1 1 1
dust	đust	1 1 1 1
dusty	đustē	1 1 1 1 1
eclectic	ēklēktik	1 1 1 1 1 1 1 1
economic	ēkūnōmik	1 1 1 1 1 1 1 1
economical	ēkūnōmikul	1 1 1 1 1 1 1 1 1 1
economics	ēkūnōmiks	1 1 1 1 1 1 1 1 1
ecumenical	ēkūmenikul	1 1 1 1 1 1 1 1 1 1
edict	ēdikt	1 1 1 1 1
eft	ēft	1 1 1
ego	ēgō	1 1 1
egoist	ēgōust	1 1 1 1 1 1
egotist	ēgōṭist	1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
elastic	ēlāstik	1 1 1 1 1 1 1
elect	ēlēkt	1 1 1 1 1
electric	ēlēktrik	1 1 1 1 1 1 1 1
electro	ēlēktrō	1 1 1 1 1 1 1
electron	ēlēktrōn	1 1 1 1 1 1 1 1
electronics	ēlēktrōniks	1 1 1 1 1 1 1 1 1 1 1
elf	ēlf	1 1 1
elfin	ēlfūn	1 1 1 1 1
elm	ēlm	1 1 1
em	ēm	1 1
embroil	ēmbroīl	1 1 1 1 1 1 1
emend	ēmēnd	1 1 1 1 1
empty	ēmtē	1 1 1 1 1
end	ēnd	1 1 1
endemic	ēndēmik	1 1 1 1 1 1 1
enmity	ēnmūtē	1 1 1 1 1 1
entity	ēntūtē	1 1 1 1 1 1
entrance	ēntrūns	1 1 1 1 1 1 1
entropy	ēntropē	1 1 1 1 1 1 1
entry	ēntrē	1 1 1 1 1
envoy	ēnvoī	1 1 1 1 1
envy	ēnvē	1 1 1 1
epic	ēpik	1 1 1 1
era	ērū	1 1 1
erect	ērēkt	1 1 1 1 1

WORD	DECODE	FILTER LEVEL
erotic	ērotik	1 1 1 1 1 1
erupt	ērupt	1 1 1 1 1
escort	ěskort	1 1 1 1 1 1
esoteric	ěsuterik	1 1 1 1 1 1 1 1
event	ēvent	1 1 1 1 1
eventful	ēventfŭl	1 1 1 1 1 1 1 1
every	ěvrē	1 1 1 1
evict	ēvikŭt	1 1 1 1 1
fabric	fābrīk	1 1 1 1 1 1
fact	fākt	1 1 1 1
factory	fāktūrē	1 1 1 1 1 1 1
fad	fād	1 1 1
fag	fāg	1 1 1
fan	fān	1 1 1
fanatic	fūnātik	1 1 1 1 1 1 1
fantastic	fāntāstīk	1 1 1 1 1 1 1 1 1
fantasy	fāntūsē	1 1 1 1 1 1 1
fast	fāst	1 1 1 1
fat	fāt	1 1 1
fatal	fātŭl	1 1 1 1 1
fatality	fātālītē	1 1 1 1 1 1 1 1
fateful	fātŭfŭl	1 1 1 1 1 1
fed	fēd	1 1 1
felony	fēlŭnē	1 1 1 1 1 1
felt	fēlt	1 1 1 1

WORD	DECODE	FILTER LEVEL
fen	fēn	1 1 1
fence	fēns	1 1 1 1
fend	fēnd	1 1 1 1
festal	fēstul	1 1 1 1 1 1
festivity	fēstivitē	1 1 1 1 1 1 1 1 1 1
fetid	fētīd	1 1 1 1 1
fib	fīb	1 1 1
fief	fēf	1 1 1
fierce	fīrs	1 1 1 1
fifty	fiftē	1 1 1 1 1
fig	fīg	1 1 1
figment	fīgmēt	1 1 1 1 1 1 1
filament	fīlāmēt	1 1 1 1 1 1 1 1
film	fīlm	1 1 1 1
filmy	fīlmē	1 1 1 1 1
fin	fīn	1 1 1
finance	fīnāns	1 1 1 1 1 1
fiscal	fīskul	1 1 1 1 1 1
fist	fīst	1 1 1 1
flag	fīlāg	1 1 1 1
flap	fīlāp	1 1 1 1
flat	fīlāt	1 1 1 1
fled	fīlēt	1 1 1 1
flimflam	fīlmflām	1 1 1 1 1 1 1 1 1
flint	fīlīnt	1 1 1 1 1

WORD	DECODE	FILTER LEVEL
flinty	flīntē	1 1 1 1 1 1
flip	flīp	1 1 1 1
flog	flōg	1 1 1 1
flop	flōp	1 1 1 1
flora	flōrū	1 1 1 1 1
floral	flōrūl	1 1 1 1 1 1
florin	flōrīn	1 1 1 1 1 1
florist	flōrīst	1 1 1 1 1 1 1
fob	fōb	1 1 1
focal	fōkūl	1 1 1 1 1
fog	fōg	1 1 1
fogy	fōgē	1 1 1 1
fold	fōld	1 1 1 1
folio	fōlēō	1 1 1 1 1
foment	fōmēt	1 1 1 1 1 1
fond	fōnd	1 1 1 1
fondly	fōndlē	1 1 1 1 1 1
font	fōnt	1 1 1 1
fop	fōp	1 1 1
for	fōr	1 1 1
forbid	fōrbīd	1 1 1 1 1 1
force	fōrs	1 1 1 1
ford	fōrd	1 1 1 1
forecast	fōrkāst	1 1 1 1 1 1 1
forensic	fōrēnsīk	1 1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
forest	fōrĕst	1 1 1 1 1 1
forestry	fōrĕstrĕ	1 1 1 1 1 1 1 1
foretaste	fōrtāst	1 1 1 1 1 1 1
forget	fōrgĕt	1 1 1 1 1 1
forgetful	fōrgĕtfŭl	1 1 1 1 1 1 1 1 1
forgot	fōrgōt	1 1 1 1 1 1
forlorn	fōrlōrn	1 1 1 1 1 1 1
form	fōrm	1 1 1 1
formality	fōrmālĭtĕ	1 1 1 1 1 1 1 1 1 1
fort	fōrt	1 1 1 1
forty	fōrtĕ	1 1 1 1 1
forum	fōrŭm	1 1 1 1 1
fragment	frāgmĕnt	1 1 1 1 1 1 1 1 1
fragrance	frāgrŭns	1 1 1 1 1 1 1 1 1
fragrant	frāgrŭnt	1 1 1 1 1 1 1 1 1
frantic	frāntĭk	1 1 1 1 1 1 1 1
frenetic	frĕnĕtĭk	1 1 1 1 1 1 1 1 1
fresco	frĕskō	1 1 1 1 1 1 1
fret	frĕt	1 1 1 1
fretful	frĕtfŭl	1 1 1 1 1 1 1 1
frivolity	frĭvolĭtĕ	1 1 1 1 1 1 1 1 1 1
frog	frōg	1 1 1 1
frolic	frōlĭk	1 1 1 1 1 1 1
from	frōm	1 1 1 1
frond	frōnd	1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
frost	fřöst	1 1 1 1 1
frosty	fřöstē	1 1 1 1 1 1
fulcrum	fŭlkrŭm	1 1 1 1 1 1 1
fun	fŭn	1 1 1
fund	fŭnd	1 1 1 1
fundamental	fŭndŭmentŭl	1 1 1 1 1 1 1 1 1 1 1
fusty	fŭstē	1 1 1 1 1
gad	găd	1 1 1
gadfly	gădfli	1 1 1 1 1 1
gag	găg	1 1 1
gala	gālŭ	1 1 1 1
galactic	gŭlăktik	1 1 1 1 1 1 1 1
galena	gŭlēnŭ	1 1 1 1 1 1
gambol	gămbŭl	1 1 1 1 1 1
gantry	găntri	1 1 1 1 1 1
gap	găp	1 1 1
gasp	găsp	1 1 1 1
get	gět	1 1 1
gift	gŭft	1 1 1 1
gig	gig	1 1 1
gild	gild	1 1 1 1
gilt	gilt	1 1 1 1
gird	gŭrd	1 1 1 1
girl	gŭrl	1 1 1 1

WORD	DECODE	FILTER LEVEL
girt	gŭrt	1 1 1 1
glad	glăd	1 1 1 1
gladly	glădlĭ	1 1 1 1 1 1
gland	glănd	1 1 1 1 1
glen	glĕn	1 1 1 1
glib	glĭb	1 1 1 1
glint	glĭnt	1 1 1 1 1
global	glōbŭl	1 1 1 1 1 1
glory	glōrĭ	1 1 1 1 1
glum	glŭm	1 1 1 1
glut	glŭt	1 1 1 1
goblin	gōblŭn	1 1 1 1 1 1
god	gōd	1 1 1
godly	gōdlĭ	1 1 1 1 1
godsend	gōdsĕnd	1 1 1 1 1 1 1
gold	gōld	1 1 1 1
golf	gōlf	1 1 1 1
gondola	gōndŭlŭ	1 1 1 1 1 1 1
gory	gōrĕ	1 1 1 1
got	gōt	1 1 1
grab	grăb	1 1 1 1
graft	grăft	1 1 1 1 1
grail	grăul	1 1 1 1 1
gram	grăm	1 1 1 1
granary	grănŭrĕ	1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
grand	grǎnd	1 1 1 1 1
grandam	grǎndǎm	1 1 1 1 1 1 1
grasp	grǎsp	1 1 1 1 1
gravity	grǎvītē	1 1 1 1 1 1 1
gravy	grāvē	1 1 1 1 1
gremlin	grēm̃līn	1 1 1 1 1 1 1
grid	grīd	1 1 1 1
grim	grīm	1 1 1 1
grimy	grīmē	1 1 1 1 1
grin	grīn	1 1 1 1
grip	grīp	1 1 1 1
grist	grīst	1 1 1 1 1
grog	grōg	1 1 1 1
grub	grūb	1 1 1 1
grumpy	grūmpē	1 1 1 1 1 1
grunt	grūnt	1 1 1 1 1
gum	gūm	1 1 1
gulf	gūlf	1 1 1 1
gulp	gūlp	1 1 1 1
gun	gūn	1 1 1
gunman	gūnmūn	1 1 1 1 1 1
gust	gūst	1 1 1 1
gusto	gūstō	1 1 1 1 1
gusty	gūstē	1 1 1 1 1
gut	gūt	1 1 1

WORD	DECODE	FILTER LEVEL
ice	is	1 1
icon	ikön	1 1 1 1
iconoclast	ikönüklast	1 1 1 1 1 1 1 1 1 1
id	id	1 1
idea	ideü	1 1 1 1
idealist	ideülüst	1 1 1 1 1 1 1 1
idealistic	ideülistik	1 1 1 1 1 1 1 1 1 1
identical	identikül	1 1 1 1 1 1 1 1 1
identity	iden(t)ütē	1 1 1 1 1 1 1 1
idly	idle	1 1 1 1
idol	idül	1 1 1 1
ignominy	ignüminē	1 1 1 1 1 1 1 1
ignorant	ignürünt	1 1 1 1 1 1 1 1
imbalance	imbälüns	1 1 1 1 1 1 1 1
imbed	imbēd	1 1 1 1 1
imp	imp	1 1 1
impact	impakt	1 1 1 1 1 1
impend	impēnd	1 1 1 1 1 1
implant	implānt	1 1 1 1 1 1 1
import	impört	1 1 1 1 1 1
important	impörtünt	1 1 1 1 1 1 1 1 1 1
importance	impörtüns	1 1 1 1 1 1 1 1 1 1
imprint	imprint	1 1 1 1 1 1 1
in	in	1 1
inability	inübilütē	1 1 1 1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
inactivity	ĩnaktivutē	1 1 1 1 1 1 1 1 1 1
inanity	ĩnanutē	1 1 1 1 1 1 1
inborn	ĩnbörn	1 1 1 1 1 1
incognito	ĩnkognütō	1 1 1 1 1 1 1 1 1 1
incoming	ĩnkumĩng	1 1 1 1 1 1 1
inconsiderable	ĩnkũnsidũrubũl	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
inconsistent	ĩnkũnsistũnt	1 1 1 1 1 1 1 1 1 1 1 1
inconstant	ĩnkũnstũnt	1 1 1 1 1 1 1 1 1 1
incontestable	ĩnkũntestũbul	1 1 1 1 1 1 1 1 1 1 1 1 1 1
incorporate	ĩnkũrpũrat	1 1 1 1 1 1 1 1 1 1
incrust	ĩnkrũst	1 1 1 1 1 1 1
indemnity	ĩndẽmnütĩ	1 1 1 1 1 1 1 1 1
indent	ĩndẽnt	1 1 1 1 1 1
indignant	ĩndĩgnũnt	1 1 1 1 1 1 1 1 1
indignity	ĩndĩgnütĩ	1 1 1 1 1 1 1 1 1
induct	ĩndũkt	1 1 1 1 1 1
industrial	ĩndũstriũl	1 1 1 1 1 1 1 1 1 1
industrialist	ĩndũstriũlist	1 1 1 1 1 1 1 1 1 1 1 1 1
inept	ĩnẽpt	1 1 1 1 1
infamy	ĩnfũmĩ	1 1 1 1 1 1
infant	ĩnfũnt	1 1 1 1 1 1
infantry	ĩnfũntrē	1 1 1 1 1 1 1 1
infect	ĩnfẽkt	1 1 1 1 1 1
inferiority	ĩnfẽrēorĩtē	1 1 1 1 1 1 1 1 1 1 1 1
infest	ĩnfẽst	1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
infinity	ĩnfĩnĩtē	1 1 1 1 1 1 1 1
inflect	ĩnflekt	1 1 1 1 1 1 1
inflict	ĩnflĩkt	1 1 1 1 1 1 1
infold	ĩnfōld	1 1 1 1 1 1
inform	ĩnfōrm	1 1 1 1 1 1
informant	ĩnfōrmēnt	1 1 1 1 1 1 1 1 1
inglorious	ĩnglōrēūs	1 1 1 1 1 1 1 1 1
ingot	ĩngēt	1 1 1 1 1
ingredient	ĩngredēēnt	1 1 1 1 1 1 1 1 1 1
inland	ĩnlūnd	1 1 1 1 1 1
inlet	ĩnlet	1 1 1 1 1
insanity	ĩnsānũtē	1 1 1 1 1 1 1 1
insect	ĩnsēkt	1 1 1 1 1 1
inset	ĩnsēt	1 1 1 1 1
insignia	ĩnsĩgnĩũ	1 1 1 1 1 1 1 1
insignificant	ĩnsĩgnĩfũkũnt	1 1 1 1 1 1 1 1 1 1 1 1 1
insipid	ĩnsĩpĩd	1 1 1 1 1 1 1
insist	ĩnsĩst	1 1 1 1 1 1
insistent	ĩnsĩstũnt	1 1 1 1 1 1 1 1 1
insomnia	ĩnsōmniũ	1 1 1 1 1 1 1 1
inspect	ĩnspekt	1 1 1 1 1 1 1
instability	ĩnstũbilũtĩ	1 1 1 1 1 1 1 1 1 1 1
instant	ĩnstũnt	1 1 1 1 1 1 1
instantaneous	ĩnstũntānēũs	1 1 1 1 1 1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
instantly	ĩnstũntlĩ	1 1 1 1 1 1 1 1 1
instep	ĩnstĕp	1 1 1 1 1 1
instruct	ĩnstrũkt	1 1 1 1 1 1 1 1
instrumental	ĩnstrũmentũl	1 1 1 1 1 1 1 1 1 1 1 1
instrumentality	ĩnstrũmentũlũtĩ	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
insulin	ĩnsũlin	1 1 1 1 1 1 1
insult	ĩnsũlt	1 1 1 1 1 1
intact	ĩntakt	1 1 1 1 1 1
integrity	ĩntĕgrũtĩ	1 1 1 1 1 1 1 1 1 1
intend	ĩntĕnd	1 1 1 1 1 1
intensity	ĩntĕnsũtĩ	1 1 1 1 1 1 1 1 1 1
intent	ĩntĕnt	1 1 1 1 1 1
intrepid	ĩntĕpĩd	1 1 1 1 1 1 1 1
intrinsic	ĩntrĩnsĩk	1 1 1 1 1 1 1 1 1 1
introspect	ĩntrũspĕkt	1 1 1 1 1 1 1 1 1 1 1
intrust	ĩntrũst	1 1 1 1 1 1 1
invalid	ĩnvũlĩd	1 1 1 1 1 1 1
invent	ĩnvĕnt	1 1 1 1 1 1
invest	ĩnvĕst	1 1 1 1 1 1
itself	ĩtsĕlf	1 1 1 1 1 1
lacteal	laktĕũl	1 1 1 1 1 1 1
lactic	laktĩk	1 1 1 1 1 1
lad	lãd	1 1 1
lady	lãdĩ	1 1 1 1
lag	lãg	1 1 1

WORD	DECODE	FILTER LEVEL
laity	lāutí	1 1 1 1 1
lament	lūmēt	1 1 1 1 1 1
lamp	lāmp	1 1 1 1
land	lānd	1 1 1 1
landlady	lāndlādī	1 1 1 1 1 1 1 1
landlord	lāndlōrd	1 1 1 1 1 1 1 1
lanolin	lānūlín	1 1 1 1 1 1 1
lap	lāp	1 1 1
lariat	lāriūt	1 1 1 1 1 1
last	lāst	1 1 1 1
lava	lāvū	1 1 1 1
led	lēd	1 1 1
left	lēft	1 1 1 1
leg	lēg	1 1 1
legal	lēgūl	1 1 1 1 1
lend	lēnd	1 1 1 1
leprosy	lēprūsí	1 1 1 1 1 1 1
lest	lēst	1 1 1 1
let	lēt	1 1 1
levity	lēvūtí	1 1 1 1 1 1
levy	lēví	1 1 1 1
lid	líd	1 1 1
lift	līft	1 1 1 1
lilt	līlt	1 1 1 1
lily	līlí	1 1 1 1

WORD	DECODE	FILTER LEVEL
limbo	límbo	1 1 1 1 1
limp	límp	1 1 1 1
limpid	límpid	1 1 1 1 1 1
lineal	linēul	1 1 1 1 1 1
lint	lint	1 1 1 1
lip	lip	1 1 1
lisp	lisp	1 1 1 1
list	list	1 1 1 1
litany	lituní	1 1 1 1 1 1
livid	livid	1 1 1 1 1
local	lokul	1 1 1 1 1
locality	lokáluti	1 1 1 1 1 1 1 1
loin	loin	1 1 1 1
lop	lop	1 1 1
lord	lord	1 1 1 1
lordly	lordlē	1 1 1 1 1 1
lost	lost	1 1 1 1
lot	lot	1 1 1
lug	lug	1 1 1
lump	lump	1 1 1 1
lust	lust	1 1 1 1
lusty	lustē	1 1 1 1 1
macadam	mukadum	1 1 1 1 1 1 1
mad	mad	1 1 1
madam	madum	1 1 1 1 1

WORD	DECODE	FILTER LEVEL
madman	mǎdmǎn	1 1 1 1 1 1
madly	mǎdli	1 1 1 1 1
madrigal	mǎdrigǔl	1 1 1 1 1 1 1 1
magma	mǎgmǔ	1 1 1 1 1
magnanimity	mǎgnǎnimǔtē	1 1 1 1 1 1 1 1 1 1 1
magnetic	mǎgnētik	1 1 1 1 1 1 1 1
magneto	mǎgnētō	1 1 1 1 1 1 1
malady	mǎlǔdē	1 1 1 1 1 1
malcontent	mǎlkǔntěnt	1 1 1 1 1 1 1 1 1 1 1
malignant	mǎlignǔnt	1 1 1 1 1 1 1 1 1 1
malignity	mǎlignǔtē	1 1 1 1 1 1 1 1 1 1
man	mǎn	1 1 1
mandarin	mǎndǔrǔn	1 1 1 1 1 1 1 1
mandolin	mǎndǔlin	1 1 1 1 1 1 1 1
manful	mǎnfǔl	1 1 1 1 1 1
manic	mǎnik	1 1 1 1 1
manikin	mǎnikǔn	1 1 1 1 1 1 1
manly	mǎnlē	1 1 1 1 1
map	mǎp	1 1 1
marital	mǎrǔtul	1 1 1 1 1 1 1
mascot	mǎskōt	1 1 1 1 1 1
mask	mǎsk	1 1 1 1
mast	mǎst	1 1 1 1
mastodon	mǎstǔdōn	1 1 1 1 1 1 1 1
mastoid	mǎstǔoid	1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
mat	măt	1 1 1
matin	mătŭn	1 1 1 1 1
medical	mĕdĭkŭl	1 1 1 1 1 1 1
melody	mĕlŭdĕ	1 1 1 1 1 1
melt	mĕlt	1 1 1 1
memory	mĕmŭrĕ	1 1 1 1 1 1
men	mĕn	1 1 1
mend	mĕnd	1 1 1 1
mendicant	mĕndĭkŭnt	1 1 1 1 1 1 1 1 1
mental	mĕntŭl	1 1 1 1 1 1
mentality	mĕntalŭtĭ	1 1 1 1 1 1 1 1 1
met	mĕt	1 1 1
metabolic	mĕtŭbolĭk	1 1 1 1 1 1 1 1 1
meteoric	mĕtĕorĭk	1 1 1 1 1 1 1 1
metric	mĕtrĭk	1 1 1 1 1 1
metropolitan	mĕtrŭpŭlŭtŭn	1 1 1 1 1 1 1 1 1 1 1 1
mid	mĭd	1 1 1
midland	mĭdlŕnd	1 1 1 1 1 1 1
midst	mĭdst	1 1 1 1 1
militant	mĭlŭtŭnt	1 1 1 1 1 1 1 1
militarist	mĭlŭturĭst	1 1 1 1 1 1 1 1 1 1
milky	mĭlkĕ	1 1 1 1 1
mimic	mĭmĭk	1 1 1 1 1
mimicry	mĭmĭkrĭ	1 1 1 1 1 1 1
mimosa	mĭmŭsŭ	1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
minaret	múnurēt	1 1 1 1 1 1 1
ministry	mínustrē	1 1 1 1 1 1 1 1
mint	mĭnt	1 1 1 1
minuet	mĭnuēt	1 1 1 1 1 1
misconduct	mĭskōndŭkt	1 1 1 1 1 1 1 1 1 1
miscreant	mĭskrēunt	1 1 1 1 1 1 1 1 1
mishap	mĭshap	1 1 1 1 1 1
mist	mĭst	1 1 1 1
mistrust	mĭstrust	1 1 1 1 1 1 1 1
misty	mĭstē	1 1 1 1 1
mob	mōb	1 1 1
mobility	mōbulūtē	1 1 1 1 1 1 1 1
modesty	mōdustē	1 1 1 1 1 1 1
moist	mōĭst	1 1 1 1 1
mold	mōld	1 1 1 1
molest	mōlēst	1 1 1 1 1 1
momentum	mōmētŭm	1 1 1 1 1 1 1 1
monastery	mōnŭstērē	1 1 1 1 1 1 1 1 1
monastic	mōnāstĭk	1 1 1 1 1 1 1 1
monogamy	mōnŭgāmē	1 1 1 1 1 1 1 1
monogram	mōnŭgrām	1 1 1 1 1 1 1 1
monopolist	mōnōpŭlĭst	1 1 1 1 1 1 1 1 1 1
monopoly	mōnōpŭlē	1 1 1 1 1 1 1 1
monotony	mōnōtŭnē	1 1 1 1 1 1 1 1
monstrosity	mōnstrosĭtē	1 1 1 1 1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
mop	m ^o p	1 1 1
moral	m ^u r ^a l	1 1 1 1 1
moralist	m ^u r ^a l ^u s ^t	1 1 1 1 1 1 1 1
morality	m ^u r ^a l ^u t ^e	1 1 1 1 1 1 1 1
morbid	m ^o r ^b u ^d	1 1 1 1 1 1
morbidity	m ^o r ^b i ^d u ^t e	1 1 1 1 1 1 1 1 1
mordant	m ^o r ^d u ⁿ t	1 1 1 1 1 1 1
morganatic	m ^o r ^g u ⁿ a ^t i ^k	1 1 1 1 1 1 1 1 1 1 1
morn	m ^o r ⁿ	1 1 1 1
mortal	m ^o r ^t u ^l	1 1 1 1 1 1
mortality	m ^o r ^t a ^l u ^t e	1 1 1 1 1 1 1 1 1 1
most	m ^o s ^t	1 1 1 1
mostly	m ^o s ^t l ^e	1 1 1 1 1 1
motet	m ^o t ^e t	1 1 1 1 1
mud	m ^u d	1 1 1
mug	m ^u g	1 1 1
mum	m ^u m	1 1 1
muscat	m ^u s ^k a ^t	1 1 1 1 1 1
must	m ^u s ^t	1 1 1 1
musty	m ^u s ^t e	1 1 1 1 1
nag	n ^a g	1 1 1
nail	n ^a u ^l	1 1 1 1
nap	n ^a p	1 1 1
nasty	n ^a s ^t e	1 1 1 1 1
natal	n ^a t ^u l	1 1 1 1 1
nativity	n ^u t ⁱ v ^u t ^e	1 1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
naval	nāvūl	1 1 1 1 1
navy	nāvē	1 1 1 1
nebula	nebūlū	1 1 1 1 1 1
neon	nēōn	1 1 1 1
net	net	1 1 1
nimbly	nimblē	1 1 1 1 1 1
nip	nīp	1 1 1
nobility	nōbīlūtē	1 1 1 1 1 1 1 1
nobly	nōblē	1 1 1 1 1
nobody	nōbōdē	1 1 1 1 1 1
nod	nōd	1 1 1
nomad	nōmād	1 1 1 1 1
nomadic	nōmādīk	1 1 1 1 1 1 1 1
nonce	nōn(t)s	1 1 1 1
nonconformist	nōnkūnfōrmīst	1 1 1 1 1 1 1 1 1 1 1 1 1 1
nondescript	nōndīskrīpt	1 1 1 1 1 1 1 1 1 1 1 1
nonentity	nōnētūtē	1 1 1 1 1 1 1 1 1 1
nor	nūr	1 1 1
normal	nōrmūl	1 1 1 1 1 1
nostrum	nōstrūm	1 1 1 1 1 1 1
not	nōt	1 1 1
notary	nōtūrē	1 1 1 1 1 1
nut	nūt	1 1 1
nutmeg	nūtmēg	1 1 1 1 1 1
obstetrics	ūbstētrīks	1 1 1 1 1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
obstruct	ubstrukt	1 1 1 1 1 1 1 1
octagonal	oktugunul	1 1 1 1 1 1 1 1 1
oil	oiul	1 1 1 1
oily	oilē	1 1 1 1
olfactory	olfakturē	1 1 1 1 1 1 1 1 1
omicron	omukron	1 1 1 1 1 1 1
omnibus	omnibus	1 1 1 1 1 1 1
on	on	1 1
onset	onset	1 1 1 1 1
opal	opul	1 1 1 1
optic	optik	1 1 1 1 1
optical	optikul	1 1 1 1 1 1 1
opulent	opulunt	1 1 1 1 1 1 1
or	or	1 1
orb	orb	1 1 1
oral	orul	1 1 1 1
organ	orgun	1 1 1 1 1
organdy	organdē	1 1 1 1 1 1 1
organic	organik	1 1 1 1 1 1 1
organist	organust	1 1 1 1 1 1 1 1
orgy	orgē	1 1 1 1
oval	ovul	1 1 1 1
ovary	ovurē	1 1 1 1 1
oviduct	ovudukt	1 1 1 1 1 1 1
pace	pāsē	1 1 1 1

WORD	DECODE	FILTER LEVEL
pact	pǎkt	1 1 1 1
pad	pǎd	1 1 1
pagan	pāgūn	1 1 1 1 1
pagoda	pūgōđū	1 1 1 1 1 1
palimpsest	pālūm(p)sest	1 1 1 1 1 1 1 1 1
pan	pān	1 1 1
pancreas	pānkreūs	1 1 1 1 1 1 1 1
pangolin	pāngōlūn	1 1 1 1 1 1 1 1
panic	pānik	1 1 1 1 1
panoply	pānūplē	1 1 1 1 1 1 1
panorama	pānūrāmū	1 1 1 1 1 1 1 1
pant	pānt	1 1 1 1
pantry	pāntrē	1 1 1 1 1 1
pap	pāp	1 1 1
parabola	pūrabulū	1 1 1 1 1 1 1 1
parabolic	pūrabulik	1 1 1 1 1 1 1 1 1
paradigmatic	pārūđigmatik	1 1 1 1 1 1 1 1 1 1 1 1
paragon	pārūgōn	1 1 1 1 1 1 1
paranoia	pārūnoiu	1 1 1 1 1 1 1 1
parasitic	pārūsitik	1 1 1 1 1 1 1 1 1
parasol	pārūsōl	1 1 1 1 1 1 1
parity	pārītē	1 1 1 1 1 1
parody	pārūđē	1 1 1 1 1 1
past	pāst	1 1 1 1
pasty	pāstē	1 1 1 1 1

WORD	DECODE	FILTER LEVEL
pat	p̃at	1 1 1
patina	p̃at̃uñu	1 1 1 1 1 1
peal	p̃ē(u)l	1 1 1
pectin	p̃ekt̃uñ	1 1 1 1 1 1
pedal	p̃ed̃ul	1 1 1 1 1
pedant	p̃ed̃unt̃	1 1 1 1 1 1
peg	p̃eg	1 1 1
pelican	p̃el̃ik̃uñ	1 1 1 1 1 1 1
pelt	p̃elt	1 1 1 1
pen	p̃en	1 1 1
penal	p̃eñul	1 1 1 1 1
penalty	p̃eñult̃ē	1 1 1 1 1 1 1
pendant	p̃end̃unt̃	1 1 1 1 1 1 1
pent	p̃ent	1 1 1 1
pentagon	p̃ent̃ig̃oñ	1 1 1 1 1 1 1 1
penult	p̃eñult̃	1 1 1 1 1 1
penury	p̃eñur̃ē	1 1 1 1 1 1
peony	p̃ēoñē	1 1 1 1 1
pep	p̃ep	1 1 1
pepsin	p̃eps̃uñ	1 1 1 1 1 1
peptic	p̃ept̃ik̃	1 1 1 1 1 1
perineum	p̃er̃uñē̃um̃	1 1 1 1 1 1 1 1
peritoneum	p̃er̃ut̃uñē̃um̃	1 1 1 1 1 1 1 1 1 1
pest	p̃est	1 1 1 1
pet	p̃et	1 1 1

WORD	DECODE	FILTER LEVEL
picnic	pīknīk	1 1 1 1 1 1
pig	pīg	1 1 1
pilgrim	pīlgrūm	1 1 1 1 1 1 1
pilot	pīlūt	1 1 1 1 1
pimento	pūmētō	1 1 1 1 1 1 1
pin	pīn	1 1 1
pineal	pīnēūl	1 1 1 1 1 1
pistil	pīstūl	1 1 1 1 1 1
pity	pītē	1 1 1 1
plan	plān	1 1 1 1
plant	plānt	1 1 1 1 1
plastic	plāstīk	1 1 1 1 1 1 1
platform	plātform	1 1 1 1 1 1 1 1
platinum	plātnum	1 1 1 1 1 1 1
plenary	plēnūrē	1 1 1 1 1 1 1
plenty	plēntē	1 1 1 1 1 1
plot	plōt	1 1 1 1
plug	plūg	1 1 1 1
plum	plūm	1 1 1 1
plump	plūmp	1 1 1 1 1
ply	plī	1 1 1
pod	pōd	1 1 1
poem	pōēm	1 1 1 1
poet	pōēt	1 1 1 1
poetic	pōētīk	1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
point	pōunt	1 1 1 1 1
polarity	pōlarūtē	1 1 1 1 1 1 1 1
polemic	pūlemik	1 1 1 1 1 1 1
politic	pōlūtik	1 1 1 1 1 1 1
politics	pūlitiks	1 1 1 1 1 1 1 1
polity	pōlūtē	1 1 1 1 1 1
polo	pōlō	1 1 1 1
pomp	pōmp	1 1 1 1
pomposity	pōmpōsitē	1 1 1 1 1 1 1 1 1
pond	pōnd	1 1 1 1
pony	pōnē	1 1 1 1
pop	pōp	1 1 1
popcorn	pōpkōrn	1 1 1 1 1 1 1
poplin	pōplīn	1 1 1 1 1 1
popularity	pōpularitē	1 1 1 1 1 1 1 1 1 1
porosity	pūrōsutē	1 1 1 1 1 1 1 1
port	pōrt	1 1 1 1
portly	pōrtlē	1 1 1 1 1 1
post	pōst	1 1 1 1
postscript	pōstskript	1 1 1 1 1 1 1 1 1 1
posterity	pōstērūtē	1 1 1 1 1 1 1 1 1
postman	pōstmun	1 1 1 1 1 1 1
pot	pōt	1 1 1
potato	pūtātō	1 1 1 1 1 1
practical	praktikūl	1 1 1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
pragmatic	prǎgmǎtik	1 1 1 1 1 1 1 1 1
predict	prĕdikt	1 1 1 1 1 1 1
prefect	prĕfĕkt	1 1 1 1 1 1 1
pregnant	prĕgnunt	1 1 1 1 1 1 1 1
premier	prĕm(y)ĩ(u)r	1 1 1 1 1 1
pretend	prĕtĕnd	1 1 1 1 1 1 1
prevaricate	prĩvarũkāt	1 1 1 1 1 1 1 1 1 1
prevent	prĕvĕnt	1 1 1 1 1 1 1
prim	prĩm	1 1 1 1
print	prĩnt	1 1 1 1 1
privy	prĩvĕ	1 1 1 1 1
probability	prũbũlũtĕ	1 1 1 1 1 1 1 1 1 1 1
probably	prũbũlĕ	1 1 1 1 1 1 1 1
prod	prũd	1 1 1 1
product	prũdũkt	1 1 1 1 1 1 1
productivity	prũdũktĩvĩtĕ	1 1 1 1 1 1 1 1 1 1 1 1
profanity	prũfũnũtĕ	1 1 1 1 1 1 1 1 1
profundity	prũfũndũtĕ	1 1 1 1 1 1 1 1 1 1
program	prũgrǎm	1 1 1 1 1 1 1
prolific	prũlĩfĩk	1 1 1 1 1 1 1 1
prompt	prũmpt	1 1 1 1 1 1
prop	prũp	1 1 1 1
propaganda	prũpũgũndũ	1 1 1 1 1 1 1 1 1 1
propagandist	prũpũgũndũst	1 1 1 1 1 1 1 1 1 1 1 1
propensity	prũpũnsĩtĕ	1 1 1 1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
prospect	pr̄osp̄ekt	1 1 1 1 1 1 1 1
prosperity	pr̄osp̄er̄ut̄ē	1 1 1 1 1 1 1 1 1 1
prosody	pr̄os̄ud̄ē	1 1 1 1 1 1 1
protagonist	pr̄ot̄aḡon̄ist	1 1 1 1 1 1 1 1 1 1 1
protect	pr̄ot̄ekt	1 1 1 1 1 1 1
protest	pr̄ot̄est	1 1 1 1 1 1 1
protocol	pr̄ot̄oc̄ol	1 1 1 1 1 1 1 1
proton	pr̄ot̄on	1 1 1 1 1 1
protract	pr̄otr̄akt	1 1 1 1 1 1 1 1
public	p̄ubl̄ik	1 1 1 1 1 1
publican	p̄ubl̄ik̄an	1 1 1 1 1 1 1 1
publicly	p̄ubl̄ik̄l̄ē	1 1 1 1 1 1 1 1
pug	p̄ug	1 1 1
pulp	p̄ulp	1 1 1 1
pump	p̄ump	1 1 1 1
pun	p̄un	1 1 1
pup	p̄up	1 1 1
rabid	r̄ab̄id	1 1 1 1 1
radar	r̄ad̄ar	1 1 1 1 1
raft	r̄aft	1 1 1 1
rag	r̄ag	1 1 1
ram	r̄am	1 1 1
ramp	r̄amp	1 1 1 1
rampant	r̄am̄unt	1 1 1 1 1 1
rampart	r̄am̄part	1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
ramrod	řamřod	1 1 1 1 1 1
ran	řan	1 1 1
rant	řant	1 1 1 1
rap	řap	1 1 1
rapid	řapid	1 1 1 1 1
rapidity	řapiditě	1 1 1 1 1 1 1 1
rapt	řapt	1 1 1 1
rarity	řarutě	1 1 1 1 1 1
rasp	řasp	1 1 1 1
rat	řat	1 1 1
react	řěakt	1 1 1 1 1
realist	řěalüst	1 1 1 1 1 1 1
realistic	řěalístik	1 1 1 1 1 1 1 1 1
reality	řěalítě	1 1 1 1 1 1 1
realty	řěaltě	1 1 1 1 1 1
recant	řěkánt	1 1 1 1 1 1
recoil	řěkoil	1 1 1 1 1 1
reconstruct	řěkónstrukt	1 1 1 1 1 1 1 1 1 1 1
record	řěkord	1 1 1 1 1 1
recreant	řěkreünt	1 1 1 1 1 1 1 1
rectory	řěktore	1 1 1 1 1 1 1
rectum	řěktum	1 1 1 1 1 1
red	řed	1 1 1
redundant	řědündünt	1 1 1 1 1 1 1 1 1
reflect	řěflěkt	1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
reform	rēfōrm	1 1 1 1 1 1
refractory	rēfraktōrē	1 1 1 1 1 1 1 1 1 1
refund	rēfund	1 1 1 1 1 1
regard	rēgard	1 1 1 1 1 1
registry	rēgistrē	1 1 1 1 1 1 1 1
regnant	rēgnant	1 1 1 1 1 1 1
regret	rēgrēt	1 1 1 1 1 1
relent	rēlēnt	1 1 1 1 1 1
reliability	rēliūbilitē	1 1 1 1 1 1 1 1 1 1 1 1
relic	rēlik	1 1 1 1 1
reluctant	rēlūktant	1 1 1 1 1 1 1 1 1 1
remand	rēmānd	1 1 1 1 1 1
remark	rēmārk	1 1 1 1 1 1
remind	rēmīnd	1 1 1 1 1 1
remnant	rēmnannt	1 1 1 1 1 1 1
rend	rēnd	1 1 1 1
rent	rēnt	1 1 1 1
repast	rēpast	1 1 1 1 1 1
repent	rēpēnt	1 1 1 1 1 1
repentant	rēpēnant	1 1 1 1 1 1 1 1 1 1
replant	rēplānt	1 1 1 1 1 1 1
report	rēpōrt	1 1 1 1 1 1
reprimand	rēprīmānd	1 1 1 1 1 1 1 1 1 1
reprint	rēprīnt	1 1 1 1 1 1 1
republic	rēpublik	1 1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
republican	rēpūblikūn	1 1 1 1 1 1 1 1 1 1
repugnant	rēpūgnūnt	1 1 1 1 1 1 1 1 1
resent	rēsēnt	1 1 1 1 1 1
resin	rēsīn	1 1 1 1 1
resist	rēsīst	1 1 1 1 1 1
resonant	rēsūnūnt	1 1 1 1 1 1 1 1 1
respect	rēsṗēkt	1 1 1 1 1 1 1
respectability	rēsṗēktābilutē	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
respond	rēsṗōnd	1 1 1 1 1 1 1
rest	rēst	1 1 1 1
restrict	rēstrikt	1 1 1 1 1 1 1 1
retina	rētūnū	1 1 1 1 1 1
retort	rētūrt	1 1 1 1 1 1
retract	rētrakt	1 1 1 1 1 1 1
retrospect	rētrōsṗēkt	1 1 1 1 1 1 1 1 1 1 1
revolt	rēvōlt	1 1 1 1 1 1
rib	rīb	1 1 1
ribald	rībūld	1 1 1 1 1 1
rid	rīd	1 1 1
rift	rīft	1 1 1 1
rig	rīg	1 1 1
rim	rīm	1 1 1
rind	rīnd	1 1 1 1
rip	rīp	1 1 1
risen	rīsēn	1 1 1 1 1

WORD	DECODE	FILTER LEVEL
risky	ṛiske	1 1 1 1 1
rob	ṛob	1 1 1
robin	ṛobin	1 1 1 1 1
robot	ṛobot	1 1 1 1 1
robust	ṛobust	1 1 1 1 1 1
rococo	ṛukoko	1 1 1 1 1 1
rod	ṛod	1 1 1
rodeo	ṛodeo	1 1 1 1 1
romantic	ṛomantik	1 1 1 1 1 1 1 1
romp	ṛomp	1 1 1 1
rondo	ṛondo	1 1 1 1 1
rosary	ṛosure	1 1 1 1 1 1
roseate	ṛoseat	1 1 1 1 1 1
rosin	ṛosin	1 1 1 1 1
rostrum	ṛostrum	1 1 1 1 1 1 1
rosy	ṛose	1 1 1 1
rot	ṛot	1 1 1
rotary	ṛoturē	1 1 1 1 1 1
rotund	ṛotund	1 1 1 1 1 1
rub	ṛub	1 1 1
rug	ṛug	1 1 1
rump	ṛump	1 1 1 1
run	ṛun	1 1 1
runt	ṛunt	1 1 1 1
rust	ṛust	1 1 1 1

WORD	DECODE	FILTER LEVEL
rustic	rŭstik	1 1 1 1 1 1
rusty	rŭstē	1 1 1 1 1
rut	rŭt	1 1 1
sacristan	šakrŭstun	1 1 1 1 1 1 1 1 1 1
sad	sad	1 1 1
sadly	sadlē	1 1 1 1 1
sag	sag	1 1 1
saga	sagā	1 1 1 1
sal	sāl	1 1 1
salad	salud	1 1 1 1 1
salary	salurē	1 1 1 1 1 1
salinity	salinitē	1 1 1 1 1 1 1 1
saliva	salivā	1 1 1 1 1 1
salvo	salvō	1 1 1 1 1
sand	sand	1 1 1 1
sandy	sandē	1 1 1 1 1
sanity	sanitē	1 1 1 1 1 1
sap	sap	1 1 1
sarcoma	šarkōma	1 1 1 1 1 1 1
sardonic	šardonik	1 1 1 1 1 1 1 1
sat	sat	1 1 1
satanic	šatanik	1 1 1 1 1 1 1
satin	šatin	1 1 1 1 1
satisfactory	šatšfaktōrē	1 1 1 1 1 1 1 1 1 1 1 1
savoy	suvoi	1 1 1 1 1

WORD	DECODE	FILTER LEVEL
scab	skab	1 1 1 1
scald	skald	1 1 1 1 1
scalp	skalp	1 1 1 1 1
scamp	skamp	1 1 1 1 1
scan	skan	1 1 1 1
scant	skant	1 1 1 1 1
scanty	skantē	1 1 1 1 1 1
scarab	skarub	1 1 1 1 1 1
scarf	skarf	1 1 1 1 1
sceptic	skeptik	1 1 1 1 1 1 1
scold	sköld	1 1 1 1 1
scorn	skorn	1 1 1 1 1
scrap	skrap	1 1 1 1 1
scrim	skrim	1 1 1 1 1
scrip	skrip	1 1 1 1 1
script	skript	1 1 1 1 1 1
scrub	skrub	1 1 1 1 1
scurvy	skurvē	1 1 1 1 1 1
secret	sēkret	1 1 1 1 1 1
sect	sekt	1 1 1 1
sedan	sedun	1 1 1 1 1
self	self	1 1 1 1
sen	sen	1 1 1
send	send	1 1 1 1
senility	senilite	1 1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
sensitivity	šens̆utiv̆utē	1 1 1 1 1 1 1 1 1 1 1 1
sensory	šens̆urē	1 1 1 1 1 1 1
sent	šent	1 1 1 1
sentry	šentrē	1 1 1 1 1 1
sepal	šepul	1 1 1 1 1
septet	šeptet	1 1 1 1 1 1
septic	šeptik	1 1 1 1 1 1
serenity	šerēnūtē	1 1 1 1 1 1 1 1 1
serf	šerf	1 1 1 1
serum	šerum	1 1 1 1 1
servant	šervunt	1 1 1 1 1 1 1
set	šet	1 1 1
seventy	ševēntē	1 1 1 1 1 1 1
sift	šift	1 1 1 1
signal	šignul	1 1 1 1 1 1
significant	šignifikunt	1 1 1 1 1 1 1 1 1 1 1 1
silicon	šilikun	1 1 1 1 1 1 1
silt	šilt	1 1 1 1
silvery	šilv(u)rē	1 1 1 1 1 1
simply	šimplē	1 1 1 1 1 1
sin	šin	1 1 1
sinful	šinful	1 1 1 1 1 1
sip	šip	1 1 1
slab	šlab	1 1 1 1
slag	šlag	1 1 1 1

WORD	DECODE	FILTER LEVEL
slam	s [˘] lām	1 1 1 1
slant	s [˘] lānt	1 1 1 1 1
slap	s [˘] lāp	1 1 1 1
slat	s [˘] lāt	1 1 1 1
sled	s [˘] lēd	1 1 1 1
slept	s [˘] lēpt	1 1 1 1 1
slid	s [˘] līd	1 1 1 1
slim	s [˘] līm	1 1 1 1
slip	s [˘] līp	1 1 1 1
slogan	s [˘] lōgūn	1 1 1 1 1 1
slot	s [˘] lōt	1 1 1 1
slug	s [˘] lūg	1 1 1 1
slum	s [˘] lūm	1 1 1 1
slump	s [˘] lūmp	1 1 1 1 1
smelt	s [˘] mēlt	1 1 1 1 1
smorgasbord	s [˘] mōrgūs [˘] bōrd	1 1 1 1 1 1 1 1 1 1 1
smug	s [˘] mūg	1 1 1 1
smut	s [˘] mūt	1 1 1 1
snag	s [˘] nāg	1 1 1 1
snap	s [˘] nāp	1 1 1 1
snip	s [˘] nīp	1 1 1 1
snob	s [˘] nōb	1 1 1 1
snub	s [˘] nūb	1 1 1 1
snug	s [˘] nūg	1 1 1 1
sob	s [˘] ōb	1 1 1

WORD	DECODE	FILTER LEVEL
sod	sod	1 1 1
soda	sodū	1 1 1 1
sofa	sōfū	1 1 1 1
soft	sōft	1 1 1 1
soil	sōil	1 1 1 1
sold	sōld	1 1 1 1
solemnity	sulemnūtē	1 1 1 1 1 1 1 1 1 1
solid	solud	1 1 1 1 1
solidity	sulidūtē	1 1 1 1 1 1 1 1 1
solo	sōlō	1 1 1 1
somatic	sōmatik	1 1 1 1 1 1 1 1
sonic	sonik	1 1 1 1 1
sonority	sūnorūtē	1 1 1 1 1 1 1 1 1
sop	sop	1 1 1
soporific	sopurifik	1 1 1 1 1 1 1 1 1 1
soprano	sūprānō	1 1 1 1 1 1 1 1
sordid	sordud	1 1 1 1 1 1
sort	sort	1 1 1 1
span	span	1 1 1 1
spastic	spāstik	1 1 1 1 1 1 1 1
spat	spat	1 1 1 1
spectral	spektrul	1 1 1 1 1 1 1 1 1
spectrum	spektrum	1 1 1 1 1 1 1 1 1
sped	sped	1 1 1 1
spend	spend	1 1 1 1 1

WORD	DECODE	FILTER LEVEL
spent	spĕnt	1 1 1 1 1
spin	spĭn	1 1 1 1
splendid	splĕndĭd	1 1 1 1 1 1 1 1
splint	splĭnt	1 1 1 1 1 1
split	spĭt	1 1 1 1 1
spoil	spōil	1 1 1 1 1
spot	spŏt	1 1 1 1
sprig	spĕrĭg	1 1 1 1 1
sprint	spĕrĭnt	1 1 1 1 1 1
spun	spŭn	1 1 1 1
sub	sŭb	1 1 1
subliminal	sŭblĭmĭnŭl	1 1 1 1 1 1 1 1 1 1
sublimity	sŭblĭmĭtĕ	1 1 1 1 1 1 1 1 1
subscript	sŭbskrĭpt	1 1 1 1 1 1 1 1 1
subsidence	sŭbsĭdĕns	1 1 1 1 1 1 1 1 1
subsist	sŭbsĭst	1 1 1 1 1 1 1
subsistence	sŭbsĭstĕns	1 1 1 1 1 1 1 1 1 1
substance	sŭbstŭns	1 1 1 1 1 1 1 1
substratum	sŭbstĕratŭm	1 1 1 1 1 1 1 1 1 1
subtract	sŭbtrŭkt	1 1 1 1 1 1 1 1
subtropical	sŭbtĕrŏpĭkul	1 1 1 1 1 1 1 1 1 1 1
suds	sŭds	1 1 1 1
sulky	sŭlkĕ	1 1 1 1 1
sultan	sŭltŭn	1 1 1 1 1 1
sultry	sŭltrĕ	1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
sum	sum	1 1 1
sun	sun	1 1 1
sundry	sundre	1 1 1 1 1 1
sunset	sunset	1 1 1 1 1 1
sunspot	sunspot	1 1 1 1 1 1 1
sup	sup	1 1 1
suspect	suspekt	1 1 1 1 1 1 1
suspend	suspend	1 1 1 1 1 1 1
stab	stab	1 1 1 1
stability	stabilute	1 1 1 1 1 1 1 1 1
stag	stag	1 1 1 1
stagnant	stagnunt	1 1 1 1 1 1 1 1
stamen	stamun	1 1 1 1 1 1
stamina	stamunu	1 1 1 1 1 1 1
stamp	stamp	1 1 1 1 1
stand	stand	1 1 1 1 1
standpoint	stan(d)point	1 1 1 1 1 1 1 1 1 1
static	statik	1 1 1 1 1 1
statist	statust	1 1 1 1 1 1 1
stem	stem	1 1 1 1
step	step	1 1 1 1
stigma	stigmu	1 1 1 1 1 1
stilt	stilt	1 1 1 1 1
stint	stint	1 1 1 1 1
stipend	stipend	1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
stoic	stōik	1 1 1 1 1
stoical	stōikul	1 1 1 1 1 1 1
stolen	stōlen	1 1 1 1 1 1
stolid	stōlid	1 1 1 1 1 1
stony	stōnē	1 1 1 1 1
stop	stōp	1 1 1 1
storm	stōrm	1 1 1 1 1
stormy	stōrmē	1 1 1 1 1 1
story	stōrē	1 1 1 1 1
strand	strānd	1 1 1 1 1 1
strap	strāp	1 1 1 1 1
strata	strātu	1 1 1 1 1 1
stratum	strātum	1 1 1 1 1 1 1
strict	strikt	1 1 1 1 1 1
strip	strip	1 1 1 1 1
strop	strop	1 1 1 1 1
strut	strūt	1 1 1 1 1
stub	stūb	1 1 1 1
stud	stūd	1 1 1 1
study	stūde	1 1 1 1 1
stump	stūmp	1 1 1 1 1
stun	stūn	1 1 1 1
stunt	stūnt	1 1 1 1 1
tab	tāb	1 1 1
tabloid	tābloid	1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
tact	tǎkt	1 1 1 1
tactful	tǎktfŭl	1 1 1 1 1 1 1
tactics	tǎktiks	1 1 1 1 1 1 1
tag	tǎg	1 1 1
talent	tǎlĕnt	1 1 1 1 1 1
talisman	tǎlismŭn	1 1 1 1 1 1 1 1
tampon	tǎmpŏn	1 1 1 1 1 1
tan	tǎn	1 1 1
tantrum	tǎntrŭm	1 1 1 1 1 1 1
tap	tǎp	1 1 1
target	tǎrgĕt	1 1 1 1 1 1
tempo	tĕmpŏ	1 1 1 1 1
temporal	tĕmpŭrŭl	1 1 1 1 1 1 1 1
tempt	tĕmpt	1 1 1 1 1
ten	tĕn	1 1 1
tenant	tĕnŭnt	1 1 1 1 1 1
tend	tĕnd	1 1 1 1
tenfold	tĕnfŏld	1 1 1 1 1 1 1
tent	tĕnt	1 1 1 1
tepid	tĕpŭd	1 1 1 1 1
test	tĕst	1 1 1 1
testy	tĕstĕ	1 1 1 1 1
tetrad	tĕtrŭd	1 1 1 1 1 1
tilt	tĭlt	1 1 1 1
timid	tĭmŭd	1 1 1 1 1

WORD	DECODE	FILTER LEVEL
timidity	tūmidūtē	1 1 1 1 1 1 1 1
tin	tīn	1 1 1
tint	tīnt	1 1 1 1
tip	tīp	1 1 1
tipsy	tīpsē	1 1 1 1 1
toga	tōgū	1 1 1 1
toil	tōil	1 1 1 1
told	tōld	1 1 1 1
tomato	tūmātō	1 1 1 1 1 1
tonality	tōnalūtē	1 1 1 1 1 1 1 1
tonic	tōnik	1 1 1 1 1
top	tōp	1 1 1
topic	tōpik	1 1 1 1 1
topmast	tōpmāst	1 1 1 1 1 1 1
torment	tōrment	1 1 1 1 1 1 1
torn	tōrn	1 1 1 1
tornado	tōrnādō	1 1 1 1 1 1 1
torpedo	tōrpēdō	1 1 1 1 1 1 1
torpid	tōrpūd	1 1 1 1 1 1
torso	tōrsō	1 1 1 1 1
tot	tōt	1 1 1
tub	tūb	1 1 1
tuft	tūft	1 1 1 1
tug	tūg	1 1 1
tut	tūt	1 1 1

WORD	DECODE	FILTER LEVEL
tract	träkt	1 1 1 1 1
tram	tram	1 1 1 1
tramp	tramp	1 1 1 1 1
trance	träns	1 1 1 1 1
transact	tränsakt	1 1 1 1 1 1 1 1
transatlantic	tränsatlantik	1 1 1 1 1 1 1 1 1 1 1 1 1
transcript	tränskript	1 1 1 1 1 1 1 1 1 1
transform	tränsförm	1 1 1 1 1 1 1 1 1
transitory	tränsitörē	1 1 1 1 1 1 1 1 1 1
transplant	tränsplänt	1 1 1 1 1 1 1 1 1 1
transport	tränsport	1 1 1 1 1 1 1 1 1 1
trap	trap	1 1 1 1
trend	trend	1 1 1 1 1
trigonometry	trägunometrē	1 1 1 1 1 1 1 1 1 1 1 1 1
trilogy	trälugē	1 1 1 1 1 1 1
trim	trim	1 1 1 1
trinity	tränitē	1 1 1 1 1 1 1
trip	trip	1 1 1 1
triplet	träplet	1 1 1 1 1 1 1
trivet	trävet	1 1 1 1 1 1
triviality	trävealitē	1 1 1 1 1 1 1 1 1 1 1
trod	trod	1 1 1 1
tropic	träpik	1 1 1 1 1 1
tropical	träpikul	1 1 1 1 1 1 1 1
trot	trot	1 1 1 1

WORD	DECODE	FILTER LEVEL
trump	trump	1 1 1 1 1
trumpet	trumpet	1 1 1 1 1 1 1
trust	trust	1 1 1 1 1
trustee	trustee	1 1 1 1 1 1
trustful	trustful	1 1 1 1 1 1 1 1
trusty	trusty	1 1 1 1 1 1
ugly	ugly	1 1 1 1
ultra	ultra	1 1 1 1 1
umbilical	umbilical	1 1 1 1 1 1 1 1 1 1
unbelief	unbelief	1 1 1 1 1 1 1 1
unborn	unborn	1 1 1 1 1 1
undid	undid	1 1 1 1 1
uneven	uneven	1 1 1 1 1 1
unfold	unfold	1 1 1 1 1 1
ungodly	ungodly	1 1 1 1 1 1 1
ungrateful	ungrateful	1 1 1 1 1 1 1 1 1 1
unmanly	unmanly	1 1 1 1 1 1 1 1
unreality	unreality	1 1 1 1 1 1 1 1 1 1
unrest	unrest	1 1 1 1 1 1
untold	untold	1 1 1 1 1 1
up	up	1 1
upland	upland	1 1 1 1 1 1
uplift	uplift	1 1 1 1 1 1
upset	upset	1 1 1 1 1
upstart	upstart	1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
vacant	vākunt	1 1 1 1 1 1
vagabond	vāgubond	1 1 1 1 1 1 1 1
vagary	vāgure	1 1 1 1 1 1
vagrant	vāgrunt	1 1 1 1 1 1 1
valid	vālud	1 1 1 1 1
validity	vālidite	1 1 1 1 1 1 1 1
vamp	vamp	1 1 1 1
van	vān	1 1 1
vandal	vāndul	1 1 1 1 1 1
vanity	vānutē	1 1 1 1 1 1
vary	vārē	1 1 1 1
vast	vast	1 1 1 1
vat	vāt	1 1 1
venal	vēnul	1 1 1 1 1
vent	vēnt	1 1 1 1
ventral	vēntrul	1 1 1 1 1 1 1
verity	vērute	1 1 1 1 1 1
very	verē	1 1 1 1
vest	vest	1 1 1 1
vestal	vēstul	1 1 1 1 1 1
vestry	vēstre	1 1 1 1 1 1
veto	vētō	1 1 1 1
victim	viktum	1 1 1 1 1 1
victory	vikturē	1 1 1 1 1 1 1
video	videō	1 1 1 1 1

WORD	DECODE	FILTER LEVEL
viscosity	v̄isk̄os̄utē	1 1 1 1 1 1 1 1 1
vista	v̄istū	1 1 1 1 1
vivid	v̄ivud	1 1 1 1 1
vocal	v̄okul	1 1 1 1 1
vocalic	v̄okal̄ik	1 1 1 1 1 1 1
void	v̄oid	1 1 1 1
volcano	v̄olk̄anō	1 1 1 1 1 1 1
volt	v̄olt	1 1 1 1
votary	v̄oturē	1 1 1 1 1 1
vulgarity	v̄ulgar̄utē	1 1 1 1 1 1 1 1 1

FILTER TWO

WORD	DECODE	FILTER LEVEL
administer	u [˘] dminu [˘] stu [˘] r	1 1 1 1 1 1 1 1 2
after	a [˘] ftu [˘] r	1 1 1 2
afterburner	a [˘] ftu [˘] rbu [˘] rnur	1 1 1 2 1 1 1 1 2
alabaster	a [˘] lu [˘] bā [˘] stu [˘] r	1 1 1 1 1 1 1 2
amass	u [˘] mas	1 1 1 2
amber	a [˘] mbu [˘] r	1 1 1 2
ass	ā [˘] s	1 2
aster	ā [˘] stu [˘] r	1 1 1 2
asteroid	ā [˘] stu [˘] roid	1 1 1 2 1 1 1
astronomer	u [˘] stronu [˘] mur	1 1 1 1 1 1 1 1 2
asunder	u [˘] sundu [˘] r	1 1 1 1 1 2
aver	u [˘] vur	1 1 2
banister	bā [˘] nistu [˘] r	1 1 1 1 1 1 2
banter	bā [˘] ntu [˘] r	1 1 1 1 2
bass	bā [˘] s	1 1 2
bell	bē [˘] l	1 1 2
bill	bī [˘] l	1 1 2
bless	blē [˘] s	1 1 1 2
blister	blī [˘] stu [˘] r	1 1 1 1 1 2
bluff	blū [˘] f	1 1 1 2
blunder	blū [˘] ndu [˘] r	1 1 1 1 1 2
bluster	blū [˘] stu [˘] r	1 1 1 1 1 2

WORD	DECODE	FILTER LEVEL
boiler	boilur	1 1 1 1 2
bolster	bolstur	1 1 1 1 1 2
border	bordur	1 1 1 1 2
brass	bras	1 1 1 2
broiler	broilur	1 1 1 1 1 2
buff	buf	1 1 2
bumper	bumper	1 1 1 1 2
butler	butler	1 1 1 1 2
camber	kamber	1 1 1 1 2
camera	kameru	1 1 1 2 1
camper	kamper	1 1 1 1 2
canister	kanister	1 1 1 1 1 1 2
canter	kantur	1 1 1 1 2
cantor	kantur	1 1 1 1 2
caper	kaper	1 1 1 2
caster	kaster	1 1 1 1 2
cater	katur	1 1 1 2
cavern	kavurn	1 1 1 2 1
clamber	klamber	1 1 1 1 1 2
class	klas	1 1 1 2
clergy	klergē	1 1 2 1 1
clever	klever	1 1 1 1 2
cliff	klif	1 1 1 2
closeness	klösnēs	1 1 1 1 1 1 2
clover	klöver	1 1 1 1 2

WORD	DECODE	FILTER LEVEL
cluster	klŭster	1 1 1 1 1 2
coerce	kōers	1 1 2 1
comer	kŭmer	1 1 1 2
compress	kŏmpres	1 1 1 1 1 1 2
condenser	kŏndensēr	1 1 1 1 1 1 1 2
conifer	kŏnifer	1 1 1 1 1 2
confer	kŏnfer	1 1 1 1 2
conference	kŏnfērēns	1 1 1 1 2 1 1 1
confess	kŏnfēs	1 1 1 1 1 2
Congress	kŏngres	1 1 1 1 1 1 2
consider	kŏnsider	1 1 1 1 1 1 2
considerably	kŏnsiderŭblē	1 1 1 1 1 1 2 1 1 1 1
controversy	kŏntrŭversē	1 1 1 1 1 1 1 2 1 1
conversly	kŏnverslē	1 1 1 1 2 1 1 1
convert	kŏnvert	1 1 1 1 2 1
converter	kŭnvertēr	1 1 1 1 2 1 2
corner	kŏrner	1 1 1 1 2
coroner	kŏrŭnēr	1 1 1 1 1 2
costliness	kŏstlēnes	1 1 1 1 1 1 1 1 2
cover	kŭver	1 1 1 2
coverlet	kŭverlēt	1 1 1 2 1 1 1
crass	krās	1 1 1 2
crater	krāter	1 1 1 1 2
cress	krēs	1 1 1 2
damper	dāmpēr	1 1 1 1 2

WORD	DECODE	FILTER LEVEL
decorative	dekerativ	1 1 1 2 1 1 1 1
defer	defer	1 1 1 2
deference	deferens	1 1 1 2 1 1 1
deliver	deliver	1 1 1 1 1 2
deliverance	deliverens	1 1 1 1 1 2 1 1 1
delivery	delivere	1 1 1 1 1 2 1
dell	del	1 1 2
demitasse	demetas	1 1 1 1 1 1 2
depress	depres	1 1 1 1 1 2
derby	derbe	1 2 1 1
desideratum	desideratum	1 1 1 1 1 2 1 1 1 1
deter	deter	1 1 1 2
dimness	dimnes	1 1 1 1 1 2
discover	diskuver	1 1 1 1 1 1 2
discovery	diskuvere	1 1 1 1 1 1 2 1
disfigure	disfiger	1 1 1 1 1 1 2
disgruntle	disgruntel	1 1 1 1 1 1 1 1 2
dismember	dismember	1 1 1 1 1 1 1 2
disorder	disorder	1 1 1 1 1 1 2
disorderly	disorderle	1 1 1 1 1 1 2 1 1
dispenser	dispenser	1 1 1 1 1 1 1 2
disreputable	disreputabel	1 1 1 1 1 1 1 1 1 1 2
distaff	distaf	1 1 2 1 1 2
distemper	distemper	1 1 1 1 1 1 1 2
distill	distil	1 1 1 1 1 2

WORD	DECODE	FILTER LEVEL
distress	dĭstrĕs	1 1 1 1 1 1 2
diversity	dĭvĕrsĭtĕ	1 1 1 2 1 1 1 1
doff	dɔf	1 1 2
doll	dɔl	1 1 2
dress	dres	1 1 1 2
drill	dril	1 1 1 2
driver	drĭvĕr	1 1 1 1 2
drover	drɔvĕr	1 1 1 1 2
duff	dʌf	1 1 2
dull	dʌl	1 1 2
dully	dʌl(1)e	1 1 2 1
duster	dʌstĕr	1 1 1 1 2
egress	ĕgrĕs	1 1 1 1 2
elder	ĕldĕr	1 1 1 2
elderly	ĕldĕrlĕ	1 1 1 2 1 1
ell	ĕl	1 2
ember	ĕmbĕr	1 1 1 2
enter	ĕntĕr	1 1 1 2
ester	ĕstur	1 1 1 2
eternity	ĕtĕrnĭtĕ	1 1 2 1 1 1 1
falconer	falkʊnĕr	1 1 1 1 1 1 2
fatness	fātnes	1 1 1 1 1 2
federal	fĕdĕrəl	1 1 1 2 1 1
federalist	fĕdĕrəlĭst	1 1 1 2 1 1 1 1 1
fell	fĕl	1 1 2

WORD	DECODE	FILTER LEVEL
fender	fēnder	1 1 1 1 2
ferment	fērment	1 2 1 1 1 1
fern	fērñ	1 2 1
fertility	fērtilitē	1 2 1 1 1 1 1 1
fervent	fērvent	1 2 1 1 1 1
fervid	fērvid	1 2 1 1 1
fester	fēster	1 1 1 1 2
fever	fēver	1 1 1 2
fiber	fīber	1 1 1 2
fill	fīl	1 1 2
filter	fīlter	1 1 1 1 2
finesse	fīnes	1 1 1 1 2
fitful	fītful	1 1 1 1 1 2
flagstaff	fłagstaf	1 1 1 1 1 1 1 2
fluff	fłuf	1 1 1 2
fluster	fłuster	1 1 1 1 1 2
folder	fōlder	1 1 1 1 2
forestall	fōrstol	1 1 1 1 1 1 2
forester	fōrester	1 1 1 1 1 1 2
foretell	fōrtel	1 1 1 1 1 2
forever	fōrever	1 1 1 1 1 2
forgiveness	fōrgivñes	1 1 1 1 1 1 1 1 2
former	fōrmer	1 1 1 1 2
formerly	fōrmerlē	1 1 1 1 2 1 1
fortress	fōrtres	1 1 1 1 1 1 2

WORD	DECODE	FILTER LEVEL
fosse	f [˘] os	1 1 2
foster	f [˘] ost [˘] er	1 1 1 1 2
frill	fr [˘] il	1 1 1 2
fulfill	f [˘] ul [˘] fil	1 1 1 1 1 2
fuss	f [˘] us	1 1 2
gaff	g [˘] af	1 1 2
gander	g [˘] and [˘] ur	1 1 1 1 2
gill	g [˘] il	1 1 2
girder	g [˘] urd [˘] ur	1 1 1 1 2
giver	g [˘] iv [˘] ur	1 1 1 2
glass	g [˘] las	1 1 1 2
glister	g [˘] list [˘] ur	1 1 1 1 1 2
grass	g [˘] ras	1 1 1 2
grill	gr [˘] il	1 1 1 2
gruff	gr [˘] uf	1 1 1 2
gull	g [˘] ul	1 1 2
ill	i [˘] l	1 2
immoral	i [˘] mor [˘] ul	1 2 1 1 1 1
impress	i [˘] mp [˘] res	1 1 1 1 1 2
infer	i [˘] fer	1 1 1 2
inference	i [˘] fer [˘] ens	1 1 1 2 1 1 1
infernal	i [˘] fern [˘] ul	1 1 1 2 1 1 1
inferno	i [˘] fern [˘] o	1 1 1 2 1 1
informer	i [˘] n [˘] form [˘] er	1 1 1 1 1 1 2
ingress	i [˘] ng [˘] res	1 1 1 1 1 2

WORD	DECODE	FILTER LEVEL
insert	insurt	1 1 1 2 1
instill	instil	1 1 1 1 1 2
inter	intur	1 1 1 2
interdict	inturdikt	1 1 1 2 1 1 1 1
interim	inturim	1 1 1 2 1 1
interloper	inturlopur	1 1 1 2 1 1 1 2
intern	inturn	1 1 1 2 1
internal	inturnul	1 1 1 2 1 1 1
intersect	intursekt	1 1 1 2 1 1 1 1
interval	inturvul	1 1 1 2 1 1 1
intolerant	intolurunt	1 1 1 1 1 2 1 1 1
introvert	intruvert	1 1 1 1 1 1 2 1
invert	invert	1 1 1 2 1
lantern	lanturn	1 1 1 1 2 1
lass	las	1 1 2
less	les	1 1 2
lever	levur	1 1 1 2
liberal	liburul	1 1 1 2 1 1
liberality	liburaluti	1 1 1 2 1 1 1 1 1
liberty	liburti	1 1 1 2 1 1
limber	limbur	1 1 1 1 2
linger	linggur	1 1 1 1 2
literal	liturul	1 1 1 2 1 1
liver	livur	1 1 1 2
livery	livuri	1 1 1 2 1

WORD	DECODE	FILTER LEVEL
lobster	lobst ^u r	1 1 1 1 1 2
loll	lol ^l	1 1 2
lull	lul ^l	1 1 2
manservant	man ^s ur ^v unt	1 1 1 1 2 1 1 1 1
mass	mas ^s	1 1 2
master	mas ^t ur	1 1 1 1 2
masterful	mas ^t ur ^f ul	1 1 1 1 2 1 1 1
mastery	mas ^t ur ⁱ	1 1 1 1 2 1
mastiff	mas ^t uf	1 1 1 1 1 2
meander	me ^a nd ^u r	1 1 1 1 1 2
member	me ^m ber	1 1 1 1 2
mess	mes ^s	1 1 2
midriff	mi ^d rif	1 1 1 1 1 2
mill	mil ^l	1 1 2
mistress	mi ^s tr ^e s	1 1 1 1 1 1 2
molder	mo ^l der	1 1 1 1 2
morass	mo ^r as	1 1 1 1 2
muff	mu ^f	1 1 2
mull	mul ^l	1 1 2
muss	mu ^s	1 1 2
never	nev ^e r	1 1 1 2
null	nu ^l	1 1 2
obsess	ob ^s es ^s	1 1 1 1 2
off	o ^f	1 2
overrun	ov ^e rrun	1 1 2 1 1 1

WORD	DECODE	FILTER LEVEL
overstep	ōvurstēp	1 1 2 1 1 1 1
overt	ōvert	1 1 2 1
overtop	ōvurtōp	1 1 2 1 1 1
pamper	pāmpēr	1 1 1 1 2
paper	pāpēr	1 1 1 2
pass	pās	1 1 2
pester	pēstēr	1 1 1 1 2
pilfer	pīlfēr	1 1 1 1 2
pill	pīl	1 1 2
planter	płāntēr	1 1 1 1 1 2
plaster	płāstēr	1 1 1 1 1 2
plunder	płundēr	1 1 1 1 1 2
pointer	pōintēr	1 1 1 1 1 2
ponder	pōndēr	1 1 1 1 2
pontiff	pōntif	1 1 1 1 1 2
porter	pōrtēr	1 1 1 1 2
poster	pōstēr	1 1 1 1 2
postmaster	pōstmāstēr	1 1 1 1 1 1 1 1 2
poverty	pōvurtē	1 1 1 2 1 1
prefer	přefūr	1 1 1 1 2
press	přēs	1 1 1 2
pretender	přētēndūr	1 1 1 1 1 1 1 2
primer	přīmer	1 1 1 1 2
printer	přīntēr	1 1 1 1 1 2
profess	přufēs	1 1 1 1 1 2

WORD	DECODE	FILTER LEVEL
progress	přogrěs	1 1 1 1 1 1 2
proper	přoper	1 1 1 1 2
properly	přoperlē	1 1 1 1 2 1 1
property	přopertē	1 1 1 1 2 1 1
prosper	přospēr	1 1 1 1 1 2
puff	puf	1 1 2
rafter	rāfter	1 1 1 1 2
rebuff	rēbuf	1 1 1 1 2
recall	rēkal	1 1 1 1 2
reconsider	rēkōnsidēr	1 1 1 1 1 1 1 1 2
recorder	rēkōrdēr	1 1 1 1 1 1 2
recover	rēkovēr	1 1 1 1 1 2
recovery	rēkovērē	1 1 1 1 1 2 1
redress	rēdrēs	1 1 1 1 1 2
refer	rēfēr	1 1 1 2
referendum	rēfērēndūm	1 1 1 2 1 1 1 1 1
refill	rēfil	1 1 1 2 1
refinery	rēfinērē	1 1 1 1 1 2 1
regress	rēgrēs	1 1 1 1 1 2
remember	rēmēmbēr	1 1 1 1 1 1 2
reminder	rēmīndēr	1 1 1 1 1 1 2
render	rēndēr	1 1 1 1 2
renter	rēntēr	1 1 1 1 2
repass	rēpās	1 1 1 1 2
repertory	rēpērtōrē	1 1 1 2 1 1 1 1

WORD	DECODE	FILTER LEVEL
reporter	rēpōrtēr	1 1 1 1 1 1 2
repress	rēprēs	1 1 1 1 1 2
restorer	rēstōrēr	1 1 1 1 1 1 2
revolver	rēvōlvēr	1 1 1 1 1 1 2
ribbon	rībānd	1 1 2 1 1 1
ridder	rīdēr	1 1 2 2
rill	rīl	1 1 2
river	rīvēr	1 1 1 2
rover	rōvēr	1 1 1 2
ruff	rūf	1 1 2
saber	sābēr	1 1 1 2
salamander	sālūmāndēr	1 1 1 1 1 1 1 1 2
sampler	sāmplēr	1 1 1 1 1 2
sandpaper	sāndpāpēr	1 1 1 1 1 1 1 2
sandpiper	sāndpīpēr	1 1 1 1 1 1 1 2
scamper	skāmpēr	1 1 1 1 1 2
scoff	skōf	1 1 1 2
sell	sēl	1 1 2
semester	sēmēstēr	1 1 1 1 1 1 2
sender	sēndēr	1 1 1 1 2
server	sērver	1 1 1 1 2
sever	sēvēr	1 1 1 2
sill	sīl	1 1 2
silver	sīlvūr	1 1 1 1 2

WORD	DECODE	FILTER LEVEL
simpler	simplur	1 1 1 1 1 2
sinister	sinustur	1 1 1 1 1 1 2
sister	sistur	1 1 1 1 2
slander	slandur	1 1 1 1 1 2
slaver	slavur	1 1 1 1 2
slender	slendur	1 1 1 1 1 2
sliver	slivur	1 1 1 1 2
slumber	slumbur	1 1 1 1 1 2
smell	smel	1 1 1 2
smolder	smoldur	1 1 1 1 1 2
snare	snaur	1 1 1 2
sniff	snif	1 1 1 2
snore	snour	1 1 1 2
snuff	snuf	1 1 1 2
sober	sobur	1 1 1 2
somber	sombur	1 1 1 1 2
sore	sour	1 1 2
specter	spektur	1 1 1 1 1 2
spell	spel	1 1 1 2
sperm	spurm	1 1 2 1
spermatc	spurmatik	1 1 2 1 1 1 1 1
spill	spil	1 1 1 2
splinter	splintur	1 1 1 1 1 1 2
spinster	spinstur	1 1 1 1 1 1 2
staff	staf	1 1 1 2

WORD	DECODE	FILTER LEVEL
standstill	stān(d)stīl	1 1 1 1 1 1 1 1 2
stern	stĕrn	1 1 2 1
stiff	stīf	1 1 1 2
still	stīl	1 1 1 2
stress	strĕs	1 1 1 1 2
stuff	stuf	1 1 1 2
subserve	subserv	1 1 1 1 2 1
subservient	subservĕent	1 1 1 1 2 1 1 1 1 1
sumpter	sumptĕr	1 1 1 1 1 2
sunder	sundĕr	1 1 1 1 2
sunless	sunles	1 1 1 1 1 2
suspender	suspĕnder	1 1 1 1 1 1 1 2
tamper	tampĕr	1 1 1 1 2
taper	tāpĕr	1 1 1 2
tariff	tarīf	1 1 1 1 2
tavern	tāvĕrn	1 1 1 2 1
tell	tĕl	1 1 2
temper	tempĕr	1 1 1 1 2
tempera	tempurĕ	1 1 1 1 2 1
temperamental	tempurĕmentul	1 1 1 1 2 1 1 1 1 1 1 1
tempter	temptĕr	1 1 1 1 1 2
tender	tĕndĕr	1 1 1 1 2
tenderloin	tĕndĕrlōin	1 1 1 1 2 1 1 1 1
term	tĕrm	1 2 1
ternary	turnĕrĕ	1 2 1 1 1 1
tester	tĕstur	1 1 1 1 2

WORD	DECODE	FILTER LEVEL
till	til	1 1 2
timber	timbur	1 1 1 1 2
tinder	tindur	1 1 1 1 2
toiler	toilur	1 1 1 1 2
tolerant	tolurunt	1 1 1 2 1 1 1
transfer	transfer	1 1 1 1 1 1 2
transference	transferens	1 1 1 1 1 1 2 1 1 1
transformer	transformer	1 1 1 1 1 1 1 1 1 2
transgress	transgres	1 1 1 1 1 1 1 1 2
tress	tres	1 1 1 2
trill	tril	1 1 1 2
trumpeter	trumpeter	1 1 1 1 1 1 1 2
trundle	trundle	1 1 1 1 1 2
truss	turs	1 1 1 2
ulster	ulster	1 1 1 1 2
uncover	unkuver	1 1 1 1 1 2
under	under	1 1 1 2
undersell	undersel	1 1 1 2 1 1 2
understand	understand	1 1 1 2 1 1 1 1 1
undress	undres	1 1 1 1 1 2
vender	vendur	1 1 1 1 2
verb	vurb	1 2 1
verbal	vurbul	1 2 1 1 1
verbatim	vurbatum	1 2 1 1 1 1 1
verdant	vurdunt	1 2 1 1 1 1

WORD	DECODE	FILTER LEVEL
verdict	vurdikt	1 2 1 1 1 1
vermin	vurmun	1 2 1 1 1
vernal	vurnul	1 2 1 1 1
versus	vursus	1 2 1 1 1
vertical	vurtikul	1 2 1 1 1 1 1
vertigo	vurtigo	1 2 1 1 1 1
vesper	vespur	1 1 1 1 2
veteran	veturun	1 1 1 2 1 1

FILTER THREE*

*In the current analysis of words from the original Hanna Study, none were found to be classified as filter three.

FILTER FOUR*

*In the current analysis of words from the original Hanna Study, none were found to be classified as filter four.

FILTER FIVE

WORD	DECODE	FILTER LEVEL
abdomen	ab̄dum̄un̄	1 1 1 1 1 5 1
abhor	ub̄hor̄	1 1 5 1 1
able	ab̄ul̄	1 1 5
abutment	ub̄utm̄unt̄	1 1 1 1 1 5 1 1
actress	ak̄tr̄us̄	1 1 1 1 5 2
acumen	uk̄um̄un̄	1 1 5 1 5 1
adament	ad̄um̄unt̄	1 1 1 1 5 1 1
adaptable	ud̄apt̄ub̄ul̄	1 1 1 1 1 1 1 5
adenoid	ad̄un̄oid̄	1 1 5 1 1 1 1
admirer	ad̄mir̄ur̄	1 1 1 5 1 2
adorable	ud̄or̄ub̄ul̄	1 1 1 1 1 1 5
adornment	ud̄orn̄m̄unt̄	1 1 1 1 1 1 5 1 1
adultery	ud̄ult̄ur̄ī	1 1 1 1 1 5 1 1
adverb	ad̄v̄urb̄	1 1 1 5 1 1
adversity	ad̄v̄urs̄itī	1 1 1 5 1 1 1 1 1
advert	ad̄v̄urt̄	1 1 1 5 1 1
advisory	ad̄v̄iz̄ur̄ī	1 1 1 5 5 1 1 1
afar	uf̄or̄	1 1 5 1
afterward	af̄tur̄w̄urd̄	1 1 1 2 5 1 1 1
afterwards	af̄tur̄w̄urd̄z̄	1 1 1 2 5 1 1 1 5
agar	oḡor̄	5 1 5 1
aged	aj̄ud̄	1 5 5 1

WORD	DECODE	FILTER LEVEL
agenda	ujěndũ	1 5 1 1 1 1
agility	ujiluti	1 5 1 1 1 1 1
aha	ohõ	5 5 5
alarm	ulõrm	1 1 5 1 1
albino	albĩno	1 1 1 5 1 1
albumen	albũmũ	1 1 1 5 1 5 1
alcohol	alkuhol	1 1 1 1 5 1 1
alcoholic	alkuholik	1 1 1 1 5 1 1 1 1
alder	oldũr	5 1 1 2
alderman	oldũrmũ	5 1 1 2 1 1 1
algebra	aljũbrũ	1 1 5 5 1 1 1
algebraic	aljũbrãik	1 1 5 5 1 1 1 1 1
all	õl	5 2
almanac	õlmũnak	5 1 1 1 1 1 1
also	õlsõ	5 1 1 1
alter	õltũr	5 1 1 2
altimeter	õltimũtur	5 1 1 1 1 5 1 2
ambiguity	ãmbũgũutẽ	1 1 1 1 1 5 1 1 1
amble	ãmbũl	1 1 1 5
amenable	ãmẽnũbul	1 1 1 1 1 1 5
amendment	ãmẽndmũnt	1 1 1 1 1 1 5 1 1
amends	ãmẽndz	1 1 1 1 1 5
amnesty	ãmũnstĩ	1 1 1 5 1 1 1
ample	ãmũpl	1 1 1 5
amulet	ãmũlũt	1 1 5 1 5 1

WORD	DECODE	FILTER LEVEL
analgesic	ānūljēsīk	1 1 1 1 5 1 1 1 1
analogy	ūnalūjē	1 1 1 1 1 5 1
anemometer	ānumomutur	1 1 5 1 1 1 5 1 2
angelic	ānjelik	1 1 5 1 1 1 1
antagonism	āntagunizm	1 1 1 1 1 1 1 1 5 1
antibiotic	āntibiotik	1 1 1 1 1 5 1 1 1 1
apart	ūport	1 1 5 1 1
apartment	ūportmunt	1 1 5 1 1 1 5 1 1
apologetic	ūpolujetik	1 1 1 1 1 5 1 1 1 1
apology	ūpolujē	1 1 1 1 1 5 1
apple	āpul	1 2 5
arable	ārubul	1 1 1 1 5
arbiter	ōrbutur	5 1 1 1 1 2
ardent	ōrdunt	5 1 1 5 1 1
argosy	ōrgusē	5 1 1 1 1 1
argument	ōrgūmunt	5 1 1 5 1 5 1 1
arisen	ūrīzun	1 1 1 5 5 1
ark	ōrk	5 1 1
arm	ōrm	5 1 1
armada	ōrmodu	5 1 1 5 1 1
armament	ōrmumunt	5 1 1 1 1 5 1 1
armful	ōrmful	5 1 1 1 1 1
army	ōrmi	5 1 1 1
arsenal	ōrsūnul	5 1 1 5 1 1 1
arsenic	ōrsenik	5 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
art	ort	5 1 1
artery	orture	5 1 1 5 1 1
artful	ortful	5 1 1 1 1 1
artifact	ortufakt	5 1 1 1 1 1 1 1
artist	ortist	5 1 1 1 1 1
artistic	ortistik	5 1 1 1 1 1 1 1
artless	ortles	5 1 1 1 1 2
as	az	1 5
ask	ask	1 1 5
aspen	aspun	1 1 1 5 1
astern	usturn	1 1 1 5 1 1
astrologer	ustrolujur	1 1 1 1 1 1 1 5 2
astrological	astrulojikul	1 1 1 1 1 1 1 5 1 1 1 1
astrology	ustroluje	1 1 1 1 1 1 1 5 1
avenger	uvenjur	1 1 1 1 5 2
avert	uvurt	1 1 5 1 1
award	uword	1 5 5 1 1
babble	babul	1 1 2 5
bald	bold	1 5 1 1
ball	bol	1 5 2
balsa	bolisu	1 5 1 1 1
balsam	bolisum	1 5 1 1 1 1
banal	bunol	1 1 1 5 1
baptism	baptizm	1 1 1 1 1 5 1
bar	bor	1 5 1

WORD	DECODE	FILTER LEVEL
barb	b̄orb	1 5 1 1
barbarism	b̄orb̄ur̄izm	1 5 1 1 1 1 1 5 1
barber	b̄orb̄ur	1 5 1 1 2
bard	b̄ord	1 5 1 1
bark	b̄ork	1 5 1 5
barn	b̄orn	1 5 1 1
barnstorm	b̄orn̄st̄orm	1 5 1 1 1 1 1 1 1
barometer	b̄ur̄om̄ut̄ur	1 1 1 1 1 5 1 2
bartender	b̄ort̄end̄ur	1 5 1 1 1 1 1 2
barter	b̄ort̄ur	1 5 1 1 2
bask	b̄ask	1 1 1 5
basket	b̄ask̄ut	1 1 1 5 5 1
basketball	b̄ask̄ut̄b̄ol	1 1 1 5 5 1 1 5 2
battle	b̄at̄ul	1 1 2 5
battlement	b̄at̄ul̄munt	1 1 2 5 1 5 1 1
bedraggle	b̄ed̄raḡul	1 1 1 1 1 2 5
benedict	b̄en̄ud̄ikt	1 1 1 5 1 1 1 1
benevolent	b̄en̄ev̄ul̄unt	1 1 1 1 1 1 1 5 1 1
bevel	b̄ev̄ul	1 1 1 5 1
bias	b̄īus	1 5 1 1
bible	b̄ib̄ul	1 5 1 5
bicameral	b̄ik̄am̄ur̄ul	1 5 1 1 1 2 1 1
biological	b̄īul̄oj̄ik̄ul	1 5 1 1 1 5 1 1 1 1
binary	b̄in̄ur̄ē	1 5 1 1 1 1
bind	b̄ind	1 5 1 1

WORD	DECODE	FILTER LEVEL
binder	bīndūr	1 5 1 1 2
bindery	bīndūrē	1 5 1 1 2 1
biologist	bīōlūjūst	1 5 1 1 1 5 1 1 1
biology	bīōlūjē	1 5 1 1 1 5 1
biped	bīpēd	1 5 1 1 1
bisect	bīsekt	1 5 1 1 1 1
blind	bīlnd	1 1 5 1 1
blindfold	bīlndfōld	1 1 5 1 1 1 1 1 1
bodkin	bōdkīn	1 1 1 5 1 1
boggle	bōgūl	1 1 2 5
bombard	bōmbōrd	1 1 1 1 5 1 1
bondholder	bōndhōldūr	1 1 1 1 5 1 1 1 2
bondsman	bōndzmūn	1 1 1 1 5 1 1 1
bottle	bōtūl	1 1 2 5
bra	brō	1 1 5
bramble	brāmbūl	1 1 1 1 1 5
bravado	brūvōdō	1 1 1 1 5 1 1
bravo	brōvō	1 1 5 1 1
bribery	brīburē	1 1 5 1 5 1 1
bridal	brīdūl	1 1 5 1 1 1
bridle	brīdūl	1 1 5 1 5
brier	brīūr	1 1 5 2
brindle	brīndūl	1 1 1 1 1 5
brisk	brīsk	1 1 1 1 5
brisket	brīskūt	1 1 1 1 5 5 1

WORD	DECODE	FILTER LEVEL
brittle	britul	1 1 1 2 5
bubble	bubul	1 1 2 5
bucolic	bukolik	1 5 1 1 1 1 1
bugle	bugul	1 5 1 5
bulk	bulk	1 1 1 5
bulky	bulke	1 1 1 5 1
bulwark	bulwork	1 1 1 5 5 1 5
bumpkin	bumpkin	1 1 1 1 5 1 1
bundle	bundle	1 1 1 1 5
bungle	bungle	1 1 1 1 5
bunker	bunker	1 1 1 5 2
cable	kable	1 1 1 5
cablegram	kablegram	1 1 1 5 1 1 1 1
call	kol	1 5 2
camel	kamel	1 1 1 5
candle	kandle	1 1 1 1 5
candlelight	kandlelit	1 1 1 1 5 1 5 1
canker	kanker	1 1 1 5 2
cantle	kantle	1 1 1 1 5
capable	kapuble	1 1 1 1 1 5
capitalism	kapitulizm	1 1 1 1 1 1 1 1 5 1
car	kor	1 5 1
carbolic	korbolik	1 5 1 1 1 1 1 1
carbonic	korbonik	1 5 1 1 1 1 1 1
card	kord	1 5 1 1

WORD	DECODE	FILTER LEVEL
cardiac	kōrdēak	1 5 1 1 1 1 1
cargo	kōrgō	1 5 1 1 1
carnal	kōrnul	1 5 1 1 1 1
carp	kōrp	1 5 1 1
carpenter	kōrpēntēr	1 5 1 1 1 1 1 2
carpet	kōrpēt	1 5 1 1 1 1
cart	kōrt	1 5 1 1
carve	kōrv	1 5 1 1
cask	kask	1 1 1 5
casket	kaskēt	1 1 1 5 1 1
castle	kasle	1 1 1 5
casual	kasūul	1 1 1 5 1 1
categorical	kātugōrūkul	1 1 1 5 1 1 1 1 1 1 1
category	kātugōri	1 1 1 5 1 1 1 1
cattle	kātul	1 1 2 5
cattleman	kātulman	1 1 2 5 1 1 1
caw	kow	1 5 5
clank	klānk	1 1 1 1 5
clerk	klērķ	1 1 2 5
client	klīēnt	1 1 5 1 1 1
climactic	klīmaktik	1 1 5 1 1 1 1 1 1
climatic	klīmatik	1 1 5 1 1 1 1 1
clink	klīnk	1 1 1 1 5
cobalt	kōbolt	1 1 1 5 1 1
cobble	kōble	1 1 2 5

WORD	DECODE	FILTER LEVEL
dobweb	kōbweb	1 1 1 5 1 1
coddle	kōdle	1 1 2 5
coherent	kōherent	1 1 5 1 1 1 1 1
cohort	kōhort	1 1 5 1 1 1
comparable	kūmparuble	1 1 1 1 1 1 1 1 5
compart	kūmpōrt	1 1 1 1 5 1 1
compartment	kōmpōrtment	1 1 1 1 5 1 1 1 1 1 1
composedly	kūmpōzēdlē	1 1 1 1 1 5 1 1 1 1
composer	kūmpōzēr	1 1 1 1 1 5 2
comprehend	kōmprehēnd	1 1 1 1 1 1 5 1 1 1
confusion	kōnfūziūn	1 1 1 1 5 5 1 1 1
congenital	kūnjēnitul	1 1 1 5 1 1 1 1 1 1
congest	kūnjēst	1 1 1 5 1 1 1
considerable	kōnsidēruble	1 1 1 1 1 1 2 1 1 5
constable	kōnstuble	1 1 1 1 1 1 1 5
continual	kōntinūul	1 1 1 1 1 1 5 1 1
continue	kūntinū	1 1 1 1 1 1 5
continuity	kōntinūitē	1 1 1 1 1 1 5 1 1 1
continuum	kōntinūum	1 1 1 1 1 1 5 1 1
contumely	kūntūmlē	1 1 1 1 5 1 1 1
converge	kūnvērj	1 1 1 1 2 5
cork	kōrk	1 1 1 5
corpulent	kōrpulēt	1 1 1 1 5 1 1 1 1
cosmology	kōsmōlojē	1 1 1 1 1 1 1 5 1
cosy	kōzē	1 1 5 1

WORD	DECODE	FILTER LEVEL
cradle	kṛādle	1 1 1 1 5
crank	kṛānk	1 1 1 1 5
creditable	kṛeditub̄le	1 1 1 1 1 1 1 1 5
credulity	kṛed̄ulitē	1 1 1 1 5 1 1 1 1
crier	kṛiēr	1 1 5 1
crinkle	kṛinkle	1 1 1 1 5 5
cripple	kṛiple	1 1 1 2 5
crumble	kṛumble	1 1 1 1 1 5
crumple	kṛumple	1 1 1 1 1 5
cubic	kūbik	1 5 1 1 1
cue	kū	1 5
cupid	kūpid	1 5 1 1 1
cupidity	kūpiditē	1 5 1 1 1 1 1 1
cupola	kūpelū	1 5 1 1 1 1
curiosity	kūrēositē	1 5 1 1 1 1 1 1 1
dabble	dāble	1 1 2 5
damnable	dāmnub̄le	1 1 1 1 1 1 5
dandle	dāndle	1 1 1 1 5
dangle	dāngle	1 1 1 1 5
dank	dānk	1 1 1 5
dapple	dāple	1 1 2 5
dark	dōrk	1 5 1 5
darkness	dōrknes	1 5 1 5 1 1 2
darn	dōrn	1 5 1 1
dart	dōrt	1 5 1 1

WORD	DECODE	FILTER LEVEL
debar	debor	1 1 1 5 1
debunk	debunk	1 1 1 1 1 5
deism	deizm	1 1 1 5 1
delectable	delektuble	1 1 1 1 1 1 1 1 5
delight	delit	1 1 1 5 1
delighted	delited	1 1 1 5 1 1 1
delightful	delitful	1 1 1 5 1 1 1 1
denial	deniul	1 1 1 5 1 1
depart	deport	1 1 1 5 1 1
departed	deported	1 1 1 5 1 1 1 1
department	deportment	1 1 1 5 1 1 1 1 1 1
departmental	deportmentul	1 1 1 5 1 1 1 1 1 1 1 1
dependable	dependuble	1 1 1 1 1 1 1 1 5
deplorable	deploruble	1 1 1 1 1 1 1 1 5
deputy	depute	1 1 1 5 1 1
derange	deranj	1 1 1 1 1 5
derangement	deranjment	1 1 1 1 1 5 1 1 1 1
desert	dezert	1 1 5 2 1
deserve	dezerv	1 1 5 2 1
desirable	deziruble	1 1 5 5 1 1 1 5
desperado	desperodo	1 1 1 1 2 5 1 1
despotism	despotizm	1 1 1 1 1 1 1 5 1
detestable	detestuble	1 1 1 1 1 1 1 1 5
diabolical	diubolikul	1 5 1 1 1 1 1 1 1 1
diadem	diudem	1 5 1 1 1 1

WORD	DECODE	FILTER LEVEL
diagnostic	diugno [˘] tik	1 5 1 1 1 1 1 1 1 1
diagonal	diagu [˘] ni	1 5 1 1 1 1 1 1
diagram	diugram	1 5 1 1 1 1 1
dial	diu [˘] l	1 5 1 1
dialect	diule [˘] kt	1 5 1 1 1 1 1
dialectic	diule [˘] ktik	1 5 1 1 1 1 1 1 1
diameter	diame [˘] ter	1 5 1 1 1 1 2
diaper	diupe [˘] r	1 5 1 1 2
diary	diure [˘]	1 5 1 1 1
didactic	di [˘] aktik	1 5 1 1 1 1 1 1
dielectric	diele [˘] ktrik	1 5 1 1 1 1 1 1 1 1
diet	di [˘] t	1 5 1 1
digest	di [˘] jest	1 5 5 1 1 1
digress	di [˘] gres	1 5 1 1 1 2
dimple	di [˘] mple	1 1 1 1 5
diner	di [˘] ner	1 5 1 2
diorama	di [˘] or [˘] ama	1 5 1 1 1 1 1
dirge	de [˘] rj	1 2 5
disable	di [˘] sable	1 1 1 1 1 5
disarm	di [˘] sorm	1 1 1 5 1 1
disarmament	di [˘] sorm [˘] ement	1 1 1 5 1 1 1 1 1 1 1
disaster	di [˘] zaste [˘] r	1 1 5 1 1 1 2
disbar	di [˘] sbor	1 1 1 1 5 1
discard	di [˘] skord	1 1 1 1 5 1 1
discontented	di [˘] skont [˘] entud	1 1 1 1 1 1 1 1 1 1 5 1

WORD	DECODE	FILTER LEVEL
disembark	ďisumbǒrk	1 1 1 5 1 1 5 1 5
dishonest	ďisonǔst	1 1 1 1 1 5 1 1
dishonesty	ďisonǔstē	1 1 1 1 1 5 1 1 1
disinterested	ďisintǔrustǔd	1 1 1 1 1 1 5 1 5 1 1 5 1
disk	ďisk	1 1 1 5
dismal	ďizmul	1 1 5 1 1 1
dismantle	ďismantel	1 1 1 1 1 1 1 5
dispersal	ďispǔrsul	1 1 1 1 5 1 1 1 1
disregard	ďisrēgord	1 1 1 1 1 1 5 1 1
divan	ďivǎn	1 5 1 1 1
diver	ďiver	1 5 1 2
divers	ďiverz	1 5 1 2 5
divert	ďuvǔrt	1 1 1 5 1 1
divest	ďivest	1 5 1 1 1 1
document	ďokumunt	1 1 1 1 1 5 1 1
documentary	ďokumuntǔrē	1 1 1 1 1 5 1 1 1 1 1
doldrums	ďoldrǔmz	1 1 1 1 1 1 1 5
drama	ďromǔ	1 1 5 1 1
drapery	ďrǎp(ǔ)rē	1 1 1 1 5 1 1
dribble	ďribul	1 1 1 2 5 1
drier	ďri(ǔ)r	1 1 1 5 1
driven	ďrivun	1 1 1 1 5 1
dusk	ďusk	1 1 1 5
dusky	ďuskē	1 1 1 5 1
dwarf	ďworf	1 5 1 1 1

WORD	DECODE	FILTER LEVEL
dwell	dwül	1 5 5 2
dwelt	dwült	1 5 5 1 1
dwindle	dwindel	1 5 1 1 1 2
eardrum	ērdrum	1 1 1 1 5 1
egotism	ēgotizm	1 1 1 1 1 5 1
egret	ēgrüt	1 1 1 5 1
eldest	ēldüst	1 1 1 5 1 1
electrical	ēlektrikel	1 1 1 1 1 1 1 1 5
electromagnet	ēlektromagnüt	1 1 1 1 1 1 1 1 1 1 1 5 1
elegy	ēluje	1 1 5 5 1
element	ēlumunt	1 1 5 1 5 1 1
elemental	ēlumentul	1 1 5 1 1 1 1 2
elementary	ēlumenturē	1 1 5 1 1 1 1 1 1 1
elk	ēlk	1 1 5
elsewhere	ēlsweur	1 1 1 5 1 5 1
emblem	ēlblum	1 1 1 1 5 1
emerald	ēmuruld	1 1 5 1 1 1 1
emery	ēmurē	1 1 5 1 1
empress	ēmprus	1 1 1 1 5 2
enable	inābel	1 1 1 1 5
enamel	inamul	1 1 1 1 5
endless	ēndlus	1 1 1 1 5 2
endocrinology	ēndukrinulojē	1 1 1 5 1 1 1 1 1 1 1 5 1
endosperm	ēndüspürm	1 1 1 1 1 1 5 1 1
enemy	ēnumē	1 1 5 1 1

WORD	DECODE	FILTER LEVEL
energetic	ēnurjētik	1 1 5 1 5 1 1 1 1
energy	ēnurjē	1 1 5 1 5 1
engagement	ēngājmut	1 1 1 1 5 1 5 1 1
engender	ēnjēdēr	1 1 5 1 1 1 2
enigmatical	ēnigmatikel	1 1 1 1 1 1 1 1 1 5
entomology	ēntumolujē	1 1 1 1 1 1 1 1 5 1
epistemology	ēpistumolujē	1 1 1 1 1 1 1 1 1 1 5 1
eternal	ēturnul	1 1 2 1 5
evangelical	ēvanjēlikel	1 1 1 1 5 1 1 1 1 5
even	ēvun	1 1 5 1
ever	ēvur	1 1 5 1
evert	ēvurt	1 1 5 1 1
fabale	fābēl	1 1 1 5
fabled	fābuld	1 1 1 5 1 1
falcon	fōlkun	1 5 1 1 1 1
fall	fōl	1 5 2
falter	fōlter	1 5 1 1 2
fantastical	fāntāstikel	1 1 1 1 1 1 1 1 1 5
fanatical	fānātikel	1 1 1 1 1 1 1 5
far	fōr	1 5 1
farm	fōrm	1 5 1 1
farmer	fōrmur	1 5 1 1 2
fastness	fās(t)nūs	1 1 1 1 5 2
feldspar	fēldspōr	1 1 1 1 1 1 5 1
feudalism	fēdulizm	1 5 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
fiddle	fīdle	1 1 2 5
fidelity	fīdelitē	1 1 1 5 1 1 1
fight	fīt	1 5 1
fighter	fīter	1 5 1 2
final	fīnul	1 5 1 1 1
finality	fīnalitē	1 5 1 1 1 1 1 1
find	fīnd	1 5 1 1
finery	fīnerē	1 5 1 2 1
flange	fīlanj	1 1 1 1 5
flank	fīlank	1 1 1 1 5
flask	fīlask	1 1 1 1 5
flatulent	fīlatulēt	1 1 1 1 5 1 1 1 1
fledge	fīlej	1 1 1 5
flight	fīlit	1 1 5 1
flighty	fīlitē	1 1 5 1 1
flier	fīliēr	1 1 5 2
flimsy	fīlmzē	1 1 1 1 5 1
foliage	fōlej	1 1 1 1 5
fondle	fōndle	1 1 1 1 5
forewarn	fōrwarn	1 1 1 5 1 1 1
forge	fōrj	1 1 1 5
forgery	fōrjērē	1 1 1 5 2 1
fork	fōrk	1 1 1 5
formula	fōrmūlū	1 1 1 1 5 1 1
fortnight	fōrtnīt	1 1 1 1 1 5 1

WORD	DECODE	FILTER LEVEL
fortuitous	förtüitus	1 1 1 1 5 1 1 1 1
forward	föwürd	1 1 1 5 1 1 1
frank	fränk	1 1 1 1 5
frankly	fränklē	1 1 1 1 5 1 1
friable	friuble	1 1 5 1 1 5
fright	frit	1 1 5 1
frighten	fritēn	1 1 5 1 1 1
frightful	fritful	1 1 5 1 1 1 1
frigid	frijid	1 1 1 5 1 1
fringe	frinj	1 1 1 1 5
frisk	frisk	1 1 1 1 5
frisky	friske	1 1 1 1 5 1
froward	frowürd	1 1 1 5 1 1 1
fudge	fuj	1 1 5
fuel	füel	1 5 5
fumble	fumble	1 1 1 1 5
funeral	fünērul	1 5 1 2 1 1
funereal	fünērēul	1 5 1 2 1 1 1
fusion	fuziun	1 5 5 1 1 1
futility	fütilitē	1 5 1 1 1 1 1 1
futurity	füturitē	1 5 1 1 1 1 1 1
gabble	gable	1 1 2 5
gable	gābul	1 1 1 5
gabled	gābuld	1 1 1 5 1
gall	göl	1 5 2

WORD	DECODE	FILTER LEVEL
gamble	gǎmbŭl	1 1 1 1 5
gambler	gǎmbŭr	1 1 1 1 5 1
garb	gǎrb	1 5 1 1
garble	gǎrbŭl	1 5 1 1 5
garden	gǎrdŭn	1 5 1 1 5 1
gargle	gǎrgŭl	1 5 1 1 5
garland	gǎrlŭnd	1 5 1 1 1 1 1
garlic	gǎrlŭk	1 5 1 1 1 1
garment	gǎrmŭnt	1 5 1 1 5 1 1
garner	gǎrnŭr	1 5 1 1 2
garnet	gǎrnŭt	1 5 1 1 5 1
garter	gǎrtŭr	1 5 1 1 2
gasket	gǎskŭt	1 1 1 5 5 1
gem	ǰem	5 1 1
gender	ǰendŭr	5 1 1 1 2
genealogy	ǰenēōlŭǰē	5 1 1 1 5 1 1 5 1
general	ǰenŭrŭl	5 1 1 2 1 1
generality	ǰenŭralŭtē	5 1 1 2 1 1 1 1 1
generosity	ǰenŭrosŭtē	5 1 1 2 1 1 1 1 1
genetic	ǰenetŭk	5 5 1 1 1 1 1
genetics	ǰenetŭks	5 5 1 1 1 1 1 1
genital	ǰenutŭl	5 1 1 1 1 1 1
gent	ǰent	5 1 1 1
gentility	ǰentŭlŭtē	5 1 1 1 1 1 1 1 1
gentle	ǰentŭl	5 1 1 1 5

WORD	DECODE	FILTER LEVEL
gentleman	jěntulmũn	5 1 1 1 5 1 1 1
gentleness	jěntulnũs	5 1 1 1 5 1 5 2
gently	jěntli	5 1 1 1 1 1
gentry	jěntri	5 1 1 1 1 1
geodetic	jěudetik	5 1 1 1 1 1 1 1
geological	jěulojikul	5 1 1 1 1 5 1 1 1 1
geologist	jěolujust	5 1 1 1 1 5 1 1 1
geology	jěolujě	5 1 1 1 1 5 1
geometric	jěumetrik	5 1 1 1 1 1 1 1 1
geometrical	jěumetrikul	5 1 1 1 1 1 1 1 1 1 1
geometry	jěomutře	5 1 1 1 5 1 1 1
giant	jĩunt	5 5 1 1 1
giblet	jiblut	5 1 1 1 5 1
gifted	giftud	1 1 1 1 5 1
gigantic	jĩgantik	5 5 1 1 1 1 1 1
giggle	gĩgul	1 1 2 5
gigolo	jĩgulõ	5 1 1 1 1 1
gill	jil	5 1 2
gin	jĩn	5 1 1
ginger	jĩnjur	5 1 1 5 2
gingerly	jĩnjurli	5 1 1 5 2 1 1
girdle	gĩrdul	1 1 1 1 5
gist	jĩst	5 1 1 1
given	givũn	1 1 1 5 1
glider	glĩdũr	1 1 5 1 2

WORD	DECODE	FILTER LEVEL
gluten	glūtun	1 1 1 1 5 1
gobble	gōbūl	1 1 2 5
goblet	gōblūt	1 1 1 1 5 1
goggle	gōgūl	1 1 2 5
golden	gōldun	1 1 1 1 5 1
goldenrod	gōldunrōd	1 1 1 1 5 1 1 1 1
grapple	grāpūl	1 1 1 2 5
gravel	grāvūl	1 1 1 1 5 1
griddle	grīdlē	1 1 1 2 5
grind	grīnd	1 1 5 1 1
grinder	grīndēr	1 1 5 1 1 2
grisly	grīzlē	1 1 1 5 1 1
grudge	gruj	1 1 1 5
grumble	grūmlē	1 1 1 1 1 5
habitable	hābitūblē	5 1 1 1 1 1 1 5
habitat	hābitāt	5 1 1 1 1 1 1
had	hād	5 1 1
hag	hāg	5 1 1
haggle	hāglē	5 1 2 5
hall	hōl	5 5 2
halo	hālō	5 1 1 1
halt	hōlt	5 5 1 1
halter	hōltēr	5 5 1 1 2
halve	hāv	5 1 1
ham	hām	5 1 1

WORD	DECODE	FILTER LEVEL
hamlet	hāmlet	5 1 1 1 1 1
hamper	hāmpēr	5 1 1 1 2
hamster	hāmstēr	5 1 1 1 1 2
hand	hānd	5 1 1 1
handbag	hāndbāg	5 1 1 1 1 1 1
handful	hāndfūl	5 1 1 1 1 1 1
handicap	hāndikap	5 1 1 1 1 5 1 1
handicraft	hāndikraft	5 1 1 1 1 1 1 1 1 1
handle	hāndle	5 1 1 1 5
handy	hāndē	5 1 1 1 1
hank	hānk	5 1 1 5
hap	hāp	5 1 1
hapless	hāplēs	5 1 1 1 1 2
haply	hāplē	5 1 1 1 1
hard	hōrd	5 5 1 1
harden	hōrdēn	5 5 1 1 1 1
hardly	hōrdlē	5 5 1 1 1 1
hardness	hōrdnēs	5 5 1 1 1 1 2
hardy	hōrdē	5 5 1 1 1
harem	hārem	5 1 1 1 1
hark	hōrk	5 5 1 5
harm	hōrm	5 5 1 1
harmful	hōrmfūl	5 5 1 1 1 1 1
harmless	hōrmlēś	5 5 1 1 1 1 2
harlot	hōrlūt	5 5 1 1 1 1

WORD	DECODE	FILTER LEVEL
harmone	h ^u o ^u r ^u m ^u n ^u e	5 5 1 1 1 1 1
harmonic	h ^u o ^u r ^u m ^u o ^u n ^u i ^u k	5 5 1 1 1 1 1 1
harmony	h ^u o ^u r ^u m ^u o ^u n ^u e	5 5 1 1 1 1 1
harness	h ^u o ^u r ^u n ^u e ^u s	5 5 1 1 1 2
harp	h ^u o ^u r ^u p	5 5 1 1
harpy	h ^u o ^u r ^u p ^u e	5 5 1 1 1
hart	h ^u o ^u r ^u t	5 5 1 1
has	h ^u a ^u z	5 1 5
hasp	h ^u a ^u s ^u p	5 1 1 1
haste	h ^u a ^u s ^u t	5 1 1 1
hat	h ^u a ^u t	5 1 1
hateful	h ^u a ^u t ^u f ^u l	5 1 1 1 1 1
hatred	h ^u a ^u t ^u r ^u e ^u d	5 1 1 1 1 1
haven	h ^u a ^u v ^u e ^u n	5 1 1 1 1
harvest	h ^u o ^u r ^u v ^u e ^u s ^u t	5 5 1 1 1 1 1
harvester	h ^u o ^u r ^u v ^u e ^u s ^u t ^u r	5 5 1 1 1 1 1 2
heft	h ^u e ^u f ^u t	5 1 1 1
held	h ^u e ^u l ^u d	5 1 1 1
hell	h ^u e ^u l	5 1 2
helm	h ^u e ^u l ^u m	5 1 1 1
helmet	h ^u e ^u l ^u m ^u t	5 1 1 1 5 1
helmsman	h ^u e ^u l ^u m ^u z ^u m ^u n	5 1 1 1 5 1 1 1
help	h ^u e ^u l ^u p	5 1 1 1
helper	h ^u e ^u l ^u p ^u r	5 1 1 1 2
helpful	h ^u e ^u l ^u p ^u f ^u l	5 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
hem	hēm	5 1 1
hemp	hēmp	5 1 1 1
hen	hēn	5 1 1
her	hūr	5 5 1
herald	hēruld	5 1 1 1 1 1
heraldic	hēruldik	5 1 1 1 1 1 1 1
heraldry	hēruldrē	5 5 1 1 1 1 1 1
herculean	hūrkulēun	5 5 1 1 1 1 1 1 1
herd	hurd	5 5 1 1
herder	hurdur	5 5 1 1 2
herdsman	hurdzmun	5 5 1 1 5 1 1 1
heredity	huredutē	5 5 1 1 1 1 1 1
heretical	huretikal	5 5 1 1 1 1 1 1 1
hermetic	hurmetik	5 1 1 1 1 1 1 1
hero	herō	5 1 1 1
heroic	hērōik	5 1 1 1 1 5
heroical	hērōikul	5 1 1 1 1 5 1 1
heroism	heruwizum	5 1 1 1 5 1 5 1 1
hers	hurz	5 1 1 5
herself	hurself	5 1 1 1 1 1 1
heteronomy	heturonumē	5 1 1 5 1 1 1 1 1 1
hid	hid	5 1 1
hilarity	hilurutē	5 1 1 1 1 1 1 1
hill	hil	5 1 2
hilt	hilt	5 1 1 1

WORD	DECODE	FILTER LEVEL
him	h̃im	5 1 1
himself	h̃im̃self	5 1 1 1 1 1 1
hind	h̄ind	5 1 1 1
hinder	h̃ind̃ur	5 1 1 1 5 1
hint	h̃int	5 1 1 1
hinterland	h̃int̃url̃and	5 1 1 1 5 1 1 1 1 1
hip	h̃ip	5 1 1
hire	h̄iur	5 1 5 1
his	h̃iz	5 1 5
hist	h̄ist	5 1 1 1
histology	h̃ist̃oloḡē	5 1 1 1 1 1 1 1 1
historic	h̃istor̃ik	5 1 1 1 1 1 1 1
historical	h̃istor̃ik̃ul	5 1 1 1 1 1 1 1 1 1
history	h̃istur̄ē	5 1 1 1 1 1 1
hobble	h̃obul	5 1 1 5 1
hobgoblin	h̃obg̃oñlun	5 1 1 1 1 1 1 5 1
hobo	h̄obō	5 1 1 1
hock	h̃ok	5 1 5
hod	h̃od	5 1 1
hog	h̃og	5 1 1
hold	h̄old	5 1 1 1
holder	h̄old̃ur	5 1 1 1 5 1
holdup	h̄old̃up	5 1 1 1 1 1
holster	h̄ol(t)st̃ur	5 1 1 1 1 1 5 1
holy	h̄olē	5 1 1 1

WORD	DECODE	FILTER LEVEL
honest	h ^o o ⁿ u ^s t	5 1 1 5 1 1
honesty	o ⁿ u ^s t ^e	1 1 5 1 1 1
hop	h ^o p	5 1 1
horn	h ^o r ⁿ	5 1 1 1
hornet	h ^o r ⁿ u ^t	5 1 1 1 5 1
horny	h ^o r ⁿ e	5 1 1 1 1
hospitable	h ^o s ^p i ^t a ^b u ^l	5 1 1 1 1 1 1 1 1 1
hospitably	h ^o s ^p i ^t a ^b l ^e	5 1 1 1 1 1 1 1 1 1
hospital	h ^o s ^p i ^t a ^l	5 1 1 1 1 1 1 1
hospitality	h ^o s ^p i ^t a ^l u ^t e	5 1 1 1 1 1 1 1 1 1 1
host	h ^o s ^t	5 1 1 1
hostess	h ^o s ^t u ^s	5 1 1 1 5 1
hostility	h ^o s ^t i ^l u ^t e	5 1 1 1 1 1 1 1 1 1
hot	h ^o t	5 1 1
hotly	h ^o t ^l e	5 1 1 1 1
hovel	h ^o v ^u l	5 1 1 5 1
hub	h ^u b	5 1 1
huddle	h ^u d ^l e	5 1 1 5 1
huff	h ^u f	5 1 2
hug	h ^u g	5 1 1
hulk	h ^u l ^k	5 1 1 5
hull	h ^u l	5 1 2
hum	h ^u m	5 1 1
humble	h ^u m ^b l ^e	5 1 1 1 5
humbug	h ^u m ^b u ^g	5 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
hundrum	hũndrũm	5 1 1 1 1 1 1
hump	hũmp	5 1 1 1
hunt	hũnt	5 1 1 1
huntress	hũntrũs	5 1 1 1 1 5 2
hunter	hũntsmũn	5 1 1 1 1 1 1 1
husband	hũsbũnd	5 1 1 1 1 1 1
husbandman	hũsbũndmũn	5 1 1 1 1 1 1 1 1 1
husbandry	hũsbũndrũ	5 1 1 1 1 1 1 1 1
husk	hũsk	5 1 1 5
husky	hũskũ	5 1 1 5 1
hut	hũt	5 1 1
ideology	ĩdeolũjũ	1 1 1 1 1 1 5 1
idler	ĩdlũr	1 1 1 5 1
ignoble	ĩgnũbũl	1 1 1 1 1 5
illegal	ĩlũjũl	1 2 1 5 1 1
illimitable	ĩlimũtũbul	1 2 1 1 1 1 1 1 5 1
illogical	ĩlojũkul	1 2 1 5 1 1 1 1
imbibe	ĩmbĩb	1 1 1 5 1
impart	ĩmpũrt	1 1 1 5 1 1
impenetrable	ĩmpẽnũtrũbũl	1 1 1 1 1 5 1 1 1 1 5
impenitent	ĩmpẽnũtũnt	1 1 1 1 1 1 1 5 1 1
implement	ĩmplũmũnt	1 1 1 1 5 1 5 1 1
impotence	ĩmpũtũns	1 1 1 1 1 5 1 1
impotent	ĩmpũtũnt	1 1 1 1 1 5 1 1
impregnable	ĩmpregũnũbũl	1 1 1 1 1 1 1 1 1 5

WORD	DECODE	FILTER LEVEL
improbable	improbubel	1 1 1 1 1 1 1 1 5
improper	impropur	1 1 1 1 1 1 5 1
impudent	impudunt	1 1 1 1 1 5 1 1
inadvertent	inudvurtunt	1 1 1 1 1 5 1 1 5 1 1
incalculable	inkalkulubul	1 1 1 1 1 1 1 1 1 1 5 1
incapable	inkapubul	1 1 1 1 1 1 1 5 1
inclement	inklemunt	1 1 1 1 1 1 5 1 1
inclose	inklöz	1 1 1 1 1 5
incoherent	inkohirunt	1 1 1 1 5 1 1 5 1 1
incomparable	inkompurubul	1 1 1 1 1 1 1 1 1 1 5 1
incompetent	inkomputunt	1 1 1 1 1 1 5 1 5 1 1
incredulous	inkredulus	1 1 1 1 1 1 5 1 1 1
increment	inkrumunt	1 1 1 1 5 1 5 1 1
indispensable	indispensuble	1 1 1 1 1 1 1 1 1 1 1 5
indisputable	indispütubul	1 1 1 1 1 1 5 1 1 1 5
indolent	indulunt	1 1 1 1 1 5 1 1
indomitable	indomutuble	1 1 1 1 1 1 1 1 1 5
indubitable	indubütubul	1 1 1 5 1 1 1 1 1 5
inelectable	inelektubul	1 1 1 1 1 1 1 1 1 5
inevitable	inevutubul	1 1 1 1 1 1 1 1 5
informal	informle	1 1 1 1 1 1 5
infringe	infrinj	1 1 1 1 1 1 5
infringement	infrinjment	1 1 1 1 1 1 5 1 1 1 1
ingest	injest	1 1 5 1 1 1
inhabitant	inhabitent	1 1 5 1 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
inherent	inherent	1 1 5 1 1 1 1 1
inheritance	inheritens	1 1 5 1 1 1 1 1 1 1
inhospitable	inhospitable	1 1 5 1 1 1 1 1 1 1 5
inhuman	inhūmun	1 1 5 5 1 1 1
inhumanity	inhūmanitē	1 1 5 5 1 1 1 1 1 1
inimitable	inimitable	1 1 1 1 1 1 1 1 5
ink	ink	1 1 5
inky	inke	1 1 5 1
inseparable	insepurubul	1 1 1 1 1 1 1 1 1 5
insert	insurt	1 1 1 5 1 1
insolent	insulunt	1 1 1 1 1 5 1 1
insoluble	insolūbul	1 1 1 1 1 5 1 5
instrument	instrumunt	1 1 1 1 1 1 1 5 1 1
integer	intujur	1 1 1 5 5 2
integral	intugrul	1 1 1 5 1 1 1 1
interest	inturust	1 1 1 2 5 1 1
interesting	inturusting	1 1 1 2 5 1 1 1 1 1
interment	inturmunt	1 1 1 2 1 5 1 1
interpret	inturprut	1 1 1 2 1 1 5 1
interwoven	inturwōvun	1 1 1 2 5 1 1 5 1
intolerable	intolurubul	1 1 1 1 1 2 1 1 5
intramural	intrumūrul	1 1 1 1 1 1 5 1 1 1
invaluable	invalūubul	1 1 1 1 1 5 1 1 5
inventory	invuntōri	1 1 1 5 1 1 1 1 1
investment	investmunt	1 1 1 1 1 1 1 5 1 1

WORD	DECODE	FILTER LEVEL
inviolable	inviulubul	1 1 1 5 1 1 1 1 5
invulnerable	invulnurubul	1 1 1 1 1 1 2 1 1 5
inward	inwurd	1 1 5 1 1 1
inwardly	inwurdli	1 1 5 1 1 1 1 1
ironic	ironuk	5 1 1 1 1 1
ironical	ironukul	5 1 1 1 1 1 1 1
irony	iruni	5 1 1 1 1
irrefutable	irefutubul	1 2 1 1 5 1 1 1 5
irregularity	iregularuti	1 2 1 1 5 1 1 1 1 1 1
irrelevant	ireluvunt	1 2 1 1 5 1 1 1 1
is	iz	1 5
ism	izm	1 5 1
item	itum	5 1 5 1
itinerant	itinurunt	5 1 1 1 2 1 1 1
itinerary	itinururi	5 1 1 1 2 1 1 1
ivy	ivi	5 1 1
ivory	ivuri	5 1 1 1 1
keg	keg	5 1 1
kelp	kelp	5 1 1 1
ken	ken	5 1 1
kept	kept	5 1 1 1
kettle	ketul	5 1 2 5
kid	kid	5 1 1
kidnap	kidnap	5 1 1 1 1 1
kill	kil	5 1 2

WORD	DECODE	FILTER LEVEL
kilogram	kilugram	5 1 1 1 1 1 1 1
kilometer	kilumētur	5 1 1 1 1 1 1 2
kilt	kilt	5 1 1 1
kin	kin	5 1 1
kind	kind	5 5 1 1
kindergarten	kindurgortun	5 1 1 1 1 1 1 5 1 1 5 1
kindle	kindul	5 1 1 1 5
kindly	kindli	5 5 1 1 1 1
kindness	kindnus	5 5 1 1 1 5 2
kinetic	kinetik	5 1 1 1 1 1 1
kinsman	kinzmun	5 1 1 5 1 1 1
kismet	kizmet	5 1 5 1 1 1
ladle	ladul	1 1 1 5
lambent	lambunt	1 1 1 1 5 1 1
lamentable	lamuntubul	1 1 1 5 1 1 1 1 5
landed	landud	1 1 1 1 5 1
landmark	landmork	1 1 1 1 1 5 1 1
landward	landwurd	1 1 1 1 5 1 1 1
lark	lorck	1 5 1 5
lard	lord	1 5 1 1
larder	lordur	1 5 1 1 2
largess	lorjus	1 5 1 5 5 2
largo	lorgo	1 5 1 1 1
larva	lorvu	1 5 1 1 1
larval	lorvul	1 5 1 1 1 1

WORD	DECODE	FILTER LEVEL
latent	lātunt	1 1 1 5 1 1
lateral	lāturul	1 1 1 5 1 1 1
lavender	lavundur	1 1 1 5 1 1 2
lectern	lekturn	1 1 1 1 5 1 1
legend	lejud	1 1 5 5 1 1
lenient	leniunt	1 1 1 1 5 1 1
lens	lenz	1 1 1 5
leotard	leutord	1 1 1 1 5 1 1
leper	lepur	1 1 1 5 1
level	levul	1 1 1 5 1
levelly	levulli	1 1 1 5 2 1
liable	liubul	1 5 1 1 5
liability	liubiluti	1 5 1 1 1 1 1 1 1
ligament	ligumunt	1 1 1 1 1 5 1 1
lilac	liluk	1 5 1 1 1
liberalism	liburuliz(u)m	1 1 1 2 1 1 1 5 1
limited	limitud	1 1 1 1 1 5 1
limpet	limput	1 1 1 1 5 1
linden	lindun	1 1 1 1 5 1
lineament	lineumunt	1 1 1 1 1 1 5 1 1
linen	linun	1 1 1 5 1
liner	linur	1 5 1 2
littless	lietlun	1 1 1 1 1 5 2
little	litul	1 1 2 5
logic	lojik	1 1 5 1 1

WORD	DECODE	FILTER LEVEL
logical	lojikul	1 1 5 1 1 1 1
longevity	lonjevutē	1 1 1 5 1 1 1 1 1
lopsided	lopsidud	1 1 1 1 5 1 5 1
lumber	lumbur	1 1 1 1 5 1
lumberman	lumburmun	1 1 1 1 5 1 1 1 1
luster	lustur	1 1 1 1 5 1
magenta	mujentu	1 1 5 1 1 1 1
magic	majik	1 1 5 1 1
magical	majikul	1 1 5 1 1 1 1
magnet	magnut	1 1 1 1 5 1
mahogany	muhogune	1 1 5 1 1 1 1 1
malevolent	mulevulunt	1 1 1 1 1 1 1 5 1 1
mall	mol	1 5 2
malt	molt	1 5 1 1
mankind	mankind	1 1 1 1 5 1 1
manlike	manlik	1 1 1 1 5 5
mantle	mantul	1 1 1 1 5
manufactory	manufakture	1 1 1 5 1 1 1 1 1 1 1
manuscript	manuskript	1 1 1 5 1 1 1 1 1 1
maple	mapul	1 1 1 5
mar	mor	1 5 1
marble	morbul	1 5 1 1 5
margin	morjun	1 5 1 5 1 1
mark	mork	1 5 1 5
market	morkut	1 5 1 5 5 1

WORD	DECODE	FILTER LEVEL
marl	m̄orl	1 5 1 1
marmot	m̄orm̄ut	1 5 1 1 1 1
mart	m̄ort	1 5 1 1
marten	m̄ort̄un	1 5 1 1 5 1
martin	m̄ort̄un	1 5 1 1 1 1
martinet	m̄ort̄un̄et	1 5 1 1 1 1 1 1
meddle	m̄ed̄ul	1 1 2 5
melodrama	m̄el̄ud̄rom̄u	1 1 1 1 1 1 5 1 1
mercury	m̄ur̄k̄uri	1 5 1 1 1 1 1
merger	m̄ur̄j̄ur	1 5 1 5 2
meter	m̄ē̄tur	1 1 1 5 1
mettle	m̄et̄ul	1 1 1 5 1
micrometer	m̄ik̄r̄om̄ē̄tur	1 5 1 1 1 1 1 1 5 1
middle	m̄id̄ul	1 1 2 5 1
middleman	m̄id̄ul̄mun	1 1 2 5 1 1 1 1
midnight	m̄id̄n̄it	1 1 1 1 5 1
midwinter	m̄id̄w̄int̄ur	1 1 1 5 1 1 1 5 1
might	m̄it	1 5 1
mighty	m̄it̄ē	1 5 1 1
mild	m̄ild	1 5 1 1
milk	m̄ilk	1 1 1 5
mind	m̄ind	1 5 1 1
mindful	m̄ind̄ful	1 5 1 1 1 1 1
miner	m̄in̄ur	1 5 1 5 1
mineral	m̄in̄ur̄ul	1 1 1 5 1 1 1

WORD	DECODE	FILTER LEVEL
minister	minu [˘] st [˘] ur	1 1 1 1 1 1 5 1
mink	m [˘] ink	1 1 1 5
minster	min [˘] st [˘] ur	1 1 1 1 1 5 1
mire	mi [˘] ur	1 5 5 1
miscall	mi [˘] sko [˘] l	1 1 1 1 5 2
miser	mi [˘] sur	1 5 1 5 1
miserable	mi [˘] zu [˘] ru [˘] bu [˘] l	1 1 5 5 1 1 1 5 1
misnomer	mi [˘] no [˘] mu [˘] r	1 1 1 1 1 1 5 1
misunderstand	mi [˘] su [˘] nd [˘] ur [˘] st [˘] and	1 1 1 1 1 1 5 1 1 1 1 1 1
miter	mi [˘] tu [˘] r	1 5 1 2
modern	mo [˘] du [˘] rn	1 1 1 5 1 1
modernist	mo [˘] du [˘] rn [˘] is [˘] t	1 1 1 5 1 1 1 1 1
modernistic	mo [˘] du [˘] rn [˘] is [˘] t [˘] ik	1 1 1 5 1 1 1 1 1 1 1
modest	mo [˘] du [˘] st	1 1 1 5 1 1
molten	mo [˘] l [˘] tu [˘] n	1 1 1 1 5 1
moment	mo [˘] mu [˘] nt	1 1 1 5 1 1
monument	mo [˘] nu [˘] mu [˘] nt	1 1 1 1 1 5 1 1
monumental	mo [˘] nu [˘] mu [˘] nt [˘] u [˘] l	1 1 1 1 1 1 1 1 5 1
mottle	mo [˘] tu [˘] l	1 1 2 5 1
muddle	mu [˘] du [˘] l	1 1 2 5 1
mumble	mu [˘] mb [˘] u [˘] l	1 1 1 1 5 1
musk	mu [˘] sk	1 1 1 5
musket	mu [˘] sku [˘] t	1 1 1 5 5 1
musketry	mu [˘] sku [˘] tr [˘] e	1 1 1 5 5 1 1 1
muslin	mu [˘] z [˘] lu [˘] n	1 1 5 1 1 1

WORD	DECODE	FILTER LEVEL
naked	nakud	1 1 5 5 1
napkin	napkun	1 1 1 5 1 1
narcotic	norkotik	1 5 1 1 1 1 1 1
navigable	navigubul	1 1 1 1 1 1 1 5 1
nettle	netul	1 1 2 5
network	netwurk	1 1 1 5 1 1 5
nibble	nibul	1 1 2 5 1
nimble	nimbul	1 1 1 1 5
nipple	nipul	1 1 2 5 1
noble	nobul	1 1 1 5 1
nobleman	nobulmun	1 1 1 5 1 1 1 1
noisy	noize	1 1 1 5 1
nostalgia	nostalju	1 1 1 1 1 1 5 1
notable	notubul	1 1 1 1 1 5 1
novel	novul	1 1 1 5 1
novelist	novulust	1 1 1 5 1 5 1 1
observable	ubzurvubul	1 1 5 5 1 1 1 1 5 1
observance	ubzurvuns	1 1 5 5 1 1 1 1 1
observant	ubzurvunt	1 1 5 5 1 1 5 1 1
observer	ubzurvur	1 1 5 5 1 5 1
odometer	odomutur	1 1 1 1 5 1 5 1
ogle	ogul	1 1 5 1
ointment	ointmunt	1 1 1 1 1 5 1 1
oleander	oleandur	1 1 1 1 1 1 5 1
omen	omun	1 1 5 1

WORD	DECODE	FILTER LEVEL
omnipotent	omniputunt	1 1 1 1 1 1 1 5 1 1
omnipresent	omniprezunt	1 1 1 1 1 1 1 5 5 1 1
omnivore	omnivour	1 1 1 1 1 1 5 1
ontogeny	ontojune	1 1 1 1 5 5 1 1
ontology	ontoluje	1 1 1 1 1 1 5 1
onward	onwurd	1 1 5 1 1 1
onwards	onwurdz	1 1 5 1 1 1 5
open	opun	1 1 5 1
opener	opunur	1 1 5 1 5 1
opera	opuru	1 1 5 1 1
operable	opurubul	1 1 5 1 1 1 5 1
operatic	opuratik	1 1 5 1 1 1 1 1
optometry	optomutre	1 1 1 1 1 5 1 1 1
opulence	opulun(t)s	1 1 1 1 5 1 1 1
order	ordur	1 1 1 5 1
orderly	ordurle	1 1 1 5 1 1 1
organism	organizum	1 1 1 1 1 1 5 1 1
orgasm	orgazum	1 1 1 1 5 1 1
ornament	ornumunt	1 1 1 1 1 5 1 1
ornamental	ornumuntul	1 1 1 1 1 5 1 1 1 1
over	ovur	1 1 5 1
overburden	ovurburdun	1 1 5 1 1 1 1 1 5 1
overcast	ovurkast	1 1 5 1 1 1 1 1
overland	ovurland	1 1 5 1 1 1 1 1
overlap	ovurlap	1 1 5 1 1 1 1

WORD	DECODE	FILTER LEVEL
overlord	ovurlord	1 1 5 1 1 1 1 1
overwhelm	ovurhwelm	1 1 2 5 5 1 1 1
paddle	padul	1 1 1 5
paleontology	paleontolujē	1 1 1 1 1 1 1 1 1 1 5 1
paganism	pāgunizm	1 1 1 1 1 1 5 1
pall	pol	1 5 2
palpable	pālpubel	1 1 1 1 1 1 5
palsy	polzē	1 5 1 5 1
paltry	poltrē	1 5 1 1 1 1
panel	panel	1 1 1 5
pansy	pānzē	1 1 1 5 1
papa	popu	1 5 1 1
papal	pāpel	1 1 1 5
par	por	1 5 1
parable	parubel	1 1 1 1 1 5
parameter	pāramuter	1 1 1 1 1 5 1 2
parapet	paruput	1 1 1 1 1 5 1
paregoric	parugorik	1 1 1 5 1 1 1 1 1
parent	parunt	1 1 1 5 1 1
parental	paruntel	1 1 1 5 1 1 5
park	pork	1 5 1 5
parsnip	porsnup	1 5 1 1 1 1 1
part	port	1 5 1 1
partner	portner	1 5 1 1 1 2
party	portē	1 5 1 1 1

WORD	DECODE	FILTER LEVEL
pastoral	păstural	1 1 1 1 1 1 5
patent	pătunt	1 1 1 5 1 1
pebble	pēbel	1 1 2 5
pectoral	pēktural	1 1 1 1 1 1 5
pedagogy	pēdugoje	1 1 1 1 1 1 5 1
peddle	pēdel	1 1 2 5
pedestal	pēdustal	1 1 1 5 1 1 5
pedometer	pēdomuter	1 1 1 1 1 5 1 2
pendent	pēdunt	1 1 1 1 5 1 1
peninsula	pēninsula	1 5 1 1 1 1 1 1 1
penitent	pēnutunt	1 1 1 1 1 5 1 1
per	pur	1 5 1
peremptory	pēremtrē	1 5 1 1 1 1 1 1
perfect	purfekt	1 5 1 1 1 1 1
perform	purform	1 5 1 1 1 1 1
pericarp	pērukorp	1 1 1 1 1 5 1 1
pericope	pērikupe	1 5 1 1 1 1 1 1
perk	purk	1 5 1 5
permanent	purmunt	1 5 1 1 1 1 5 1 1
permeability	purmēubilutē	1 5 1 1 1 1 1 1 1 1 1 1
persist	pursist	1 5 1 1 1 1 1
persistent	pursistunt	1 5 1 1 1 1 1 5 1 1
pert	purt	1 5 1 1
perseverance	pursuverans	1 5 1 1 5 2 1 1 1
perversity	purvursitē	1 5 1 1 5 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
pervert	p̄urv̄urt	1 5 1 1 5 1 1
petroleum	p̄utr̄ol̄eum	1 5 1 1 1 1 1 1 1
pick	p̄ik	1 1 5
pickle	p̄ikel	1 1 5 5
pigment	p̄igm̄unt	1 1 1 1 5 1 1
pimple	p̄imp̄el	1 1 1 1 5
pimpled	p̄imp̄eld	1 1 1 1 5 1
pint	p̄int	1 5 1 1
piratical	p̄irat̄ikel	1 1 1 1 1 1 1 5
pitfall	p̄it̄fol	1 1 1 1 5 2
pitiful	p̄it̄ifel	1 1 1 1 1 5
placard	p̄lak̄ord	1 1 1 1 5 1 1
planet	p̄lan̄ut	1 1 1 1 5 1
plank	p̄lank	1 1 1 1 5
plasma	p̄lāz̄m̄u	1 1 1 5 1 1
plentiful	p̄lent̄ifel	1 1 1 1 1 1 1 5
pleonasm	p̄lēun̄az̄m	1 1 1 1 1 1 5 1
pliable	p̄līabel	1 1 5 1 1 5
plight	p̄lit	1 1 5 1
pluck	p̄luk	1 1 1 5
plunger	p̄lun̄jer	1 1 1 1 5 2
poetical	p̄oet̄ikel	1 1 1 1 1 1 5
poetry	p̄oūtr̄ē	1 1 5 1 1 1
pointed	p̄oint̄ud	1 1 1 1 1 5 1
political	p̄olit̄ikel	1 1 1 1 1 1 1 5

WORD	DECODE	FILTER LEVEL
pontifical	pōntifucel	1 1 1 1 1 1 1 1 5
pork	pōrk	1 1 1 5
portable	pōrtubel	1 1 1 1 1 1 5
portal	pōrtel	1 1 1 1 5
portent	pōrtunt	1 1 1 1 5 1 1
positron	pōzutrun	1 1 5 1 1 1 1 1
postal	pōstel	1 1 1 1 5
posy	pōze	1 1 5 1
potent	pōtunt	1 1 1 5 1 1
prattle	prātul	1 1 1 2 5
preamble	prēambul	1 1 1 1 1 1 5
preferable	prēf(u)rubul	1 1 1 1 1 1 1 5
preparedness	prēparudnūs	1 1 1 1 1 1 5 1 1 5 2
present	prēznt	1 1 1 5 1 1
presentable	prēzentubul	1 1 1 5 1 1 1 1 1 5
prevalent	prēv(u)lunt	1 1 1 1 1 5 1 1
primal	primul	1 1 5 1 5
primer	primur	1 1 5 1 2
primeval	primevul	1 1 5 1 1 1 1 1
priority	priorute	1 1 5 1 1 1 1 1
priory	pri(u)rē	1 1 5 1 1
prism	prizm	1 1 1 5 1
prismatic	prizmatik	1 1 1 5 1 1 1 1 1
probable	prōbubel	1 1 1 1 1 1 5
problem	prōblum	1 1 1 1 1 5 1
proconsul	prōkonsul	1 1 1 1 1 1 1 5

WORD	DECODE	FILTER LEVEL
profitable	pr ^u fu ^t u ^b ul	1 1 1 1 1 1 1 1 5
proposal	pr ^u po ^s el	1 1 1 1 1 1 5
protoplasm	pr ^o to ^p la ^s m	1 1 1 1 1 1 1 1 5 1
provender	pr ^o vu ⁿ der	1 1 1 1 5 1 1 2
proviso	pr ^u vi ^z o	1 1 1 1 1 5 1
puddle	pu ^d el	1 1 2 5
pumpkin	pu ^m ki ⁿ	1 1 1 5 1 1
punk	pu ⁿ k	1 1 1 5
rabble	ra ^b el	1 1 2 5
radical	ra ^d i ^k el	1 1 1 1 1 5
radicalism	ra ^d i ^k eli ^z m	1 1 1 1 1 5 1 5 1
ramble	ra ^m bel	1 1 1 1 5
rank	ra ⁿ k	1 1 1 5
rascal	ra ^s kel	1 1 1 1 5
rattle	ra ^t el	1 1 2 5
raven	ra ^v un	1 1 1 5 1
rubble	ru ^b el	1 1 2 5
rural	ru ^r el	1 1 1 5
realism	re ^a li ^z m	1 1 1 1 1 5 1
rebel	re ^b el	1 1 1 5
referent	re ^f er ^u nt	1 1 1 2 5 1 1
regal	re ^g el	1 1 1 5
register	re ^j i ^s ter	1 1 5 1 1 1 2
registrar	re ^j i ^s tra ^r	1 1 5 1 1 1 1 1 1
regretful	re ^g ret ^f el	1 1 1 1 1 1 1 5

WORD	DECODE	FILTER LEVEL
rekindle	rēkindel	1 1 5 1 1 1 5
relevant	reluvunt	1 1 1 5 1 1 1 1
reliable	rēliubel	1 1 1 1 1 1 5
remedy	remudē	1 1 1 5 1 1
remorseful	rēmorsfel	1 1 1 1 1 1 1 5
rental	rentel	1 1 1 1 5
reopen	rēōpun	1 1 1 1 5 1
represent	rēprēzent	1 1 1 1 1 5 1 1 1
resemble	rēsembel	1 1 1 1 1 1 5
resentful	rēsēntfel	1 1 1 1 1 1 1 5
resentment	rēsēntmunt	1 1 1 1 1 1 1 5 1 1
resistant	rezistunt	1 1 5 1 1 1 1 1 1
resort	rezort	1 1 5 1 1 1
respectable	rēspēktubel	1 1 1 1 1 1 1 1 1 5
respectful	rēspēktfel	1 1 1 1 1 1 1 1 5
resplendent	rēsplēndunt	1 1 1 1 1 1 1 1 5 1 1
restful	rēstfel	1 1 1 1 1 5
result	rezult	1 1 5 1 1 1
resultant	rēzultunt	1 1 5 1 1 1 1 1 1
retard	rētord	1 1 1 5 1 1
revel	revel	1 1 1 5
revelry	rēvelrē	1 1 1 5 1 1
reverend	rēvurund	1 1 1 5 1 5 1 1
reverent	rēvurunt	1 1 1 5 1 5 1 1
reversal	rēversel	1 1 1 2 1 5

WORD	DECODE	FILTER LEVEL
revert	revurt	1 1 1 5 1 1
revival	revivel	1 1 1 1 1 5
reward	reward	1 1 5 1 1 1
riddle	ridel	1 1 2 5
rifle	rifel	1 1 1 5
rifleman	rifelmun	1 1 1 5 1 1 1
rigid	rijid	1 1 5 1 1
rigidity	rijidite	1 1 5 1 1 1 1 1
ripen	ripun	1 1 1 5 1
risk	risk	1 1 1 5
rival	rivul	1 1 1 5
rivalry	rivulre	1 1 1 5 1 1
rivet	rivot	1 1 1 5 1
rodent	rodunt	1 1 1 5 1 1
rumple	rumpel	1 1 1 1 5
sable	sabel	1 1 1 5
sacral	sakrul	1 1 1 1 5
sacrament	sakrumunt	1 1 1 1 1 1 5 1 1
sacramental	sakrumuntel	1 1 1 1 1 1 5 1 1 5
sacred	sakrud	1 1 1 1 5 1
saddle	sadel	1 1 1 5
saddlebag	sadelbag	1 1 2 5 1 1 1
sadism	sadizm	1 1 1 1 5 1
sadness	sadnus	1 1 1 1 5 2
salt	solt	1 5 1 1

WORD	DECODE	FILTER LEVEL
saltpeter	šoltpēter	1 5 1 1 1 1 1 2
salty	šoltē	1 5 1 1 1
sample	šampel	1 1 1 1 5
sandal	šandel	1 1 1 1 5
sarcasm	šarkazm	1 1 1 1 1 5 1
sarcastic	šorkastik	1 5 1 1 1 1 1 1 1
satirical	šatirikel	1 1 1 1 1 1 1 5
scandal	škandel	1 1 1 1 1 5
scar	škor	1 1 5 1
scarlet	škarlut	1 1 1 1 1 5 1
scavenger	škavunger	1 1 1 1 5 1 1 2
sclerotic	šklurotik	1 1 1 5 1 1 1 1 1
scornful	škornfel	1 1 1 1 1 1 5
scramble	škrambel	1 1 1 1 1 1 5
scribble	škribel	1 1 1 1 2 5
segment	šegmunt	1 1 1 1 5 1 1
select	šulect	1 5 1 1 1 1
selectman	šulektmun	1 5 1 1 1 1 1 1 1
semantic	šematik	1 1 1 1 1 1 1 5
semantics	šematikz	1 1 1 1 1 1 1 1 5
semen	šemun	1 1 1 5 1
separable	šepurubel	1 1 1 1 1 1 1 5
serpent	šerpunt	1 1 1 1 5 1 1
settle	šetel	1 1 2 5
settlement	šetelmunt	1 1 2 5 1 5 1 1

WORD	DECODE	FILTER LEVEL
seven	sevun	1 1 1 5 1
several	sevurel	1 1 1 5 1 5
everity	suverite	1 5 1 2 1 1 1
sidereal	sidureul	1 5 1 2 1 1 1
sidle	sidul	1 5 1 5
signet	signut	1 1 1 1 5 1
silent	silunt	1 5 1 5 1 1
silk	silk	1 1 1 5
silky	silke	1 1 1 5 1
silverware	silvurwaur	1 1 1 1 2 5 1 2
simple	simpul	1 1 1 1 5
siren	sirun	1 5 1 1 1
slimy	slime	1 1 5 1 1
smart	smort	1 1 5 1 1
smile	smiul	1 1 5 5
smuggle	smugul	1 1 1 2 5
small	smoll	1 1 5 2
snarl	snorl	1 1 5 1 1
snuggle	snuggul	1 1 1 2 5
solipsism	solupsizm	1 1 1 1 1 1 1 5 1
soluble	solubul	1 1 1 5 1 5
solvent	solvunt	1 1 1 1 5 1 1
somnambulism	somnambulizm	1 1 1 1 1 1 1 5 1 1 5 1
sonar	sonor	1 1 1 5 1
sonata	sonotu	1 1 1 5 1 1

WORD	DECODE	FILTER LEVEL
spark	sp̄ork	1 1 5 1 5
spasm	sp̄azm	1 1 1 5 1
spasmodic	sp̄azm̄odik	1 1 1 5 1 1 1 1
spar	sp̄or	1 1 5 1
spider	sp̄id̄ur	1 1 5 1 2
spinal	sp̄inul	1 1 5 1 1 1
spiral	sp̄irul	1 1 5 1 1 1
sprightly	sp̄rit̄lē	1 1 1 5 1 1 1
stable	st̄abul	1 1 1 1 5
stall	st̄oll	1 1 5 2
staple	st̄apul	1 1 1 1 5
star	st̄or	1 1 5 1
stark	st̄ork	1 1 5 1 5
start	st̄ort	1 1 5 1 1
starter	st̄ortur	1 1 5 1 1 2
startle	st̄ortul	1 1 5 1 1 5
stifle	st̄ifle	1 1 5 1 5
stingy	st̄injē	1 1 1 1 5 1
stink	st̄ink	1 1 1 1 5
stork	st̄ork	1 1 1 1 5
straddle	st̄adle	1 1 1 1 2 5
strange	str̄anj	1 1 1 1 1 5
straggle	str̄agle	1 1 1 1 2 5
strangle	str̄angle	1 1 1 1 1 1 5
strategic	strut̄ej̄ik	1 1 1 1 1 1 5 1 1

WORD	DECODE	FILTER LEVEL
strategist	stratej ^u ist	1 1 1 1 1 1 5 1 1 1
strategy	stratej ^u e	1 1 1 1 1 1 5 1
strident	strident ^u	1 1 1 5 1 1 1 1
striven	striven ^u	1 1 1 5 1 1 1
struggle	strugle ^u	1 1 1 1 2 5
stubble	stuble ^u	1 1 1 2 5
stumble	stumble ^u	1 1 1 1 1 5
subscriber	subskriber ^u	1 1 1 1 1 1 5 1 2
submerge	submerj ^u	1 1 1 1 2 5
substrahend	substruhend ^u	1 1 1 1 1 1 1 5 1 1 1
suggest	sugjest ^u	1 1 1 5 1 1 1
sulk	sulk ^u	1 1 1 5
sundial	sundiul ^u	1 1 1 1 5 1 1
sunk	sunk ^u	1 1 1 5
sunken	sunken ^u	1 1 1 5 1 1
sunlight	sunlit ^u	1 1 1 1 5 1
supple	suple ^u	1 1 2 5
swab	swob ^u	1 5 5 1
swaddle	swodle ^u	1 5 5 1 5
swam	swam ^u	1 5 1 1
swan	swon ^u	1 5 5 1
swamp	swomp ^u	1 5 5 1 1
swap	swop ^u	1 5 5 1
sward	sword ^u	1 5 5 1 1
swarm	sworm ^u	1 5 5 1 1

WORD	DECODE	FILTER LEVEL
swell	swel	1 5 1 2
swelter	swelter	1 5 1 1 1 2
swept	swept	1 5 1 1 1
swerve	swerv	1 5 2 1
swift	swift	1 5 1 1 1
swill	swil	1 5 1 2
swim	swim	1 5 1 1
swindle	swindle	1 5 1 1 1 5
swindler	swindler	1 5 1 1 1 1 2
sworn	sworn	1 5 1 1 1
table	table	1 1 1 5
tableland	tableland	1 1 1 5 1 1 1 1
tablet	tablet	1 1 1 1 5 1
tall	tol	1 5 2
tapestry	tapustre	1 1 1 5 1 1 1 1
tar	tor	1 5 1
tardy	torde	1 5 1 1 1
tarn	torn	1 5 1 1
tart	tort	1 5 1 1
tartan	tortun	1 5 1 1 1 1
task	task	1 1 1 5
telegram	telugram	1 1 1 5 1 1 1 1
teleological	teleulojikul	1 1 1 1 1 1 1 5 1 1 1 1
teleology	teleoluje	1 1 1 1 1 1 1 5 1
telescopic	teluskopik	1 1 1 5 1 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
temerity	tumerutē	1 5 1 1 1 1 1 1
temperament	tempurumēt	1 1 1 1 2 1 1 5 1 1
tempest	tempust	1 1 1 1 5 1 1
temple	tempul	1 1 1 1 5
tenable	tenubul	1 1 1 1 1 5
tenement	tenumunt	1 1 1 5 1 5 1 1
tenet	tenut	1 1 1 5 1
terminology	turmunolujē	1 2 1 1 1 1 1 1 5 1
testament	testumunt	1 1 1 1 1 1 5 1 1
testamentary	testumuntarē	1 1 1 1 1 1 5 1 1 1 1 1
tidal	tīdul	1 5 1 1 1
tidy	tīdē	1 5 1 1
tiger	tīgur	1 5 1 2
tigress	tigrūs	1 5 1 1 5 2
timer	tīmur	1 5 1 2
tiny	tīnē	1 5 1 1
tipple	tīpul	1 1 2 5
titanic	titanik	1 5 1 1 1 1 1
title	tītul	1 5 1 5
titled	tītuld	1 5 1 5 1
toddle	todul	1 1 2 5
toilet	toilut	1 1 1 1 5 1
tolerable	tolurubul	1 1 1 2 1 1 5
topple	topul	1 1 2 5
tractable	traktuble	1 1 1 1 1 1 1 5

WORD	DECODE	FILTER LEVEL
tragedian	tr̄ajed̄eun	1 1 1 5 1 1 1 1 1
tragic	tr̄ajik	1 1 1 5 1 1
trample	tr̄ample	1 1 1 1 1 5
travel	tr̄avel	1 1 1 1 5
traveler	tr̄aveler	1 1 1 1 5 2
tremble	tr̄em̄ble	1 1 1 1 1 5
triad	tr̄iad	1 1 5 1 1
trial	tr̄iul	1 1 5 1 1
tribal	tr̄ibul	1 1 5 1 1 1
tribunal	tr̄ibunul	1 1 1 1 5 1 1 1
trident	tr̄ident	1 1 5 1 1 1 1
trifle	tr̄ifle	1 1 5 1 5
trinket	tr̄inket	1 1 1 1 5 1 1
tripod	tr̄ipod	1 1 5 1 1 1
truculent	tr̄ukulent	1 1 1 1 5 1 1 1 1
trudge	tr̄uj	1 1 1 5
trunk	tr̄unk	1 1 1 1 5
tumble	t̄umble	1 1 1 1 5
tumbler	t̄umbler	1 1 1 1 5 1
tusk	t̄usk	1 1 1 5
twelve	tw̄elv	1 5 1 1 1
twenty	tw̄entē	1 5 1 1 1 1
twig	tw̄ig	1 5 1 1
twilight	tw̄ilit	1 5 5 1 5 1
twill	tw̄il	1 5 1 2

WORD	DECODE	FILTER LEVEL
twin	twin	1 5 1 1
twinkle	twinkle	1 5 1 1 5 5
twist	twist	1 5 1 1 1
ultraviolet	ultruviolet	1 1 1 1 1 1 5 1 1 1 1
unable	unable	1 1 1 1 5
unanimity	unanimitē	5 1 1 1 1 1 1 1 1
unbind	unbind	1 1 1 5 1 1
unbridled	unbridled	1 1 1 1 5 1 5 1
undeniable	undeniable	1 1 1 1 1 5 1 1 5
underwent	underwent	1 1 1 2 5 1 1 1
undesirable	undesirable	1 1 1 1 1 5 1 1 1 5
unholy	unhōlē	1 1 5 1 1
unicorn	unukorn	5 1 1 1 1 1 1
unkept	unkept	1 1 5 1 1 1
unkind	unkind	1 1 5 5 1 1
unlimited	unlimitud	1 1 1 1 1 1 1 5 1
unmask	unmask	1 1 1 1 1 5
unity	unite	5 1 1 1 1
unmindful	unmindful	1 1 1 5 1 1 1 1 1
unravel	unravul	1 1 1 1 1 5 1
unsettle	unsetul	1 1 1 1 2 5
unstable	unstābul	1 1 1 1 1 1 5
untidy	untide	1 1 1 5 1 1
unwary	unwarē	1 1 5 1 1 1
unwonted	unwontud	1 1 5 1 1 1 5 1

WORD	DECODE	FILTER LEVEL
upheld	upheld	1 1 5 1 1 1
uphill	uphil	1 1 5 1 2
uphold	uphold	1 1 5 1 1 1
upholster	upholstur	1 1 5 1 1 1 1 2
upholstery	upholsturē	1 1 5 1 1 1 1 2 1
usable	uzubul	5 5 1 1 5
user	uzur	5 5 2
utensil	utensul	5 1 1 1 1 1 1
utility	utilute	5 1 1 1 1 1 1
vacuum	vakuum	1 1 1 5 1 1
valuable	valuubul	1 1 1 5 1 1 5
varletry	vorlutrē	1 5 1 1 5 1 1 1
varsity	vorute	1 5 1 1 1 1 1
vacuity	vakute	1 1 1 5 1 1 1
velvet	velvut	1 1 1 1 5 1
venerable	venurubul	1 1 1 2 1 1 5
veritable	verutubul	1 1 1 1 1 1 1 5
vertebra	vurtubru	1 2 1 5 1 1 1
vespers	vespurz	1 1 1 1 2 5
vested	vestud	1 1 1 1 5 1
vestment	vestmunt	1 1 1 1 1 5 1 1
via	viu	1 5 1
viable	viubul	1 5 1 1 5
viaduct	viudukt	1 5 1 1 1 1 1
vial	viul	1 5 1 1

WORD	DECODE	FILTER LEVEL
viand	viund	1 5 1 1 1
vibrant	vibrunt	1 5 1 1 1 1 1
viola	violu	1 5 1 1 1
violent	viulunt	1 5 1 1 5 1 1
violet	viulut	1 5 1 1 5 1
violin	viulin	1 5 1 1 1 1
violinist	viulinust	1 5 1 1 1 1 1 1 1
viper	vipur	1 5 1 2
visitant	vizutunt	1 1 5 1 1 1 1 1
vital	vitul	1 5 1 1 1
vitality	vitalute	1 5 1 1 1 1 1 1
vitamin	vitumun	1 5 1 1 1 1 1
voluble	volubul	1 1 1 5 1 5
vulnerable	vulnuru bul	1 1 1 1 2 1 1 5
wad	wod	5 5 1
waddle	wodul	5 5 2 5
wafer	wafur	5 1 1 2
waft	waft	5 1 1 1
wag	wag	5 1 1
wager	wajur	5 1 5 2
wall	wol	5 5 2
walnut	wolnut	5 5 1 1 1 1
wampum	wompum	5 5 1 1 1 1
wan	won	5 5 1
wand	wond	5 5 1 1

WORD	DECODE	FILTER LEVEL
wander	w [˘] o [˘] n [˘] d [˘] u [˘] r	5 5 1 1 2
wanderer	w [˘] o [˘] n [˘] d [˘] u [˘] r [˘] u [˘] r	5 5 1 1 2 2
wanly	w [˘] o [˘] n [˘] l [˘] e	5 5 1 1 1
want	w [˘] o [˘] n [˘] t	5 5 1 1
war	w [˘] o [˘] r	5 5 1
warble	w [˘] o [˘] r [˘] b [˘] u [˘] l	5 5 1 1 5
warbler	w [˘] o [˘] r [˘] b [˘] l [˘] u [˘] r	5 5 1 1 1 2
ward	w [˘] o [˘] r [˘] d	5 5 1 1
warden	w [˘] o [˘] r [˘] d [˘] u [˘] n	5 5 1 1 5 1
warder	w [˘] o [˘] r [˘] d [˘] u [˘] r	5 5 1 1 2
warm	w [˘] o [˘] r [˘] m	5 5 1 1
warn	w [˘] o [˘] r [˘] n	5 5 1 1
warp	w [˘] o [˘] r [˘] p	5 5 1 1
wart	w [˘] o [˘] r [˘] t	5 5 1 1
wary	w [˘] o [˘] r [˘] e	5 1 1 1
was	w [˘] o [˘] z	5 5 5
wasp	w [˘] o [˘] s [˘] p	5 5 1 1
waver	w [˘] o [˘] v [˘] u [˘] r	5 1 1 2
web	w [˘] o [˘] b	5 1 1
wed	w [˘] o [˘] d	5 1 1
weft	w [˘] o [˘] f [˘] t	5 1 1 1
weld	w [˘] o [˘] l [˘] d	5 1 1 1
well	w [˘] o [˘] l	5 1 2
welt	w [˘] o [˘] l [˘] t	5 1 1 1
welter	w [˘] o [˘] l [˘] t [˘] u [˘] r	5 1 1 1 2

WORD	DECODE	FILTER LEVEL
wend	wend	5 1 1 1
went	went	5 1 1 1
wept	wept	5 1 1 1
west	west	5 1 1 1
westerly	westurle	5 1 1 1 2 1 1
western	westurn	5 1 1 1 2 1
westward	westwurd	5 1 1 1 5 1 1 1
wet	wet	5 1 1
widen	widun	5 5 1 5 1
wig	wig	5 1 1
wiggle	wigul	5 1 2 5
wild	wild	5 5 1 1
wildcat	wildkat	5 5 1 1 1 1 1
wilderness	wildurnus	5 1 1 1 2 1 5 1
wildly	wildle	5 5 1 1 1 1
will	wil	5 1 2
wilt	wilt	5 1 1 1
wily	wile	5 5 1 1
win	win	5 1 1
wind	wind	5 5 1 1
winded	windud	5 1 1 1 5 1
windfall	windfol	5 1 1 1 1 5 2
windmill	windmil	5 1 1 1 1 1 2
windward	windwurd	5 1 1 1 5 1 1 1
windy	winde	5 1 1 1 1

WORD	DECODE	FILTER LEVEL
winter	w̄intur	5 1 1 1 2
wintry	w̄intrē	5 1 1 1 1 1
wiry	w̄irē	5 5 1 1
wisp	w̄isp	5 1 1 1
wistful	w̄istful	5 1 1 1 1 1 1
witless	w̄itlus	5 1 1 1 5 2
witness	w̄itnus	5 1 1 1 5 2
wold	w̄old	5 1 1 1
won	w̄un	5 1 1
wonder	w̄undur	5 1 1 1 2
wonderful	w̄undurful	5 1 1 1 2 1 1 1
wonderland	w̄undurland	5 1 1 1 2 1 1 1 1
wonderment	w̄undurmnt	5 1 1 1 2 5 1 1
wont	w̄ont	5 1 1 1
workman	w̄urkmun	5 1 1 5 1 1 1
worn	w̄orn	5 1 1 1
woven	w̄ovun	5 1 1 5 1

FILTER SIX*

*In the current analysis of words from the original Hanna Study, none were found to be classified as filter six.

FILTER SEVEN

WORD	DECODE	FILTER LEVEL
abdiction	ʿabdikāshun	1 1 1 1 1 1 7 1 1
abduction	ʿabdukshun	1 1 1 1 1 7 1 1
ablation	ʿablāshun	1 1 1 1 7 1 1
abolition	ʿabulishun	1 1 1 1 1 7 1 1
abolitionist	ʿabulishunist	1 1 1 1 1 7 1 1 1 1 1
abortion	ʿuborshun	1 1 1 1 7 1 1
adaptation	ʿadaptāshun	1 1 1 1 1 1 7 1 1
administration	ʿadminustrāshun	1 1 1 1 1 1 1 1 1 1 7 1 1
admonition	ʿadmunishun	1 1 1 1 1 1 7 1 1
adoption	ʿudopshun	1 1 1 1 7 1 1
adoration	ʿadurāshun	1 1 1 1 1 7 1 1
adulteration	ʿudulturāshun	1 1 1 1 1 2 1 7 1 1
agitation	ʿajutāshun	1 5 1 1 1 7 1 1
alteration	ʿolturāshun	5 1 1 2 1 7 1 1
altercation	ʿolturkāshun	5 1 1 2 1 1 7 1 1
alternation	ʿolturnāshun	5 1 1 2 1 1 7 1 1
ambition	ʿambishun	1 1 1 1 7 1 1
arbitration	ʿorbutrāshun	5 1 1 1 1 1 1 7 1 1
avocation	ʿavukāshun	1 1 1 1 1 7 1 1
calculation	kalkūlāshun	1 1 1 1 5 1 1 7 1 1
caption	kapshun	1 1 1 7 1 1
carnation	kornāshun	1 5 1 1 1 7 1 1

WORD	DECODE	FILTER LEVEL
coalition	kōulishun	1 1 1 1 1 7 1 1
cogitation	kogitāshun	1 1 1 1 1 1 7 1 1
cognition	kognishun	1 1 1 1 1 7 1 1
compensation	kompensāshun	1 1 1 1 1 1 1 1 7 1 1
competition	kompetishun	1 1 1 1 1 1 1 7 1 1
completion	komplēshun	1 1 1 1 1 1 7 1 1
complication	komplikāshun	1 1 1 1 1 1 1 1 7 1 1
composition	kompūzishun	1 1 1 1 1 5 1 7 1 1
computation	kompūtāshun	1 1 1 1 5 1 1 7 1 1
condemnation	kondemnāshun	1 1 1 1 1 1 1 1 7 1 1
condensation	kondensāshun	1 1 1 1 1 1 1 1 7 1 1
condition	kondishun	1 1 1 1 1 7 1 1
conditional	kondishunul	1 1 1 1 1 7 1 1 1 1
conduction	kundukshun	1 1 1 1 1 1 7 1 1
confection	konfekshun	1 1 1 1 1 1 7 1 1
confectioner	konfekshuner	1 1 1 1 1 1 7 1 1 2
confederation	konfederāshun	1 1 1 1 1 1 2 1 7 1 1
confiscation	konfiskāshun	1 1 1 1 1 1 1 1 7 1 1
congregation	kongregāshun	1 1 1 1 1 1 1 1 7 1 1
congregational	kongregāshunul	1 1 1 1 1 1 1 1 7 1 1 1 1
conscription	konskripshun	1 1 1 1 1 1 1 1 7 1 1
consecration	konsekrāshun	1 1 1 1 1 1 1 1 7 1 1
conservation	konservāshun	1 1 1 1 2 1 1 7 1 1
consideration	konsiderāshun	1 1 1 1 1 1 2 1 7 1 1
consolation	konsulāshun	1 1 1 1 1 1 1 7 1 1

WORD	DECODE	FILTER LEVEL
consternation	kōnsternāshun	1 1 1 1 1 2 1 1 7 1 1
construction	kōnstrūkhun	1 1 1 1 1 1 1 1 7 1 1
consultation	kōnsultāshun	1 1 1 1 1 1 1 1 7 1 1
consumption	kōnsumpshun	1 1 1 1 1 1 1 1 7 1 1
contention	kuntēnshun	1 1 1 1 1 1 7 1 1
continuation	kūntinūāshun	1 1 1 1 1 1 5 1 7 1 1
contortion	kūntōrshun	1 1 1 1 1 1 7 1 1
contraction	kūntrakshun	1 1 1 1 1 1 1 7 1 1
contradiction	kōntrādikshun	1 1 1 1 1 1 1 1 1 7 1 1
contrition	kūntrishun	1 1 1 1 1 1 7 1 1
convention	kūnvēnshun	1 1 1 1 1 1 7 1 1
conventional	kūnvēnshunul	1 1 1 1 1 1 7 1 1 1 1
conversation	kōnversāshun	1 1 1 1 2 1 1 7 1 1
conviction	kūnvikshun	1 1 1 1 1 1 7 1 1
convocation	kōnvukāshun	1 1 1 1 1 1 1 7 1 1
cooperation	kōoperāshun	1 1 1 1 2 1 7 1 1
coronation	kōrunāshun	1 1 1 1 1 1 7 1 1
corporation	kōrpurāshun	1 1 1 1 1 1 1 7 1 1
creation	krēāshun	1 1 1 1 7 1 1
credential	krēdēnshul	1 1 1 1 1 1 7 1 1
damnation	damnāshun	1 1 1 1 1 7 1 1
declamation	deklumāshun	1 1 1 1 1 1 1 7 1 1
declaration	deklurāshun	1 1 1 1 1 1 1 7 1 1
decomposition	dēkumpuzishun	1 1 1 1 1 1 1 5 1 7 1 1
decoration	dēkerāshun	1 1 1 2 1 7 1 1

WORD	DECODE	FILTER LEVEL
dedication	dedikāshun	1 1 1 1 1 1 7 1 1
deduction	dedukshun	1 1 1 1 1 7 1 1
defamation	defumāshun	1 1 1 1 1 1 7 1 1
defection	defekshun	1 1 1 1 1 7 1 1
deferential	deferenshul	1 1 1 2 1 1 7 1 1
deflation	deflāshun	1 1 1 1 1 7 1 1
degeneration	dejenerāshun	1 1 5 1 1 2 1 7 1 1
degradation	degradāshun	1 1 1 1 1 1 1 7 1 1
delegation	delegāshun	1 1 1 1 1 1 7 1 1
deliberation	deliberāshun	1 1 1 1 1 2 1 7 1 1
delineation	delineāshun	1 1 1 1 1 1 1 7 1 1
demolition	demolishun	1 1 1 1 1 1 7 1 1
dentition	dentishun	1 1 1 1 1 7 1 1
deposition	depuzishun	1 1 1 1 5 1 7 1 1
depredation	depredāshun	1 1 1 1 1 1 1 7 1 1
deputation	deputāshun	1 1 1 5 1 1 7 1 1
description	deskripshun	1 1 1 1 1 1 1 7 1 1
desertion	dezershun	1 1 5 2 7 1 1
designation	designāshun	1 1 1 1 1 1 1 7 1 1
desolation	desolāshun	1 1 1 1 1 1 7 1 1
desperation	deperāshun	1 1 1 1 2 1 7 1 1
destestation	detestāshun	1 1 1 1 1 1 1 7 1 1
destruction	destrukshun	1 1 1 1 1 1 1 7 1 1
detection	detekshun	1 1 1 1 1 7 1 1
detention	detenshun	1 1 1 1 1 7 1 1

WORD	DFCODE	FILTER LEVEL
deterioration	ḍetereōrāshun	1 1 1 1 1 1 1 1 1 7 1 1
detonation	ḍetunāshun	1 1 1 1 1 1 7 1 1
detraction	ḍetrakshun	1 1 1 1 1 1 7 1 1
devastation	ḍevastāshun	1 1 1 1 1 1 1 7 1 1
deviation	ḍeveāshun	1 1 1 1 1 7 1 1
devotion	ḍevōshun	1 1 1 1 7 1 1
dictation	ḍiktāshun	1 1 1 1 1 7 1 1
diction	ḍikshun	1 1 1 7 1 1
dictionary	ḍikshunere	1 1 1 7 1 1 1 1 1
diminution	ḍiminūshun	1 1 1 1 1 5 7 1 1
discretion	ḍīkreshun	1 1 1 1 1 1 7 1 1
dish	ḍīsh	1 1 7
disintegration	ḍisintugrāshun	1 1 1 1 1 1 5 1 1 1 7 1 1
dislocation	ḍistolkāshun	1 1 1 1 1 1 1 7 1 1
dispensation	ḍispensāshun	1 1 1 1 1 1 1 1 7 1 1
disposition	ḍispuziashun	1 1 1 1 1 5 1 7 1 1
disproportion	ḍispruporshun	1 1 1 1 1 1 1 1 1 7 1 1
disputation	ḍisp(y)utashun	1 1 1 1 1 1 7 1 1
disruption	ḍisrupshun	1 1 1 1 1 1 7 1 1
dissatisfaction	ḍisatusfakshun	1 1 2 1 1 1 1 1 1 1 7 1 1
distortion	ḍistorshun	1 1 1 1 1 1 7 1 1
distracton	ḍistrakshun	1 1 1 1 1 1 1 7 1 1
dogfish	ḍogfish	1 1 1 1 1 7
elation	ēlāshun	1 1 1 7 1 1
election	ēlekshun	1 1 1 1 7 1 1

WORD	DECODE	FILTER LEVEL
elevation	ēlūvāshūn	1 1 5 1 1 7 1 1
emanation	ēmūnāshūn	1 1 1 1 1 7 1 1
emotion	ēmōshūn	1 1 1 7 1 1
emotional	ēmōshūnāl	1 1 1 7 1 1 5
emulation	ēmūlāshūn	1 1 1 1 1 7 1 1
enervate	ēnurvāt	1 1 5 1 1 7 1
erection	ērekshūn	1 1 1 1 7 1 1
erosion	ērōshūn	1 1 1 7 1 1
eruption	ērūpshūn	1 1 1 1 7 1 1
evacuation	ēvakūāshūn	1 1 1 1 1 1 7 1 1
evaporation	ēvaporāshūn	1 1 1 1 1 1 1 7 1 1
fabrication	fābrīkāshūn	1 1 1 1 1 1 1 7 1 1
faction	fākshūn	1 1 1 7 1 1
federation	fēdērāshūn	1 1 1 2 1 7 1 1
fermentation	fērmentāshūn	1 2 1 1 1 1 1 7 1 1
fiction	fīkshūn	1 1 1 7 1 1
formation	fōrmāshūn	1 1 1 1 1 7 1 1
formulation	fōrmūlāshūn	1 1 1 1 5 1 1 7 1 1
fraction	fākshūn	1 1 1 1 7 1 1
fractional	fākshūnūl	1 1 1 1 7 1 1 1 1
friction	frikshūn	1 1 1 1 7 1 1
frustration	fūstrāshūn	1 1 1 1 1 1 1 7 1 1
generalization	jēnurūluzāshūn	5 1 1 2 1 1 1 1 1 7 1 1
generation	jēnurāshūn	5 1 1 2 1 7 1 1
gestation	jēstāshūn	5 1 1 1 1 7 1 1

WORD	DECODE	FILTER LEVEL
gravitation	gravūtāshun	1 1 1 1 1 1 1 7 1 1
habitation	habitāshun	5 1 1 1 1 1 7 1 1
hesitation	hezūtāshun	5 1 1 1 1 1 7 1 1
ideation	ideāshun	1 1 1 1 7 1 1
imposition	impuzīshun	1 1 1 1 5 1 7 1 1
impregnation	impregnāshun	1 1 1 1 1 1 1 1 7 1 1
inaction	ināshun	1 1 1 1 7 1 1
inauguration	inugurāshun	1 1 1 1 1 1 1 7 1 1
incarnation	inkarnāshun	1 1 1 1 1 1 1 7 1 1
incorporation	inkurpurāshun	1 1 1 1 1 1 1 1 1 7 1 1
indentation	indentāshun	1 1 1 1 1 1 1 7 1 1
indention	indenshun	1 1 1 1 1 7 1 1
indignation	indignāshun	1 1 1 1 1 1 1 7 1 1
indiscretion	indiskreshun	1 1 1 1 1 1 1 1 7 1 1
indisposition	indispuzīshun	1 1 1 1 1 1 1 5 1 7 1 1
induction	indukshun	1 1 1 1 1 7 1 1
indication	indukāshun	1 1 1 1 1 1 7 1 1
infection	infekshun	1 1 1 1 1 7 1 1
inflation	inflāshun	1 1 1 1 1 7 1 1
inflection	inflekshun	1 1 1 1 1 1 7 1 1
infliction	inflikshun	1 1 1 1 1 1 7 1 1
information	informāshun	1 1 1 1 1 1 1 7 1 1
infraction	infrakshun	1 1 1 1 1 1 7 1 1
inhibition	inhibishun	1 1 5 1 1 1 7 1 1
inoculation	inokūtāshun	1 1 1 1 5 1 1 7 1 1

WORD	DECODE	FILTER LEVEL
insatiable	insāshubūl	1 1 1 1 7 1 1 5
insertion	insurshun	1 1 1 5 1 7 1 1
inscription	inskripshun	1 1 1 1 1 1 1 7 1 1
insentient	insenshiunt	1 1 1 1 1 7 1 5 1 1
insinuation	insinūāshun	1 1 1 1 1 5 1 7 1 1
inspection	inspekshun	1 1 1 1 1 1 7 1 1
institutional	instutūshunūl	1 1 1 1 1 1 5 7 1 1 1 1
instruction	instrukshun	1 1 1 1 1 1 1 7 1 1
insulation	insulāshun	1 1 1 1 1 1 7 1 1
integration	intugrāshun	1 1 1 5 1 1 1 7 1 1
intention	intenshun	1 1 1 1 1 7 1 1
intentional	intenshunūl	1 1 1 1 1 7 1 1 1 1
interaction	inturakshun	1 1 1 2 1 1 7 1 1
international	inturnāshunūl	1 1 1 2 1 1 7 1 1 1 1
interposition	inturpuzishun	1 1 1 2 1 1 5 1 7 1 1
interpretation	inturprutāshun	1 1 1 2 1 1 5 1 1 7 1 1
intersection	intursekshun	1 1 1 2 1 1 1 7 1 1
intervention	inturvēnshun	1 1 1 2 1 1 1 7 1 1
intonation	intōnāshun	1 1 1 1 1 1 7 1 1
introduction	intrudukshun	1 1 1 1 1 1 1 1 7 1 1
intuition	intūishun	1 1 1 5 1 7 1 1
inundation	inundāshun	1 1 1 1 1 1 7 1 1
invention	invēnshun	1 1 1 1 1 7 1 1
invitation	invūtāshun	1 1 1 1 1 1 7 1 1
invocation	invukāshun	1 1 1 1 1 1 7 1 1

WORD	DECODE	FILTER LEVEL
irrational	irashunul	1 2 1 7 1 1 1 1
isolation	isulashun	5 1 1 1 1 7 1 1
lamentation	lamuntashun	1 1 1 5 1 1 1 7 1 1
legislation	lejislashun	1 1 5 1 1 1 1 7 1 1
libation	libashun	1 5 1 1 7 1 1
liberation	liburashun	1 1 1 2 1 7 1 1
ligation	ligashun	1 5 1 1 7 1 1
limitation	limutashun	1 1 1 1 1 1 7 1 1
location	lokashun	1 1 1 1 7 1 1
locomotion	lokumoshun	1 1 1 1 1 1 7 1 1
locution	lokushun	1 1 1 5 7 1 1
lotion	loshun	1 1 7 1 1
malediction	maludikshun	1 1 1 5 1 1 1 7 1 1
malformation	malformashun	1 1 1 1 1 1 1 1 7 1 1
manipulation	munipulashun	1 1 1 1 1 5 1 1 7 1 1
martial	morshul	1 5 1 7 1 1
meditation	medutashun	1 1 1 1 1 1 7 1 1
migration	migrashun	1 5 1 1 1 7 1 1
ministration	minustrashun	1 1 1 1 1 1 1 1 7 1 1
moderation	modurashun	1 1 1 5 1 1 7 1 1
molestation	mulestashun	1 1 1 1 1 1 1 7 1 1
motion	moshun	1 1 7 1 1
nation	nashun	1 1 7 1 1
national	nashunul	1 1 7 1 1 1 1
nationalism	nashunulizm	1 1 7 1 1 1 1 1 5 1

WORD	DECODE	FILTER LEVEL
nationalist	nashunulist	1 1 7 1 1 1 1 1 1 1
nationalistic	nashunulistik	1 1 7 1 1 1 1 1 1 1 1
nationality	nashunalute	1 1 7 1 1 1 1 1 1 1
notation	notashun	1 1 1 1 7 1 1
notion	noshun	1 1 7 1 1
option	opshun	1 1 7 1 1
organization	orgunuzashun	1 1 1 1 1 1 5 1 7 1 1
ovation	ovashun	1 1 1 7 1 1
overproduction	ovurprudukshun	1 1 2 1 1 1 1 1 1 7 1 1
palatial	pulashul	1 1 1 1 7 1 1
partition	partishun	1 1 1 1 1 7 1 1
penetration	penutrashun	1 1 1 5 1 1 1 7 1 1
perdition	purdishun	1 5 1 1 1 7 1 1
peregrination	perugrunashun	1 1 1 5 1 1 1 1 1 7 1 1
perfection	purfekshun	1 5 1 1 1 1 7 1 1
peroration	perurashun	1 1 1 1 1 1 7 1 1
petition	putishun	1 5 1 1 7 1 1
plantation	plantashun	1 1 1 1 1 1 7 1 1
population	populashun	1 1 1 1 1 1 7 1 1
portion	porshun	1 1 1 7 1 1
position	puzishun	1 1 5 1 7 1 1
potion	poshun	1 1 7 1 1
practitioner	praktishunur	1 1 1 1 1 1 7 1 2
predication	predukashun	1 1 1 1 1 1 1 7 1 1
prediction	predikshun	1 1 1 1 1 1 7 1 1

WORD	DECODE	FILTER LEVEL
predilection	prĕdũlekshũn	1 1 1 1 1 1 1 1 7 1 1
premonition	prĕmũnishũn	1 1 1 1 1 1 1 1 7 1 1
preparation	prĕpurashũn	1 1 1 1 1 1 1 1 7 1 1
preposition	prĕpuzishũn	1 1 1 1 1 5 1 7 1 1
prescription	prĕskripshũn	1 1 1 1 1 1 1 1 7 1 1
presentation	prĕzentashũn	1 1 1 5 1 1 1 1 7 1 1
preservation	prĕzurvashũn	1 1 1 5 2 1 1 7 1 1
prestidigitation	prĕstudijutashũn	1 1 1 1 1 1 1 1 5 1 1 1 7 1 1
presumption	prĕzumpshũn	1 1 1 5 1 1 7 1 1
prevention	prĕvenshũn	1 1 1 1 1 1 7 1 1
privation	prĕvashũn	1 1 1 1 1 7 1 1
probation	prĕbashũn	1 1 1 1 1 7 1 1
proclamation	prĕklumashũn	1 1 1 1 1 1 1 1 7 1 1
procreation	prĕkreashũn	1 1 1 1 1 1 1 7 1 1
production	prĕdukshũn	1 1 1 1 1 1 7 1 1
profanation	prĕfunashũn	1 1 1 1 1 1 1 7 1 1
promotion	prĕmōshũn	1 1 1 1 1 7 1 1
propagation	prĕpugashũn	1 1 1 1 1 1 1 7 1 1
proportion	prĕporshũn	1 1 1 1 1 1 7 1 1
proportional	prĕporshũnel	1 1 1 1 1 1 7 1 1 5
proposition	prĕpuzishũn	1 1 1 1 1 5 1 7 1 1
proscription	prĕskripshũn	1 1 1 1 1 1 1 1 7 1 1
protection	prĕtekshũn	1 1 1 1 1 1 7 1 1
protestation	prĕtestashũn	1 1 1 1 1 1 1 1 7 1 1
provocation	prĕvukashũn	1 1 1 1 1 1 1 7 1 1

WORD	DECODE	FILTER LEVEL
publication	publikāshun	1 1 1 1 1 1 1 7 1 1
ration	rāshun	1 1 7 1 1
rational	rāshunel	1 1 7 1 1 5
reaction	rēakshun	1 1 1 1 7 1 1
reactionary	rēakshunārē	1 1 1 1 7 1 1 1 1 1
reclamation	rēklamāshun	1 1 1 1 1 1 1 7 1 1
reconstruction	rēkonstrukshun	1 1 1 1 1 1 1 1 1 1 7 1 1
recreation	rēkreāshun	1 1 1 1 1 1 7 1 1
redemption	rēdempshun	1 1 1 1 1 1 7 1 1
reduction	rēdukshun	1 1 1 1 1 7 1 1
reflection	rēflēkshun	1 1 1 1 1 1 7 1 1
refraction	rēfrakshun	1 1 1 1 1 1 7 1 1
refrigeration	rēfrijerāshun	1 1 1 1 1 5 2 1 7 1 1
regeneration	rēgenerāshun	1 1 1 1 1 2 1 7 1 1
registration	rējistrāshun	1 1 5 1 1 1 1 1 7 1 1
regulation	rēgulāshun	1 1 1 1 1 1 7 1 1
rehabilitation	rēhabilitāshun	1 1 5 1 1 1 1 1 1 1 7 1 1
reincarnation	rēinkarnāshun	1 1 1 1 1 1 1 1 1 7 1 1
relation	rētāshun	1 1 1 1 7 1 1
rendition	rendishun	1 1 1 1 1 7 1 1
reparation	rēparāshun	1 1 1 1 1 1 7 1 1
repetition	repetishun	1 1 1 1 1 1 7 1 1
representation	rēprezentāshun	1 1 1 1 1 5 1 1 1 1 7 1 1
reproduction	rēprūdūkhun	1 1 1 1 1 1 1 1 7 1 1
republication	rēpublikāshun	1 1 1 1 1 1 1 1 1 7 1 1

WORD	DECODE	FILTER LEVEL
reservation	rēsērvāshun	1 1 1 1 1 1 1 7 1 1
resignation	rēsīgnāshun	1 1 1 1 1 1 1 7 1 1
restoration	rēstorāshun	1 1 1 1 1 1 1 7 1 1
restriction	rēstriکشun	1 1 1 1 1 1 1 7 1 1
resumption	rēzumpshun	1 1 5 1 1 1 7 1 1
retardation	rētordāshun	1 1 1 5 1 1 1 7 1 1
retention	rētenshun	1 1 1 1 1 7 1 1
reverberation	rēvurberāshun	1 1 1 5 1 1 2 1 7 1 1
reverential	rēvurenshel	1 1 1 5 1 1 1 7 5
revocation	rēvukāshun	1 1 1 1 1 1 7 1 1
rotation	rōtāshun	1 1 1 1 7 1 1
salvation	sālvāshun	1 1 1 1 1 7 1 1
sanitation	sānitāshun	1 1 1 1 1 1 7 1 1
satisfaction	sātisfakshun	1 1 1 1 1 1 1 1 7 1 1
saturation	saturāshun	1 1 1 1 1 1 7 1 1
secretion	sēkrēshun	1 1 1 1 1 7 1 1
section	sēkshun	1 1 1 7 1 1
sectional	sēkshunel	1 1 1 7 1 1 5
sectionalism	sēkshunelizm	1 1 1 7 1 1 5 1 5 1
sedation	sēdāshun	1 1 1 1 7 1 1
sedition	sēdishun	1 1 1 1 7 1 1
seduction	sēdukshun	1 1 1 1 1 7 1 1
segregation	sēgrugāshun	1 1 1 1 5 1 1 7 1 1
selection	sūlēkshun	1 5 1 1 1 7 1 1
sensation	sēnsāshun	1 1 1 1 1 7 1 1

WORD	DECODE	FILTER LEVEL
sensational	śensāshunel	1 1 1 1 1 7 1 1 5
separation	śepurāshun	1 1 1 1 1 1 7 1 1
stagnation	stagnāshun	1 1 1 1 1 1 7 1 1
starvation	storvāshun	1 1 5 1 1 1 7 1 1
station	stāshun	1 1 1 7 1 1
stationer	stāsh(u)nur	1 1 1 7 1 2
stimulation	stimulāshun	1 1 1 1 5 1 1 7 1 1
stipulation	stipulāshun	1 1 1 1 5 1 1 7 1 1
strangulation	strāngulāshun	1 1 1 1 1 1 5 1 1 7 1 1
subscription	subskripshun	1 1 1 1 1 1 1 1 7 1 1
substantial	substanshul	1 1 1 1 1 1 1 7 1 1
subtraction	subtrakshun	1 1 1 1 1 1 1 7 1 1
tabulation	tabulāshun	1 1 1 5 1 1 7 1 1
temptation	temptāshun	1 1 1 1 1 1 7 1 1
titration	titrāshun	1 5 1 1 1 7 1 1
toleration	tolurāshun	1 1 1 2 1 7 1 1
traction	trakshun	1 1 1 1 7 1 1
tradition	trādīshun	1 1 1 1 1 7 1 1
traditional	trādīshunul	1 1 1 1 1 7 1 1 1 1
transaction	trānsakshun	1 1 1 1 1 1 1 7 1 1
transcription	trānskripshun	1 1 1 1 1 1 1 1 1 7 1 1
transfiguration	trānsfigūrāshun	1 1 1 1 1 1 1 1 5 1 1 7 1 1
transformation	trānsfōrmāshun	1 1 1 1 1 1 1 1 1 1 7 1 1
transition	trānsīshun	1 1 1 1 1 1 7 1 1
translation	trānslāshun	1 1 1 1 1 1 1 7 1 1

WORD	DECODE	FILTER LEVEL
transmigration	trāṣmigrāshun	1 1 1 1 1 1 5 1 1 1 7 1 1
tribulation	tribulāshun	1 1 1 1 5 1 1 7 1 1
unconditional	unkundishunul	1 1 1 1 1 1 1 7 1 1 1 1
vacation	vākāshun	1 1 1 1 7 1 1
valuation	valūāshun	1 1 1 5 7 1 1 1
vegetation	vejutāshun	1 1 5 5 1 1 7 1 1
veneration	venurāshun	1 1 1 2 1 7 1 1
vibration	vibrāshun	1 5 1 1 1 7 1 1
vindication	vindikāshun	1 1 1 1 1 1 1 7 1 1
violation	viulāshun	1 5 1 1 1 7 1 1
visitation	vizutāshun	1 1 5 1 1 1 7 1 1
vituperation	vitupurāshun	1 5 1 5 1 2 1 7 1 1
vivisection	vivusekshun	1 1 1 1 1 1 1 7 1 1
vocation	vokāshun	1 1 1 1 7 1 1
vocational	vokāshunul	1 1 1 1 7 1 1 1 1
volition	vōlishun	1 1 1 1 7 1 1

FILTER EIGHT

WORD	DECODE	FILTER LEVEL
abate	ūbāt	1 1 8 1
abatement	ūbātmunt	1 1 8 1 1 5 1 1
abdicate	ābdikāt	1 1 1 1 1 8 1
abide	ūbīd	1 1 8 1
abrogate	ābrugāt	1 1 1 1 1 8 1
ace	ās	8 1
admire	ādmīr	1 1 1 8 1
adulterate	ūdūltūrāt	1 1 1 1 1 2 8 1
advice	ādvis	1 1 1 8 1
afire	ūfir	1 1 8 1
agape	ūgāp	1 1 8 1
age	āj	8 5
agitate	ājūtāt	1 5 1 1 8 1
ale	āl	8 1
alike	ūlik	1 1 8 5
alive	ūlīv	1 1 8 1
alpine	ālpīn	1 1 1 8 1
alternate	ōlturnāt	5 1 1 2 1 8 1
amalgamate	ūmalgumāt	1 1 1 1 1 1 1 8 1
amputate	āmpūtāt	1 1 1 5 1 8 1
anile	ānil	1 1 8 1
apace	ūpās	1 1 8 1

WORD	DECODE	FILTER LEVEL
ape	āp	8 1
apostate	ūpostāt	1 1 1 1 1 8 1
arbitrate	orbūtrāt	5 1 1 1 1 1 8 1
arcade	orkād	5 1 1 8 1
articulate	ortikulāt	5 1 1 1 1 5 1 8 1
ascribe	uskrib	1 1 1 1 8 1
aside	usid	1 1 8 1
aspire	āspir	1 1 1 8 1
astride	ūstrid	1 1 1 1 8 1
astrolabe	āstrulāb	1 1 1 1 1 1 8 1
ate	āt	1 8
awake	ūwak	1 5 8 5
babe	bāb	1 8 1
bagpipe	bagpīp	1 1 1 1 8 1
bake	bāk	1 8 5
baseball	bāsbōl	1 8 1 1 5 2
basement	bāsmunt	1 8 1 1 5 1 1
baseness	bāsnus	1 8 1 1 5 2
baste	bāst	1 8 1 1
bate	bāt	1 8 1
bedside	bedsid	1 1 1 1 8 1
bide	bīd	1 8 1
bile	bīl	1 8 1

WORD	DECODE	FILTER LEVEL
blade	bīād	1 1 8 1
bonfire	bonfir	1 1 1 1 8 1
brace	brās	1 1 8 1
brake	brāk	1 1 8 5
brave	brāv	1 1 8 1
bribe	brib	1 1 8 1
bride	brīd	1 1 8 1
brigade	brigād	1 1 1 1 8 1
brine	brīn	1 1 8 1
brocade	brōkād	1 1 1 1 8 1
bromide	brōmīd	1 1 1 1 8 1
butane	būtān	1 5 1 8 1
cage	kāj	1 8 5
cake	kāk	1 8 5
calculate	kalkūlāt	1 1 1 1 5 1 8 1
canine	kānīn	1 1 1 8 1
cape	kāp	1 8 1
capsulate	kapūlāt	1 1 1 1 1 1 8 1
carbine	korbīn	1 5 1 1 8 1
cascade	kaskād	1 1 1 1 8 1
castrate	kāstrāt	1 1 1 1 1 8 1
catlike	kātlik	1 1 1 1 8 5
cavalcade	kavulkād	1 1 1 1 1 1 8 1
cave	kāv	1 8 1
clime	klim	1 1 8 1

WORD	DECODE	FILTER LEVEL
coagulate	kōagūlāt	1 1 1 1 5 1 8 1
cogitate	kogitāt	1 1 1 1 1 8 1
cognate	kognāt	1 1 1 1 8 1
columbine	kolumbīn	1 1 1 1 1 1 8 1
combine	kumbīn	1 1 1 1 8 1
compensate	kompensāt	1 1 1 1 1 1 1 8 1
compile	kumpil	1 1 1 1 8 1
complicate	komplikāt	1 1 1 1 1 1 1 8 1
concatenate	konkātēnāt	1 1 1 1 1 1 1 1 8 1
concave	konkāv	1 1 1 1 8 1
conclave	konklāv	1 1 1 1 1 8 1
confabulate	kunfabulāt	1 1 1 1 1 1 5 1 8 1
confide	konfid	1 1 1 1 8 1
confine	konfin	1 1 1 1 8 1
confiscate	konfiskāt	1 1 1 1 1 1 1 8 1
congregate	kongregāt	1 1 1 1 1 1 1 8 1
consecrate	konsekrāt	1 1 1 1 1 1 1 8 1
conspire	konspir	1 1 1 1 1 8 1
consulate	konsulāt	1 1 1 1 1 1 8 1
contrive	kuntriv	1 1 1 1 1 8 1
cooperate	kōoperāt	1 1 1 1 2 8 1
cordate	kōrdāt	1 1 1 1 8 1
corporate	kōrporāt	1 1 1 1 1 1 8 1
crape	krāp	1 1 8 1
crate	krāt	1 1 8 1

WORD	DFCODE	FILTER LEVEL
crave	krāv	1 1 8 1
create	krēāt	1 1 1 8 1
cremate	krēmāt	1 1 1 1 8 1
crime	krīm	1 1 8 1
dainty	dāntē	1 8 1 1 1
date	dāt	1 8 1
debate	dēbat	1 1 1 8 1
debilitate	dēbilitāt	1 1 1 1 1 1 1 8 1
decade	dēkad	1 1 1 8 1
decapitate	dēkapitāt	1 1 1 1 1 1 1 8 1
decline	dēklin	1 1 1 1 8 1
decorate	dēkerāt	1 1 1 2 8 1
dedicate	dēdikāt	1 1 1 1 1 8 1
deface	dēfās	1 1 1 8 1
defecate	dēfekāt	1 1 1 1 1 8 1
defile	dēfil	1 1 1 8 1
define	dēfin	1 1 1 8 1
deflate	dēflāt	1 1 1 1 8 1
degenerate	dējenerāt	1 1 5 1 1 2 8 1
degrade	dēgrād	1 1 1 1 8 1
delegate	dēlegāt	1 1 1 1 1 8 1
deliberate	dēliberāt	1 1 1 1 1 2 8 1
delineate	dēlineāt	1 1 1 1 1 1 8 1
demarcate	dēmorkāt	1 1 1 5 1 1 8 1
demonstrate	dēmōstrāt	1 1 1 1 1 1 1 1 8 1

WORD	DECODE	FILTER LEVEL
denigrate	denigrāt	1 1 1 1 1 1 8 1
deprave	deprāv	1 1 1 1 8 1
deprecate	deprekāt	1 1 1 1 1 1 8 1
depredate	depredāt	1 1 1 1 1 1 8 1
deprive	depriv	1 1 1 1 8 1
deride	derid	1 1 1 8 1
derive	deriv	1 1 1 8 1
derogate	derugat	1 1 1 1 1 8 1
describe	deskrib	1 1 1 1 1 8 1
deseccrate	desekrat	1 1 1 1 1 1 8 1
deseccregate	deseccregat	1 1 1 1 1 1 1 1 8 1
designate	designāt	1 1 1 1 1 1 8 1
desire	dezir	1 1 5 8 1
detonate	detunāt	1 1 1 1 1 8 1
devalue	devaluāt	1 1 1 1 1 5 8 1
devastate	devastāt	1 1 1 1 1 1 8 1
deviate	deveāt	1 1 1 1 8 1
device	devis	1 1 1 8 1
dice	dis	1 8 1
dictate	diktāt	1 1 1 1 8 1
dike	dik	1 5 8
dilate	dilat	1 5 1 8 1
dime	dim	1 8 1
dine	din	1 8 1
disengage	disengāj	1 1 1 1 1 1 8 5

WORD	DECODE	FILTER LEVEL
disgrace	disgrās	1 1 1 1 1 8 1
disintegrate	disintugrāt	1 1 1 1 1 1 5 1 1 8 1
dislike	dislik	1 1 1 1 8 5
dislocate	dislōkāt	1 1 1 1 1 1 8 1
displace	displās	1 1 1 1 1 8 1
distaste	distast	1 1 1 1 8 1 1
distasteful	distāstful	1 1 1 1 8 1 1 1 1 1
divagate	divūgāt	1 5 1 1 1 8 1
divaricate	divarukāt	1 5 1 1 1 1 1 8 1
dive	div	1 8 1
domesticate	dumestikāt	1 1 1 1 1 1 1 1 8 1
donate	donāt	1 1 1 8 1
drake	drāk	1 1 8 5
drape	drāp	1 1 8 1
drive	driv	1 1 8 1
eglantine	ēgluntīn	1 1 1 1 1 1 8 1
elevate	eluvāt	1 1 5 1 8 1
emanate	emunāt	1 1 1 1 8 1
emulate	emulāt	1 1 1 1 8 1
enclave	enklāv	1 1 1 1 8 1
energize	enurjiz	1 1 5 1 5 8 5
engage	engāj	1 1 1 8 5
entertainment	entertāinmunt	1 1 1 5 1 8 1 1 5 1 1
estate	estāt	1 1 1 8 1
eventide	ēvuntid	1 1 5 1 1 8 1

WORD	DECODE	FILTER LEVEL
evacuate	ēvakūat	1 1 1 1 1 8 1
evaluate	ēvalūat	1 1 1 1 1 8 1
evaporate	ēvapūrāt	1 1 1 1 1 1 8 1
fabricate	fābrīkāt	1 1 1 1 1 1 8 1
face	fās	1 8 1
fade	fād	1 8 1
fake	fāk	1 8 1
fate	fāt	1 8 1
feline	fēlīn	1 1 1 8 1
female	fēmāl	1 1 1 8 1
fife	fīf	1 8 1
file	fīl	1 8 1
filtrate	fīltrāt	1 1 1 1 1 8 1
fine	fīn	1 8 1
fire	fīr	1 8 1
fireside	fīrsīd	1 5 1 1 8 1
flake	fīlāk	1 1 8 5
foreside	fōrsīd	1 1 1 1 8 1
forgave	fōrgāv	1 1 1 1 8 1
formulate	fōrmulāt	1 1 1 1 5 1 8 1
forsake	fōrāk	1 1 1 1 8 5
frustrate	fīstrāt	1 1 1 1 1 1 8 1
gape	gāj	1 8 5
gamester	gāmstūr	1 8 1 1 1 2
gape	gāp	1 8 1

WORD	DECODE	FILTER LEVEL
gate	gāt	1 8 1
gave	gāv	1 8 1
generate	ĵenurāt	5 1 1 2 8 1
gentile	ĵentīl	5 1 1 1 8 1
gibe	ĵīb	5 8 1
glade	glād	1 1 8 1
glide	glīd	1 1 8 1
godlike	ĝodlik	1 1 1 1 8 5
grace	grās	1 1 8 1
grade	grād	1 1 8 1
grange	grānj	1 1 8 1 5
grapevine	grāpvīn	1 1 8 1 1 8 1
grate	grāt	1 1 8 1
grateful	grātful	1 1 8 1 1 1 1
grave	grāv	1 1 8 1
grenade	ĝrenād	1 1 1 1 8 1
grime	grīm	1 1 8 1
gripe	grīp	1 1 8 1
habilitate	habilitāt	5 1 1 1 1 1 1 8 1
handmade	hādmād	5 1 1 1 1 8 1
hate	hāt	5 8 1
hesitate	hezutāt	5 1 1 1 1 8 1
hibernate	hiburnāt	5 1 1 5 1 1 8 1
hide	hid	5 8 1
hike	hīk	5 8 5

WORD	DECODE	FILTER LEVEL
hive	hiv̄	5 8 1
imitate	imutāt	1 1 1 1 8 1
implicate	implukāt	1 1 1 1 1 1 8 1
impregnate	impregnāt	1 1 1 1 1 1 1 8 1
inane	inān	1 1 8 1
inaugurate	inugurat	1 1 1 1 1 1 8 1
incarnate	inkarnāt	1 1 5 1 1 1 8 1
incline	inklin	1 1 1 1 8 1
incubate	inkubāt	1 1 1 1 1 8 1
indicate	indukāt	1 1 1 1 1 8 1
indoctrinate	indoktrināt	1 1 1 1 1 1 1 1 1 8 1
inebriate	inebriāt	1 1 1 1 1 1 8 1
infantile	infuntīl	1 1 1 1 1 1 8 1
inflate	inflāt	1 1 1 1 8 1
ingrate	ingrāt	1 1 1 1 8 1
ingratiante	ingrāsheāt	1 1 1 1 1 7 1 1 8 1
inmate	inmāt	1 1 1 8 1
innate	ināt	1 1 8 1
inoculate	inokulāt	1 1 1 1 5 1 8 1
inscribe	inskrīb	1 1 1 1 1 8 1
insensate	insensāt	1 1 1 1 1 1 8 1
inside	insid	1 1 1 8 1
insolate	insolāt	1 1 1 1 1 8 1
inspire	inspir	1 1 1 1 8 1
insulate	insulāt	1 1 1 1 1 8 1

WORD	DECODE	FILTER LEVEL
intake	intāk	1 1 1 8 1
integrate	intugrāt	1 1 1 5 1 1 8 1
interlace	inturlās	1 1 1 2 1 8 1
interpolate	inturpulāt	1 1 1 2 1 1 1 8 1
interstate	inturstāt	1 1 1 2 1 1 8 1
inundate	inundāt	1 1 1 1 1 8 1
invade	invād	1 1 1 8 1
inverttebrate	invertubrāt	1 1 1 2 1 5 1 1 8 1
inviolata	inviulāt	1 1 1 5 1 1 8 1
iodine	iudin	5 1 1 8 1
irate	irāt	5 1 8 1
ire	ir	8 1
isolate	isulāt	5 1 1 1 8 1
itinerate	itinurāt	5 1 1 1 2 8 1
lace	lās	1 8 1
lake	lāk	1 8 5
landscape	landskāp	1 1 1 1 1 1 8 1
late	lāt	1 8 1
lave	lāv	1 8 1
legalize	lēguliz	1 1 1 1 1 8 1
legerdemain	ležurdumān	1 1 5 5 1 1 5 1 8 1
legislate	lejislat	1 1 5 1 1 1 8 1
levitate	levutāt	1 1 1 1 1 8 1
liberate	liburāt	1 1 1 2 8 1
lice	lis	1 8 1

WORD	DECODE	FILTER LEVEL
life	līf	1 8 1
like	lik	1 8 1
lime	līm	1 8 1
line	līn	1 8 1
live	liv	1 8 1
lively	līvli	1 8 1 1 1
localize	lōkulīz	1 1 1 1 1 8 1
locate	lōkāt	1 1 1 8 1
mace	mās	1 8 1
made	mād	1 8 1
magistrate	mājustrāt	1 1 5 1 1 1 1 8 1
magnate	magnāt	1 1 1 1 8 1
make	mak	1 8 1
mandate	mandāt	1 1 1 1 8 1
manipulate	munipulāt	1 1 1 1 1 5 1 8 1
maritime	marutīm	1 1 1 1 1 8 1
marmalade	mormulād	1 5 1 1 1 1 8 1
masticate	mastukāt	1 1 1 1 1 1 8 1
mate	māt	1 8 1
meditate	medūtāt	1 1 1 1 1 8 1
membrane	membrān	1 1 1 1 1 8 1
mice	mis	1 8 1
midwife	midwif	1 1 1 5 8 1
migrate	migrāt	1 5 1 1 8 1
mile	mil	1 8 1

WORD	DECODE	FILTER LEVEL
mine	mīn	1 8 1
misplace	mīsplās	1 1 1 1 1 8 1
mistake	mīstāk	1 1 1 1 8 5
moderate	mōdurāt	1 1 1 5 1 8 1
mundane	mūndān	1 1 1 1 8 1
namesake	nāmsāk	1 8 1 1 8 5
nape	nāp	1 8 1
nave	nāv	1 8 1
nice	nīs	1 8 1
nine	nīn	1 8 1
nitrate	nītrāt	1 5 1 1 8 1
oblige	ublij	1 1 1 8 5
obliterate	ublītūrāt	1 1 1 1 1 5 1 8 1
octave	oktāv	1 1 1 8 1
ogive	ōjiv	1 5 8 1
operate	ōpurāt	1 1 5 1 8 1
opine	ōpīn	1 1 8 1
ornate	ōrnāt	1 1 1 8 1
osculate	ōskulāt	1 1 1 1 1 8 1
overlay	ōvurlā	1 1 5 1 1 8
overrate	ōvurrāt	1 1 2 1 8 1
override	ōvurrīd	1 1 2 1 8 1
overtake	ōvurtāk	1 1 2 1 8 5
overtime	ōvurtīm	1 1 2 1 8 1
page	pāj	1 8 5

WORD	DECODE	FILTER LEVEL
palmate	pālmāt	1 1 1 1 8 1
palpitate	pālpūtāt	1 1 1 1 1 1 8 1
pancake	pānkāk	1 1 1 1 8 5
pantomine	pāntumīn	1 1 1 1 1 1 8 1
parade	pārād	1 1 1 8 1
paradise	pārūdis	1 1 1 1 1 8 1
partake	pōrtāk	1 5 1 1 8 5
paste	pāst	1 8 1 1
pastime	pāstīm	1 1 1 1 8 1
pate	pāt	1 8 1
pave	pāv	1 8 1
pavement	pāvunt	1 8 1 1 5 1 1
perforate	pūrforāt	1 5 1 1 1 1 8 1
permeate	pūrmeāt	1 5 1 1 1 8 1
perpetrate	pūrputrāt	1 5 1 1 5 1 1 8 1
perspire	pūrspi(u)r	1 5 1 1 1 8 1
pervade	pūrvād	1 5 1 1 8 1
pike	pīk	1 8 5
pile	pīl	1 8 1
pine	pīn	1 8 1
pipe	pīp	1 8 1
placate	plākāt	1 1 1 1 8 1
place	plās	1 1 8 1
plate	plāt	1 1 8 1
pomade	pōmād	1 1 1 8 1

WORD	DECODE	FILTER LEVEL
populace	populās	1 1 1 1 1 8 1
populate	populāt	1 1 1 1 1 8 1
porcupine	porcupin	1 1 1 1 1 1 8 1
potentate	pōtuntāt	1 1 1 5 1 1 8 1
prate	prāt	1 1 8 1
premeditate	prēmēdūtāt	1 1 1 1 1 1 1 1 8 1
prescribe	preskrib	1 1 1 1 1 1 8 1
preside	prezid	1 1 1 5 8 1
pride	prid	1 1 8 1
price	pris	1 1 8 1
prime	prim	1 1 8 1
primate	primāt	1 1 5 1 8 1
probate	probāt	1 1 1 1 8 1
profile	profil	1 1 1 1 8 1
prognosticate	prōgnostikāt	1 1 1 1 1 1 1 1 1 1 8 1
proliferate	prōliferāt	1 1 1 1 1 1 2 8 1
promulgate	prumulgāt	1 1 1 1 1 1 1 8 1
propagate	propugāt	1 1 1 1 1 1 8 1
proportionate	prūporshunāt	1 1 1 1 1 1 7 1 1 8 1
proscribe	pruskrib	1 1 1 1 1 1 8 1
prostrate	prostrāt	1 1 1 1 1 1 8 1
provide	pruvīd	1 1 1 1 8 1
race	rās	1 8 1
rake	rāk	1 8 5
rampage	rampāj	1 1 1 1 8 5

WORD	DECODE	FILTER LEVEL
rape	rāp	1 8 1
rate	rāt	1 8 1
rattlesnake	rātelsnāk	1 1 2 5 1 1 8 5
rave	rāv	1 8 1
rebate	rēbat	1 1 1 8 1
recline	rēklin	1 1 1 1 8 1
refine	rēfin	1 1 1 8 1
refrigerate	rēfrijerāt	1 1 1 1 1 5 2 8 1
regenerate	rējenerāt	1 1 1 5 1 2 8 1
rehabilitate	rēhabilūtāt	1 1 5 1 1 1 1 1 1 8 1
reinstate	rēinstāt	1 1 1 1 1 1 8 1
reinterate	rēiterāt	1 1 1 1 2 8 1
relate	rēlāt	1 1 1 8 1
relegate	rēlugāt	1 1 1 5 1 8 1
remonstrate	rēmonstrāt	1 1 1 1 1 1 1 1 8 1
renegade	rēnugād	1 1 1 5 1 8 1
renovate	rēnovāt	1 1 1 1 1 8 1
repine	rēpīn	1 1 1 8 1
replace	rēplās	1 1 1 1 8 1
reprobate	rēprobāt	1 1 1 1 1 1 8 1
reside	rēsīd	1 1 1 8 1
retake	rētāk	1 1 1 8 5
retire	rētīr	1 1 1 8 1
retrace	rētrās	1 1 1 1 8 1
retrograde	rētrogrād	1 1 1 1 1 1 1 8 1

WORD	DECODE	FILTER LEVEL
reverberate	re [˘] ver [˘] bur [˘] at	1 1 1 2 1 5 1 8 1
revile	re [˘] vil	1 1 1 8 1
revive	re [˘] viv	1 1 1 8 1
rice	ri [˘] s	1 8 1
ride	ri [˘] d	1 8 1
rife	ri [˘] f	1 8 1
rime	ri [˘] m	1 8 1
ripe	ri [˘] p	1 8 1
riverside	ri [˘] vers [˘] id	1 1 1 2 1 8 1
rotate	ro [˘] t [˘] at	1 1 1 8 1
safe	s [˘] af	1 8 1
safety	s [˘] afte	1 8 1 1 1
sage	s [˘] aj	1 8 5
sake	s [˘] ak	1 8 1
sate	s [˘] at	1 8 1
satire	sa [˘] ti [˘] r	1 1 1 8 1
saturate	sa [˘] tu [˘] ra [˘] t	1 1 1 1 1 8 1
save	s [˘] av	1 8 1
scrape	sk [˘] ra [˘] p	1 1 1 8 1
scribe	sk [˘] ri [˘] b	1 1 1 8 1
sedate	se [˘] da [˘] t	1 1 1 8 1
segregate	se [˘] gru [˘] ga [˘] t	1 1 1 1 5 1 8 1
senile	se [˘] ni [˘] l	1 1 1 8 1
separate	se [˘] pu [˘] ra [˘] t	1 1 1 1 1 8 1
side	si [˘] d	1 8 1

WORD	DECODE	FILTER LEVEL
silicate	silukāt	1 1 1 1 1 8 1
simulate	simūlāt	1 1 1 5 1 8 1
sine	sin	1 8 1
sire	sir	1 8 1
slake	slāk	1 1 8 5
slate	slāt	1 1 8 1
slave	slāv	1 1 8 1
slice	slis	1 1 8 1
slide	slid	1 1 8 1
slime	slim	1 1 8 1
snake	snāk	1 1 8 5
snide	snid	1 1 8 1
snipe	snip	1 1 8 1
space	spās	1 1 8 1
spade	spād	1 1 8 1
spice	spis	1 1 8 1
spike	spik	1 1 8 5
spine	spin	1 1 8 1
spire	spir	1 1 8 1
splice	splis	1 1 1 8 1
stage	stāj	1 1 8 5
stake	stāk	1 1 8 5
staminate	stāmunāt	1 1 1 1 1 1 8 1
state	stāt	1 1 8 1
stately	statlē	1 1 8 1 1 1

WORD	DECODE	FILTER LEVEL
statement	stāt̄mūn̄t̄	1 1 8 1 1 5 1 1
stave	stāv	1 1 8 1
stile	stīl	1 1 8 1
stimulate	stīmūlāt	1 1 1 1 5 1 8 1
stipulate	stīpūlāt	1 1 1 1 5 1 8 1
strafe	strāf	1 1 1 8 1
stride	strīd	1 1 1 8 1
strife	strīf	1 1 1 8 1
strike	strīk	1 1 1 8 5
stripe	strīp	1 1 1 8 1
stive	strīv	1 1 1 8 1
sublime	sublīm	1 1 1 1 8 1
subscribe	subskrib	1 1 1 1 1 1 8 1
sulfanilamide	sulfūnīlūmīd	1 1 1 1 1 1 1 1 1 1 8 1
sulfate	sulfāt	1 1 1 1 8 1
sulfide	sulfīd	1 1 1 1 8 1
swire	swīn	1 5 8 1
tabulate	tābulāt	1 1 1 5 1 8 1
take	tāk	1 8 5
tape	tāp	1 8 1
taste	tāst	1 8 1 1
testate	tēstāt	1 1 1 1 8 1
tide	tīd	1 8 1
tile	tīl	1 8 1
time	tīm	1 8 1

WORD	DECODE	FILTER LEVEL
tirade	tīrād	1 5 1 8 1
tire	tīr	1 8 1
tolerate	tōlurāt	1 1 1 2 8 1
trace	trās	1 1 8 1
tractate	trāktāt	1 1 1 1 1 8 1
trade	trād	1 1 8 1
transcribe	trānskrib	1 1 1 1 1 1 1 8 1
translate	trānslāt	1 1 1 1 1 1 8 1
transliterate	trānsliterāt	1 1 1 1 1 1 1 1 2 8 1
transpire	trānspīr	1 1 1 1 1 1 8 1
tribe	trib	1 1 8 1
twice	twīs	1 5 8 1
twine	twīn	1 5 8 1
umpire	ūmpīr	1 1 1 8 1
underline	ūnderlīn	1 1 1 2 1 8 1
undermine	ūndermīn	1 1 1 2 1 8 1
underside	ūndersīd	1 1 1 2 1 8 1
undertake	ūndertāk	1 1 1 2 1 8 5
ungulate	ūngulāt	1 1 1 5 1 8 1
unlace	ūnlās	1 1 1 8 1
unlike	ūnlīk	1 1 1 8 5
unripe	ūnrīp	1 1 1 8 1
upside	ūpsīd	1 1 1 8 1
vacate	vākāt	1 1 1 8 1
valentine	valuntīn	1 1 1 5 1 1 8 1

WORD	DECODE	FILTER LEVEL
vampire	vāmpīr	1 1 1 1 8 1
venerate	vēnurāt	1 1 1 2 8 1
vertebrate	vurtubrāt	1 2 1 5 1 1 8 1
vibrate	vībrāt	1 5 1 1 8 1
vice	vīs	1 8 1
vile	vīl	1 8 1
vindicate	vīndukāt	1 1 1 1 1 1 8 1
vine	vīn	1 8 1
wade	wād	5 8 1
wage	wāj	5 8 5
wake	wāk	5 8 5
warlike	worlik	5 5 1 1 8 5
wartime	wortim	5 5 1 1 8 1
waste	wāst	5 8 1 1
wasteful	wāstful	5 8 1 1 1 1 1
wave	wāv	5 8 1
wide	wīd	5 8 1
wife	wīf	5 8 1
wildfire	wīldfir	5 5 1 1 1 8 1
wile	wīl	5 8 1
windpipe	wīndpip	5 1 1 1 1 8 1
wine	wīn	5 8 1
wipe	wīp	5 8 1
wire	wīr	5 8 1

FILTER NINE

WORD	DECODE	FILTER LEVEL
actuality	ákchúáíúí	1 1 9 1 1 1 1 1 1
agonize	ágúniz	1 1 1 1 8 9
altruistic	áítróóístik	1 1 1 1 9 1 1 1 1 1
angler	ángglúr	1 9 1 1 2
angrily	ánggrúí	1 9 1 1 1 1 1
angry	ánggrí	1 9 1 1 1
ankle	ángkul	1 9 5 5
anklet	ángklút	1 9 5 1 5 1
antagonize	ántágúniz	1 1 1 1 1 1 1 8 9
apex	ápéks	1 1 1 9
apologize	úpolújiz	1 1 1 1 1 5 8 9
apoplexy	ápúplékse	1 1 1 1 1 1 9 1
ax	áks	1 9
axil	áksul	1 9 1 1
axle	áksul	1 9 5
banjo	banjō	1 1 1 9 1
bank	bangk	1 1 9 5
banker	bangkúr	1 1 9 5 2
bankrupt	bangkrúpt	1 1 9 5 1 1 1 1
baptize	báptiz	1 1 1 1 8 9
barbaric	börberík	1 5 1 1 9 1 1 1
blank	blánk	1 1 1 9 5

WORD	DECODE	FILTER LEVEL
blanket	blāngkūt	1 1 1 9 5 5 1
bobolink	bōbūlīngk	1 1 1 1 1 1 9 5
borax	bōraks	1 1 1 1 9
botulism	bōchulīzm	1 1 9 1 1 1 5 1
box	bōks	1 1 9
boxer	bōksūr	1 1 9 2
brink	brīngk	1 1 1 9 5
by	bī	1 9
capitalize	kāpītulīz	1 1 1 1 1 1 1 8 9
capsize	kāpsīz	1 1 1 1 8 9
carat	kērēt	1 9 1 9 1
caravan	kēruvan	1 9 1 1 1 1 1
cardigan	kōrdīgen	1 5 1 1 1 1 9 1
caret	kērēt	1 9 1 1 1
castanet	kāstēnēt	1 1 1 1 9 1 1 1
caterize	kātūrīz	1 1 1 2 8 9
climax	klimāks	1 1 5 1 1 9
colonization	kōlunīzāshun	1 1 1 1 1 1 9 1 7 1 1
colonize	kōlunīz	1 1 1 1 1 8 9
compare	kūmpēr	1 1 1 1 9 1
complementary	kōmplēmētērē	1 1 1 1 1 1 1 1 1 1 9 1 1
complex	kōmplēks	1 1 1 1 1 1 9
complexity	kōmplēksīte	1 1 1 1 1 1 9 1 1 1
compliance	kōmplīēns	1 1 1 1 1 5 9 1 1
comply	kūmplī	1 1 1 1 1 9

WORD	DECODE	FILTER LEVEL
concomitant	kũnkõmitẽnt	1 1 1 1 1 1 1 1 9 1 1
conduce	kũndõõs	1 1 1 1 9 1
concordant	kũnkõrdẽnt	1 1 1 1 1 1 1 9 1 1
conflagration	kũnflẽgrashũn	1 1 1 1 1 9 1 1 1 7 1 1
confluence	kũnflõõẽns	1 1 1 1 1 9 1 1 1
congratulation	kũngráchũlãshũn	1 1 1 1 1 1 9 5 1 1 7 1 1
congruity	kũngroõitẽ	1 1 1 1 1 9 1 1 1
constituent	kũnstichũẽnt	1 1 1 1 1 1 9 5 1 1 1
constitution	kũnstitõõshũn	1 1 1 1 1 1 1 9 7 1 1
constitutional	kũnstitõõshũnũl	1 1 1 1 1 1 1 9 7 1 1 1 1
consonant	kũnkõũnẽnt	1 1 1 1 1 1 9 1 1
contemptuous	kũntẽmpchũũs	1 1 1 1 1 1 1 9 5 9 1
context	kũntẽkst	1 1 1 1 1 9 1
continuance	kũntĩnuẽns	1 1 1 1 1 1 5 9 1 1
contractual	kũntrãkchũl	1 1 1 1 1 1 1 9 1 1
contradictory	kũntrãdĩktõrẽ	1 1 1 1 1 1 1 1 1 1 9 1
contrivance	kũntrĩvẽns	1 1 1 1 1 5 9 1 1
conversant	kũnversẽnt	1 1 1 1 2 1 9 1 1
convex	kũnvẽks	1 1 1 1 1 9
convolution	kũnvũlõõshũn	1 1 1 1 1 1 9 7 1 1
cordage	kũrdẽj	1 1 1 1 9 5
cortex	kũrtẽks	1 1 1 1 1 9
cravat	kũrãvẽt	1 1 1 1 9 1
cruel	kũroõel	1 1 9 5
cruelty	kũroõelte	1 1 9 5 1 1

WORD	DECODE	FILTER LEVEL
crusade	kr̄oos̄ad	1 1 9 1 8 1
decry	d̄ekr̄i	1 1 1 1 9
defiance	d̄efīens	1 1 1 5 9 1 1
defiant	d̄efīent	1 1 1 5 9 1 1
defy	d̄efī	1 1 1 9
demi john	d̄emīj̄on	1 1 1 1 9 1 1
demoralize	d̄emor̄uliz	1 1 1 1 1 1 1 8 9
dexter	d̄ekster	1 1 9 1 2
dexterity	d̄eksterite	1 1 9 1 1 1 1 1 1
dioxide	d̄ioksid	1 5 1 9 8 1
disjointed	d̄isj̄ointud	1 1 1 9 1 1 1 1 5 1
disorganize	d̄isorḡuniz	1 1 1 1 1 1 1 1 8 9
dissatisfy	d̄isat̄usfi	1 1 2 1 1 1 1 1 9
diuretic	d̄iōoretik	1 5 9 1 1 1 1 1
doxology	d̄oks̄olūje	1 1 9 1 1 1 5 1
drank	dr̄angk	1 1 1 9 5
drink	dr̄ingk	1 1 1 9 5
drinker	dr̄ingker	1 1 1 9 1 2
druid	dr̄ooud	1 1 9 1 1
drunk	dr̄ungk	1 1 1 9 5
drunken	dr̄ungk̄un	1 1 1 9 5 5 1
dual	d̄(y)oōul	1 9 1 1
dualism	d̄(y)oōul̄iz̄um	1 9 1 1 1 5 1 1
ducal	d̄(y)oōk̄ul	1 9 1 1 1
due	d̄(u)oō	1 9

WORD	DECODE	FILTER LEVEL
duel	d(y)ooŭl	1 9 5 1
duet	d(y)ooëŧ	1 9 1 1
dung	dũng	1 1 9
dunghill	dũnghĩl	1 1 9 5 1 2
durability	doorũbilũte	1 9 1 1 1 1 1 1 1 1
duration	doorashũn	1 9 1 1 7 1 1
duress	doorës	1 9 1 1 2
enjoy	enjoi	1 1 9 1 1
epicurean	epikooreũn	1 1 1 1 9 1 1 1 1
espy	espi	1 1 1 9
evening	evũning	1 1 5 1 1 9
eventual	evẽnchũal	1 1 1 1 9 1 1 1
exact	eksãkt	1 9 1 1 1
exaction	eksãkshũn	1 9 1 1 7 1 1
exactly	eksãktle	1 9 1 1 1 1 1
exactness	eksãktnũs	1 9 1 1 1 1 5 2
exalt	eksõlt	1 9 5 1 1
exaltation	eksõltashũn	1 9 1 1 1 1 5 1 1
examiner	eksãmũner	1 9 1 1 1 1 2
exclamation	eksklumashũn	1 9 1 1 1 1 1 7 1 1
excrement	ekskrumũnt	1 9 1 1 5 1 5 1 1
excretion	ekskreashũn	1 9 1 1 1 7 1 1
execration	eksukrashũn	1 9 1 1 1 1 7 1 1
exemplary	eksemplore	1 9 1 1 1 1 1 1 1
exhalation	eksulashũn	1 9 1 1 1 7 1 1

WORD	DECODE	FILTER LEVEL
exhaust	ěksǒst	1 9 1 1 1
exhilarate	ěksilurát	1 9 1 1 1 1 8 1
exhilaration	ěksilurashun	1 9 1 1 1 1 1 7 1 1
exhort	ěksort	1 9 1 1 1
exhortation	ěksortashun	1 9 1 1 1 1 7 1 1
exile	ěkszil	1 9 5 8 1
existence	ěksistuns	1 9 1 1 1 5 1 1
exogamy	ěksogume	1 9 1 1 1 1 1
exorbitant	ěksorbutunt	1 9 1 1 1 1 1 1 1 1
exoteric	ěksüterik	1 9 1 1 1 1 1 1
exotic	ěksotik	1 9 1 1 1 1
expand	ěkspánd	1 9 1 1 1 1
expansive	ěkspánsiv	1 9 1 1 1 1 1 1
expect	ěkspěkt	1 9 1 1 1 1
expectant	ěkspěktunt	1 9 1 1 1 1 1 1 1
expectation	ěkspěktashun	1 9 1 1 1 1 1 7 1 1
expectorate	ěkspěkturát	1 9 1 1 1 1 1 1 8 1
expedition	ěkspudishun	1 9 1 5 1 1 7 1 1
expend	ěkspěnd	1 9 1 1 1 1
expenditure	ěkspěndicher	1 9 1 1 1 1 1 9 2
expert	ěkspurt	1 9 1 5 1 1
explanation	ěksplúnashun	1 9 1 1 1 1 1 7 1 1
exploit	ěksplóit	1 9 1 1 1 1 1
exploitation	ěksplóitashun	1 9 1 1 1 1 1 1 7 1 1
exploration	ěksplúrashun	1 9 1 1 1 1 1 7 1 1

WORD	DECODE	FILTER LEVEL
explorer	ěksplōrer	1 9 1 1 1 1 2
exponent	ěksponūnt	1 9 1 1 1 5 1 1
export	ěksspōrt	1 9 1 1 1 1 1
exporter	ěkspōrter	1 9 1 1 1 1 2
exposition	ěkspūšishūn	1 9 1 1 1 1 7 1 1
expository	ěkspōzūtōrē	1 9 1 1 5 1 1 1 1 1
expostulate	ěkspōschūlāt	1 9 1 1 1 9 1 1 8 1
expostulation	ěkspōschūlāshūn	1 9 1 1 1 9 1 1 1 7 1 1
express	ěksprēs	1 9 1 1 1 2
extant	ěkstunt	1 9 1 1 1 1
extend	ěkstēnd	1 9 1 1 1 1
extended	ěkstēndūd	1 9 1 1 1 1 5 1
extent	ěkstēt	1 9 1 1 1 1
external	ěkstūrnēl	1 9 1 5 1 1 5
extort	ěkstōrt	1 9 1 1 1 1
extortion	ěkstōrshūn	1 9 1 1 1 7 1 1
extra	ěkstrū	1 9 1 1 1
extract	ěkstrākt	1 9 1 1 1 1 1
extraction	ěkstrākshūn	1 9 1 1 1 1 7 1 1
extradition	ěkstrūdishūn	1 9 1 1 1 1 1 7 1 1
extrapolate	ěkstrāpūlāt	1 9 1 1 1 1 1 1 8 1
extremity	ěkstrēmīte	1 9 1 1 1 1 1 1 1
extricate	ěkstrūkat	1 9 1 1 1 1 8 1
extrinsic	ěkstrīnzīk	1 9 1 1 1 1 5 1 1
extrovert	ěkstrūvūrt	1 9 1 1 1 1 5 1 1

WORD	DECODE	FILTER LEVEL
exult	eksult	1 9 1 1 1
exultant	eksultunt	1 9 1 1 1 1 1 1
exultation	eksultashun	1 9 1 1 1 1 7 1 1
fix	fiks	1 1 9
fixedly	fiksedly	1 1 9 1 1 1 1
flax	flaks	1 1 1 9
flaxen	flaksen	1 1 1 9 1 1
flex	flëks	1 1 1 9
fluent	flooënt	1 1 9 1 1 1
fluid	flood	1 1 9 1 1
fly	fli	1 1 9
fox	foks	1 1 9
foxy	fokse	1 1 9 1
fraternize	fraterniz	1 1 1 1 2 1 8 9
frugal	froogul	1 1 9 1 1 1
frugality	froogalite	1 1 9 1 1 1 1 1 1
fruition	frooishun	1 1 9 1 7 1 1
fry	fri	1 1 9
galvanize	galvuniz	1 1 1 1 1 1 8 9
generalize	jenuruliz	5 1 1 2 1 1 8 9
gruel	grooel	1 1 9 5
harmonize	hormoniz	5 5 1 1 1 1 8 9
heterogeneity	heturojuneute	5 1 1 5 1 1 9 5 1 1 1 1 1
hex	heks	5 1 9
hexagon	heksugon	5 1 9 1 1 1 1

WORD	DECODE	FILTER LEVEL
hexamater	hěksámütür	5 1 9 1 1 1 1 5 1
homogenize	hómójúníz	5 1 1 1 5 5 1 8 9
honk	hóngk	5 1 9 5
idealism	ideulíz	1 1 1 1 1 1 9 1
idealize	ideulíz	1 1 1 1 1 1 9
idolize	idulíz	5 1 1 1 8 9
imply	implí	1 1 1 1 9
impractical	impraktikél	1 1 1 1 1 1 1 1 1 9 1
impure	impioór	1 1 1 1 9 1
impurity	impioóruće	1 1 1 1 9 1 1 1 1
imputation	impootashún	1 1 1 9 1 1 7 1 1
inarticulate	inartikulet	1 1 1 1 1 1 1 1 1 9 1
indenture	indenchur	1 1 1 1 1 9 1 1
index	indeks	1 1 1 1 9
inexorable	ineksurubul	1 1 1 9 1 1 1 1 5
infix	infiks	1 1 1 1 9
influence	inflööens	1 1 1 1 9 1 1 1
influential	inflööenshul	1 1 1 1 9 1 1 7 1 1
influx	influks	1 1 1 1 9
ingenuity	injénööite	1 1 5 1 1 9 1 1 1
insinuate	insinuat	1 1 1 1 1 5 9 1
install	instol	1 1 1 1 9 1
intermediary	inturmedieri	1 1 1 2 1 1 1 1 9 1 1
intermix	inturmiks	1 1 1 2 1 1 9
intoxicant	intöksukunt	1 1 1 1 9 1 1 1 1 1
intoxicate	intöksukat	1 1 1 1 9 1 1 8 1

WORD	DECODE	FILTER LEVEL
intoxication	intok̄suk̄ashun̄	1 1 1 1 9 1 1 1 5 1 1
invariable	inver̄iub̄ūl̄	1 1 1 9 1 1 1 1 5
jab	jab̄	9 1 1
jade	jad̄	9 8 1
jag	jaḡ	9 1 1
jam	jam̄	9 1 1
jangle	jaṅḡūl̄	9 1 9 1 5
jape	jaḡ	9 8 1
jasper	jaṣṡur̄	9 1 1 1 2
jerk	jer̄k	9 2 5
jerkin	jer̄kin̄	9 2 5 1 1
jerky	jer̄kī	9 2 5 1
job	joḃ	9 1 1
jog	joḡ	9 1 1
joggle	joḡūl̄	9 1 2 5
jolt	joḡt̄	9 1 1 1
jot	joṡ	9 1 1
jovial	jōviūl̄	9 1 1 1 1 1
jug	juḡ	9 1 1
jumble	juḡbūl̄	9 1 1 1 2
jumbo	juḡbō	9 1 1 1 1
jump	juḡp̄	9 1 1 1
jumper	juḡp̄ur̄	9 1 1 1 5 1
jumpy	juḡpī	9 1 1 1 1
juggle	juḡḡūl̄	9 1 2 5

WORD	DECODE	FILTER LEVEL
jungle	jūnggūl	9 1 9 1 5
junk	jūngk	9 1 9 1
junket	jūngkūt	9 1 9 5 5 1
junta	jūntū	9 1 1 1 1
just	jūst	9 1 1 1
justly	jūstlī	9 1 1 1 1 1
jut	jūt	9 1 1
juxtaposition	jūkstūpūzīshūn	9 1 9 1 1 1 1 5 1 7 1 1
kink	kīngk	5 1 9 5
lank	lāngk	1 1 9 5
lanky	lāngkī	1 1 9 5 1
latex	lāteks	1 1 1 1 9
lax	lāks	1 1 9
laxity	lāksūtī	1 1 9 1 1 1
lexicon	lēksukūn	1 1 9 1 1 1 1
librarian	librēriūn	1 5 1 1 9 1 1 1 1
link	līngk	1 1 9 5
literary	liturērī	1 1 1 2 9 1 1
literature	liturūchūr	1 1 1 2 1 9 1 1
lure	lūr	1 9 1
lurid	lūrūd	1 9 1 1 1
majority	mūjōrūtē	1 1 9 1 1 1 1 1
malinger	mūlīnggūr	1 1 1 1 9 1 2
mangle	mānggūl	1 1 9 1 5
mango	mānggō	1 1 9 1 1

WORD	DECODE	FILTER LEVEL
maturation	máchúrashún	1 1 9 1 1 1 7 1 1
maxim	máksúm	1 1 9 1 1
miasma	míazmú	1 5 1 9 1 1
microcosm	míkrókózm	1 5 1 1 1 1 1 9 1
militarism	mílutarízm	1 1 1 1 1 1 1 1 9 1
misadventure	míśudvenchúr	1 1 1 1 1 1 1 1 9 5 1
misery	mízurē	1 1 9 5 1 1
misgiving	mísgívíng	1 1 1 1 1 1 1 9
mix	míks	1 1 9
mixer	míksur	1 1 9 2
mixture	míkschúr	1 1 9 9 5 1
modernize	modúrńíz	1 1 1 5 1 1 8 9
monism	moníz(e)m	1 1 1 1 9 1 1
monopolize	múnopulíz	1 1 1 1 1 1 1 8 9
monoxide	múnokśíd	1 1 1 1 9 8 1
mural	móorúl	1 9 1 1 1
moralize	múralíz	1 1 1 1 1 8 9
mortuary	mórchuēre	1 1 1 9 1 2 1
munition	móoníshún	1 9 1 1 7 1 1
museum	móozeum	1 9 5 1 1 1
my	mí	1 9
nasal	názúl	1 1 9 1 1
natural	náchurúl	1 1 9 1 1 1 1
naturalist	náchúrúlist	1 1 9 1 1 1 1 1 1 1
naturalization	náchúrúlízashún	1 1 9 1 1 1 1 1 9 1 7 1 1

WORD	DECODE	FILTER LEVEL
naturalize	náčurúľiz	1 1 9 1 1 1 1 8 9
nature	náčur	1 1 9 5 1
next	nekst	1 1 9 1
nomenclature	nomúnkláčur	1 1 1 5 1 1 1 1 9 5 1
notarize	noturiz	1 1 1 1 1 8 9
nozzle	nozúl	1 1 9 5 1
obituary	obichú(w)ere	1 1 1 9 1 9 1 1
obscurity	obsk(y)uroote	1 1 1 1 1 1 1 9 1 1
organize	orguniz	1 1 1 1 1 8 9
overture	ovú(r)choo(ú)r	1 1 5 9 9 1
ox	oks	1 9
oxalic	oksáľik	1 9 1 1 1 1
oxide	oksid	1 9 8 1
paradox	parúdoks	1 1 1 1 1 1 9
paradoxical	parúdoksikel	1 1 1 1 1 1 9 1 1 5
permutation	purmootashun	1 5 1 1 9 1 1 7 1 1
perplex	purpleks	1 5 1 1 1 1 9
perplexity	purpleksüte	1 5 1 1 1 1 9 1 1 1
petulant	pechulunt	1 1 9 1 1 1 1 1
pink	pingk	1 1 9 5
plural	ploorěl	1 1 9 1 5
plurality	plooráľite	1 1 9 1 1 1 1 1 1
posture	pöscher	1 1 1 9 2
prank	prangk	1 1 1 9 5

WORD	DECODE	FILTER LEVEL
prefix	p̄rēfiks	1 1 1 1 1 9
pretext	p̄rētekst	1 1 1 1 1 9 1
prize	p̄riz	1 1 8 9
proximity	p̄rōksimite	1 1 1 9 1 1 1 1 1
proxy	p̄rōkse	1 1 1 9 1
pry	p̄ri	1 1 9
pulverize	p̄ulveriz	1 1 1 1 2 8 9
purely	p̄oorle	1 9 1 1 1
purity	p̄oorite	1 9 1 1 1 1
rankle	r̄angkel	1 1 9 5 5
rarefy	r̄arufi	1 1 1 5 1 9
rationalize	r̄ashuneliz	1 1 7 1 1 5 8 9
realization	r̄ealizashun	1 1 1 1 1 9 1 7 1 1
realize	r̄ealiz	1 1 1 1 8 9
reflex	r̄efleks	1 1 1 1 1 9
rejoin	r̄ejoin	1 1 9 1 1 1
relax	r̄elaks	1 1 1 1 9
rely	r̄eli	1 1 1 9
reorganization	r̄eorganizashun	1 1 1 1 1 1 1 1 9 1 7 1 1
reorganize	r̄eorganiz	1 1 1 1 1 1 1 8 9
reply	r̄epli	1 1 1 1 9
sank	s̄angk	1 1 9 5
satisfy	s̄atisfi	1 1 1 1 1 1 9
scandalize	s̄kandeliz	1 1 1 1 1 5 8 9
scripture	s̄kripcher	1 1 1 1 1 9 1

WORD	DECODE	FILTER LEVEL
sex	sěks	1 1 9
sextant	sěkstunt	1 1 9 1 1 1 1
sextet	sěkstět	1 1 9 1 1 1
signalize	signuliz	1 1 1 1 1 1 8 9
signature	signuchuur	1 1 1 1 1 9 1 2
single	singgŭl	1 1 9 1 5
singly	singglě	1 1 9 1 1 1
sink	singk	1 1 9 5
sinker	singkur	1 1 9 5 2
situate	sichuat	1 1 9 1 8 1
situation	sichuashun	1 1 9 1 1 7 1 1
sixty	sikstě	1 1 9 1 1
size	siz	1 8 9
slink	slingk	1 1 1 9 5
slunk	slungk	1 1 1 9 5
sly	slí	1 1 9
solution	sulooshun	1 1 1 9 7 1 1
spangle	spanggŭl	1 1 1 9 1 5
spank	spangk	1 1 1 9 5
spatula	spach(ŭ)lŭ	1 1 1 9 1 1
springy	springě	1 1 1 1 9 1
sprinkle	springkul	1 1 1 1 9 5 5
spry	sprí	1 1 1 9
sputum	spootum	1 1 9 1 1 1
spy	spí	1 1 9

WORD	DECODE	FILTER LEVEL
stank	stāngk	1 1 1 9 5
statutory	stāchūtōrē	1 1 1 9 5 1 1 1 1
stimulant	stīmūlēt	1 1 1 1 5 1 9 1 1
storage	stōrēj	1 1 1 1 9 5
student	stōōdēt	1 1 9 1 1 1 1
studio	stōōdēō	1 1 9 1 1 1
stupefaction	stōōpēfākshūn	1 1 9 1 1 1 1 1 7 1 1
stupefy	stōōpēfī	1 1 9 1 1 1 9
stupid	stōōpīd	1 1 9 1 1 1
stupidity	stōōpīdītē	1 1 9 1 1 1 1 1 1
subdue	sūbdōō	1 1 1 1 9
substitution	sūbstītōōshūn	1 1 1 1 1 1 1 9 7 1 1
sue	sōō	1 9
super	sōōper	1 9 1 2
superb	sōōperb	1 9 1 2 1
superfluity	sōōperflōōītē	1 9 1 2 1 1 9 1 1 1
superhuman	sōōperhūmūn	1 9 1 2 5 5 1 1 1
superintend	sōōperīntēnd	1 9 1 2 1 1 1 1 1 1
superintendence	sōōperīntēndēns	1 9 1 2 1 1 1 1 1 1 1 1 1
superintendent	sōōperīntēndēt	1 9 1 2 1 1 1 1 1 1 1 1 1
superiority	sōōperēōrītē	1 9 1 1 1 1 1 1 1 1 1
supernal	sōōpernūl	1 9 1 2 1 1 1
supernatural	sōōpernāchūrūl	1 9 1 2 1 1 9 1 1 1 1
superscription	sōōperskrīpshūn	1 9 1 2 1 1 1 1 1 7 1 1
supersonic	sōōpersōnīk	1 9 1 2 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
superstition	sooperstishun	1 9 1 2 1 1 1 7 1 1
superstructure	sooperstrukhur	1 9 1 2 1 1 1 1 1 9 1 1
supine	soopin	1 9 1 8 1
sustenance	sustenens	1 1 1 1 1 1 9 1 1
tangle	tanggul	1 1 9 1 5
tango	tanggō	1 1 9 1 1
tank	tangk	1 1 9 5
tantalize	tantuliz	1 1 1 1 1 1 8 9
tarantula	turanchulu	1 1 1 1 1 9 1 1 1
tax	taks	1 1 9
taxation	taksashun	1 1 9 1 7 1 1
taxidermy	taksudurme	1 1 9 1 1 2 1 1
taxonomy	taksönume	1 1 9 1 1 1 1 1
temporize	tempuriz	1 1 1 1 1 1 8 9
text	tekst	1 1 9 1
tingle	tinggul	1 1 9 1 5
tinker	tingkur	1 1 9 5 2
tinkle	tingkul	1 1 9 5 5
toxemia	toksemeu	1 1 9 1 1 1 1
toxic	toksik	1 1 9 1 1
toxicology	toksikölögē	1 1 9 1 1 1 1 1 1 1
toxin	toksin	1 1 9 1 1
transfix	transfik	1 1 1 1 1 1 1 9
truant	tröunt	1 1 9 1 1 1
truism	tröizm	1 1 9 1 5 1

WORD	DECODE	FILTER LEVEL
truly	tróolē	1 1 9 1 1
try	trī	1 1 9
tuba	tóobŭ	1 9 1 1
tuber	tóober	1 9 1 2
tuition	tóóishŭn	1 9 1 7 1 1
tumult	tóomŭlt	1 9 1 1 1 1
tuna	tóonŭ	1 9 1 1
tuneful	tóonfŭl	1 9 1 1 1 2
tunic	tóoník	1 9 1 1 1
tutelage	tóotelej	1 9 1 5 9 5
tutorial	tóotōreŭl	1 9 1 1 1 1 1 1
unconstitutional	ŭnkōnstītōoshŭnŭl	1 1 1 1 1 1 1 1 1 9 7 1 1 1 1
unduly	undoole	1 1 1 9 1 1
unexampled	ŭnēksāmpled	1 1 1 9 1 1 1 5 1
unexpected	ŭnēkspektēd	1 1 1 9 1 1 1 1 1 1
unjust	ŭnjŭst	1 1 9 1 1 1
vex	vēks	1 1 9
vexation	vēksāshŭn	1 1 9 1 7 1 1
vertex	vŭrtēks	1 2 1 1 9
vixen	vīksŭn	1 1 9 5 1
vocalize	vōkulīz	1 1 1 1 1 8 9
vortex	vōrtēks	1 1 1 1 1 9
vulcanize	vŭlkŭnīz	1 1 1 1 1 1 8 9
wax	wāks	5 1 9
wink	wīngk	5 1 9 5

FILTER TEN

WORD	DECODE	FILTER LEVEL
abstain	abstān	1 1 1 1 10 1
advantageous	advāntājūs	1 1 1 1 1 1 8 5 10 1
adventitious	advūntīshūs	1 1 1 5 1 1 1 7 10 1
afloat	ūflōt	1 1 1 10 1
aglow	ūglō	1 1 1 10
agree	ūgrē	1 1 1 10
agreed	ūgrēd	1 1 1 10 1
amain	ūmān	1 1 10 1
ambitious	āmbīshūs	1 1 1 1 7 10 1
amputee	āmpūte	1 1 1 5 1 10
amuck	ūmūk	1 1 1 10
analogous	unālūgūs	1 1 1 1 1 1 10 1
anfractuous	ānfrākchūūs	1 1 1 1 1 1 9 1 10 1
anomalous	unōmūlūs	1 1 1 1 1 1 10 1
apogee	apūje	1 1 1 5 10
asleep	ūslep	1 1 1 10 1
astray	ūstrā	1 1 1 1 10
auction	ōkshūn	10 1 7 1 1
auditory	ōdūtōrē	10 1 1 1 1 1 1
auger	ōgur	10 1 2
augment	ōgmēt	10 1 1 1 1 1
august	ōgūst	10 1 1 1 1

WORD	DECODE	FILTER LEVEL
aura	o ^u ru ^u	10 1 1
aural	o ^u ru ^u l	10 1 1 1
aurora	u ^u ro ⁻ ru ^u	10 1 1 1 1
austerity	o ^u ste ^u ru ^u te ⁻	10 1 1 1 1 1 1 1
autocrat	o ^u tu ^u kr ^u at	10 1 1 1 1 1 1
autocratic	o ^u tu ^u kr ^u ati ^u k	10 1 1 1 1 1 1 1 1
automatic	o ^u tu ^u ma ^u ti ^u k	10 1 1 1 1 1 1 1
automation	o ^u tu ^u ma ⁻ shu ^u n	10 1 1 1 1 7 1 1
autonomous	o ^u tu ^u nu ^u mu ^u s	10 1 1 1 1 1 10 1
autonomy	o ^u tu ^u nu ^u me ⁻	10 1 1 1 1 1 1
autopsy	o ^u tu ^u ps ⁻ e	10 1 1 1 1 1
autumnal	o ^u tu ^u mn ^u l	10 1 1 1 1 1 1
avail	u ^u va ⁻ l	1 1 10 1
available	u ^u va ⁻ lu ^u bu ^u l	1 1 10 1 1 1 5
away	u ^u wa ⁻	1 5 10
back	ba ^u k	1 1 10
bail	ba ⁻ l	1 10 1
baliff	ba ⁻ lu ^u f	1 10 1 1 2
barbarous	bo ^u rbu ^u ru ^u s	1 6 1 1 1 1 10 1
barbiturate	bo ^u rbu ^u chi ^u ra ⁻ te	1 5 1 1 1 9 10 8 1
bauble	bo ^u bu ^u l	1 10 1 5
bay	ba ⁻	1 10
beak	be ⁻ k	1 10 5
beam	be ⁻ m	1 10 1
bean	be ⁻ n	1 10 1

WORD	DECODE	FILTER LEVEL
bumblebee	bumblebē	1 1 1 1 5 1 10
bur	bur	1 10
burden	burden	1 10 1 1 1
burdock	burdōk	1 10 1 1 10
burg	burg	1 10 1
burgess	burgjēs	1 10 5 1 2
burglary	burglūrē	1 10 1 1 1 1 1
burgomaster	burgōmāster	1 10 1 1 1 1 1 1 2
burl	burl	1 10 1
burlap	burlāp	1 10 1 1 1
burly	burlē	1 10 1 1
burn	burn	1 10 1
burner	burner	1 10 1 2
burnt	burnt	1 10 1 1
burp	burp	1 10 1
burst	burst	1 10 1 1
cackle	kākle	1 1 10 5
calcareous	kalkērēūs	1 1 1 1 9 1 1 10 1
cantankerous	kāntānkerūs	1 1 1 1 1 1 5 2 10 1
canteen	kāntēn	1 1 1 1 10 1
captious	kāpshūs	1 1 1 7 10 1
capture	kāpchur	1 1 1 9 10
carload	kōrlōd	1 5 1 1 10 1
carnivorous	kōrnivorūs	1 5 1 1 1 1 10 10 1
caustic	kōstik	1 10 1 1 1 1

WORD	DECODE	FILTER LEVEL
caution	k ^u sh ^u n	1 10 7 1 1
cautious	k ^u sh ^u s	1 10 7 10 1
cavernous	k ^u v ^u r ^u n ^u s	1 1 1 2 1 10 1
children	ch ^u ldr ^u n	10 1 1 1 1 5 1
chill	ch ^u l	10 1 2
clack	kl ^u ak	1 1 1 10
claim	kl ^u am	1 1 10 1
claimant	kl ^u am ^u nt	1 1 10 1 1 1 1
clause	kl ^u oz	1 1 10 5
clay	kl ^u a	1 1 10
clean	kl ^u en	1 1 10 1
cleaner	kl ^u ener	1 1 10 1 2
clear	kl ^u er	1 1 10 1
clearness	kl ^u ern ^u es	1 1 10 1 1 1 2
cleat	kl ^u et	1 1 10 1
click	kl ^u ik	1 1 1 10
clock	kl ^u ok	1 1 1 10
cluck	kl ^u uk	1 1 1 10
coat	k ^u ot	1 10 1
cock	k ^u ok	1 1 10
cockle	k ^u okle	1 1 10 5
complain	k ^u ompl ^u an	1 1 1 1 1 10 1
complaint	k ^u ompl ^u ant	1 1 1 1 1 10 1 1
concur	k ^u onkur	1 1 1 1 10
congeal	k ^u ongel	1 1 1 1 10 1

WORD	DECODE	FILTER LEVEL
beast	bēst	1 10 1 1
beastly	bēstlē	1 10 1 1 1 1
beat	bēt	1 10 1
beaten	bētun	1 10 1 5 1
beater	bētur	1 10 1 2
beck	bēk	1 1 10
bedrock	bēdrōk	1 1 1 1 1 10
bee	bē	1 10
black	blāk	1 1 1 10
bleak	blēk	1 1 10 5
bleat	blēt	1 1 10 1
bleed	blēd	1 1 10 1
bloat	blōt	1 1 10 1
block	blōk	1 1 1 10
blow	blō	1 1 10
boat	bōt	1 10 1
boatman	bōtmun	1 10 1 1 1 1
bootless	bōotlūs	1 10 1 1 5 10
bow	bō	1 10
brain	brān	1 1 10 1
bray	brā	1 1 10
breed	brēd	1 1 10 1
brick	brīk	1 1 1 10
buck	būk	1 1 10
buckle	būkūl	1 1 10 5

WORD	DECODE	FILTER LEVEL
conspicuous	k ^u o ⁿ s ⁱ p ⁱ k ^u o ^u s	1 1 1 1 1 1 1 5 10 1
constrain	k ^u n ^s t ^r a ⁿ	1 1 1 1 1 1 1 10 1
constraint	k ^u n ^s t ^r a ⁿ t	1 1 1 1 1 1 10 1 1
contain	k ^u n ^t a ⁿ	1 1 1 1 10 1
container	k ^u n ^t a ⁿ e ^r	1 1 1 1 10 1 2
contemporaneous	k ^o n ^t e ^m p ^e r ^a n ^e o ^u s	1 1 1 1 1 1 1 2 1 1 1 10 1
contentious	k ^u n ^t e ⁿ s ^h u ^s	1 1 1 1 1 1 7 10 1
contiguous	k ^o n ^t i ^g u ^o s	1 1 1 1 1 1 5 10 1
continuous	k ^o n ^t i ⁿ u ^o s	1 1 1 1 1 1 5 10 1
copious	k ^o p ^e o ^u s	1 1 1 1 10 1
crack	k ^r a ^k	1 1 1 10
crackle	k ^r a ^k l ^e	1 1 1 10 5
creak	k ^r e ^k	1 1 10 5
cream	k ^r e ^m	1 1 10 1
creamery	k ^r e ^m e ^r e	1 1 10 1 2 1
creamy	k ^r e ^m e	1 1 10 1 1
credulous	k ^r e ^d u ^l u ^s	1 1 1 1 5 1 10 1
creed	k ^r e ^d	1 1 10 1
creep	k ^r e ^p	1 1 10 1
creeper	k ^r e ^p e ^r	1 1 10 1 2
croak	k ^r o ^k	1 1 1 10
crocodile	k ^r o ^k u ^d i ^l	1 1 1 10 1 1 8 1
crow	k ^r o	1 1 10
cur	k ^u r	1 10
curb	k ^u r ^b	1 10 1

WORD	DECODE	FILTER LEVEL
curd	kurd	1 10 1
curdle	kurdle	1 10 1 5
curious	kūrēūs	1 5 1 1 10 1
curl	kurl	1 10 1
curly	kurlē	1 10 1 1
cursed	kursēd	1 10 1 1 1
cursor	kursūrē	1 10 1 1 1 1
curtail	kurtāl	1 10 1 10 1
curt	kurt	1 10 1
curtaneous	kurtānēūs	1 10 1 1 1 1 10 1
curtsy	kurtse	1 10 1 1 1
curve	kurv	1 10 1
daub	dōb	1 10 1
daunt	dōnt	1 10 1 1
dauntless	dōntlēs	1 10 1 1 1 1 2
day	dā	1 10
deal	dēl	1 10 1
dean	dēn	1 10 1
decay	dēkā	1 1 1 10
deck	dēk	1 1 10
declaim	dēklām	1 1 1 1 10 1
decorous	dēkerūs	1 1 1 2 10 1
decree	dēkre	1 1 1 1 10
deed	dēd	1 10 1
deep	dēp	1 10 1

WORD	DECODE	FILTER LEVEL
deepen	dēpēn	1 10 1 1 1
defeat	dēfēt	1 1 1 10 1
defraud	dēfrōd	1 1 1 1 10 1
defray	dēfrā	1 1 1 1 10
degree	dēgrē	1 1 1 1 10
delay	dēlā	1 1 1 10
deleterious	dēlīterūs	1 1 1 1 1 2 10 1
delirious	dēlīrēūs	1 1 1 1 1 1 10 1
demean	dēmēn	1 1 1 10 1
derail	dērāl	1 1 1 10 1
desirous	dēzīrūs	1 1 5 5 1 10 1
detail	dētāl	1 1 1 10 1
detain	dētān	1 1 1 10 1
devious	dēvēūs	1 1 1 1 10 1
devotee	dēvūtē	1 1 1 1 1 10
dexterous	dēksterūs	1 1 9 1 2 10 1
disagree	dīsūgrē	1 1 1 1 1 1 10
disastrous	dīzāstrūs	1 1 5 1 1 1 1 10 1
disclaim	dīsklām	1 1 1 1 1 10 1
disdain	dīsdān	1 1 1 1 10 1
disdainful	dīsdānfūl	1 1 1 1 10 1 1 1 1
dismay	dīsmā	1 1 1 1 10
display	dīsplā	1 1 1 1 1 10
dock	dōck	1 1 10
doge	dōj	1 10 5

WORD	DECODE	FILTER LEVEL
domain	dōmān	1 1 1 10 1
drain	drān	1 1 10 1
dream	drem	1 1 10 1
dreamland	dremāland	1 1 10 1 1 1 1 1
dreamy	dremē	1 1 10 1 1
driveway	drivwā	1 1 1 1 5 10
duck	duk	1 1 10
dungaree	dūnggūrē	1 1 9 1 1 1 10
ear	ēr	10 1
east	ēst	10 1 1
eastern	ēsturn	10 1 1 5 1 1
eastward	ēstwurd	10 1 1 5 1 1 1
easy	ēze	10 9 1
eat	ēt	10 1
eatable	ētubel	10 1 1 1 5
eaten	ētun	10 1 5 1
eater	eter	10 1 2
entertain	ētūrtān	1 1 1 5 1 1 10 1
escrow	ēskrō	1 1 1 1 10
esteem	ēstem	1 1 1 10 1
exclaim	ēksklām	1 9 1 1 10 1
expeditious	ēkspūdīshūs	1 9 1 5 1 1 7 10 1
explain	ēksplān	1 9 1 1 10 1
extemporaneous	ēkstēmpūrānēūs	1 9 1 1 1 1 1 1 1 1 10 1
extraneous	ēksstrānēūs	1 9 1 1 1 1 1 1 10 1

WORD	DECODE	FILTER LEVEL
fabulous	fābūlus	1 1 1 1 1 10 1
factitious	faktishus	1 1 1 1 1 7 10 1
fail	fā(i)l	1 10 1
fain	fān	1 10 1
faint	fānt	1 10 1 1
famous	fāmus	1 1 1 10 1
fantail	fāntāl	1 1 1 1 10 1
faraway	fōruwā	1 5 1 1 5 10
faun	fōn	1 10 1
fauna	fōnā	1 10 1 1
fay	fā	1 10
fealty	fēltē	1 10 1 1 1
fear	fēr	1 10 1
feast	fēst	1 10 1 1
feat	fēt	1 10 1
fee	fē	1 10
feed	fēd	1 10 1
feedback	fēdbāk	1 10 1 1 1 10
feeder	fēder	1 10 1 2
fibrous	fibrus	1 5 1 1 10 1
fickle	fikle	1 1 10 5
fictitious	fiktishus	1 1 1 1 1 7 10 1
fifteen	fiften	1 1 1 1 10 1
flatboat	flātbot	1 1 1 1 1 10 1
flaunt	flōnt	1 1 10 1 1

WORD	DECODE	FILTER LEVEL
flay	flā	1 1 10
fleck	flēk	1 1 1 10
flee	flē	1 1 10
flick	flīk	1 1 1 10
float	flōt	1 1 10 1
flock	flōk	1 1 1 10
flow	flō	1 1 10
foray	fōrā	1 1 1 10
foresee	fōrsē	1 1 1 1 10
fractious	frākshūs	1 1 1 1 7 10 1
frail	frāl	1 1 10 1
frailty	frālte	1 1 10 1 1 1
fraud	frōd	1 1 10 1
fraudulent	frōdūlēnt	1 1 10 1 5 1 1 1 1
fray	frā	1 1 10
freak	frēk	1 1 10 5
freckle	frēkle	1 1 1 10 5
free	frē	1 1 10
frivolous	frīvūlūs	1 1 1 1 1 1 10 1
frock	frōk	1 1 1 10
furious	furēūs	1 10 1 1 1
fury	furē	1 10 1
gain	gān	1 10 1
gainful	gānful	1 10 1 1 1 1
gainsay	gānsā	1 10 1 1 10

WORD	DECODE	FILTER LEVEL
gaseous	^u g ⁻ ase ^u us	1 1 1 1 10 1
gaudy	^u god ⁱ	1 10 1 1
gaunt	^u gont	1 10 1 1
gauntlet	^u gont ^l ut	1 10 1 1 1 5 1
gay	gā	1 10
gee	je	5 10
generous	^u jen ^u rus	5 1 1 2 10 1
genteel	^u jentel	5 1 1 1 10 1
glabrous	glābr ^u s	1 11 1 1 10 1
gleam	glēm	1 1 10 1
glean	glēn	1 1 10 1
glee	glē	1 1 10
gloat	glōt	1 1 10 1
glow	glō	1 1 10
goad	gōd	1 10 1
goat	gōt	1 10 1
grackle	^u gr ^u akul	1 1 1 10 5
grain	grān	1 1 10 1
grandee	^u grāndē	1 1 1 1 1 10
gray	grā	1 1 10
greasy	grēsē	1 1 10 1 1
greed	grēd	1 1 10 1
greedy	grēdē	1 1 10 1 1
gregarious	^u grēg ^u arē ^u s	1 1 1 1 1 1 1 10 1
groat	grōt	1 1 10 1

WORD	DECODE	FILTER LEVEL
grow	grō	1 1 10
gunboat	gūnbōt	1 1 1 1 10 1
hack	hăk	5 1 10
hackle	hăkle	5 1 10 5
hail	hāl	5 10 1
hamburger	hămburger	5 1 1 1 10 1 2
handiwork	hăndiwork	5 1 1 1 1 5 10 5
haunt	hănt	5 10 1 1
hay	hā	5 10
heal	hēl	5 10 1
hear	hēr	5 10 1
heat	hēt	5 10 1
heckle	hēkul	5 1 10 5
hectic	hēktik	5 1 10 1 1 1
heed	hēd	5 10 1
heater	hētūr	5 10 1 2
heterogeneous	hētūrōjēnus	5 1 1 5 1 1 5 1 1 10 1
hick	hik	5 1 10
hideous	hīdeus	5 1 1 1 10 1
holocaust	hōlukōst	5 1 1 1 5 10 1 1
homogeneous	hōmōjēn(y)us	5 1 1 1 5 1 1 10 1
ideal	īdel	1 1 10 1
igneous	īgneus	1 1 1 1 10 1
incur	īnkur	1 1 1 10 1
inaugural	īnugurul	1 1 10 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
incursion	inkurzūn	1 1 1 10 1 5 1 1
indeed	indēd	1 1 1 10 1
indigenous	indijūnūs	1 1 1 1 5 5 1 10 1
indurate	ind(y)oorāt	1 1 1 10 1 8 1
industrious	indūstriūs	1 1 1 1 1 1 1 1 10 1
infamous	infumūs	1 1 1 1 1 10 1
infectious	infekshūs	1 1 1 1 1 7 10 1
infuriate	infureāt	1 1 1 10 1 8 1
ingenuous	injenuūs	1 1 5 1 1 5 10 1
inroad	inrod	1 1 1 10 1
insidious	insidiūs	1 1 1 1 1 1 10 1
interlock	intūrlōk	1 1 1 2 1 1 10
interpose	inturpōz	1 1 1 2 1 10 5
intravenous	intrūvenūs	1 1 1 1 1 1 1 1 10 1
invidious	invidiūs	1 1 1 1 1 1 10 1
jack	jak	9 1 10
jail	jāl	9 10 1
jailer	jālūr	9 10 1 2
jaunt	jōnt	9 10 1 1
jaunty	jōntī	9 10 1 1 1
jay	jā	9 10
keep	kēp	5 10 1
keeper	kēpur	5 10 1 2
keepsake	kēpsāk	5 10 1 1 8 5
kick	kik	5 1 10

WORD	DECODE	FILTER LEVEL
laborious	l ^u b ^o r ⁱ u ^s	1 1 1 1 1 1 10 1
lack	l ^u ak	1 1 10
lain	l ^a n	1 10 1
lampblack	l ^u ampbl ^u ak	1 1 1 1 1 1 1 10
laud	l ^u od	1 10 1
laudable	l ^u od ^u b ^u l	1 10 1 1 1 5
launder	l ^u ond ^u r	1 10 1 1 2
laundress	l ^u ondr ^u s	1 10 1 1 1 5 2
laundry	l ^u ondr ⁱ	1 10 1 1 1 1
laureate	l ^o r ^e at	1 10 1 1 8 1
lay	l ^a	1 10
leak	l ^e ak	1 10 1
lean	l ^e n	1 10 1
least	l ^e ast	1 10 1 1
lee	l ^e	1 10
leprous	l ^e pr ^u s	1 1 1 1 10 1
lick	l ⁱ ak	1 1 10
linseed	l ⁱ ns ^e d	1 1 1 1 10 1
lipstick	l ⁱ pst ⁱ k	1 1 1 1 1 1 10
livestock	l ⁱ vst ^o k	1 8 1 1 1 1 10
load	l ^o d	1 10 1
lock	l ^o ak	1 1 10
low	l ^o	1 10
lower	l ^o ur	1 10 1 1
luck	l ^u ak	1 1 10

WORD	DECODE	FILTER LEVEL
lustrous	lūstrūs	1 1 1 1 1 10 1
mail	māl	1 10 1
maim	mām	1 10 1
main	mān	1 10 1
mainland	mānlānd	1 10 1 1 1 1 1
mainmast	mānmāst	1 10 1 1 1 1 1
mainsail	mānsāl	1 10 1 1 10 1
mainstay	mānstā	1 10 1 1 1 10
marauder	mūrōdūr	1 1 1 10 1 2
maudlin	mōdlūn	1 10 1 1 1 1
mausoleum	mōsulēum	1 10 1 1 1 1 1 1
may	mā	1 10
meal	mēl	1 10 1
mealtime	mēltīm	1 10 1 1 8 1
mealy	mēlē	1 10 1 1
mean	mēn	1 10 1
meantime	mēntīm	1 10 1 1 8 1
meat	mēt	1 10 1
meed	mēd	1 10 1
membranous	mēmbrūnūs	1 1 1 1 1 1 1 10 1
memorable	mēmūrūbūl	1 1 1 10 1 1 5
memorandum	mēmūrāndūm	1 1 1 10 1 1 1 1 1
memorize	mēmūrīz	1 1 1 10 8 9
midday	mīdā	1 1 1 10
midway	mīdwa	1 1 1 5 10

WORD	DECODE	FILTER LEVEL
misdeed	mīsdēd	1 1 1 1 10 1
moat	mōt	1 10 1
mock	mōk	1 1 10
momentous	mōmuntūs	1 1 1 5 1 1 10 1
monotonous	mōnotunūs	1 1 1 1 1 1 1 10 1
monstrous	mōnstrūs	1 1 1 1 1 1 10 1
mow	mō	1 10
muck	muk	1 1 10
nautical	notikul	1 10 1 1 1 1 1
nay	na	1 10
neat	nēt	1 10 1
neck	nēk	1 1 10
need	nēd	1 10 1
needful	nēdful	1 10 1 1 1 1
needless	nēdlus	1 10 1 1 5 2
needy	nēde	1 10 1
nervous	nūrvūs	1 1 1 1 10 1
nick	nik	1 1 10
nitrogenous	nītrōjunūs	1 5 1 1 1 5 5 1 10 1
nitrous	nītrūs	1 1 1 1 10 1
nuzzle	nūzūl	1 1 10 5 1
oak	ōk	10 5
oar	ōr	10 1
oarsman	ōrzmun	10 1 5 1 1 1
oat	ōt	10 1

WORD	DECODE	FILTER LEVEL
oaten	o ^ˉ tun [˘]	10 1 5 1
oath	o ^ˉ th	10 1 5
oatmeal	o ^ˉ tme ^ˉ l	10 1 1 10 1
obstreperous	u [˘] bstrepur [˘] us [˘]	1 1 1 1 1 1 1 5 1 10 1
obtain	u [˘] btan ^ˉ	1 1 1 10 1
omnivorous	o [˘] mnivur [˘] us [˘]	1 1 1 1 1 1 1 10 1
onerous	o [˘] nur [˘] us [˘]	1 1 5 1 10 1
ordain	o [˘] rdan ^ˉ	1 1 1 10 1
ordeal	o [˘] rdel ^ˉ	1 11 10 1
overcoat	o ^ˉ vrkot ^ˉ	1 1 5 1 1 10 1
overflow	o ^ˉ vrflō [˘]	1 1 5 1 1 1 10
overseas	o ^ˉ vrsez ^ˉ	1 1 2 1 10 5
oversee	o ^ˉ vrse ^ˉ	1 1 2 1 10
overwork	o ^ˉ vrw [˘] rk [˘]	1 1 2 5 10 5
oviparous	o ^ˉ vip(u [˘])rus [˘]	1 1 1 1 1 10 1
pack	p [˘] ak	1 1 10
pain	p ^ˉ an	1 10 1
painful	p ^ˉ anful [˘]	1 10 1 1 1 1
pail	p ^ˉ a(u [˘])l	1 10 1
paint	p ^ˉ ant	1 10 1 1
painter	p ^ˉ antur [˘]	1 10 1 1 2
pauper	p [˘] oper	1 10 1 2
pay	p ^ˉ a	1 10
peak	p ^ˉ ek	1 10 5
penalize	p ^ˉ enuliz [˘]	1 1 1 1 1 8 10

WORD	DECODE	FILTER LEVEL
penurious	pēnoōrēūs	1 1 1 9 1 1 10 1
perigee	pērūjē	1 1 1 1 5 10
pertain	pūrtān	1 5 1 1 10 1
peat	pēt	1 10 1
peck	pēk	1 1 10
peep	pēp	1 10 1
pestiferous	pēstif(ū)rūs	1 1 1 1 1 1 5 1 10 1
pigtail	pigtāl	1 1 1 1 10 1
pious	piūs	1 5 10 1
plain	plān	1 1 10 1
plaint	plānt	1 1 10 1 1
plaintiff	plāntif	1 1 10 1 1 1 2
play	plā	1 1 10
pleat	plēt	1 1 10 1
plenteous	plēntēūs	1 1 1 1 1 1 10 1
pompous	pōmpūs	1 1 1 1 10 1
ponderous	pōnderūs	1 1 1 1 2 10 1
populous	pōpūlūs	1 1 1 1 1 10 1
porous	pōrūs	1 1 1 10 1
pray	prā	1 1 10
precaution	prēkōshūn	1 1 1 1 10 7 1 1
preposterous	prēpōst(ū)rūs	1 1 1 1 1 1 1 1 10 1
presumptuous	prēzūm(p)chūūs	1 1 1 9 1 1 9 1 10 1
pretentious	prētēnshūs	1 1 1 1 1 1 7 10 1
prevail	prēvā(u)l	1 1 1 1 10 1

WORD	DECODE	FILTER LEVEL
probe	pr̄ob	1 1 10 1
proclaim	pr̄oklām	1 1 1 1 1 10 1
prosperous	pr̄osp̄er̄us	1 1 1 1 1 1 1 10 1
protean	pr̄otēn	1 1 1 1 10 1
puritan	p̄oor̄utān	1 10 1 1 1 1 1
puritanical	p̄oor̄utān̄ik̄el	1 10 1 1 1 1 1 1 1 5
rage	rāj	1 10 5
rail	rāl	1 10 1
railroad	rālrod	1 10 1 1 10 1
railway	rālwa	1 10 1 5 10
rain	rān	1 10 1
rainbow	rānbō	1 10 1 1 10
raindrop	rāndr̄op	1 10 1 1 1 1 1
rainfall	rānfāl	1 10 1 1 1 2
rainy	rānē	1 10 1 1
ray	rā	1 10
real	rēl	1 10 1
ream	rēm	1 10 1
rear	rēr	1 10 1
rearward	rēr̄wurd	1 10 1 5 1 1 1
reclaim	rēklām	1 1 1 1 10 1
reed	rēd	1 10 1
reedy	rēdē	1 10 1 1
referee	rēf̄erē	1 1 1 2 10
refrain	rēfrān	1 1 1 1 10 1

WORD	DECODE	FILTER LEVEL
regain	rēgān	1 1 1 10 1
relay	rēlā	1 1 1 10
reload	rēlōd	1 1 1 10 1
remain	rēmān	1 1 1 10 1
remainder	rēmānder	1 1 1 10 1 1 2
repay	rēpā	1 1 1 10
repeal	rēpēl	1 1 1 10 1
repeat	rēpēt	1 1 1 10 1
repeated	rēpētūd	1 1 1 10 1 5 1
resinous	rēsīnūs	1 1 1 1 1 10 1
restrain	rēstrān	1 1 1 1 1 10 1
restraint	rēstrānt	1 1 1 1 1 10 1 1
retain	rētān	1 1 1 10 1
retainer	rētāner	1 1 1 10 1 2
retreat	rētret	1 1 1 1 10 1
reveal	rēvēl	1 1 1 10 1
road	rōd	1 10 1
roadside	rōdsīd	1 10 1 1 8 1
roadster	rōdster	1 10 1 1 1 2
roadway	rōdwā	1 10 1 1 10
roam	rōm	1 10 1
row	rō	1 10
runaway	rūnūwā	1 1 1 1 1 10
runway	rūnwā	1 1 1 1 10
sagamore	sāgūmōr	1 1 1 1 1 10 1

WORD	DECODE	FILTER LEVEL
sail	sāl	1 10 1
sailboat	sālbōt	1 10 1 1 10 1
saint	sānt	1 10 1 1
sateen	sātēn	1 1 1 10 1
saunter	sōntēr	1 10 1 1 2
say	sā	1 10
scandalous	skāndūlūs	1 1 1 1 1 1 1 10 1
scapegoat	skāpgōt	1 1 8 1 1 10 1
scream	skrēm	1 1 1 10 1
seal	sēl	1 10 1
seam	sēm	1 10 1
seamstress	sēmstrūs	1 10 1 1 1 1 5 2
sear	sēr	1 10 1
seat	sēt	1 10 1
seditious	sēdīshūs	1 1 1 1 7 10 1
see	sē	1 10
seed	sēd	1 10 1
seep	sēp	1 10 1
seer	sēr	1 10 1
sententious	sētēnshūs	1 1 1 1 1 1 7 10 1
seventeen	sēvūntēn	1 1 1 5 1 1 10 1
sick	sīk	1 1 10
sickle	sīkūl	1 1 10 5
sixteen	sīkstēn	1 1 9 1 10 1
slack	slāk	1 1 1 10

WORD	DECODE	FILTER LEVEL
slain	slān	1 1 10 1
slanderous	slāndurrūs	1 1 1 1 1 2 1 10 1
slay	slā	1 1 10
sleep	slēp	1 1 10 1
sleeper	slēpur	1 1 10 1 2
sleepless	slēplūs	1 1 10 1 1 5 2
sleepy	slēpē	1 1 10 1 1
slick	slīk	1 1 1 10
slow	slō	1 1 10
smack	smāk	1 1 1 10
smear	smēr	1 1 10 1
smock	smōk	1 1 1 10
snack	snāk	1 1 1 10
snail	snāl	1 1 10 1
sneak	snēk	1 1 10 5
sneer	snēr	1 1 10 1
snort	snōrt	1 1 10 1
snow	snō	1 1 10
sock	sōk	1 1 10
sonorous	sunōrūs	1 1 1 1 1 10 1
sow	sō	1 10
speak	spēk	1 1 10 5
spear	spēr	1 1 1 10
speck	spēk	1 1 1 10
speckle	spēkūl	1 1 1 10 5

WORD	DECODE	FILTER LEVEL
speed	spēd	1 1 10 1
speedy	spēde	1 1 10 1 1
spirited	spīrūtūd	1 1 10 1 1 5 1
splay	splā	1 1 1 10
spontaneous	spōntāneūs	1 1 1 1 1 1 1 1 10 1
sporadic	spōrādīk	1 1 10 1 1 1
sport	spōrt	1 1 10 1
sportsman	spōrtsmūn	1 1 10 1 1 1 1 1
sprain	sprān	1 1 1 10 1
spray	sprā	1 1 1 10
spree	spre	1 1 1 10
stack	stāk	1 1 1 10
stain	stān	1 1 10 1
stalwart	stōlwūrt	1 1 5 1 5 10 1
stationary	stāshūnerē	1 1 1 7 1 1 10 1
statuary	stāchūārē	1 1 1 9 1 10 1
stay	stā	1 1 10
steed	stēd	1 1 10 1
steel	stēl	1 1 10 1
steely	stēlē	1 1 10 1 1
steep	stēp	1 1 10 1
stick	stīk	1 1 1 10
stoat	stōt	1 1 10 1
stock	stōk	1 1 1 10
stow	stō	1 1 10

WORD	DECODE	FILTER LEVEL
strain	strān	1 1 1 10 1
strainer	strāner	1 1 1 10 1 2
stray	strā	1 1 1 10
streak	strēk	1 1 1 10 5
stream	strēm	1 1 1 10 1
streamer	strēmer	1 1 1 10 1 2
strenuous	strēnuūs	1 1 1 1 1 5 10 1
struck	strūk	1 1 1 1 10
stuck	stūk	1 1 1 10
studious	stōōdēūs	1 1 9 1 1 10 1
stupendous	stōōpēndūs	1 1 9 1 1 1 1 10 1
subway	sūbwā	1 1 1 5 10
suck	sūk	1 1 10
suckle	sūkle	1 1 10 5
suction	sūkshūn	1 1 10 7 1 1
sumptuous	sūmpchūūs	1 1 1 1 9 5 10 1
sunbeam	sūnbēm	1 1 1 1 10 1
sunburn	sūnburn	1 1 1 1 10 1
superfluous	sōōperflōōūs	1 9 1 2 1 1 9 10 1
superstitious	sōōperstīchūs	1 9 1 2 1 1 1 9 10 1
surge	surj	1 10 5
sustain	sūstān	1 1 1 1 10 1
swain	swān	1 5 10 1
sway	swā	1 5 10
sweep	swēp	1 5 10 1

WORD	DECODE	FILTER LEVEL
tack	t ^u ak	1 1 10
tackle	t ^u ak ^u l	1 1 10 5
tail	t ^u al	1 10 1
taint	t ^u ant	1 10 1 1
tarpaulin	t ^u orp ^u ol ^u n	1 5 1 1 10 1 1 1
taut	t ^u ot	1 10 1
taunt	t ^u ont	1 10 1 1
tautological	t ^u ot ^u ul ^u oj ^u ik ^u l	1 10 1 1 1 1 5 1 1 1 1
tautology	t ^u ot ^u ul ^u je	1 10 1 1 1 1 5 1
tee	t ^u e	1 10
teem	t ^u em	1 10 1
teens	t ^u enz	1 10 1 5
tempestuous	t ^u emp ^u esch ^u u ^u s	1 1 1 1 1 1 9 1 10 1
tepee	t ^u ep ^u e	1 1 1 10
tick	t ^u ik	1 1 10
tickle	t ^u ik ^u l	1 1 10 5
toad	t ^u od	1 10 1
topsail	t ^u ops ^u al	1 1 1 1 10 1
tortuous	t ^u orch ^u u ^u s	1 1 1 9 1 10 1
tow	t ^u o	1 10
track	t ^u rak	1 1 1 10
trail	t ^u ral	1 1 10 1
trailer	t ^u raler	1 1 10 1 2
train	t ^u ran	1 1 10 1
tramway	t ^u ramw ^u a	1 1 1 1 5 10

WORD	DECODE	FILTER LEVEL
trauma	trōmū	1 1 10 1 1
traumatic	trōmātīk	1 1 10 1 1 1 1 1
tray	trā	1 1 10
treat	trēt	1 1 10 1
treatment	trētment	1 1 10 1 1 1 1 1
tree	trē	1 1 10
tremendous	trēmēndūs	1 1 1 1 1 1 1 10 1
tremulous	trēmūlūs	1 1 1 1 5 1 10 1
trick	trīk	1 1 1 10
trickle	trīkle	1 1 1 10 5
truck	trūk	1 1 1 10
tuck	tūk	1 1 10
tumultuous	tōomūlchūs	1 9 1 1 1 9 10 1
tweed	twēd	1 5 10 1
unclean	ūnklēn	1 1 1 1 10 1
undaunted	ūndōntēd	1 1 1 10 1 1 1 1
underworld	ūnderworld	1 1 1 2 5 10 1 1
uneasy	ūnēsē	1 1 10 1 1
ungainly	ūngānlē	1 1 1 10 1 1 1
ungenerous	ūnjēnerūs	1 1 5 1 1 2 10 1
unload	ūnlōd	1 1 1 10 1
unlock	ūnlōk	1 1 1 1 10
unnatural	ūnnāchurūl	1 1 1 1 9 10 1 1
unpack	ūnpāk	1 1 1 1 10
unreal	ūnrēl	1 1 1 10 1

WORD	DECODE	FILTER LEVEL
upkeep	úpkēp	1 1 5 10 1
upstream	úpstrem̄	1 1 1 1 1 10 1
upward	úpwúrd	1 1 5 10 1
upwards	úpwúrdz	1 1 5 10 1 5
vain	vān	1 10 1
vaunt	vónt	1 10 1 1
veal	vēl	1 10 1
venous	vénús	1 1 1 10 1
vexatious	věksāshűs	1 1 9 1 7 10 1
virility	vúrilútē	1 10 1 1 1 1 1
virulent	vírulúnt	1 10 5 1 5 1 1
vitreous	vítreús	1 1 1 1 1 10 1
viviparous	vívipúrűs	1 5 1 1 1 1 1 10 1
wail	wāl	5 10 1
wainscot	wānskót	5 10 1 1 1 1 1
way	wā	5 10
weak	wēk	5 10 5
weal	wēl	5 10 1
wean	wēn	5 10 1
wee	wē	5 10
weed	wēd	5 10 1
weedy	wēdē	5 10 1 1
weep	wēp	5 10 1
wick	wík	5 1 10
windrow	wúndrō	5 1 1 1 1 10

WORD	DECODE	FILTER LEVEL
wondrous	w ^u ndr ^u s	5 1 1 1 1 10 1
word	w ^u rd	5 10 1
wordless	w ^u rdl ^u s	5 10 1 1 5 2
work	w ^u rk	5 10 5
world	w ^u rl ^u d	5 10 1 1
worldly	w ^u rl ^u dl ^e	5 10 1 1 1 1
worm	w ^u rm	5 10 1
worst	w ^u rst	5 10 1 1

FILTER ELEVEN

WORD	DECODE	FILTER LEVEL
abash	ǔbǎsh	1 1 1 11
abolish	ǔbǒlish	1 1 1 1 1 11
abound	ǔbound	1 1 11 1 1
about	ǔbout	1 1 11 1
admonish	ǎdmǒnish	1 1 1 1 1 1 11
afresh	ǔfrĕsh	1 1 1 1 11
aftermath	ǎftǔrmǎth(1)	1 1 1 2 1 1 11
afternoon	ǎftǔrnoōn	1 1 1 2 1 11 1
afoot	ǔfoōt	1 1 11 1
aground	ǔground	1 1 1 11 1 1
along	ǔlǒng	1 1 1 11
alongside	ǔlǒngsīd	1 1 1 11 1 8 1
aloof	ǔloōf	1 1 11 1
aloud	ǔloud	1 1 11 1
ambiguous	ǎmbĭgūus	1 1 1 1 1 5 11 1
ambush	ǎmbōōsh	1 1 1 9 11
amount	ǎmount	1 1 11 1 1
anathema	ǔnǎth(1)ǔmǔ	1 1 1 11 5 1 1
anchovy	ǎnchōvĭ	1 1 11 1 1 1
anger	ǎnggŭr	1 11 1 2
angle	ǎnggŭl	1 11 1 5

WORD	DECODE	FILTER LEVEL
angling	ǎngglǐng	1 9 1 1 1 11
anther	ǎnth(1)ǔr	1 1 11 2
anthology	ǎnth(1)ǒloǐjǐ	1 1 11 1 1 1 5 1
anthropoid	ǎnth(1)rǔpǒid	1 1 11 1 1 1 1 1
anthropologist	ǎnth(1)rǔpǒlǔjǔst	1 1 11 1 1 1 1 1 1 5 1 1 1
anthropology	ǎnth(1)rǔpǒlǔjē	1 1 11 1 1 1 1 1 1 5 1
antipathy	ǎntǐpǔth(1)ē	1 1 1 1 1 1 11 1
antithetic	ǎntǔth(1)ětik	1 1 1 1 11 1 1 1 1
apathetic	ǎpǔth(1)ětik	1 1 1 11 1 1 1 1
apathy	ǎpǔth(1)ē	1 1 1 11 1
aquatic	ǔkwǒtik	1 11 5 1 1 1
aqueous	ǎkweǔs	1 11 1 10 1
arch	ǒrch	5 1 11
archer	ǒrchǔr	5 1 11 2
archery	ǒrchǔrǐ	5 1 11 2 1
arithmetical	ǎrǐth(1)mětikǔl	1 1 1 11 1 1 1 1 1 1 1
around	ǔround	1 1 11 1 1
articulation	ǒrtǐkǔlǎshǔn	5 1 1 1 1 5 1 1 11 1 1
ash	ǎsh	1 11
astonish	ǔstǒnǐsh	1 1 1 1 1 1 11
astonishment	ǔstǒnǐshmǔnt	1 1 1 1 1 1 11 1 5 1 1
astound	ǔstound	1 1 1 11 1 1
atheism	ǎthēǐzm	1 11 1 1 5 1
atheist	ǎth(1)ēǐst	1 11 1 1 1 1
athirst	ǔth(1)ǔrst	1 11 1 1 1 1

WORD	DECODE	FILTER LEVEL
athletic	ǎth(1)lětík	1 11 1 1 1 1 1
athletics	ǎth(1)lětíks	1 11 1 1 1 1 1 1
athwart	ǔth(1)wört	1 11 5 5 1 1
authentic	ǒth(1)ǎntík	10 11 1 1 1 1 1
authority	ǒthǒrútē	10 11 1 1 1 1 1
avouch	ǔvouch	1 1 11 11
avow	ǔvou	1 1 11
avowal	ǔvouǔl	1 1 11 1 1
baboon	bǔboón	1 1 1 11 1
bang	bāng	1 1 11
banish	bānǐsh	1 1 1 1 11
banking	bāngkǐng	1 1 9 5 1 11
banquet	bāngkwět	1 1 9 11 1 1
bashful	bāshfǔl	1 1 11 1 1 1
bath	bǎth(1)	1 1 11
bathe	bāth(1)	1 8 11
battleship	bǎtǔlshǐp	1 1 2 5 11 1 1
beach	bēch	1 10 11
beaming	bēmǐng	1 10 1 1 11
bedroom	bēdrǒom	1 1 1 1 11 1
being	bēǐng	1 1 1 11
belch	bělch	1 1 1 11
bench	běch	1 1 1 11
bencher	běchǔr	1 1 1 11 2
bleach	blēch	1 1 10 11

WORD	DECODE	FILTER LEVEL
bleacher	blēchūr	1 1 10 11 2
blemish	blēmīsh	1 1 1 1 1 11
blanch	blānch	1 1 1 1 11
blandish	blāndīsh	1 1 1 1 1 1 11
blithe	blīth(1)	1 1 8 11
bloom	blōom	1 1 11 1
bloomer	blōomūr	1 1 11 1 2
blush	blūsh	1 1 1 11
book	bōok	1 11 5
bookkeeper	bōokkēper	1 11 5 5 8 1 2
booklet	bōoklūt	1 11 5 1 5 1
boom	bōom	1 11 1
boomerang	bōomūrāng	1 11 1 2 1 11
boon	bōon	1 11 1
boondoggle	bōondōgūl	1 11 1 1 1 2 5
boost	bōost	1 11 1 1
boot	bōot	1 11 1
booth	bōoth(1)	1 11 11
bootleg	bōotlēg	1 11 1 1 1 1
bother	bōth(1)ūr	1 1 11 2
bound	bound	1 11 1 1
boundary	boundūre	1 11 1 1 1 1 1
bout	bout	1 11 1
bounteous	bountēūs	1 11 1 1 1 10 1
bounty	bountē	1 11 1 1 1

WORD	DECODE	FILTER LEVEL
bow	bou	1 11
bowel	bou ^u l	1 11 5 1
bower	bou ^u r	1 11 2
bowery	bou ^u rē	1 11 2 1
branch	br ^u anch	1 1 1 1 11
brandish	br ^u and ^u sh	1 1 1 1 1 1 11
brash	br ^u ash	1 1 1 11
breach	brē ^h	1 1 10 11
breath	brē ^h (1)	1 1 10 11
brethren	brē ^h (2)r ^u n	1 1 1 11 1 5 1
breathless	brē ^h (1)l ^u s	1 1 10 11 1 5 2
bring	br ^u ing	1 1 1 11
brook	br ^o ok	1 1 11 5
broom	br ^o om	1 1 11 1
broomstick	br ^o om ^u st ^u k	1 1 11 1 1 1 1 10
broth	br ^o th(1)	1 1 1 11
brow	brou	1 1 11
brush	br ^u sh	1 1 1 11
brushwood	br ^u shw ^o od	1 1 1 11 5 11 1
bulrush	b ^u l ^u r ^u sh	1 1 1 1 1 11
bunch	b ^u n ^u ch	1 1 1 11
bunting	b ^u n ^u ting	1 1 1 1 1 11
burnish	br ^u nish	1 10 1 1 11
cartoon	k ^o r ^u t ^o on	1 5 1 1 11 1
cash	k ^u sh	1 1 11

WORD	DECODE	FILTER LEVEL
catfish	kătfish	1 1 1 1 1 11
catholic	kăth(1)ulik	1 1 11 1 1 1 1
calisthenics	kălisth(1)ëniks	1 1 1 1 1 11 1 1 1 1 1
cauliflower	kôliflouur	1 10 1 1 1 1 11 2
chafe	chāf	11 8 1
chain	chān	11 10 1
champ	chāmp	11 1 1 1
change	chānj	11 8 1 5
changeless	chānjlūs	11 8 1 5 1 5 2
changeling	chānjling	11 8 1 5 1 1 11
chant	chānt	11 1 1 1
chantry	chāntre	11 1 1 1 1 1
chap	chāp	11 1 1
chapel	chāpūl	11 1 1 5 1
chaplet	chāplūt	11 1 1 1 5 1
chapter	chāptūr	11 1 1 1 2
char	chōr	11 5 1
chard	chōrd	11 5 1 1
charger	chōrjūr	11 5 1 5 2
charitable	chārūtūbūl	11 1 1 1 1 1 1 5
charity	chārūtē	11 1 1 1 1 1
charm	chōrm	11 5 1 1
chart	chōrt	11 5 1 1
charter	chōrtūr	11 5 1 1 2
chary	chōrī	11 5 1 1

WORD	DECODE	FILTER LEVEL
chaste	chāst	11 8 1 1
chastity	chāstūtè	11 1 1 1 1 1 1
chat	chăt	11 1 1
cheat	chēt	11 10 1
check	chĕk	11 1 10
cheep	chēp	11 10 1
cherish	chĕrish	11 1 1 1 11
cherubim	chĕrŭbĭm	11 1 1 1 1 1 1
chess	chĕs	11 1 2
chest	chĕst	11 1 1 1
chick	chĭk	11 1 10
chicory	chĭkōrē	11 1 1 1 1 1
chide	chĭd	11 8 1
chilblain	chĭlblān	11 1 1 1 1 10 1
child	chĭld	11 5 1 1
chime	chĭm	11 8 1
chin	chĭn	11 1 1
china	chĭnu	11 5 1 1
chink	chĭnk	11 1 1 5
chip	chĭp	11 1 1
chipmunk	chĭpmŭnk	11 1 1 1 1 1 5
chitchat	chĭtchăt	11 1 1 11 1 1
chive	chĭv	11 8 1
chock	chĕk	11 1 10
chop	chĕp	11 1 1

WORD	DECODE	FILTER LEVEL
chortle	ch ^o rt ^u l	11 1 1 1 5
chosen	ch ^o z ^u n	11 1 5 5 1
chow	chou	11 11
chowder	chou ^d ur	11 11 1 2
chub	ch ^u b	11 1 1
chuck	ch ^u k	11 1 10
chuckle	ch ^u ku ^l	11 1 10 5
chug	ch ^u g	11 1 1
chum	ch ^u m	11 1 1
chunk	ch ^u nk	11 1 1 5
church	church	11 10 11
churchman	church ^m an	11 10 11 1 1 1
churl	chur ^l	11 10 1
churlish	chur ^l ish	11 10 1 1 11
churn	churn	11 10 1
clang	kl ^a ng	1 1 1 11
clash	kl ^a sh	1 1 1 11
clearing	kl ^e ring	1 1 10 1 1 11
clench	kl ^e nch	1 1 1 1 11
clinch	kl ⁱ nch	1 1 1 1 11
cling	kl ⁱ ng	1 1 1 11
cloth	kl ^o th(1)	1 1 1 11
clothe	kl ^o th(2)	1 1 1 11
clothing	kl ^o th(2)ing	1 1 1 11 1 11
cloud	klou ^d	1 1 11 1

WORD	DECODE	FILTER LEVEL
cloudburst	kloudburst	1 1 11 1 1 10 1 1
cloudy	kloudē	1 1 11 1 1
clout	klout	1 1 11 1
clung	klung̣	1 1 1 11
clutch	klucḥ	1 1 1 11
coating	koting̣	1 10 1 1 11
cocoon	kukoon	1 1 1 11 1
codfish	kodfisḥ	1 1 1 1 1 11
coming	kuming̣	1 11 1 11
compound	kompound	1 1 1 1 11 1 1
confiding	könfiding̣	1 1 1 1 5 1 1 11
confound	könfound	1 1 1 1 11 1 1
conquest	könkwëst	1 1 1 11 1 1 1
consequent	könsekwënt	1 1 1 1 1 11 1 1 1
consequently	könsekwëntlē	1 1 1 1 1 11 1 1 1 1 1
cook	kooḳ	1 11 5
cookbook	kookbooḳ	1 11 5 1 11 5
cookery	kookerē	1 11 5 2 1
cooky	kookē	1 11 5 1
cool	kool	1 11 1
cooler	kooler	1 11 1 2
coolly	koollē	1 11 1 1
coon	koon	1 11 1
coop	koop	1 11 1
cooper	koooper	1 11 1 2

WORD	DECODE	FILTER LEVEL
coot	kōot	1 11 1
coping	kōping	1 1 1 1 11
cornflower	kōrnflower	1 1 1 1 1 1 11 2
cornstarch	kōrnstōrch	1 1 1 1 1 1 5 1 11
couch	kouch	1 11 11
count	kount	1 11 1 1
countenance	kountēnēs	1 11 1 1 1 1 9 1 1
counter	kounter	1 11 1 1 2
counteract	kounterākt	1 11 1 1 2 1 1 1
counterbalance	kounterbālēs	1 11 1 1 2 1 1 1 9 1 1
countermand	kountermānd	1 11 1 1 2 1 1 1 1
counterpart	kounterpōrt	1 11 1 1 2 1 5 1 1
counterrevolution	kounterrevōlōōshūn	1 11 1 1 2 1 1 1 1 1 9 7 1 1
countervail	kountervāl	1 11 1 1 2 1 10 1
countess	kountēs	1 11 1 1 1 2
county	kountē	1 11 1 1 1
cow	kow	1 11
cower	kower	1 11 2
cowhide	kowhid	1 11 5 8 1
cowslip	kowslīp	1 11 1 1 1 1
crash	krāsh	1 1 1 11
crook	krōok	1 1 11 5
crooked	krōokēd	1 1 11 5 1 1
croon	krōon	1 1 11 1
crouch	krouch	1 1 11 11
crunch	krūnch	1 1 1 1 11

WORD	DECODE	FILTER LEVEL
crush	krůsh	1 1 1 11
crutch	krůch	1 1 1 11
curbing	kurbĭng	1 10 1 1 11
daring	děring	1 1 1 1 11
darling	dōrlĭng	1 5 1 1 1 11
dash	dāsh	1 1 11
dealing	dēlĭng	1 10 1 1 11
death	děth(1)	1 10 11
deathbed	děth(1)běd	1 10 11 1 1 1
deathless	děth(1)lěs	1 10 11 1 1 2
deathlike	děth(1)lik	1 10 11 1 8 5
deathly	děth(1)lē	1 10 11 1 1
debauch	děbōch	1 1 1 10 11
debauchery	děbōcherē	1 1 1 10 11 2 1
decathlon	děkāth(1)lōn	1 1 1 1 11 1 1 1
demolish	děmōlĭsh	1 1 1 1 1 1 11
denature	dēnāchur	1 1 1 1 11 10
denounce	dēnouns	1 1 1 11 1 1
departure	děpōrtchur	1 1 1 5 1 1 11 10
depth	děpth(1)	1 1 1 11
dervish	dervĭsh	1 2 1 1 11
deserving	dězervĭng	1 1 5 2 1 1 11
devour	děvour	1 1 1 11 1
devout	děvout	1 1 1 11 1
diminish	dĭmĭnĭsh	1 1 1 1 1 1 11

WORD	DECODE	FILTER LEVEL
ding	d ^u ing	1 1 11
dingle	d ^u ingl ^e	1 1 11 5
dingy	d ^u ing ^e	1 1 11 1
discharge	d ^u isch ^u rj	1 1 1 11 5 1 5
disentangle	d ^u is ^e nt ^u ang ^e l	1 1 1 1 1 1 1 11 1 2
dismount	d ^u ismount	1 1 1 1 11 1 1
dispatch	d ^u isp ^a ch	1 1 1 1 1 11
disquiet	d ^u iskwi ^u t	1 1 1 11 5 5 1
ditch	d ^u ich	1 1 11
doom	d ^u oom	1 11 1
dormouse	d ^u o(u)rma ^u o ^u s	1 1 1 1 1 11 1
dowel	d ^u ao ^u o ^u l	1 11 5 1
dower	d ^u ao ^u o(u)r	1 11 1
dowry	d ^u o(u)re	1 11 1 1
dragoon	dr ^u go ^u on	1 1 1 1 11 1
drench	dr ^u ench	1 1 1 1 11
driftwood	dr ^u iftwo ^u od	1 1 1 1 1 5 11 1
droop	dro ^u op	1 1 11 1
drouth	drouth(1)	1 1 11 11
drowsy	drouz ^e	1 1 11 5 1
dugout	d ^u gout	1 1 1 11 1
dumfound	d ^u mfound	1 1 1 1 11 1 1
dumpling	d ^u mpl ^u ing	1 1 1 1 1 1 11
each	e ^u ch	10 11
eleventh	e ^u lev ^u nth	1 1 1 1 5 1 11

WORD	DECODE	FILTER LEVEL
eloquence	ēlūkwūns	1 1 1 11 5 1 1
eloquent	ēlūkwūnt	1 1 1 11 5 1 1
empathy	ēmpāth(1)e	1 1 1 1 11 1
ending	ēndīng	1 1 1 1 11
equal	ēkwūl	1 11 1 1
equality	ēkwōlūtē	1 11 1 1 1 1 1
equalization	ēkwūlīzāshūn	1 11 1 1 1 9 1 7 1 1
equalize	ēkwūlīz	1 11 1 1 8 9
equanimity	ēkwūnīmūtē	1 111 1 1 1 1 1 1
equate	ēkwāt	1 11 8 1
equip	ēkwīp	1 11 1 1
equipment	ēkwīpmūnt	1 11 1 1 1 5 1 1
equivalent	ēkwīvūlūnt	1 11 1 1 1 1 5 1 1
equivocal	ēkwīvūkel	1 11 1 1 1 1 5
esquire	ēskwī(u)r	1 1 11 8 1
establish	ēstāblīsh	1 1 1 1 1 1 1 11
establishment	ēstāblīshmūnt	1 1 1 1 1 1 1 11 1 5 1 1
estuary	ēschūere	1 1 11 1 1 1 1
etch	ēch	1 11
etching	ēchīng	1 11 1 11
ether	ēth(1)ūr	1 11 2
ethereal	ēthīreul	1 11 1 1 1 1 1
ethical	ēth(1)īkūl	1 11 1 1 1 1
ethics	ēth(1)īks	1 11 1 1 1
ethnic	ēth(1)nīk	1 11 1 1 1

WORD	DECODE	FILTER LEVEL
ethnology	ěth(1)nólújē	1 11 1 1 1 1 5 1
ethos	ěth(2)os	1 11 1 1
everlasting	ěvurlásting	1 1 5 1 1 1 1 1 1 11
expound	ěkspound	1 9 1 11 1 1
famish	famish	1 1 1 1 11
fandango	fándanggō	1 1 1 1 1 11 1 1
fang	fāng	1 1 11
farther	fōrth(2)ūr	1 5 1 11 2
farthest	fōrth(2)úst	1 5 1 11 5 1 1
farthing	fōrth(2)ing	1 5 1 11 1 11
father	fōth(2)er	1 5 11 2
fatherland	fōth(2)erlānd	1 5 11 2 1 1 1 1
fatherless	fōth(2)erles	1 5 11 2 1 1 2
fatherly	fōth(2)ěrlē	1 5 11 2 1 1
festoon	fěstoōn	1 1 1 1 11 1
fetch	fěch	1 1 11
fetish	fětish	1 1 1 1 11
feverish	fēverish	1 1 1 2 1 11
fifteenth	fifteenth	1 1 1 1 10 1 11
fifth	fifth	1 1 1 11
filch	filch	1 1 1 11
filing	filing	1 5 1 1 11
filth	filth(1)	1 1 1 11
filthy	filth(1)e	1 1 1 11 1
finch	finch	1 1 1 11

WORD	DECODE	FILTER LEVEL
finding	f̄inding ^u	1 5 1 1 1 11
finger	fingger ^u	1 1 11 1 2
fingerling	finggerling ^u	1 1 11 1 2 1 1 11
finger nail	fingger ^u nāl	1 1 11 1 2 1 10 1
finger print	fingger ^u print ^u	1 1 11 1 2 1 1 1 1 1
finish	fin ^u ish ^u	1 1 1 1 11
fish	fish ^u	1 1 11
fisher	fisher ^u	1 1 11 2
fisherman	fisher ^u mēn ^u	1 1 11 2 1 1 1
fishery	fisher ^u e ^u	1 1 11 2 1
fishing	fish ^u ing ^u	1 1 11 1 11
flagship	flag ^u ship ^u	1 1 1 1 11 1 1
flash	flash ^u	1 1 1 11
flashing	flash ^u ing ^u	1 1 1 11 1 11
flashlight	flash ^u lit ^u	1 1 1 11 1 5 1
flashy	flash ^u e ^u	1 1 1 11 1
flesh	flesh ^u	1 1 1 11
fleshly	flesh ^u le ^u	1 1 1 11 1 1
fleshy	flesh ^u e ^u	1 1 1 11 1
flinch	flinch ^u	1 1 1 1 11
fling	fling ^u	1 1 1 11
flounce	floun ^u s	1 1 11 1 1
flounder	flounder	1 1 11 1 1 2
flour	flour	1 1 11 1
flout	flout	1 1 11 1

WORD	DECODE	FILTER LEVEL
flower	flouer	1 1 11 2
floweret	flouer ^u et	1 1 11 2 1 1
flowerpot	flouer ^u pot	1 1 11 2 1 1 1
flowery	flouere ^u	1 1 11 2 1
fluctuate	fl ^u lkchu ^a t	1 1 1 1 11 1 8 1
fluctuation	fl ^u lkchu ^a sh ^u n	1 1 1 1 11 5 1 7 1 1
flung	fl ^u ng	1 1 1 11
flush	fl ^u sh	1 1 1 11
food	f ^o od	1 11 1
fool	f ^o ol	1 11 1
foolery	f ^o olere ^u	1 11 1 2 1
foolhardy	f ^o olho ^r de ^u	1 11 1 5 1 1 1 1
foolish	f ^o ol ⁱ sh	1 11 1 1 11
foot	f ^o ot	1 11 1
football	f ^o otbo ^l	1 11 1 1 1 2
footfall	f ^o otfo ^l	1 11 1 1 1 2
foothill	f ^o oth ⁱ l	1 11 1 5 1 2
foothold	f ^o otho ^l d	1 11 1 5 1 1 1
footman	f ^o otma ⁿ	1 11 1 1 1 1
footpath	f ^o otpa th (1)	1 11 1 1 1 11
footprint	f ^o otpri ⁿ t	1 11 1 1 1 1 1 1
footstep	f ^o otste ^p	1 11 1 1 1 1 1
foregoing	f ^o r ^g o ⁱ ng	1 1 1 1 1 1 11
foreshorten	f ^o rsho ^r te ⁿ	1 1 1 11 1 1 1 1 1
forgiving	f ^o r ^g i ^v ing	1 1 1 1 1 1 1 11

WORD	DECODE	FILTER LEVEL
forsooth	fōrsōoth(1)	1 1 1 1 11 11
forth	fōrth(1)	1 1 1 11
forthcoming	fōrth(1)kūmīng	1 1 1 11 1 1 1 1 11
forthwith	fōrth(1)wīth(1)	1 1 1 11 5 1 11
fortieth	fōrtēth(1)	1 1 1 1 1 11
foul	foul	1 11 1
found	found	1 11 1 1
foundation	foundāshūn	1 11 1 1 1 7 1 1
founder	founder	1 11 1 1 2
foundry	foundrē	1 11 1 1 1 1
fount	fount	1 11 1 1
frequent	frēkwēnt	1 1 1 11 1 1 1
fresh	fresh	1 1 1 11
freshet	freshet	1 1 1 11 1 1
freshman	freshmūn	1 1 1 11 1 1 1
froth	froth(1)	1 1 1 11
gadabout	gādūbout	1 1 1 1 1 11 1
galosh	gūlosh	1 1 1 1 11
gang	gāng	1 1 11
gangplank	gāngplāngk	1 1 11 1 1 1 11 5
gangster	gāngstūr	1 1 11 1 1 2
gangway	gāngwā	1 1 11 5 10
garish	gārish	1 1 1 1 11
garnish	gōrnish	1 5 1 1 1 11
gash	gash	1 1 11

WORD	DECODE	FILTER LEVEL
gather	gǎth(2)ǔr	1 1 11 2
gathering	gǎth(2)ǔring	1 1 11 2 1 11
gelding	gǎlding	1 1 1 1 1 11
girth	gǔrth(1)	1 1 1 11
glaring	glǎring	1 1 1 1 1 11
gloom	gl̄oom	1 1 11 1
gloomy	gl̄oomi	1 1 11 1 1
glower	glouǔr	1 1 11 2
godfather	godfǎth(2)ǔr	1 11 1 1 11 2
going	gōing	1 1 1 11
goldfinch	goldf̄inch	1 1 1 1 1 1 1 11
goldfish	goldf̄ish	1 1 1 1 1 1 11
goldsmith	goldsm̄ith(2)	1 1 1 1 1 1 1 11
gong	gōng	1 1 11
good	gōod	1 11 1
goodly	gōodli	1 11 1 1 1
goodness	gōodn̄us	1 11 1 1 5 2
gosling	gōzling	1 1 5 1 1 11
groom	gōom	1 1 11 1
grouch	grouch	1 1 11 11
ground	gr̄ound	1 1 11 1 1
gulch	gǔlch	1 1 1 11
gunpowder	gǔnpowder	1 1 1 1 11 1 2
gush	gǔsh	1 1 11
gusher	gǔsher	1 1 11 2

WORD	DECODE	FILTER LEVEL
haberdasher	hāberdāsher	5 1 1 2 1 1 11 2
hamstring	hāmstring	5 1 1 1 1 1 1 11
handbook	hāndbōok	5 1 1 1 1 11 5
hang	hāng	5 1 11
hanger	hānger	5 1 11 2
hanging	hānging	5 1 11 1 11
harbinger	hōrbīnger	5 5 1 1 1 11 2
hardwood	hōrdwōod	5 5 1 1 5 11 1
harlequin	hōrlēkwīn	5 5 1 1 1 11 1 1
harmonious	hōrmōneūs	5 5 1 1 1 1 1 11 1
harpoon	hōrpōon	5 5 1 1 11 1
harsh	hōrsh	5 5 1 11
hash	hāsh	5 1 11
hatch	hāch	5 1 11
hatchet	hāchēt	5 1 11 1 1
haunch	hōnch	5 10 1 11
heath	hēth(1)	5 10 11
henchman	hēnchmān	5 1 1 11 1 1 1
herewith	hīrwith(1)	5 1 1 5 1 11
hitch	hīch	5 1 11
hither	hīth(1)ūr	5 1 11 5 1
hitherward	hīth(1)ūrward	5 1 11 5 1 5 1 1 1
hitherwards	hīth(1)ūrwardz	5 1 11 5 1 5 1 1 1 5
holding	hōlding	5 1 1 1 1 11
hood	hōod	5 11 1

WORD	DECODE	FILTER LEVEL
hooded	hōōdūd	5 11 1 5 1
hoodwink	hōōdwīngk	5 11 1 5 1 11 5
hoof	hōōf	5 11 1
hook	hōōk	5 11 5
hooker	hōōkūr	5 11 5 5 1
hooky	hōōkē	5 11 5 1
hopscotch	hōpskōch	5 1 1 1 1 1 11
hothouse	hōthous	5 1 1 5 11 1
hound	hound	5 11 1 1
hour	our	11 1
hourly	ourlē	11 1 1 1
house	houz	5 11 9
householder	houshōlder	5 11 1 5 1 1 1 2
housekeeper	houškeper	5 11 1 5 1 1 2
housetop	houstōp	5 11 1 1 1 1
housewife	houswif	5 11 1 5 8 1
housework	houswūr	5 11 1 5 1 1 5
hulking	hūlkīng	5 1 1 5 1 11
hunch	hūnch	5 1 1 11
hunchback	hūnchbāk	5 1 1 11 1 1 10
hung	hūng	5 1 11
hunger	hūnger	5 1 11 2
hungry	hūngre	5 1 11 1 1
hush	hūsh	5 1 11
hutch	hūch	1 1 11

WORD	DECODE	FILTER LEVEL
ignition	ignishun	1 1 1 1 11 1 1
imitation	imutashun	1 1 1 1 1 11 1 1
impartial	importshul	1 1 1 5 1 1 11 1 1
impeach	impech	1 1 1 10 11
impeachment	impechmunt	1 1 1 10 11 1 5 1 1
imperfection	impurfekshun	1 1 1 5 1 1 1 1 11 1 1
implication	implukashun	1 1 1 1 1 1 1 11 1 1
imposing	impozing	1 1 1 1 5 1 11
impoverish	impovurish	1 11 1 1 5 1 11
incantation	inkantashun	1 1 1 1 1 1 1 11 1 1
inch	inch	1 1 11
inequality	inekwołuti	1 1 1 11 5 1 1 1 1
infatuate	infachuāt	1 1 1 1 11 5 8 1
infatuation	infachuashun	1 1 1 1 11 5 1 7 1 1
infrequent	infrekwent	1 1 1 1 1 11 1 1 1
inkling	inkling	1 1 5 1 1 11
inquest	inkwest	1 1 11 1 1 1
inquire	inkwir	1 1 11 8 1
inquiry	inkwire	1 1 11 5 1 1
interchange	inturchanj	1 1 1 2 11 8 1 5
intrench	intrench	1 1 1 1 1 1 11
kindling	kindling	5 1 1 1 1 1 11
kindred	kindrud	5 1 1 1 1 5 1
king	king	5 1 11
kingfisher	kingfishur	5 1 11 1 1 11 2

WORD	DECODE	FILTER LEVEL
kingly	kingl [˘] i [˘]	1 1 11 1 1
lagoon	l [˘] u [˘] g [˘] o [˘] o [˘] n	1 1 1 11 1
lampoon	l [˘] a [˘] m [˘] p [˘] o [˘] n	1 1 1 1 11 1
larch	l [˘] o [˘] r [˘] ch	1 5 1 11
lash	l [˘] a [˘] sh	1 1 11
lath	l [˘] a [˘] th(2)	1 1 11
lathe	l [˘] a [˘] th(1)	1 8 11
lather	l [˘] a [˘] th(1)u [˘] r	1 1 11 2
launch	l [˘] o [˘] n [˘] ch	1 10 1 11
lavish	l [˘] a [˘] v [˘] i [˘] sh	1 1 1 1 11
leach	l [˘] e [˘] ch	1 10 11
leash	l [˘] e [˘] sh	1 10 11
length	l [˘] e [˘] n [˘] g [˘] th(1)	1 1 11 11
lengthen	l [˘] e [˘] n [˘] g [˘] th(1)u [˘] n	1 1 11 11 5 1
lengthy	l [˘] e [˘] n [˘] g [˘] th(1)i	1 1 11 11 1
lethal	l [˘] e [˘] th(1)u [˘] l	1 1 11 1 1
ling	l [˘] i [˘] ng	1 1 11
lingo	l [˘] i [˘] ng [˘] o	1 1 11 1 1
lining	l [˘] i [˘] ng	1 5 1 1 11
lithe	l [˘] i [˘] th(1)	1 8 11
long	l [˘] o [˘] ng	1 1 11
longing	l [˘] o [˘] ng [˘] i [˘] ng	1 1 11 1 11
longingly	l [˘] o [˘] ng [˘] i [˘] ng [˘] l [˘] e	1 1 11 1 11 1 1
look	l [˘] o [˘] ok	1 11 5
loom	l [˘] o [˘] o [˘] m	1 11 1

WORD	DECODE	FILTER LEVEL
loon	l ^o o ⁿ	1 11 1
loop	l ^o o ^p	1 11 1
loosen	l ^o o ^s u ⁿ	1 11 1 5 1
loot	l ^o o ^t	1 11 1
lunch	l ^u n ^{ch}	1 1 1 11
lung	l ^u n ^g	1 1 11
lush	l ^u sh	1 1 11
marathon	m ^a r ^u th(1) ^o n	1 1 1 1 11 1 1
march	m ^a r ^{ch}	1 5 1 11
maroon	m ^a r ^o o ⁿ	1 1 1 11 1
marsh	m ^a r ^{sh}	1 5 1 11
mash	m ^a sh	1 1 11
mathematical	m ^a th(1) ^u m ^a t ⁱ k ^u l	1 1 11 5 1 1 1 1 1 1 1
mathematics	m ^a th(1) ^u m ^a t ⁱ ks	1 1 11 5 1 1 1 1 1 1
meaning	m ^e n ⁱ n ^g	1 10 1 1 11
merchant	m ^a r ^{ch} u ⁿ t	1 5 1 11 1 1 1
mesh	m ^e sh	1 1 11
methodical	m ^a th(2) ^o d ⁱ k ^u l	1 5 11 1 1 1 1 1 1
misanthropic	m ⁱ s ^u n th (2) ^r o ^p i ^k	1 1 1 1 1 11 1 1 1 1 1
midshipman	m ⁱ d ^{sh} i ^p m ^a n	1 1 1 11 1 1 1 1 1
mingle	m ⁱ n ^g g ^e l	1 1 11 1 1 1
mining	m ⁱ n ⁱ n ^g	1 5 1 1 11
misshape	m ⁱ s ^h a ^p	1 1 1 11 8 1
mistook	m ⁱ s ^t o ^o k	1 1 1 1 11 5
monolithic	m ^o n ^u l ⁱ th ⁱ k	1 1 1 1 1 1 11 1 1

WORD	DECODE	FILTER LEVEL
monotheism	mōnūth(1)eīzm	1 1 1 1 11 1 1 5 1
monsoon	mōnsoōn	1 1 1 1 11 1
mood	mōōd	1 11 1
moody	mōōde	1 11 1 1
moon	mōōn	1 11 1
moonbeam	mōōnbēm	1 11 1 1 10 1
moonlight	mōōnlīt	1 11 1 1 1 1
moonshine	mōōnshīn	1 11 1 11 8 1
moot	mōōt	1 11 1
morning	mōrning	1 1 1 1 1 11
moth	mōth(1)	1 1 11
mound	mound	1 11 1 1
mount	mount	1 11 1 1
mouse	mouz	1 11 5
mouth	mouth(1)	1 11 11
mouthful	fouth(2)foō1	1 11 11 1 9 1
mulch	mūlch	1 1 1 11
munch	mūnch	1 1 1 11
mush	mūsh	1 1 11
mushroom	mūshroōm	1 1 11 1 11 1
nebulous	nēbūlū	1 1 1 1 1 11 1
neolithic	nēūlīth(1)īk	1 1 1 1 1 11 1 1
nestling	nēstlīng	1 1 1 1 1 1 11
nether	nēth(1)ūr	1 1 11 2
ninth	nīnth(1)	1 5 1 11

WORD	DECODE	FILTER LEVEL
nook	n ^o ok	1 11 5
noon	no ^o n	1 11 1
noonday	no ^o nda	1 11 1 1 10
noontide	no ^o tid	1 11 1 1 8 1
north	n ^o urth(1)	1 1 5 1 11
northeast	n ^o rth(1)e ^s t	1 1 1 11 10 1 1
northern	n ^o rth(2)u ^r n	1 1 1 11 5 1 1
northward	n ^o rth(1)w ^u rd	1 1 1 11 5 1 1 1
northwest	n ^o rth(1)w ^e st	1 1 1 11 5 1 1 1
notch	n ^o ch	1 1 11
notwithstanding	n ^o twith(1)st ^a nd ⁱ ng	1 1 1 5 1 11 1 1 1 1 1 1 1 1 1 1
noun	noun	1 11 1
now	nou	1 11
nuptial	n ^u psh ^u l	1 1 1 11 1 1
nutrition	n ^o otr ⁱ sh ^u n	1 9 1 1 1 11 1 1
nutritious	n ^o otr ⁱ sh ^u s	1 9 1 1 1 11 10 1
nutshell	n ^u tsh ^e l	1 1 1 11 1 2
oblation	u ^b l ^a sh ^u n	1 1 1 1 11 1 1
obliging	u ^b l ⁱ ng	1 1 1 1 5 1 11
oblong	o ^b l ^o ng	1 1 1 1 11
obloquy	o ^b l ^u k ^w e	1 1 1 1 11 1
observation	u ^b z ^u r ^v a ^s h ^u n	1 1 5 5 1 1 1 11 1 1
obstruction	u ^b str ^u k ^{sh} u ⁿ	1 1 1 1 1 1 1 11 1 1
oilcloth	o ⁱ l ^u kl ^o th(1)	1 1 1 1 1 1 1 11
onlooker	o ⁿ l ^o o ^k u ^r	1 1 1 11 1 5 1

WORD	DECODE	FILTER LEVEL
opening	op ^u ning ^u	1 1 5 1 1 11
optional	opshn ^u l ^u	1 1 11 1 1 1
orangutan	ur ^u ang ^u ut ^u ang ^u	1 1 1 11 1 1 1 11
oration	or ^u ash ^u un	1 1 1 11 1 1
ornithologist	orn ^u uth(2)ol ^u uj ^u ust ^u	1 1 1 1 11 1 1 1 5 1 1 1
orthodox	orth(2)od ^u oks ^u	1 1 11 1 1 1 9
orthodoxy	orth(2)odok ^u se ^u	1 1 11 1 1 1 9 1
orthopedic	orth(2)op ^u ed ^u ik ^u	1 1 11 1 1 1 1 1 1
ostentation	ost ^u ent ^u ash ^u un	1 1 1 1 1 1 1 11 1 1
osteopath	ost ^u eo ^u path(1)	1 1 1 1 1 1 1 11
osteopathy	ost ^u eo ^u path(1)e	1 1 1 1 1 1 1 11 1
ounce	oun(t)s	11 1 1 1
our	our	11 1
ours	ourz	11 1 5
ourselves	ours ^u el ^u ves	11 1 1 1 1 1
oust	oust	11 1 1
out	out	11 1
outburst	out ^u bur ^u st	11 1 1 1 1 1 1
outcast	out ^u cast	11 1 1 1 1 1
outcrop	out ^u cr ^u op	11 1 1 1 1 1
outcry	out ^u cri ^u	11 1 1 1 9
outer	out ^u er	11 1 5 1
outgoing	out ^u go ^u ing	11 1 1 1 1 11
outgrow	out ^u gr ^u ow	11 1 1 1 10
outhouse	outhous	11 1 5 11 1

WORD	DECODE	FILTER LEVEL
outing	outing	11 1 1 11
outlandish	outlāndish	11 1 1 1 1 1 1 11
outlast	outlast	11 1 1 1 1 1
outlay	outlay	11 1 1 10
outlet	outlēt	11 1 1 1 1
outline	outlin	11 1 1 8 1
outlook	outlook	11 1 1 11 5
outpost	outpōst	11 1 1 1 1 1
outrage	outrāg	11 1 1 8 1
outrageous	outrājus	11 1 1 8 5 10 1
outset	outsēt	11 1 1 1 1
outshine	outshin	11 1 11 8 1
outside	outsid	11 1 1 8 1
outsider	outsidur	11 1 1 1 1 5 1
outstanding	outstānding	11 1 1 1 1 1 1 1 11
outstretch	outstrētch	11 1 1 1 1 1 1 11
outstrip	outstrip	11 1 1 1 1 1 1
outward	outwurd	11 1 5 1 1 1
outwork	outwürk	11 1 5 1 1 5
outworn	outworn	11 1 5 1 1 1
overhang	ōvūrhāng	1 1 5 1 5 1 11
overlook	ōvūrlōok	1 1 5 1 1 11 5
overmatch	ōvūrmāch	1 1 5 1 1 1 11
overpower	ōvūrpou(ū)r	1 1 2 1 11 1
overthrow	ōvūrth(1)rō	1 1 2 11 1 10

WORD	DECODE	FILTER LEVEL
paleolithic	pālēūlith(1)ik	1 1 1 1 1 1 1 11 1 1
pang	pāng	1 1 11
pantaloons	pāntulōon	1 1 1 1 1 1 11 1
pantheism	pānth(1)izm	1 1 1 11 5 1
pantheon	pānth(1)eōn	1 1 1 11 1 1 1
panther	pānth(1)er	1 1 1 11 2
paramount	pārūmount	1 1 1 1 1 11 1 1
parch	pōrch	1 5 1 11
parchment	pōrchmunt	1 5 1 11 1 5 1 1
parenthetic	pārūnth(1)etik	1 1 1 5 1 11 1 1 1 1
paring	pōring	1 5 1 1 11
parish	pārish	1 1 1 1 11
parting	pōrting	1 5 1 1 1 11
partook	pōrtōok	1 5 1 1 11 5
pasha	pōshū	1 5 11 1
patch	pach	1 1 11
patchwork	pāchwurk	1 1 11 5 1 1 5
path	pāth(1)	1 1 11
pathetic	pūth(1)etik	1 1 11 1 1 1 1
pathless	pāth(1)lus	1 1 11 1 5 2
pathological	pāth(2)ulōjikel	1 1 11 1 1 1 5 1 1 5
pathology	pāth(2)olōgē	1 1 11 1 1 1 1 1
pathos	pāth(2)os	1 1 11 1 1
pathway	pāth(1)wā	1 1 11 5 10
paunch	pōnch	1 10 1 11

WORD	DECODE	FILTER LEVEL
penchant	pēnchunt	1 1 1 11 1 1 1
perch	pērch	1 1 1 11
perish	pērish	1 1 1 1 11
periwinkle	pēriwingkel	1 1 1 1 5 1 11 5 5
perpetual	pērpēchul	1 5 1 1 1 11 1 1
perpetuate	pērpēchuat	1 5 1 1 1 11 1 8 1
peach	pēch	1 10 11
permanganate	pērmanggunat	1 5 1 1 1 11 1 1 1 8 1
petrous	pētrous	1 1 1 1 11 1
pinch	pīnch	1 1 1 11
piping	pīping	1 5 1 1 11
pitch	pīch	1 1 1 11
pitcher	pīcher	1 1 1 11 2
pitchfork	pīchfork	1 1 1 11 1 1 1 5
piteous	pīteous	1 1 1 1 11 1
pith	pīth(1)	1 1 11
pithy	pīthe	1 1 11 1
plash	płash	1 1 1 11
platoon	płutoon	1 1 1 1 11 1
pleasing	płēzing	1 1 10 5 1 11
plow	płou	1 1 11
plowman	płoumūn	1 1 11 1 1 1
plush	płush	1 1 1 11
polish	pōlish	1 1 1 1 11
poncho	pōnchō	1 1 1 11 1

WORD	DECODE	FILTER LEVEL
pontoon	p ^u nt ^o on	1 1 1 1 11 1
pool	p ^o ol	1 11 1
poop	p ^o op	1 11 1
popish	p ^o p ⁱ sh	1 1 1 1 11
porch	p ^o r ^{ch}	1 1 1 11
potash	p ^o t ^a sh	1 1 1 1 11
pouch	p ^o uch	1 11 11
pound	p ^o und	1 11 1 1
pounder	p ^o und ^{ur}	1 111 1 2
pout	p ^o ut	1 11 1
pouter	p ^o ut ^{ur}	1 11 1 2
powder	p ^o ud ^{ur}	1 11 1 2
powdery	p ^o ud ^{ur} e	1 11 1 2 1
power	p ^o u ^{ur}	1 11 2
powerful	pou(^u)r ^{fu} l	1 11 1 1 1 1
preach	p ^r e ^{ch}	1 1 10 11
prevailing	p ^r e ^v al ⁱ ng	1 1 1 1 10 1 1 11
profound	p ^r u ^f ound	1 1 1 1 11 1 1
prolong	p ^r o ^l ong	1 1 1 1 1 11
prolongation	p ^r u ^l o ^{ng} a ^{sh} u ⁿ	1 1 1 1 1 11 1 7 1 1
pronoun	p ^r o ⁿ oun	1 1 1 1 11 1
proof	p ^r o ^o f	1 1 11 1
propinquity	p ^r u ^p i ⁿ kw ⁱ t ^e	1 1 1 1 1 1 11 1 1 1
propitious	p ^r o ^p i ^{sh} ous	1 1 1 1 1 7 11 1
propound	p ^r u ^p ound	1 1 1 1 11 1 1

WORD	DECODE	FILTER LEVEL
proud	proud	1 1 11 1
proW	prou	1 1 11
proWess	prou ^u	1 1 11 1 2
publish	pub ^u lish	1 1 1 1 1 11
publisher	pub ^u lisher	1 1 1 1 1 11 2
punch	pun ^u ch	1 1 1 11
punish	pun ^u ish	1 1 1 1 11
punishment	pun ^u ishmunt	1 1 1 1 11 1 5 1 1
quadrangle	kwadr ^u angel	11 1 1 1 1 11 5
quadrant	kwadr ^u ant	11 1 1 1 1 1 1
quadratic	kwadr ^u atik	11 1 1 1 1 1 1 1
quadruped	kwadr ^u uped	11 1 1 1 1 1 1 1
quaff	kw ^u af	11 1 2
quail	kw ^u al	11 10 1
quaint	kw ^u ant	11 10 1 1
quake	kw ^u ak	11 8 5
quality	kw ^u alite	11 1 1 1 1 1
quantity	kw ^u anite	11 1 1 1 1 1
quart	kw ^u art	11 1 1 1
quarter	kw ^u arter	11 1 1 1 2
quarterly	kw ^u arterle	11 1 1 1 2 1 1
quartermaster	kw ^u artermaster	11 1 1 1 2 1 1 1 1 2
quarterstaff	kw ^u arterstaf	11 1 1 1 2 1 1 1 2
quartet	kw ^u artet	11 1 1 1 1 1
quarto	kw ^u arto	11 1 1 1 1

WORD	DECODE	FILTER LEVEL
quaver	kwāver	11 1 1 2
quell	kwel	11 1 2
quench	kwēnch	11 1 1 11
query	kwere	11 2 1
quest	kwēst	11 1 1 1
quibble	kwibel	11 1 2 5
quid	kwid	11 1 1
quiet	kwiut	11 1 5 1
quill	kwil	11 1 1
quilt	kwilt	11 1 1 1
quince	kwins	11 1 1 1
quinine	kwinin	11 1 1 8 1
quintuplet	kwintuplūt	11 1 1 1 1 1 1 5 1
quip	kwip	11 1 1
quire	kwir	11 8 1
quirk	kwirk	11 1 1 5
quiver	kwiver	11 1 1 2
quait	kwōit	11 1 1 1
quorum	kwōrūm	11 1 1 1 1
quota	kwōtā	11 1 1 1
quotation	kwōtāshūn	11 1 1 1 7 1 1
radish	rādish	1 1 1 1 11
ranch	rānch	1 1 1 11
rancher	rāncher	1 1 1 11 2
ranchman	rānchmūn	1 1 1 11 1 1 1

WORD	DECODE	FILTER LEVEL
rang	r ^u ang	1 1 11
rash	r ^u ash	1 1 11
ratchet	r ^u at ^u ch ^u t	1 1 1 11 5 1
rather	r ^u ath(1)er	1 1 11 2
ravenous	r ^u av ^u enous	1 1 1 5 1 11 1
ravish	r ^u av ^u ish	1 1 1 1 11
reach	r ^e ach	1 10 11
rebound	r ^e bound	1 1 1 11 1 1
recount	r ^e count	1 1 1 11 1 1
rectangle	r ^e kt ^u ang ^u le	1 1 1 1 1 11 5
rediscount	r ^e d ^u isk ^u ount	1 1 1 1 1 1 11 1 1
redwood	r ^e d ^u wo ^u od	1 1 1 5 11 1
refresh	r ^e fr ^u esh	1 1 1 1 1 11
refreshment	r ^e fr ^u esh ^u ment	1 1 1 1 1 11 1 5 1 1
rejoicing	r ^e jo ^u is ^u ing	1 1 9 1 1 1 1 11
relinquish	r ^e l ^u ink ^u wish	1 1 1 1 1 11 1 11
relish	r ^e l ^u ish	1 1 1 1 11
replenish	r ^e pl ^u en ^u ush	1 1 1 1 1 1 1 11
reproof	r ^e pr ^u oof	1 1 1 1 11 1
request	r ^e kw ^u est	1 1 11 1 1 1
require	r ^e kw ^u ir	1 1 11 8 1
retiring	r ^e t ^u ir ^u ing	1 1 1 1 1 1 11
retrench	r ^e tr ^u ench	1 1 1 1 1 1 11
revengeful	r ^e v ^u eng ^u fel	1 1 1 1 11 1 5
revolting	r ^e v ^u olt ^u ing	1 1 1 1 1 1 1 11

WORD	DECODE	FILTER LEVEL
riding	rīding	1 1 1 1 11
ring	rīng	1 1 11
ringer	rīnger	1 1 11 2
ringlet	rīnglūt	1 1 11 1 5 1
roof	rōof	1 11 1
rooftree	rōoftre	1 11 1 1 1 10
rook	rōok	1 11 5
room	rōom	1 11 1
roommate	rōomat	1 11 2 8 1
roomy	rōome	1 11 1 1
roost	rōost	1 11 1 1
rooster	rōoster	1 11 1 1 2
root	rōot	1 11 1
round	rōund	1 11 1 1
roundup	rōundup	1 11 1 1 1 1
rouse	rōus	1 11 1
rout	rōut	1 11 1
rowdy	rōude	1 11 1 1
runabout	rūnūbout	1 1 1 1 1 11 1
rung	rūng	1 1 11
rush	rūsh	1 1 11
sagebrush	sājbrūsh	1 8 5 1 1 1 11
saloon	sālōon	1 1 1 11 1
sang	sāng	1 1 11
sapling	sāplīng	1 1 1 1 1 11

WORD	DECODE	FILTER LEVEL
sash	s [∨] ash	1 1 11
satchel	s [∨] atchel	1 1 1 11 5
scoop	sko ^o p	1 1 11 1
scooter	sko ^o ter	1 1 11 1 2
scorch	sko ^r ch	1 1 1 1 11
scour	skour	1 1 11 1
scout	skout	1 1 11 1
scoutmaster	skoutm ^a ster	1 1 11 1 1 1 1 1 2
scow	skow	1 1 11
scrapbook	skr ^a p ^o o ^k	1 1 1 1 1 1 11 1
sedulous	s ^e d ^u lous	1 1 1 5 1 11 1
seedling	s ^e d ^l ing	1 10 1 1 1 11
selfish	s ^e l ^f ish	1 1 1 1 1 11
sequential	s ^e q ^u en ^s h ^u l	1 1 11 1 1 7 1 1
sequester	s ^e q ^u est ^e r	1 1 11 1 1 1 2
sequin	s ^e q ^u in	1 1 11 1 1
seventeenth	s ^e v ^u nt ^e n ^t h(1)	1 1 1 5 1 1 10 11
seventh	s ^e v ^u n ^t h(1)	1 1 1 5 1 11
shad	sh ^a d	11 1 1
shade	sh ^a d	11 8 1
shaft	sh ^a ft	11 1 1 1
shag	sh ^a g	11 1 1
shake	sh ^a k	11 8 1
sham	sh ^a m	11 1 1
shamble	sh ^a m ^b l	11 1 1 1 5

WORD	DECODE	FILTER LEVEL
shank	sh ^u ank	11 1 1 5
shanty	sh ^u ant ^e	11 1 1 1 1
shape	sh ^a p	11 8 1
shapely	sh ^a p ^l e	11 8 1 1 1
share	sh ^a r	11 8 1
shark	sh ^u ark	11 1 1 5
sharp	sh ^u arp	11 1 1 1
sharpen	sh ^u arp ^u n	11 1 1 1 5 1
sharpshooter	sh ^u arpsh ^o ot ^e r	11 1 1 1 11 11 1 2
shave	sh ^a v	11 8 1
shear	sh ^e r	11 10 1
sheath	sh ^e th(1)	11 10 11
shed	sh ^e d	11 1 1
sheep	sh ^e p	11 10 1
shelf	sh ^e lf	11 1 1 1
shell	sh ^e l	11 1 2
shelter	sh ^e lter	11 1 1 1 2
shelve	sh ^e lv	11 1 1 1
sheriff	sh ^e ri ^f	11 1 1 1 2
shift	sh ⁱ ft	11 1 1 1
shiftless	sh ⁱ ft ^l es	11 1 1 1 1 1 2
shin	sh ⁱ n	11 1 1
shine	sh ⁱ n	11 8 1
shingle	sh ⁱ ng ^l	11 1 11 5
shiny	sh ⁱ n ^e	11 1 1 1

WORD	DECODE	FILTER LEVEL
ship	sh ^u ip	11 1 1
shipment	sh ^u ipm ^u nt	11 1 1 1 5 1 1
shire	sh ⁱ (u)r	11 8 1
shiver	sh ⁱ ver	11 1 1 2
shod	sh ^o d	11 1 1
shook	sh ^o ok	11 11 5
shoot	sh ^{oo} t	11 11 1
shooter	sh ^{oo} ter	11 11 1 2
shop	sh ^o p	11 1 1
short	sh ^o rt	11 1 1 1
shortcake	sh ^o rtk ^a k	11 1 1 1 1 8 5
shortcoming	sh ^o rtk ^u m ⁱ ng	11 1 1 1 1 1 1 1 1 1 1
shorten	sh ^o rt ^u n	11 1 1 1 5 1
shortening	sh ^o rt ^u n ⁱ ng	11 1 1 1 5 1 1 1 1
shorthand	sh ^o rth ^a nd	11 1 1 1 1 1 1 1
shot	sh ^o t	11 1 1
shotgun	sh ^o t ^g un	11 1 1 1 1 1
shout	shout	11 11 1
show	sh ^o w	11 10
shower	shower	11 11 2
shown	shown	11 10 1
shrank	sh ^r ank	11 1 1 1 5
shred	sh ^r ed	11 1 1 1
shrike	sh ^r ik	11 1 8 5
shrill	sh ^r ill	11 1 1 2

WORD	DECODE	FILTER LEVEL
shrilly	shri [˘] le [˘]	11 1 1 2 1
shrimp	shri [˘] mp	11 1 1 1 1
shrine	shri [˘] n	11 1 8 1
shrink	shri [˘] ngk	11 1 1 9 5
shroud	shrou [˘] d	11 1 11 1
shrub	shru [˘] b	11 1 1 1
shrug	shru [˘] g	11 1 1 1
shrunk	shru [˘] ngk	11 1 1 9 5
shrunken	shru [˘] ngku [˘] n	11 1 1 9 5 5 1
shuck	shu [˘] k	11 1 10
shun	shu [˘] n	11 1 1
shunt	shu [˘] nt	11 1 1 1
shut	shu [˘] t	11 1 1
shuttle	shu [˘] tlu [˘]	11 1 2 5
shy	shi [˘]	11 9
sibling	sibi [˘] li [˘] ng	1 1 1 1 1 11
siding	sidi [˘] ng	1 5 1 1 11
sing	si [˘] ng	1 1 11
singer	si [˘] ngu [˘] r	1 1 11 2
singsong	si [˘] ngu [˘] so [˘] ng	1 1 11 1 1 11
singularity	si [˘] ngu [˘] la [˘] ru [˘] te [˘]	1 1 11 1 5 1 1 1 1 1 1
sinuous	si [˘] nu [˘] ous	1 1 1 5 11 1
sixteenth	sik [˘] ste [˘] nth(1)	1 1 9 1 10 1 11
sixth	sik [˘] sth(1)	1 1 9 11
slang	sla [˘] ng	1 1 1 11

WORD	DECODE	FILTER LEVEL
slash	sl [∨] ash	1 1 1 11
sling	sl [∨] ing	1 1 1 11
sloop	sl [∨] oop	1 1 11 1
slothful	sl [∨] oth(1)ful	1 1 1 11 1 1 1
slung	sl [∨] ung	1 1 1 11
slush	sl [∨] ush	1 1 1 11
smash	sm [∨] ash	1 1 1 11
smith	sm [∨] ith(1)	1 1 1 11
smithy	sm [∨] ith(1)e	1 1 1 11 1
smooth	sm [∨] ooth(2)	1 1 11 11
snapshot	sn [∨] apsh [∨] ot	1 1 1 1 11 1 1
snoop	sn [∨] oop	1 1 11 1
snout	sn [∨] out	1 1 11 1
soliloquy	sol [∨] il [∨] o [∨] kwē	1 1 1 1 1 1 11 1
song	so [∨] ng	1 1 11
songster	so [∨] ngst [∨] ur	1 1 11 1 1 2
soon	so [∨] on	1 11 1
soot	so [∨] ot	1 11 1
sooty	so [∨] ote	1 11 1 1
sound	so [∨] und	1 11 1 1
sour	so [∨] ur	1 11 1
south	so [∨] uth(1)	1 11 11
southeast	so [∨] uth(1)e [∨] st	1 11 11 10 1 1
southward	so [∨] uth(1)w [∨] ard	1 11 11 5 10 1
southwest	so [∨] uth(1)w [∨] est	1 11 11 5 1 1 1

WORD	DECODE	FILTER LEVEL
sow	sou	1 11
spendthrift	sp ^u en(d)th(1)r ⁱ ft	1 1 1 1 1 11 1 1 1 1
splash	sp ^l ash	1 1 1 1 11
spool	sp ^o ol	1 1 11 1
spoon	sp ^o on	1 1 11 1
spoonful	sp ^o onf ^o ol	1 1 11 1 1 9 1
spout	spout	1 1 11 1
sprang	sp ^r ang	1 1 1 1 11
spring	sp ^r ing	1 1 1 1 11
springtime	sp ^r ing ^t im	1 1 1 1 11 1 8 1
sprout	sp ^r out	1 1 1 11 1
sprung	sp ^r ung	1 1 1 1 11
squab	skw ^o b	1 11 5 1
squabble	skw ^o b ^u l	1 11 5 2 5
squad	skw ^o d	1 11 5 1
squalid	skw ^o l ^u d	1 11 5 1 1 1
squall	skw ^o l	1 11 5 2
squamous	skw ^a m ^u s	1 11 1 1 10 1
squander	skw ^o nd ^u r	1 11 5 1 1 2
squash	skw ^o sh	1 11 5 11
squat	skw ^o t	1 11 5 1
squeak	skw ^e k	1 11 10 5
squeal	skw ^e l	1 11 10 1
squeamish	skw ^e m ⁱ sh	1 11 10 1 1 11
squid	skw ⁱ d	1 11 1 1

WORD	DECODE	FILTER LEVEL
squint	skwint [˘]	1 11 1 1 1
squire	skwir [˘]	1 11 8 1
squirm	skwürm [˘]	1 11 10 1
squirt	skwür [˘] t	1 11 10 1
starch	störch [˘]	1 1 5 1 11
starfish	störfish [˘]	1 1 5 1 1 1 11
starling	stör [˘] l [˘] ing	1 1 5 1 1 1 11
startling	stört [˘] l [˘] ing	1 1 5 1 1 1 1 11
stateroom	stāt [˘] rōōm	1 1 8 1 1 11 1
staunch	stōnch [˘]	1 1 10 1 11
stench	stēnch [˘]	1 1 1 1 11
sterling	ster [˘] l [˘] ing	1 1 2 1 1 11
sting	st [˘] ing	1 1 1 11
stood	stōōd	1 1 11 1
stool	stōō [˘] l	1 1 11 1
stoop	stōō [˘] p	1 1 11 1
stout	stout	1 1 11 1
stoutly	stoutl [˘] e	1 1 11 1 1 1
strength	strē [˘] ngth(1)	1 1 1 1 11 11
strengthen	strē [˘] ngthē [˘] n	1 1 1 1 11 11 1 1
stretcher	strē [˘] cher	1 1 1 1 11 2
string	str [˘] ing	1 1 1 1 11
stringy	str [˘] ingē [˘]	1 1 1 1 11 1
stripling	str [˘] ipl [˘] ing	1 1 1 1 1 1 1 11
strong	strō [˘] ng	1 1 1 1 11

WORD	DECODE	FILTER LEVEL
stronghold	str <u>o</u> ng <u>h</u> o <u>l</u> d	1 1 1 1 11 5 1 1 1
stung	st <u>u</u> ng	1 1 1 11
subsequent	sub <u>s</u> ek <u>w</u> ent	1 1 1 1 1 11 1 1 1
suet	so <u>o</u> et	1 11 1 1
sunflower	sun <u>f</u> low <u>e</u> r	1 1 1 1 1 11 2
sung	su <u>g</u>	1 1 11
sunshine	sun <u>s</u> h <u>i</u> n	1 1 1 11 5 1
sunshiny	su <u>n</u> sh <u>i</u> n <u>e</u>	1 1 1 11 5 1 1
swarthy	sw <u>o</u> rth(1) <u>e</u>	1 5 5 1 11 1
swath	sw <u>a</u> th(1)	1 5 1 11
swing	sw <u>i</u> ng	1 5 1 11
swish	sw <u>i</u> sh	1 5 1 11
switch	sw <u>i</u> ch	1 5 1 11
swoon	sw <u>o</u> on	1 5 11 1
swoop	sw <u>o</u> op	1 5 11 1
tablecloth	t <u>a</u> bl <u>e</u> kl <u>o</u> th(1)	1 1 1 5 1 1 1 11
tablespoon	t <u>a</u> bl <u>e</u> sp <u>o</u> on	1 1 1 5 1 1 11 1
tablespoonful	t <u>a</u> bl <u>e</u> sp <u>o</u> on <u>f</u> ul	1 1 1 5 1 1 11 1 1 1 1
tang	t <u>a</u> ng	1 1 11
tantamount	t <u>a</u> nt <u>u</u> mount	1 1 1 1 1 1 11 1 1
taproot	t <u>a</u> pr <u>o</u> ot	1 1 1 1 11 1
tarnish	t <u>o</u> rn <u>i</u> sh	1 5 1 1 1 11
telepathy	t <u>u</u> l <u>e</u> p <u>u</u> th(1) <u>e</u>	1 5 1 1 1 1 11 1
teeth	t <u>e</u> th(1)	1 10 11
tenth	t <u>e</u> nth(1)	1 1 1 11

WORD	DECODE	FILTER LEVEL
tenuous	těnuus	1 1 1 5 11 1
tether	těth(1)ur	1 1 11 2
textbook	těkstbook	1 1 9 1 1 11 5
than	th(2)an	11 1 1
thank	th(1)angk	11 1 9 5
thankful	th(1)angkful	11 1 9 5 1 1 1
that	th(2)at	11 1 1
the	thu	11 5
theatrical	th(1)ěatrikul	11 1 11 1 1 1 1 1
thee	th(2)e	11 10
theft	th(1)ěft	11 1 1 1
theism	th(1)ěizm	11 1 1 5 1
them	th(2)em	11 1 1
then	th(2)en	11 1 1
theological	th(1)ěulojikul	11 1 1 1 1 5 1 1 1 1
theology	th(1)ěoluje	11 1 1 1 1 5 1
theoretical	th(1)ěuretikul	11 1 1 1 1 1 1 1 1 1
theory	th(1)ěure	11 1 1 1 1
theorist	th(1)ěurust	11 1 1 1 1 1 1
therapy	th(1)ěurpe	11 1 1 1 1 1
thereafter	th(1)ěrafter	11 1 1 1 1 1 2
thermometer	th(1)urmomutur	11 2 1 1 1 5 1 2
thick	th(1)ik	11 1 10
thief	th(1)ef	11 1 1
thimble	th(1)imbul	11 1 1 1 5

WORD	DECODE	FILTER LEVEL
thin	th(1) ^u in	11 1 1
thing	th(1) ^u ing	11 1 11
think	th(1) ^u ing ^u k	11 1 9 5
thinker	th(1) ^u ing ^u k ^u r	11 1 9 5 2
third	th(1) ^u r ^u d	11 1 1 1
thirst	th(1) ^u r ^u st	11 1 1 1 1
thirsty	th(1) ^u r ^u st ^e -	11 1 1 1 1 1
thirteen	th(1) ^u r ^u st ^e n ^e -	11 1 1 1 10 1
thirteenth	th(1) ^u r ^u st ^e n ^e th(1)	11 1 1 1 10 1 11
thirty	th(1) ^u r ^u st ^e n ^e -	11 1 1 1 1
thither	th(1) ⁱ th(2) ^u r ^u	11 1 11 2
thitherward	th(1) ⁱ th(2) ^u r ^u w ^u r ^u d	11 1 11 2 5 1 1 1
thong	th(1) ^u o ^u ng	11 1 11
thorax	th(1) ^o r ^u a ^u k ^s	11 1 1 1 9
thorn	th(1) ^u o ^u r ⁿ	11 1 1 1
thorny	th(1) ^u o ^u r ⁿ e ⁻	11 1 1 1 1
thrall	th(1) ^u r ^u o ^l	11 1 5 2
thrash	th(1) ^u r ^u a ^u sh	11 1 1 11
thrasher	th(1) ^u r ^u a ^u sh ^u r	11 1 1 11 2
three	th(1) ^r e ⁻	11 1 10
threnody	th(1) ^r e ^u n ^u d ^e -	11 1 1 1 1 1 1
thresh	th(1) ^r e ^u sh	11 1 1 11
thresher	th(1) ^r e ^u sh ^u r	11 1 1 11 2
thrice	th(1) ^r i ^s	11 1 8 1
thrift	th(1) ^r i ^u ft	11 1 1 1 1

WORD	DECODE	FILTER LEVEL
thrifty	th(1)r ^u if ⁻ te	11 1 1 1 1 1
thrill	th(1)r ^u il	11 1 1 2
thrive	th(1)r ⁻ iv	11 1 8 1
throb	th(1)r ^u ob	11 1 1 1
throat	th(1)r ⁻ ot	11 1 10 1
throaty	th(1)r ⁻ o ⁻ te	11 1 10 1 1
throng	th(1)r ^u o ^u ng	11 1 1 11
throttle	th(1)r ^u o ^u t ^u l	11 1 1 2 5
throw	th(1)r ⁻ o	11 1 10
thrum	th(1)r ^u um	11 1 1 1
thrush	th(1)r ^u ush	11 1 1 11
thrust	th(1)r ^u ust	11 1 1 1 1
thud	th(1)r ^u ud	11 1 1
thump	th(1)r ^u ump	11 1 1 1
thunder	th(1)r ^u u ^u nd ^u ur	11 1 1 1 2
thunderbolt	th(1)r ^u u ^u nd ^u ur ⁻ b ⁻ olt	11 1 1 1 2 1 1 1 1
thundercloud	th(1)r ^u u ^u nd ^u ur ^u kloud	11 1 1 1 2 1 1 11 1
thunderer	th(1)r ^u u ^u nd ^u ur ^u ur	11 1 1 1 2 2
thunderous	th(1)r ^u u ^u nd ^u ur ^u us	11 1 1 1 2 10 1
thunderstorm	th(1)r ^u u ^u nd ^u ur ^u st ^u orm	11 1 1 1 2 1 1 1 1 1
thwack	th(1)r ^u w ^u ak	11 5 1 10
thwart	th(1)r ^u w ^u ort	11 5 5 1 1
thy	th(2) ⁻ i	11 9
tiding	⁻ t ^u id ^u ing	1 5 1 1 11
tiling	⁻ t ^u il ^u ing	1 5 1 1 11

WORD	DECODE	FILTER LEVEL
ting	ting [˘]	1 1 11
tithe	tith(2) [˘]	1 8 11
toadstool	tōdstōol [˘]	1 10 1 1 1 11 1
took	took [˘]	1 11 5
tool	tool [˘]	1 11 1
toot	toot [˘]	1 11 1
tooth	tooth(1) [˘]	1 11 11
toothbrush	tooth(1)brūsh [˘]	1 11 11 1 1 1 11
toothpick	tooth(1)pīk [˘]	1 11 11 1 1 11
torch	torch [˘]	1 1 1 11
tout	tout	1 11 1
towel	towel	1 11 5
tower	tower	1 11 2
towering	towering [˘]	1 11 2 1 11
tranquil	trānkwil [˘]	1 1 1 1 11 1 1
trash	trāsh [˘]	1 1 1 11
trench	trench [˘]	1 1 1 1 11
trenchant	trenchant [˘]	1 1 1 1 11 1 1 1
trencher	trencher [˘]	1 1 1 1 11 2
triangle	triangle [˘]	1 1 5 1 11 5
troop	troop [˘]	1 1 11 1
trooper	trooper [˘]	1 1 11 1 2
troth	troth(1) [˘]	1 1 1 11
trout	trout	1 1 11 1
trowel	trowel	1 1 11 5

WORD	DECODE	FILTER LEVEL
trustworthy	trústrúth(1)ē	1 1 1 1 1 5 10 11 1
tungsten	túngstén	1 1 11 1 1 1 1
tush	túsh	1 1 11
twang	twāng	1 5 1 11
twelfth	twēlfth(1)	1 5 1 1 1 11
twentieth	twēntēth(1)	1 5 1 1 1 1 1 11
twitch	twích	1 5 1 11
unbecoming	únbékúming	1 1 1 1 1 1 1 1 11
underbrush	únderbrúsh	1 1 1 2 1 1 1 11
underfoot	únderfúot	1 1 1 2 1 11 1
underground	únderground	1 1 1 2 1 1 11 1 1
underling	únderling	1 1 1 2 1 1 11
underneath	úndernēth(1)	1 1 1 2 1 10 11
understood	understúod	1 1 1 2 1 1 11 1
underwood	underwúod	1 1 1 2 5 11 1
unearthly	unerth(1)lē	1 1 2 11 1 1
unequal	únēkwúl	1 1 1 11 1 1
unequivocal	únēkwívúkúl	1 1 1 11 1 1 1 1 1 1
unfailing	únfáling	1 1 1 10 1 1 11
unflinching	únflínching	1 1 1 1 1 1 11 1 11
unfounded	únfoundéd	1 1 1 11 1 1 1 1
unquiet	únkwíut	1 1 11 5 5 1
unsound	únsound	1 1 1 11 1 1
unworthy	únwúrth(2)ē	1 1 5 10 11 1
uproot	úprúot	1 1 1 11 1

WORD	DECODE	FILTER LEVEL
upshot	úpsĥót	1 1 11 1 1
usher	úshur	1 11 2
vanish	vánish	1 1 1 1 11
vanquish	vángkwish	1 1 9 11 1 11
varnish	vornish	1 5 1 1 1 11
ventriloquism	ventrilúkwizard	1 1 1 1 1 1 1 1 11 1 5 1
voluptuous	vúlúpchúús	1 1 1 1 1 9 1 11 1
vouch	vouch	1 11 11
vouchsafe	vouchsáf	1 11 11 1 8 1
vow	vou	1 11
vowel	vouul	1 11 5 1
warship	wórshíp	5 5 1 11 1 1
wash	wásh	5 5 11
washer	wóshúr	5 5 11 2
wench	wénch	5 1 1 11
wether	wéth(2)úr	5 1 11 2
width	wíth(1)	5 1 1 11
winch	wínch	5 1 1 11
wing	wíng	5 1 11
wiring	wíring	5 5 1 1 11
wish	wish	5 1 11
with	wíth(2)	5 1 11
wither	wíth(2)úr	5 1 11 2
withhold	wíth(1)hóld	5 1 11 5 1 1 1
within	wíth(2)ín	5 1 11 1 1

WORD	DECODE	FILTER LEVEL
without	w ^h ith(2)out	5 1 11 11 1
withstand	w ^h ith(1)st ^h and	5 1 11 1 1 1 1 1
wood	w ^o od	5 11 1
woodbine	w ^o od ^b in	5 11 1 1 8 1
woodchuck	w ^o odch ^u k	5 11 1 11 1 10
woodcock	w ^o odk ^o k	5 11 1 1 1 10
woodcraft	w ^o odkr ^a ft	5 11 1 1 1 1 1 1
wooded	w ^o od ^u d	5 11 1 5 1
wooden	w ^o od ^u n	5 11 1 5 1
woodland	w ^o odl ^a nd	5 11 1 1 1 1 1
woodman	w ^o odm ^u n	5 11 1 1 1 1
woodpile	w ^o odp ⁱ l	5 11 1 1 8 1
woodshed	w ^o odsh ^e d	5 11 1 11 1 1
woodsman	w ^o odzm ^u n	5 11 1 5 1 1 1
woodwork	w ^o odw ^u rk	5 11 1 5 1 1 5
woody	w ^o ode ^e	5 11 1 1
woof	w ^o of	5 11 1
working	w ^u rking	5 10 5 1 11
workroom	w ^u rkr ^o om	5 1 1 5 1 11 1
workshop	w ^u rks ^h op	5 10 5 11 1 1
wormwood	w ^u rmw ^o od	5 10 1 5 11 1
worth	w ^u rth(1)	5 10 11
worthless	w ^u rth(1)l ^u s	5 10 11 1 5 2
worthy	w ^u rth(2) ^e	5 10 11 1

FILTER TWELVE

WORD	DECODE	FILTER LEVEL
absence	ǎbsēns	1 1 1 12 1 1
abuse	ǔbus	1 1 12 1
abortive	ǔbortiv	1 1 1 1 1 12 1
active	ǎktiv	1 1 1 12 1
adhesive	ǎdhēsiv	1 1 5 1 1 12 1
administrative	ǔdminūstrātiv	1 1 1 1 1 1 1 1 1 1 1 12 1
adore	ǔdor	1 1 12 1
advance	ǎdvāns	1 1 1 12 1 1
ague	ǎgū	1 1 12
alcove	ǎlkōv	1 1 1 12 1
alone	ǔlōn	1 1 12 1
amplitude	ǎmplūtūd	1 1 1 1 1 1 12 1
amuse	ǔmūz	1 1 12 5
amusement	ǔmūzmunt	1 1 12 5 1 1 1 1
altitude	ǎltūtūd	1 1 1 1 1 12 1
anode	ǎnod	1 1 12 1
antelope	ǎntūlop	1 1 1 5 1 12 1
aptitude	ǎptūtūd	1 1 1 1 1 12 1
archduke	ōrchduk	5 1 11 1 12 5
armhole	ōrmhōl	5 1 1 5 12 1
arose	ǔrōz	1 1 12 5
ashore	ǔshōr	1 11 12 1

WORD	DECODE	FILTER LEVEL
authoritative	óth(1)órútáiv	10 11 1 1 1 1 1 1 12 1
automotive	ótumotiv	10 1 1 1 1 1 12 1
avenge	úvenj	1 1 12 1 5
aware	úwar	1 5 12 1
awoke	úwok	1 5 12 5
barbecue	borbeku	1 5 1 1 1 1 12
bare	bar	1 12 1
benevolence	benévulúns	1 1 1 1 1 1 1 12 1 1
bilge	bilj	1 12 1 5
bivalve	bivalv	1 5 1 12 1 1
blare	blár	1 1 12 1
bodice	bodis	1 1 1 12 1
bole	bol	1 12 1
bone	bón	1 12 1
bore	bór	1 12 1
brimstone	brimstón	1 1 1 1 1 1 12 1
broke	brók	1 1 12 5
captive	káptiv	1 1 1 1 12 1
cathode	káth(1)od	1 1 11 12 1
chalice	chális	11 1 1 12 1
choice	chois	11 1 12 1
choke	chók	11 12 5
chose	chóz	11 12 5
climate	klímát	1 1 5 1 12 1
close	klós	1 1 12 1

WORD	DECODE	FILTER LEVEL
clove	klōv	1 1 12 1
cobblestone	kōblestōn	1 1 1 5 1 1 12 1
code	kōd	1 12 1
cohesive	kōhēsiv	1 1 5 1 1 12 1
coke	kōk	1 12 5
cole	kōl	1 12 1
competitive	kōmpētītiv	1 1 1 1 1 1 1 1 12 1
compose	kūmpōz	1 1 1 1 12 5
comprehensive	kōmprēhēnsiv	1 1 1 1 1 1 5 1 1 1 12 1
compute	kōmpūt	1 1 1 1 12 1
conclusive	kōnklōōsiv	1 1 1 1 1 9 1 12 1
condone	kōndon	1 1 1 1 12 1
cone	kōn	1 12 1
confuse	kōnfūz	1 1 1 1 12 5
consecutive	kōnsēkūtiv	1 1 1 1 1 1 5 1 12 1
console	kōnsōl	1 1 1 1 12 1
contribute	kūntribūt	1 1 1 1 1 1 1 12 1
constructive	kūnstrūktiv	1 1 1 1 1 1 1 1 1 12 1
convoke	kūnvōk	1 1 1 1 12 1
convulsive	kūnvūlsiv	1 1 1 1 1 1 1 12 1
cooperative	kōōperūtiv	1 1 1 1 2 1 1 12 1
cope	kōp	1 12 1
core	kōr	1 12 1
cornerstone	kōrnerstōn	1 1 1 1 2 1 1 12 1
cornice	kōrnīs	1 1 1 1 12 1

WORD	DECODE	FILTER LEVEL
cove	kōv	1 12 1
creative	krēātv̄	1 1 1 1 1 12 1
creole	krēōl	1 1 1 12 1
crevice	krēv̄is	1 1 1 1 12 1
crone	kron̄	1 1 12 1
cube	kūb	1 12 1
cumulative	kūmūlūt̄iv	1 5 1 5 1 1 1 12 1
cure	kūr	1 12 1
cursive	kurs̄iv	1 10 1 12 1
cute	kūt	1 12 1
decompose	dēkūmpōz	1 1 1 1 1 1 12 5
defective	dēfēkt̄iv	1 1 1 1 1 1 12 1
defensive	dēfēns̄iv	1 1 1 1 1 1 12 1
definitive	dēfīnīt̄iv	1 1 1 1 1 1 1 12 1
delusive	dēlōōs̄iv	1 1 1 9 1 12 1
demure	dēmūr	1 1 1 12 1
deplore	dēplōr	1 1 1 1 12 1
depose	dēpōz	1 1 1 12 5
depute	dēpūt	1 1 1 12 1
derisive	dērīs̄iv	1 1 1 5 1 12 1
descriptive	dēskrīpt̄iv	1 1 1 1 1 1 1 1 12 1
desolate	dēsōlūt	1 1 1 1 1 12 1
desperate	dēsperāt	1 1 1 1 2 12 1
destructive	dēstrūkt̄iv	1 1 1 1 1 1 1 1 12 1
detective	dētēkt̄iv	1 1 1 1 1 1 12 1

WORD	DECODE	FILTER LEVEL
dethrone	dēth(1)ron	1 1 11 1 12 1
dextrose	dēkstrōs	1 1 9 1 1 12 1
digestive	dījēstiv	1 5 5 1 1 1 12 1
diminutive	dīminutiv	1 1 1 1 1 5 1 12 1
diode	dīōd	1 5 12 1
disclose	dīsklōs	1 1 1 1 1 12 1
discontinue	dīskūntīnū	1 1 1 1 1 1 1 1 1 12
discursive	dīskūrsiv	1 1 1 1 1 1 1 12 1
dispose	dīspōz	1 1 1 1 12 5
diverge	dīvūrj	1 5 12 1 5
divergence	dūvūrjuns	1 1 1 5 1 5 12 1 1
dole	dōl	1 12 1
dome	dōm	1 12 1
dope	dōp	1 12 1
dowdy	dāōōdē	1 12 1 1
drainage	drānij	1 1 10 1 12 5
drone	drōn	1 1 12 1
drove	drōv	1 1 12 1
elective	ēlēktiv	1 1 1 1 1 12 1
electromotive	ēlēktromōtiv	1 1 1 1 1 1 1 1 1 1 12 1
elope	ēlop	1 1 12 1
enclose	ēnklož	1 1 1 1 12 5
exhaustive	ēksōstiv	1 9 1 1 1 12 1
expensive	ēksəpēnsiv	1 9 1 1 1 1 1 12 1
expletive	ēksplūtiv	1 9 1 1 5 1 12 1

WORD	DECODE	FILTER LEVEL
explore	ěksplōr	1 9 1 1 12 1
explosive	ěksplōsiv	1 9 1 1 1 1 12 1
expose	ěkspōz	1 9 1 12 5
extensive	ěkstěnsiv	1 9 1 1 1 1 12 1
evermore	evūrmōr	1 1 5 1 1 12 1
evince	ēvins	1 1 12 1 1
fare	fā(ū)r	1 12 1
festive	fěstiv	1 1 1 1 12 1
flagstone	flāgstōn	1 1 1 1 1 1 12 1
footsore	fōōtsōr	1 11 1 1 12 1
forage	fōrāj	1 1 1 12 5
fore	fōr	1 12 1
foreclose	fōrklos	1 1 1 1 1 12 1
forgive	fōrgiv	1 1 1 1 12 1
frigate	frijūt	1 1 1 5 12 1
fugitive	fujitiv	1 5 5 1 1 12 1
fume	fūm	1 12 1
fuse	fūs	1 12 1
give	giv	1 12 1
glance	glāns	1 1 12 1 1
glare	glār	1 1 12 1
globe	glōb	1 1 12 1
gore	gōr	1 12 1
grimace	grimās	1 1 1 1 12 1
grindstone	grīndstōn	1 1 5 1 1 1 1 12 1

WORD	DECODE	FILTER LEVEL
grope	grōp	1 1 12 1
grove	grōv	1 1 12 1
habituate	hābīchūāt	5 1 1 1 11 5 12 1
hailstone	hālston	5 10 1 1 1 12 1
hare	hār	5 12 1
have	hāv	5 12 1
hedge	hēj	5 12 5
hereafter	hīrāftūr	5 12 1 1 1 1 5 1
hereby	hīrbī	5 12 1 1 9
hinge	hīnj	5 12 1 5
hole	hōl	5 12 1
home	hōm	5 12 1
homesick	hōmsīk	5 12 1 1 1 5
homespun	hōmspūn	5 12 1 1 1 1 1
hope	hōp	5 12 1
horoscope	hōrūskōp	5 1 1 1 1 1 12 1
hose	hōz	5 12 5
hove	hōv	5 12 1
ignore	īgnōr	1 1 1 12 1
injustice	īnjūstīs	1 1 9 1 1 1 12 1
imbue	īmbū	1 1 1 12
imitative	īmūtātīv	1 1 1 1 1 1 12 1
impasse	īmpās	1 1 1 12 2
impinge	īpīnj	1 1 1 12 1 5
implore	īmplōr	1 1 1 1 12 1

WORD	DECODE	FILTER LEVEL
impose	ĩmpoz	1 1 1 12 5
impudence	ĩmpũdũns	1 1 1 1 1 12 1 1
impulsive	ĩmpũlsĩv	1 1 1 1 1 1 12 1
inactive	ĩnaktĩv	1 1 1 1 1 12 1
inconsiderate	ĩnkũnsĩdũrit	1 1 1 1 1 1 1 1 1 1 12 1
inconspicuous	ĩnkũnspĩkyũũs	1 1 1 1 1 1 1 1 1 1 12 1 1
induce	ĩndũs	1 1 1 12 1
indispose	ĩndĩspoz	1 1 1 1 1 1 12 5
indolence	ĩndũlũns	1 1 1 1 1 12 1 1
inductive	ĩndũktĩv	1 1 1 1 1 1 12 1
inexpensive	ĩnekspũnsĩv	1 1 1 9 1 1 1 1 12 1
infinitive	ĩnfĩntĩv	1 1 1 1 1 1 1 12 1
infuse	ĩnfuz	1 1 1 12 9
inquisitive	ĩnkũĩzũtĩv	1 1 11 1 5 1 1 12 1
intensive	ĩntensĩv	1 1 1 1 1 1 12 1
interlope	ĩntũrlũp	1 1 1 2 1 12 1
interstice	ĩntũrstĩs	1 1 1 2 1 1 12 1
insistence	ĩnsĩstũns	1 1 1 1 1 1 12 1 1
insolence	ĩnsũlũns	1 1 1 1 1 12 1 1
isotope	ĩsũtop	5 1 1 1 12 1
institute	ĩnstũtũt	1 1 1 1 1 1 12 1
instructive	ĩnstrũktĩv	1 1 1 1 1 1 1 1 12 1
intuitive	ĩntũũtĩv	1 1 1 5 1 1 12 1
introduce	ĩntũrdũs	1 1 1 1 1 1 12 1
inure	ĩnũr	1 1 12 1

WORD	DECODE	FILTER LEVEL
invective	invēktiv	1 1 1 1 1 1 12 1
inventive	inventiv	1 1 1 1 1 1 12 1
invoke	invok	1 1 1 12 5
jaundice	jōndis	9 10 1 1 12 1
javelin	jāvlun	9 12 1 1 1 1
joke	jok	9 12 5
justice	jūstis	9 1 1 1 12 1
juxtapose	jūkstūpōz	9 1 9 1 1 1 12 5
lance	lāns	1 12 1 1
latitude	lātūtud	1 1 1 1 1 12 1
legislativ	lējislativ	1 1 5 1 1 1 1 12 1
legume	lēgum	1 1 1 12 1
licorice	likūris	1 1 1 1 1 12 1
ligature	ligūchur	1 1 1 1 9 12 1
limestone	līmston	1 8 1 1 1 12 1
linoleum	linolium	1 1 1 12 1 1 1
live	liv	1 12 1
livelong	līvlōng	1 12 1 1 1 11
lobe	lob	1 12 1
locomotive	lōkūmōtiv	1 1 1 1 1 1 1 12 1
lone	lōn	1 12 1
loophole	lōophōl	1 11 1 5 12 1
lope	lop	1 12 1
lore	lōr	1 12 1
mare	mār	1 12 1

WORD	DECODE	FILTER LEVEL
meditative	mēdūtativ	1 1 1 1 1 1 1 12 1
merge	murj	1 12 1 5
microbe	mīkrōb	1 5 1 1 12 1
microscope	mīkrōskōp	1 5 1 1 1 1 1 12 1
microscopic	mīkrūskōpik	1 5 1 1 1 1 1 12 1 1 1
milestone	mīlstōn	1 8 1 1 1 12 1
mince	mīn(t)s	1 12 1 1
misanthrope	mīsunth(2)rōp	1 1 1 1 1 11 1 12 1
mischance	mīschān(t)s	1 1 1 11 12 1 1
mole	mōl	1 12 1
monotone	mōnūtōn	1 1 1 1 1 12 1
mope	mōp	1 12 1
more	mō(u)r	1 12 1
moreover	mōrōvūr	1 12 1 1 1 2
motive	mōtīv	1 1 1 12 1
mover	mōver	1 12 1 2
native	nātīv	1 1 1 12 1
nerve	nūrv	1 12 1 1
nevermore	nēvūrmōr	1 1 1 2 1 12 1
nose	nōz	1 12 5
nowhere	nōwēr	1 1 5 12 1
observe	ūbzurv	1 1 5 12 1 1
olive	ōlīv	1 1 12 1
outlive	ōutlīv	11 1 1 12 1
overtone	ōvūrtōn	1 1 2 1 12 1

WORD	DECODE	FILTER LEVEL
pare	pā(u)r	1 12 1
parole	pūrol	1 1 1 12 1
perforce	pūrfors	1 5 1 1 12 1 1
pence	pēns	1 12 1 1
pensive	pēnsiv	1 1 1 1 12 1
persistence	pūrsistūns	1 5 1 1 1 1 1 12 1 1
perspective	pūrspēktiv	1 5 1 1 1 1 1 1 12 1
pierce	pī(u)rs	1 12 1 1
pinafore	pīnufor	1 1 1 1 1 12 1
pinhole	pīnhōl	1 5 1 5 12 1
plaintive	pīlantiv	1 1 10 1 1 12 1
poke	pōk	1 12 1
pole	pōl	1 12 1
polestar	pōlstar	1 12 1 1 1 1 1
pore	pō(u)r	1 12 1
porthole	pōrthōl	1 1 1 1 1 12 1
primitive	prīmūtiv	1 1 1 1 1 1 12 1
prospective	prōspēktiv	1 1 1 1 1 1 1 1 12 1
pose	pōz	1 12 5
positive	pōzitiv	1 1 5 1 1 12 1
preference	prēfurn(t)s	1 1 1 1 12 1 1 1
prepare	prēpā(u)r	1 1 1 1 12 1
presence	prēzun(t)s	1 1 1 5 12 1 1
preserve	prēzurv	1 1 1 5 12 1 1
preventive	prēvēntiv	1 1 1 1 1 1 1 12 1

WORD	DECODE	FILTER LEVEL
primrose	pr̄imr̄oz	1 1 1 1 1 12 5
productive	pr̄odũktiv̄	1 1 1 1 1 1 1 12 1
prohibitive	pr̄ohibũtiv̄	1 1 1 5 1 1 1 1 12 1
prone	pr̄on	1 1 12 1
propose	pr̄up̄oz	1 1 1 1 12 5
protective	pr̄ot̄ektiv̄	1 1 1 1 1 1 1 12 1
prose	pr̄oz	1 1 12 5
province	pr̄ovĩns	1 1 1 1 12 1 1
provoke	pr̄ovok	1 1 1 1 12 5
range	r̄anj	1 12 1 5
rare	r̄ar	1 12 1
reference	r̄eferũns	1 1 1 2 12 1 1
reflective	r̄efl̄ektiv̄	1 1 1 1 1 1 1 12 1
reflexive	r̄efl̄eksiv̄	1 1 1 1 1 9 12 1
refractive	r̄efr̄aktiv̄	1 1 1 1 1 1 1 12 1
reinforce	r̄eĩnfors	1 1 1 1 1 12 1 1
repose	r̄ep̄oz	1 1 1 12 5
reproductive	r̄epr̄udũktiv̄	1 1 1 1 1 1 1 1 1 12 1
repulsive	r̄epũlsiv̄	1 1 1 1 1 1 12 1
reserve	r̄es̄erv	1 1 1 12 1 1
respective	r̄esp̄ektiv̄	1 1 1 1 1 1 1 12 1
responsive	r̄esp̄onsiv̄	1 1 1 1 1 1 1 12 1
restive	r̄estiv̄	1 1 1 1 12 1
restore	r̄est̄or	1 1 1 1 12 1
restrictive	r̄estr̄iktiv̄	1 1 1 1 1 1 1 1 12 1

WORD	DECODE	FILTER LEVEL
revenge	rĕvĕnj	1 1 1 12 1 5
revoke	rĕvok	1 1 1 12 5
robe	rōb	1 12 1
role	rōl	1 12 1
romance	rōmāns	1 1 1 12 1 1
rope	rōp	1 12 1
rose	rōs	1 12 1
rove	rōv	1 12 1
salve	sālv	1 121 1
sausage	sōsāj	1 10 1 12 5
scarce	skārs	1 1 12 1 1
scare	skar	1 1 12 1
scope	skop	1 1 12 1
secretive	sĕkrūtĭv	1 1 1 1 5 1 12 1
seductive	sĕdŭktĭv	1 1 1 1 1 1 12 1
selective	sŭlĕktĭv	1 5 1 1 1 1 12 1
semblance	sĕmblāns	1 1 1 1 1 12 1 1
senate	sĕnāt	1 1 1 12 1
sensitive	sĕnsŭtĭv	1 1 1 1 1 1 12 1
sentence	sĕntĕns	1 1 1 1 12 1 1
separate	sĕpŭrāt	1 1 1 1 1 12 1
sequence	sĕquĕns	1 1 11 12 1 1
serge	sĕrj	1 12 1 5
serve	sĕrv	1 12 1 1
service	sĕrvĭs	1 1 1 1 12 1

WORD	DECODE	FILTER LEVEL
shore	shō(u)r̄e	11 12 1
significance	sign̄if̄ik̄un̄s	1 1 1 1 1 1 1 1 12 1 1
silence	sil̄un̄s	1 5 1 12 1 1
similitude	sim̄il̄ūt̄ud̄	1 1 1 1 1 1 1 12 1
since	s̄in̄s	1 12 1 1
singe	s̄in̄j	1 12 1 5
sixpence	s̄ik̄sp̄un̄s	1 1 9 1 12 1 1
slope	sl̄ōp̄	1 1 12 1
smoke	sm̄ōk̄	1 1 12 5
sole	s̄ōl̄	1 12 1
solitude	s̄ōl̄ūt̄ud̄	1 1 1 1 1 12 1
source	s̄ōur̄s	1 12 11 1
spare	sp̄ār̄	1 1 12 1
spectroscope	sp̄ēk̄tr̄ūs̄k̄ōp̄	1 1 1 1 1 1 1 1 1 12 1
spoke	sp̄ōk̄	1 1 12 5
spore	sp̄ōr̄	1 1 12 1
sportive	sp̄ōrt̄iv̄	1 1 10 1 12 1
spruce	sp̄r̄ūs̄	1 1 1 12 1
square	sk̄w̄ār̄	1 11 12 1
stance	st̄an̄(t)̄s	1 1 12 1 1
stare	st̄ā̄(ū)̄r̄	1 1 12 1
statue	st̄ā̄ch̄ōō	1 1 12 9 9
stature	st̄ā̄ch̄ūr̄	1 1 12 9 10
statute	st̄ā̄ch̄ūt̄	1 1 1 9 12 1
stereoscope	st̄ēr̄ēō̄sk̄ōp̄	1 1 1 1 1 1 1 1 12 1

WORD	DECODE	FILTER LEVEL
stoke	stōk	1 1 12 5
stole	stōl	1 1 12 1
stone	stōn	1 1 12 1
store	stōr	1 1 12 1
stove	stōv	1 1 12 1
stroboscope	strōbŭskōp	1 1 1 1 1 1 1 1 12 1
stroke	strōk	1 1 1 12 5
strove	strōv	1 1 1 12 1
substantive	sŭbstāntiv	1 1 1 1 1 1 1 1 12 1
subterfuge	sŭbterfuj	1 1 1 1 2 1 12 5
suggestive	sŭgjestiv	1 1 1 5 1 1 1 12 1
sunstroke	sŭnstrok	1 1 1 1 1 1 12 5
superimpose	sŭoperimpōz	1 9 1 2 1 1 1 12 5
swore	swōr	1 5 12 1
tadpole	tādpōl	1 1 1 1 12 1
tare	tār	1 12 1
telescope	tēlŭskōp	1 1 1 5 1 1 12 1
tenure	tēnur	1 1 1 12 1
thence	th(2)ens	11 12 1 1
there	ther	11 12 1
thereat	th(2)ērāt	11 12 1 1 1
thereby	th(2)ērbi	11 12 1 1 9
thereon	th(2)ērōn	11 12 1 1 1
therefor	th(2)ērfor	11 12 1 1 1 1
therefore	th(2)ērfor	11 12 1 1 12 1
therefrom	th(2)ērfrōm	11 12 1 1 1 1 1

WORD	DECODE	FILTER LEVEL
therewith	th(2)ě [̣] rwith(1)	11 12 1 5 1 11
those	th(2)ōz	11 12 5
throne	th(1)rōn	11 1 12 1
tinge	tinj [̣]	1 12 1 5
tone	tōn	1 12 1
tore	tōr	1 12 1
transfigure	trānsfīgūr	1 1 1 1 1 1 1 1 12 1
transitive	trānsitīv	1 1 1 1 1 1 1 12 1
transmute	trānsmūt	1 1 1 1 1 1 12 1
transpose	trānspoz	1 1 1 1 1 1 12 5
tribune	tribun [̣]	1 1 1 1 12 1
tribute	tribut [̣]	1 1 1 1 12 1
trombone	trōmbōn	1 1 1 1 1 12 1
undertone	ūndertōn	1 1 1 2 1 12 1
unnerve	ūnnūrv	1 1 1 12 1 1
use	ūs	12 1
useful	ūsful	12 1 1 1 1
useless	ūsłūs	12 1 1 5 2
valence	vālūs	1 1 1 12 1 1
value	vālū	1 1 1 12
valve	vālv	1 12 1 1
varicose	vārūkos	1 1 1 1 1 12 1
vegetable	vēj [̣] tūbū [̣]	1 12 5 1 1 1 5
vengeful	venjful	1 12 1 5 1 1 1
verge	vērj	1 12 1 5

WORD	DECODE	FILTER LEVEL
versimilitude	vŭrsimŭlŭtŭd	1 2 1 1 1 1 1 1 1 1 12 1
vindictive	vŭndiktiv	1 1 1 1 1 1 1 1 12 1
violence	viulŭns	1 5 1 1 12 1 1
virulence	virulŭns	1 10 5 1 12 1 1
voice	vois	1 1 12 1
votive	votiv	1 1 1 12 1
ware	war	5 12 1
wardrobe	wŭdrŭb	5 5 1 1 1 12 1
warfare	wŭrfar	5 5 1 1 12 1
welfare	welfar	5 1 1 1 12 1
wince	wins	5 12 1 1
woke	wok	5 12 5
wore	wor	5 12 1
wove	wov	5 12 1

Words Appearing in Original Hanna et al. List
Not Classified Due to Errors

WORD	WORD	WORD
ablution	agrarian	antiquarian
above	air	aperture
abrasion	aircraft	apiary
absolute	airmail	aquarium
absolutely	airport	archway
absolution	airship	arcuate
absolve	airtight	argue
abundance	alias	aria
achieve	alight	aright
actual	almighty	armature
adage	aluminum	arouse
adequate	ambage	arterial
adherence	ambrosia	aritculate
adherent	ambrosial	artiste
adhesion	ambulance	astute
admixture	amiable	audience
advantage	amnesia	audio
adventure	ampere	audiometer
advocate	anguish	auditorium
aerate	antedate	auspice
aeronaut	anemia	authoritarian
agate	anteroom	auxiliary

WORD	WORD	WORD
avarice	befall	bequest
average	before	berate
aversion	began	bereft
aviary	beget	beset
aviation	begin	beside
avoidance	begot	besiege
awhile	begrudge	besot
axial	begun	bespeak
ay	behave	bestial
bacteria	beheld	bestow
bacterial	behest	beta
bacteriology	behind	betake
badge	behold	bethink
balance	belay	betide
bandage	belief	betook
barbarian	believe	betray
barge	belittle	betroth
barnyard	belong	betrothal
baronial	belonging	betwixt
batch	below	beverage
batiste	beheath	bewail
beard	benefice	beware
bearded	benighted	bewilder
because	benignant	bewitch
bedeck	bequeath	beyond

WORD	WORD	WORD
bight	carboy	coinage
bilious	care	coleslaw
binomial	carnage	conclude
bitch	cartage	conclusion
bleary	cashmere	confederate
blew	casualty	configuration
blight	catch	conglomerate
blotch	catcher	consanguinity
blouse	cause	consequence
bluing	causeway	conserve
bluish	caviar	considerate
bondage	charge	constitute
botch	cheer	consume
bounce	chew	convivial
brew	chief	convoy
brief	chocolate	costume
bright	chore	cormorant
brighten	claw	counterpoint
bruin	clearance	countinghouse
brunet	clew	cowboy
brutal	cloy	coy
brutality	cohesion	cranium
budge	coif	crevasse
cabaret	coil	crew
capsule	coin	cringe

WORD	WORD	WORD
crotch	deteriorate	distribute
crude	devoid	dodge
curate	dilute	dosage
curio	dire	douse
curvature	disadvantage	dove
damage	disbelieve	dowager
dare	discoid	draw
daw	discomfiture	drear
dazzle	disconsolate	dreary
debenture	disgorge	dredge
declare	dislodge	drew
decoy	disobedience	drizzle
deduce	disobedient	drudge
degenerate	disorient	dubious
deliberate	disparage	dude
delinquent	disparagement	duke
delude	disparate	duly
deluge	disproportionate	dunce
delusion	disprove	dune
denture	dispute	dupe
denude	disrepute	duplex
deploy	disrespect	duplicate
despoil	disrespectful	durable
destitute	distance	duteous
destroy	distinguish	duty

WORD	WORD	WORD
earl	educe	embroider
early	educt	embroidery
earn	egest	embrace
earnest	ejaculate	emerge
earning	ejaculation	emetic
earring	elaborate	emolument
earshot	electrocute	empire
earth	elegance	empirical
earthen	elegant	employ
earthenware	eleven	emporium
earthly	elide	emptiness
earthquake	elocution	enact
earthworm	elongate	enactment
earthy	elude	encamp
ecliptic	elusive	encampment
ecology	emasculate	enchant
economist	embankment	enchanter
economize	embargo	enchancing
economy	embark	enchantment
edge	embattle	enchantress
edition	embed	encrust
editorial	embezzle	endear
educate	embodiment	endorsement
education	embody	endow
educational	embolden	endowment

WORD	WORD	WORD
excuse	exuberant	fortitude
execute	exude	fortunate
execution	eyesight	fortune
executioner	failure	fracture
executive	falsely	frazzle
exempt	familiarity	frizzle
exemption	fantasia	furor
exert	farce	future
exertion	farmhouse	garbage
exonerate	farmyard	gardener
expatiate	fastidious	gardenia
expatriate	fatuous	gear
expedient	fiat	gentian
experience	fiftieth	genuflect
experiential	figure	geranium
expiate	filial	geriatrics
explosion	fixture	gesture
expropriate	flail	gesticulate
expunge	flamingo	globule
extenuate	flare	gloria
extinguish	flaw	glorious
extravagance	fleece	glove
extravagant	flew	glucose
extrude	flible	gorge
exuberance	foist	gorgeous

WORD	WORD	WORD
endue	ensue	eradiate
endure	entail	escape
enfold	entangle	escapement
enforce	enthrall	eschew
engrave	enthrone	espionage
engulf	enthusiasm	espouse
enhance	enthusiast	estrangle
enigma	enthusiastic	evade
enigmatic	entice	evasion
enjoin	entire	evasive
enlarge	entitle	eve
enlargement	entrance	evoke
enlighten	entrap	evolution
enlightenment	entreat	evolutionary
enlist	entreaty	evolve
enliven	entrust	exactitude
enormity	entwine	example
enormous	enumerate	exasperate
enquire	envious	exasperation
enrage	enviable	exchange
enrapture	envisage	exclude
ensconce	epicure	exclusion
enshrine	episcopal	exclusive
enslave	equalitarian	excoriate
ensnare	equestrian	excursion

WORD	WORD	WORD
gouge	hermitage	humanize
gout	hernia	humankind
gradient	hilarious	humid
gradual	hindrance	humidity
graduate	historian	humidor
graduation	histrionic	humiliate
graham	holiness	humiliation
grandiose	homage	humility
gratitude	homologous	idiomatic
grew	honorarium	idiotic
grief	hoop	idle
grieve	hoot	ignominious
grizzled	horseback	ignorance
groin	horseman	illiterate
grouse	horsepower	image
guano	hostage	imagery
guzzle	how	immemorial
habitual	however	immoderate
hardware	howsoever	immovable
haw	hue	impartiality
hegemony	huge	impecunious
heliotrope	hula	imperfect
helium	human	imperial
hence	humanitarian	imperialism
heritage	humanity	imperialist

WORD	WORD	WORD
imperious	indescribable	irrespective
impervious	indulge	itch
impetuous	indulgence	jaguar
impetuosity	inexperience	jaw
impious	infusion	join
implosion	ingratitude	joint
importunate	inorganic	joist
importune	inscrutable	jounce
importunity	insecure	joy
impound	insight	judge
improve	instance	ketch
improvement	insuperable	kitchen
imprudent	intemperance	languid
impulse	intemperate	languish
impunity	interdependence	large
impute	interference	latch
inadequate	interlude	law
include	intolerance	lecture
inclusion	intrude	ledge
inclusive	intrusion	legality
incompetence	invasion	legate
incongruity	inveterate	legation
incongruous	invoice	leghorn
independence	involution	lesion
independent	involve	legislature

WORD	WORD	WORD
levee	lout	manageable
leviathan	love	mangement
liege	lovely	managerial
light	lube	mania
lighten	lubricant	maniac
lighter	lucubrate	manicure
lighthouse	luculent	manual
lighting	ludicrous	manufacture
lightly	lugubrious	manure
lightness	lunge	marsupial
lightning	lute	masculinity
ligneous	luxuriant	masterpiece
lineage	luxuriate	match
lingual	luxurious	maw
linguist	macrocosm	meanwhile
linguistic	maestro	media
lodge	magnitude	median
loft	magnolia	mediation
lofty	maintenance	medieval
log	malaria	mediocrity
longitude	malarial	medium
lookout	malice	medusa
loud	malnutrition	megalomania
lounge	malpractice	melodious
louse	manage	memento

WORD	WORD	WORD
memorial	muse	novice
menace	music	nude
menial	musical	nudge
mention	mutation	nudity
mercantile	mute	number
mercurial	mutual	numeral
meritorious	muzzle	numeration
metabolism	naive	numerical
meticulous	nefarious	numerous
miniature	negation	numismatic
ministerial	neglect	nutrient
minute	negotiate	nutritive
minutia	negotiation	obedience
minuscule	neopotism	obedient
misfortune	nevertheless	obdurate
misjudge	night	oblivious
modulate	nightcap	obsequious
molecule	nightfall	obscure
movable	nightingale	obtrude
move	nightmare	obtrusive
movement	nighttime	obviate
mule	niece	odious
multifarious	nodule	of
multitude	notice	operative
muriatic	notorious	opiate

WORD	WORD	WORD
opium	partiality	permanence
orange	pasture	perpetuity
ordnance	patio	persecute
orient	patriotic	perversion
oriental	pause	pervious
orientation	paw	persecution
oriole	peace	petiole
ostentatious	pecan	petulance
otiose	peculiarity	petunia
outlaw	pecuniary	pianist
outright	pediatrics	piano
overcharge	pedestrian	pictorial
overhear	pejorative	picture
overnight	penance	piece
overseer	penguin	pioneer
oversight	penitence	pitiable
obvious	penitentiary	plagiarism
ovulate	penology	planetarium
ovule	penthouse	platitude
palace	perfectly	plebeian
palate	perfidious	pledge
paraplegia	performance	plunge
parentage	perfume	plutocrat
parlance	periodic	plutonium
partial	periodical	podium

WORD	WORD	WORD
police	presume	prudence
porpoise	prevalence	prudent
portage	previous	prurient
postage	prick	puberty
posterior	prince	puck
postulate	private	puma
potential	procure	pumice
potentiality	produce	puny
pounce	profusion	pupa
practice	proletarian	pure
prance	proletariat	purge
precarious	promiscuity	putrid
preclude	promiscuous	puzzle
predicate	pronounce	quack
prehistoric	prosecute	quadruple
preface	prosecution	quadruplet
preferment	prostitute	quantum
prelate	protein	quarterback
prelude	protrude	querulous
premium	protuberance	quick
plenipotentiary	prove	rack
preponderance	proven	radial
presage	proverbial	radiance
preston	prude	radiant

WORD	WORD	WORD
radiate	relieve	residual
radiation	reluctance	residuum
radio	remedial	resilience
radioactivity	remembrance	resistance
radium	remonstrance	resolute
rapture	removable	resolution
ratio	removal	resolve
ravage	remove	resonance
raw	remover	resource
rebuke	remuneration	resume
recapture	remunerative	retaliate
rectitude	renounce	retaliation
recuperate	repentance	retinue
recur	reprieve	restitution
reduce	reproduce	retrieve
refuge	reprove	reverence
refugee	repudiate	revolution
refuse	repudiation	revolutionary
refutation	repugnance	revolutionist
refute	reputable	revolutionize
regularity	reputation	revolve
regulate	repute	revue
reliance	rescue	rialto
rejoice	rescuer	rick
relief	resemblance	ridicule

WORD	WORD	WORD
ridiculous	saurian	shackle
right	savage	shepherd
rightful	savagery	shock
ritual	saw	shortage
rock	scabrous	shove
rubric	score	shrew
ruby	scotch	shrinkage
rude	scourge	siege
ruin	scratch	siesta
ruinous	screw	sieve
rupee	scruple	sight
rupture	scrupulous	simian
sack	seclude	sinecure
sacroiliac	seclusion	sizzle
salient	secretariat	sledge
saline	sectarian	slew
salubrious	secure	slight
salutation	security	slough
salute	sedge	sludge
salvage	seduce	sluice
sandstone	sequoia	smudge
sanitarium	serial	snatch
sartorial	serious	sodium
satiated	servitude	solace
sauce	severance	solarium

WORD	WORD	WORD
solstice	strontium	thaw
solve	structure	theologian
soteriology	subsidiary	thereof
souse	subsoil	thieve
soviet	substitute	thirtieth
speculate	subsume	threw
speculation	sulfuric	tibia
speculative	suture	tight
speedometer	swathe	tighten
spiritual	tangential	titmouse
spiritualism	tardiness	tolerance
spirituality	taxicab	tonorial
sponge	tear	torchlight
spontaneity	tedious	tortoise
spotlight	tedium	torture
spurious	temperance	totalitarian
squaw	temperate	toy
stadium	temperature	traduce
starlight	template	transfusion
starve	tendentious	transparent
stitch	tertiary	trinitarian
straw	textual	triplicate
stretch	texture	trimvirate
strew	thatch	trivial
stricture	thaw	troy

WORD	WORD	WORD
truce	valance	watcher
tube	valedictorial	watchful
tune	valet	watchman
twinge	valiant	watchword
unavoidable	vantage	weary
unaware	variable	wedge
undergraduate	variance	whack
undue	variant	wheat
unearth	variation	wheek
unfortunate	various	whelp
unlovely	vegetarian	when
unrelenting	venereal	whence
unreservedly	venial	whenever
unscrupulous	venture	where
unusual	vesture	whereas
upright	vicarious	whereat
upset	victorious	whereby
uranium	vintage	wherefore
urge	visage	whereof
usage	visual	whereon
usual	visualize	wheresoever
usurious	voluminous	wherewith
usury	vulture	whet
utopia	watch	whether
utopian	watchdog	whetstone

WORD	WORD	WORD
whetstone	whisk	yank
whiff	whisky	yap
while	whisper	yard
whim	whither	yarn
whimper	whithersoever	year
whimsical	whittle	yearling
whine	why	yearly
whip	witch	yeast
whir	witchery	yell
whirl	withdraw	yelp
whirligig	workhouse	yen
whirlpool	wound	yet
whirlwind	yam	yew

WORDS LEFT OUT BY MISFILTERING

WORD	WORD	WORD
actuate	institution	penetrate
ambidextrous	la	percolate
benediction	monster	repository
benefaction	nun	six
blink	operation	sorority
caraway		

Appendix GSupplemental Word Bank

(not in alphabetical order)

Word	Word Decoded	Filter Level
crane	krān	1 1 8 1
vehicle	vēhikel	1 1 5 1 1 5
cigar	sigōr	1 1 1 5 1
jabbering	jābering	
several	sēverūl	1 1 1 2 1 1
dapper	dāper	1 1 2 2
suspend	sūspēnd	1 1 1 1 1 1 1
electric	ēlēktrik	1 1 1 1 1 1 1 1
recent	rēsunt	1 1 1 5 1 1
impossible	imposibel	1 1 1 1 2 1 1 5
stroll	strōl	1 1 1 1 2
invent	invēt	1 1 1 1 1 1
advise	advīz	1 1 1 5 5
rise	rīz	1 8 5
elongate	ēlōngat	1 1 1 1 1 8 1
elongated	ēlōngātud	1 1 1 1 1 8 1 5 1
predict	prēdikt	1 1 1 1 1 1 1
ruffle	rūfēl	1 1 2 5
sacrifice	sākrifīs	1 1 1 1 1 1 8 1

Appendix G (Continued)

Word	Word Decoded	Filter Level
nest	[˘] nest	1 1 1 1
silly	[˘] silē	1 1 2 1
recommend	[˘] rekumē [˘]	1 1 1 1 2 1 1 1
ever	[˘] ēver	1 1 2
so	sō	1 1
moment	mōmunt [˘]	1 1 1 5 1 1
fit	[˘] fit	1 1 1
over	ōver	1 1 2
across	[˘] akrōs	1 1 1 1 2
normally	nōrmūli [˘]	1 1 1 1 1 2 1
seven	sēven [˘]	1 1 1 1 1
center	sēnter [˘]	1 1 1 1 2
better	bēter [˘]	1 1 2 2
offer	ōfer [˘]	1 2 2
add	[˘] ad	1 2
terminal	termūnūl [˘]	1 2 1 1 1 1 1
upper	[˘] uper	1 2 2
ladder	[˘] lāder	1 1 1 2
begin	bēgin [˘]	1 1 1 1 1
second	sēkūnd [˘]	1 1 1 1 1 1
strapped	strāpt [˘]	1 1 1 1 2 10

Appendix G (Continued)

Word	Word Decoded	Filter Level
later	lāter	1 1 1 2
migrator	mīgrāter	1 5 1 1 1 1 10
migration	mīgrāshūn	1 5 1 1 1 7 1 1
migrate	mīgrāt	1 5 1 1 8 1
suddenly	sūdūnlī	1 1 2 5 1 1
bird	bird	1 10 1
by	bī	1 9
if	if	1 1

Appendix HErrors Noted in Word Bank

(presented as words should be classified)

Word	Word Decoded	Filter Level
airy	ari ^u	1, 10, 1
fence	fens ^u	1, 12, 1, 1

Appendix I

Short Stories:

Original and Rewritten Text Plus Questions

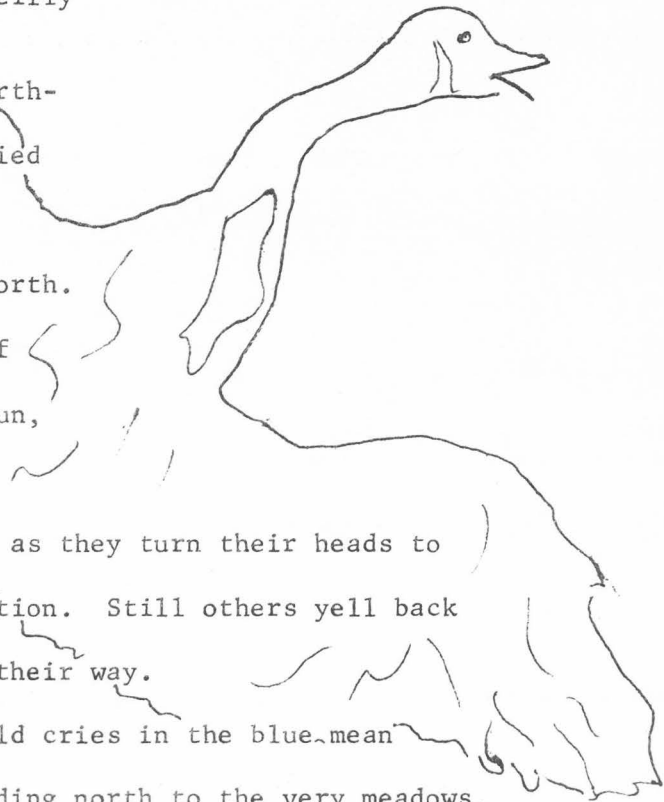
THE GREAT MIGRATOR

by John O'Reilly

Migrating Canada geese, flying northward, their steady wing-beats accompanied by that familiar wild honking, herald springtime to people who live in the North. Some people, seeing the great wedges of geese flying over them, break into a run, as though eager to follow the homing waterfowl. Others take deeper breaths as they turn their heads to the sky and stand in wistful contemplation. Still others yell back at the honkers as if to cheer them on their way.

Those pointed wedges and those wild cries in the blue mean that the members of that flock are heading north to the very meadows, marshes, or stream banks where they were hatched and reared. This homing instinct, this insistence upon returning to the same locality each year, makes Canada geese one of the most interesting of all North American wildfowl. Because they return to the same area each year to breed, the species has developed many distinct strains. As a result, Canada geese may range in size from big twelve-pounders to birds about the size of mallard ducks.

Canada geese are essentially North American birds. The best breeding grounds are in northern Canada, but the birds breed as far south as the northern part of California, Nevada, Utah, Colorado, South Dakota, Nebraska, Indiana, and over to the Gulf of St. Lawrence



and Newfoundland. They once bred farther south; and isolated groups are occasionally found in regions south of the usual breeding range.

As migration time approaches in the early spring, the geese assemble in flocks and seem to be making preparations for their long trip. They honk and gabble to each other; an air of restlessness is evident. Then a segment of the flock will rise from the ground, maneuver into the familiar V-shaped formation, and head north. They fly both by night and by day, and often the honking chorus can be heard before the birds are seen.

Canada geese mate for life, but if one bird of a pair is killed, the remaining one may take another mate. The nest is usually on the ground, although sometimes the geese live in trees in the deserted nests of hawks or ospreys. Geese in some areas do a thorough job of building the nest and lining it with down. Those in other areas get along with a comparatively simple depression in the ground. Four to ten dull-white eggs are laid, and the incubation period is 28 to 30 days.

Geese are among the few species of birds in which the family group remains together after the young are raised and able to shift for themselves. When fall comes, families migrate southward together, and they remain together on the wintering grounds. It is not until spring, when they have returned to their breeding grounds in the north, that the families finally break up.

The trait of returning to the home nesting grounds has led many landowners to get families of geese established on their ponds. The late Jack Miner proved many years ago that if geese are given protection on a small pond, they will soon become tame and trusting.

Starting in 1907 at Kingsville, Ontario, Miner built up a sanctuary which still attracts thousands of geese, and thousands of visitors journey there to see them.

To observe Canada geese under semicaptive conditions, I like to visit the pond of T. Donald Carter near Boonton, New Jersey. Carter, who is Assistant Curator of Mammals at the American Museum of Natural History, raises wild ducks and geese as a hobby. He built a two-and-a-half acre pond, erected a high wire fence around it, and stocked it with many species of wild ducks.

Then he added a pair of pinioned Canada geese. The geese built a nest on a small island in the pond and defended it fiercely against all comers. One day Carter rowed out to the island to see how they were getting along, and the geese drove him off. Since that time, Carter has maintained a small flock of Canadas on the pond, permitting the young to grow up and fly as they will. The geese usually stay in the neighborhood, making forays around suburban New Jersey, but they always return to the pond.

One day I asked Carter if he knew the origin of the phrase "silly goose." "I don't know where it comes from," he replied, "but it's not true." He told about the time when he and some helpers used a roll of wire to herd his pair of geese into a pen. A year later, he wanted them in the pen again so he brought out the roll of wire. As soon as the geese saw the wire, they took off for the far end of the pond, and his attempts to catch them with the wire were futile.

"I think they remembered," he said, "and when a bird does a thing like that, I don't think you can call it silly."

Carter's admiration of Canada geese is shared by many. These North American birds are often regarded by ornithologists and hunters as our finest wildfowl.

The Vast Nomads

The clatter of nomadic Canada geese, going to nest, tells of spring to persons living in the north. A few men run after the birds, as many men stand in bliss looking at them fly over in the sky.

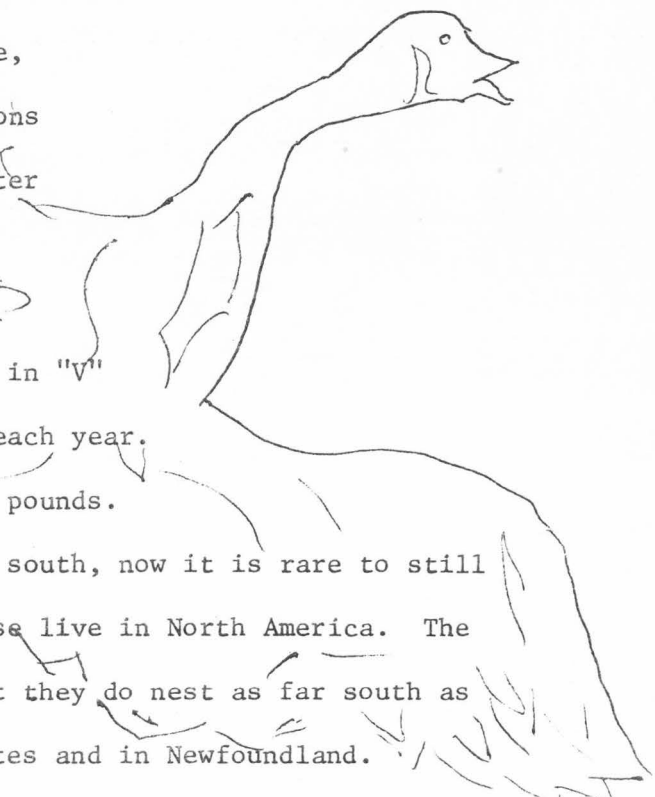
It is neat to study birds that fly in "V" patterns to nest in the same locality each year. These birds grow in sizes from 5 to 12 pounds.

A long time ago they nested in the south, now it is rare to still find nests in the south, as Canada geese live in North America. The best nesting is in northern Canada, but they do nest as far south as the northern parts of many western states and in Newfoundland.

The geese fly in herds during the trip northward, and they fly in both day and night. In their nomadic trip northward, you can often hear these birds before you see them.

Canada geese marry for life, but if a bird is killed, the partner may then marry again. Geese nest on the ground and sometimes in nests left behind in trees by other birds. Not all nests are made by the geese, but when they make their own nests it is a good job. Nests made by the geese are often lined with many feathers. Geese lay 4 to 10 dull white eggs, the eggs hatch after 28 to 30 days.

Not many birds have a family that stays together. Young geese fly south in the winter with their parents. During the next spring in the north, the younger birds start families of their own.



Many persons like geese to nest by their ponds. Geese become tame and trusting if they have protection on a little pond. A man in New Jersey has a large pond with a high wire fence around it, on this pond live many wild birds. Recently, he added two Canada geese to the pond. They made a nest and will defend their area from anything that gets close to it. The man did try to get close to the nest, but the two geese ran him away from it.

The birds on this pond come and go at will, but always return to it. The man was asked if he knew why people use the term "silly goose." He said "no" and that the birds are not silly at all. He and some men used a net to put two geese in a pen. One year later they tried to again put the geese into a pen by catching them with a net, but the "smart" geese flew away when the men got by them.

This man's love for the birds is shared by many other persons who like and study Canada geese.

Circle the best answer in the questions below.

1. Canada geese lay
 - A. all black eggs
 - B. 10 to 30 eggs
 - C. 4 to 10 dull white eggs
 - D. 4 to 10 white eggs

2. These birds go north
 - A. so people in the north can see them
 - B. to build nests and lay eggs
 - C. because of the food
 - D. because its too hot in the south

3. Canada geese fly in
 - A. "V" formations
 - B. many different formations
 - C. circles over their nesting area
 - D. "W" formations

4. Canada geese migrate in the
 - A. fall to the north
 - B. spring to the north
 - C. winter to the west
 - D. summer to the north

5. Who likes the geese?
 - A. only people with ponds
 - B. only people in the northland
 - C. many people in different places
 - D. only people without ponds

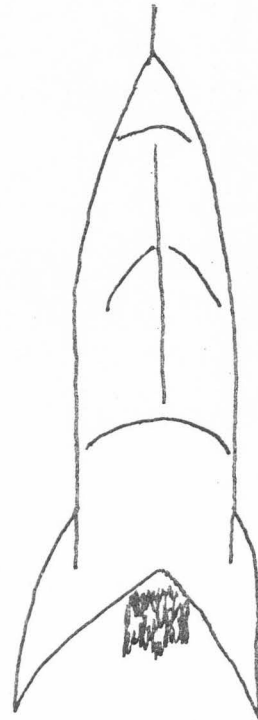
ROCKET TO LONDON

by Willy Ley

The year is 1970. At the Long Island rocket port you have to go to Boarding Facility 6 for Flight 21 -- the rocket liner for London. When you get there, you find a covered mobile escalator ready to lift you to the rocket door; some people get very squeamish when they look down and find that it is about 150 feet from the door to the ground.

At the door the stewardess takes over. You have to climb half a dozen steps of a verticle ladder which is normally hidden in the floor of the center isle. You've chosen seat 18 because somebody has told you the seats far back are better. True, you'll be over the wing, but there isn't much to see anyway.

Seat 18 is, of course, a contour chair with two belts, one in the normal place, and one just below the knees. Your arms fit into upholstered troughs with a safety clamp across them. The stewardess will offer you a pill which you can refuse if you want to, but most passengers will take it. Why be uncomfortable if it can be avoided? The voice of the captain coming over the loudspeaker will tell you that take-off will be in seven minutes. The acceleration will be around three "G's" (gravities) at its worst. When it gets bad, the captain tells you, just hold your breath for the few seconds it



will take. He may add that nobody quite knows why holding your breath for that short time makes you feel better, but it is a fact that it does.

For those seven minutes you can look out the window at the other rocket passenger liners, each stationed about 1,000 feet away from the terminal building. In over-all appearance these towering spaceships take two shapes. One is that of a large delta-winged rocket standing on its tail, carrying the smaller delta-winged upper stage (which is the one that houses the passengers and makes the whole trip) on its nose. The other shape is that of the lower stage carrying the upper stage pickaback.

Your stewardess warns you that take-off is close and checks to see that you are securely strapped in. Then she straps herself to her chair as the rocket motors begin to thunder at the precise predicted instant. They sound much louder to the people outside than to the passengers. You begin to be squeezed to the upholstery: the ship is lifting. In front of the cabin -- which is above your head -- luminous figures tick off the seconds which have lapsed since take-off. After "65" the figures turn red: high acceleration ahead.

Ten seconds later they are white again and the sound of the rocket motors seems different; the upper stage is now operating on its own. Things repeat as before, white figures jumping: 32, 33, 34, 35 . . . turning red again after a while. Suddenly the red figures are replaced by a green star. Acceleration is over; the ship now flies on momentum. You try to look out the windows and notice that they have turned almost opaque. Just a faint light shimmers through them. You feel completely weightless for a moment, then a little weight

comes back; if you stepped on a spring scale, the pointer might indicate all of twenty pounds.

Your captain speaks: "Well, we got rid of the lower stage all right; and if we are not on course, we are so little off that my instruments cannot sense it. We are now about 80 miles up and will keep climbing for a while. I have a tiny cruising motor running to give you some weight. I had to blacken out the windows because in our present position the sunlight splashes from one wing into the cabin and that wouldn't be good for your eyes. Just wait ten more minutes -- then the sun will be behind us and you can look out. When the green light went on, our speed was an even 8,400 m.p.h. along the trajectory. We have lost an m.p.h. or two by now, but I promise we'll be on time."

The stewardess helps you to "fold" your chair, which means that it assumes a shape closer to a normal chair. You can loosen your straps, but it is not recommended that you take them off completely. You don't know how to behave when weighing nearly nothing. You get a few refreshments soon, and the windows become transparent. You look at the black sky and at the stars which look clearer than they ever did before. You probably doze off

Is that a faint and very high scream? You can't be quite sure, but the captain tells you: "The screech you hear just means that we have re-entered the atmosphere. Stay in a seated position from now on, but please fasten your belts." The windows are again not transparent anymore, because metal shutters on the outside have closed them to protect them from the air rushing by. The air-conditioning machinery prevents you from knowing or feeling it, but the ship

is heating up; the sharp nose begins to glow a dull red.

Without much advance warning there is a steep bank; you know that the ship must be quite slow now or else it could not do that. You feel the draw on the ship as it prepares to land -- then the bump of the landing. You have travelled for one hour and fifteen minutes, with less than four minutes of it under acceleration. With some trouble you straighten up and walk to the covered escalator.

Just beyond the horizon there is London.

ROCKET FOR TRAVEL

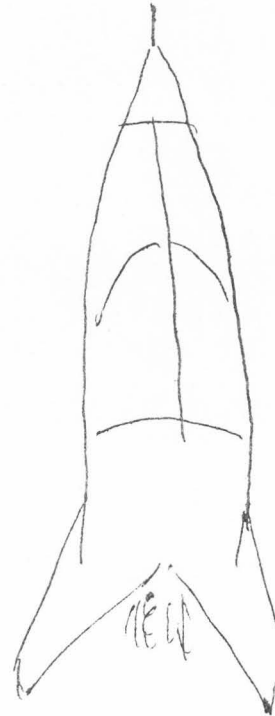
It is 1980. At the rocket port, in Long Island, New York, you go to pad 6 for take-off 21 to London. You find moving steps that lift you to the rocket door about 150 feet up. You go to seat 18 that is over the wing. The seat is round and has 2 belts. You sit in the seat and clamp the belts across you. Take-off will be in 7 minutes. For the 7 minutes you can look out at the other rockets 1,000 feet away.

The rocket is in 2 parts. The smaller upper-part is the one that goes the whole trip. You are in it.

The stewardess tells you that take-off is soon and she sees that your belts are clamped. The engines begin in an instant. They are very loud. You begin to be pushed into your seat as the rocket takes-off. 10 seconds later the upper-part is lifting alone. The rocket now flies on momentum. You look out and see that it is dim. You feel very light, about 20 pounds.

The captain says, "We got rid of the lower-part and we are 80 miles up. We are going 8,400 m.p.h."

The stewardess says, "You can not take your belts off or you will begin to float up to the top of the rocket. Soon you can have some food. After you eat you can rest."



Now you are starting to land. The rocket nose is a dull red and very hot. You do not feel the heat because you are protected by metal.

You feel the draw on the rocket as it lands. Then you feel a bump. You have been gone 1 hour and 15 minutes. The stewardess opens the door and you step out in London.

Circle the best answer in the questions below.

1. Travel by rocket requires you to
 - A. always keep your seatbelt clamped
 - B. to spend alot of money
 - C. to walk around for exercise
 - D. to wear a parachute

2. When you land in a rocket
 - A. there is a slight bump
 - B. it is very smooth
 - C. you must land in water
 - D. it is just like an airplane landing

3. When you begin to land in a rocket
 - A. there is a loud noise
 - B. the nose is slightly red
 - C. the lower-stage falls off
 - D. the stewardess has you fasten your belt

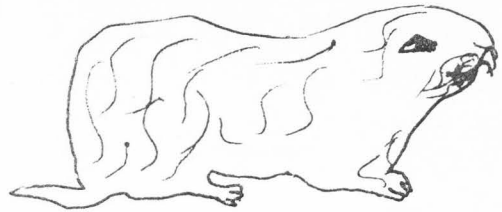
4. When you fly in a rocket
 - A. you are in the lower-stage
 - B. you are in the upper-stage
 - C. there is only one stage
 - D. it doesn't matter which part you are riding in for the trip

5. During the rocket trip
 - A. you can see alot of things outside the windows
 - B. it is hard to see outside the windows
 - C. the wings block the view
 - D. curtains cover the windows to protect you from the sun

ONWARD THE LEMMINGS

by R. P. Lister

I only once met a lemming socially, and that was on the lower slopes of a mountain called Akka, not far from the shores of the great Lake Luoktanjarkajaure, which few but Lapps can navigate and none but Lapps can pronounce.



This lake is one of a string of lakes joined together by rapids. We had navigated it the day before with a Lapp called Lars Pitto. Pitto was small and square and wore a peaked hat with a huge bobble of scarlet wool on it, which fell forward over his forehead. His boat was an open boat with an outboard engine, effective enough for the purpose except that it broke down every hour or so. The journey, consequently, took nine hours.

The next morning, however, when I met the lemming, was one of those warm, sunny mornings of the brief arctic summer when the mountains and the lakes doze in the heat, the birch and willow scrub buzz with a million man-eating mosquitoes, and the previous day's storm seems an improbable memory. In the company of a scientific Swede called Gustafson, I was strolling down toward the lake from the solitary hut on the slopes of Akka. We were enjoying the sunshine and the quaintly mingled smells of the steam rising from my sodden anorak and the anti-mosquito jungle-oil with which we were both

liberally smeared, when we spotted the lemming sitting in the scrub a yard or two away from the trail.

I was not formally introduced to the lemming. I have since learned, however, that his name was Lemmus Lemmus, of the family Microtinae. He was five inches long and covered with tawny yellow fur. He did not run away when he saw us, but backed up against a birch root and looked as fierce as he could, which was not very fierce.

We squatted down to look at Lemmus, slapping away at the mosquitoes which were eating our knees through our trousers, while Lemmus looked fiercely back at us. He seemed a rational enough creature.

Yet the lemming legend, Gustafson told me, is quite true. Lemmings breed very fast, and when there are too many of them for the amount of food they can find in the district, they all set off to go somewhere else. They travel toward the lower-lying land and the distant sea, and on the way they eat anything that is handy to be eaten, which is mostly stuff that the people of those parts would prefer to eat themselves. Lemmings are vegetarians, so they do not actually eat the cows; but the cows have to get along on what the lemmings leave.

The lemming horde is understandably unpopular. On its journey, which may take many months, it is attacked and set upon from all sides. Eagles and hawks and crows swoop down and treat the horde as a perambulating larder. Reindeer, in the upper reaches, and cattle and goats, lower down, stamp around among it, obliterating whole companies and battalions of the army with their hoofs. Like all armies, it suffers from epidemic diseases, so that division after division is reduced to platoon strength by lemming fever.

Nevertheless, the lemmings move slowly but surely on, undeterred by these disasters. When they meet rivers or lakes, they plunge in and swim across. If a river is too swift, or a lake is too wide, the lemmings that choose to cross there are drowned by the thousands. But there are still plenty more. All the time they are having lemming babies. Despite the numbers lost, by the time they reach the sea, there are often more of them than when they had set out.

There is something very human about lemmings. Once they get the idea that there is always a better place further down the road, it possesses them completely. Somewhere ahead there is a lemming paradise, a place where the grass is greener and the birch shoots are sweeter. There, it is never necessary to munch the lichen off the rocks till the grass comes up again and the dwarf birches sprout new leaves in the spring. Inspired by this belief, they make their way onward and ever onward, with a devotion and self-sacrifice which would be called inhuman if it were not, only too recognizably, very human indeed.

My own lemming, Lemmus Lemmus, showed no signs of this idealistic madness. He seemed a quiet, amiable creature, contented with his lemming wife and his arctic-summer birch shoots. When we stopped staring at him so closely and retreated to a few yards' distance, he ceased to back up against his birch root and went off into the scrub. We watched him enter his cozy little nest in a tussock at the base of a desirable rock. Clearly it would only be when the idea, the cause, the great adventure, got hold of him, together with a certain hunger in his stomach, that he would set off with his fellow millions for the glorious, if imaginary, lemming paradise far away.

For the lemming's idea never leaves him, once he has it. He does not, as the popular belief sometimes maintains, have any notion of mass suicide. He merely comes to another piece of water which is in the way.

Since he has not yet met perfection of this side of it, it must clearly lie on the other. He has crossed pieces of water before. So he plunges in and swims. This piece of water, though, happens to be the Atlantic Ocean, or the Gulf of Bothnia, as the case may be, and when he gets tired of swimming, that is the end of Lemmus Lemmus.

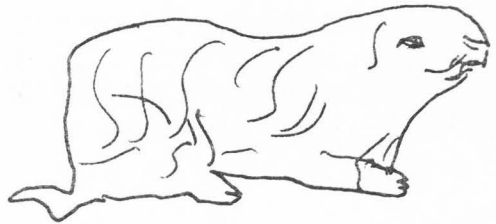
LEMMINGS

On the slopes of a hill called Akka, not far from the big Lake Lucktanjaraure, a lake that few but Lapps can navigate and none but Lapps can say, I met a lemming.

This lake is one of several lakes placed in a line by rapids. We and a Lapp called Lars Pitto navigated in one day. Pitto was small and fat, and had on his head a pointed hat with a huge bobble of scarlet wool on it; it fell forward over his face. His ship was an open ship with an engine that broke down a lot, so the trip took nine hours.

The morning that I met the lemming was one of a few warm, sunny mornings of the arctic summer when the hills and the lakes nod in the sun. The trees buzz with lots of man-eating insects and the former day's storm seems an improbable memory. In the company of an intelligent Swede called Gustafson, I was strolling toward the lake from the solitary hut on the hills of Akka. We were loving the warm sun and the mingled smells of the mist rising from my sodden coat and the anti-insect jungle-oil that we were liberally covered with, when we spotted the lemming sitting in the scrub not far away from the path.

I was not formally introduced to the lemming, but I have since discovered that his name was Lemmus Lemmus, of the family Microtinae. He was tiny and covered with a tan yellow fur. He did not run away



when he saw us, but looked as wild as he could, but that was not very wild.

We bent to look at Lemmus, slapping away at the insects that were eating our legs under our pants, and Lemmus looked wild at us but he acted tame and rational.

Yet the lemming legend, Gustafson told me, is a fact. Lemmings mate very fast and when there are too many of them for the supply of food they can find in the district, they all set off to go away. They travel toward the lower-land and the distant sea; on the way they eat all that is handy to be eaten, mostly stuff that the population would also prefer to eat. Lemmings are plant eaters so they do not eat cows; but the cows have to get along on what the lemmings leave.

The lemming herd is understandably hated. On its trip that may take many months, it is set upon from all sides. Big birds dive upon them and eat them. Reindeer, in the upper hills, and cattle and goats, in the lower hills, stamp out many of the lemmings with their feet. The herd also suffers from lemming fever that reduces the number.

The lemmings move surely but not fast and are not stopped by these disasters. They dive into lakes or rivers and swim across. If a river is swift or a lake is very wide, the lemmings that cannot make it are killed by the thousands. But there are still many; all the time they are having little lemmings. Despite the number lost, by the time they get to the sea, there are often more of them than when they set out.

Lemmings are very human when they get the notion that there is always a better place to go; it controls them totally. They fancy there is a lemming paradise, a place that the grass is greener and the

plants are better. They make their way onward and ever onward, with a devotion and self-sacrifice; called inhuman but very human indeed.

My own lemming, Lemmus Lemmus, gave no hint of this madness. He pretended to be contented with his lemming wife and his arctic-summer food. Only when the notion, the adventure, gets hold of him with a hunger in his body, then he sets off with his herd for the imaginary lemming paradise far away.

For the lemming's notion never passes from him, when he has it. He does not, as the story tells, have any notion of mass killing of himself. He merely comes to more water that is in the way. He has not yet met perfection on this side of it so it must be on the yonder side. He has crossed water many times so he dives in and swims. But, this water happens to be the Atlantic Ocean or the Gulf of Bothnia, as the case may be, and when he gets tired of swimming, that is the end of Lemmus Lemmus.

Circle the best answer in the questions below.

1. During what season did the man writing the story first see a lemming?
 - A. winter
 - B. summer
 - C. winter
 - D. spring

2. To protect himself from insects, the man
 - A. stayed in the hut
 - B. covered himself with jungle-oil
 - C. wore a covering of wool
 - D. slapped them away

3. Why did the trip in the water take a long time?
 - A. Pitto could not see well.
 - B. The outboard motor kept running out of gas.
 - C. The engine kept breaking down.
 - D. It was an open boat.

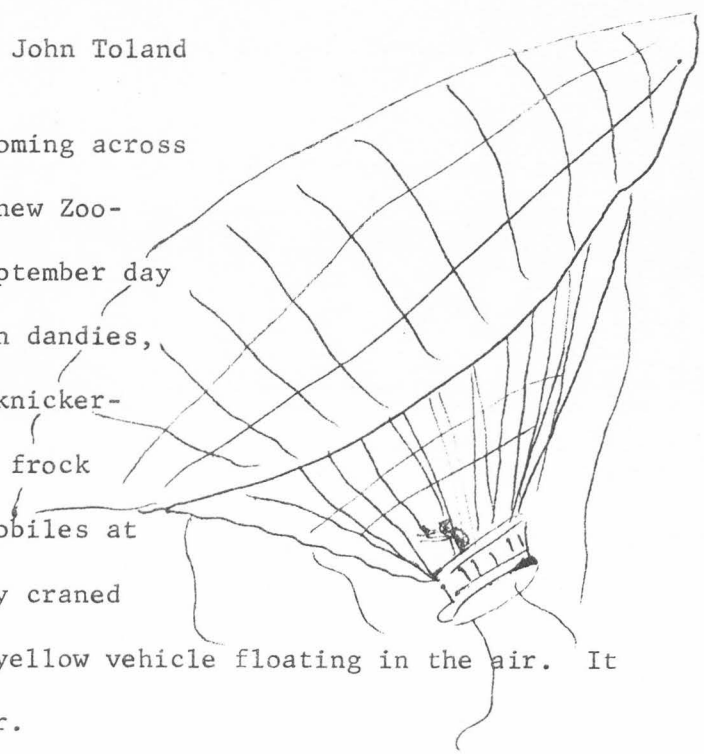
4. Lemmings begin their migration marches because of
 - A. a food shortage
 - B. lack of living space
 - C. because of the weather
 - D. because they like to move around

5. The writer likes the lemmings because
 - A. they act alot like human beings
 - B. they are fun to watch
 - C. they eat only left-over grass
 - D. they have many babies

THE MAN IN THE WICKER BASKET

by John Toland

A strange procession was coming across a broad field in the beautiful new Zoological Garden of Paris on a September day in 1898. Excited young Parisian dandies, some in caps and gaily checked knickerbockers, others in top hats and frock coats, were guiding their automobiles at a crawl; and as they drove, they craned their necks to watch a curious yellow vehicle floating in the air. It looked like a badly shaped cigar.



Following the belching cars was a large, not-so-fashionable, but just as excited group of students and office workers accompanied by girl friends in billowing skirts that swept the ground. They were jabbering and pointing at the eighty-two-and-a-half-foot airship, which several men were drawing on a long rope toward the leeward side of the field.

The crowd's excitement was understandable. There was a chance -- only a slight one, but still a chance -- that today, September 20, would be the day man would first navigate the air. It was a moment that would compete with the historic launching of Fulton's Claremont or the firing of Stephenson's first crude locomotive; that is, if the clumsy-looking airship actually flew.

A dapper young man about the size of a jockey stood nonchalantly

in a deep wicker basket which was suspended by ropes from the gas bag. He was the inventor and navigator of the airship, the wealthy young Brazilian, Alberto Santos-Dumont. He was immaculate in a pin-striped suit, high collar, derby, and kid gloves.

When the floating dirigible approached the tall trees bordering the side of the field, Santos called out an order in a high-pitched voice. The men on the ropes obediently stopped and pulled the airship down until the basket touched the turf. The Brazilian leaped nimbly to the ground.

He wrapped a strap around the wheel of the two-cylinder gasoline motor that was fixed behind the basket. Then he pulled sharply. The motor started with a series of crashing explosions, and the gathering crowd jumped back in fear. At once several members of the exclusive Aero Club pushed forward and tried again to persuade their colleague to postpone his trip until a safer electric motor could be installed.

Santos amiably shook his head. It was his theory, and his alone, that the recently invented gasoline motor was the only answer to the seemingly impossible task of conquering the air.

A half-dozen professional balloonists now strolled up to Santos and advised him, in a patronizing way, to start from the other end of the field where he could rise and float with the wind. When he refused to take their advice, they shrugged their shoulders and backed away to a safe distance, waiting for the crash they knew was sure to come.

Santos took a final look at the brilliantly blue, afternoon sky. Then, satisfied, he climbed into the willow car. The guide rope was slackened, and the elongated balloon began to leave the ground. Now that the final moment had come, the crowd fell into a

frightened silence.

Santos stroked his small mustache and calmly gave the signal to release the rope. The ship rose rapidly, and Santos headed obliquely into the wind. There was a shocked gasp from the balloonists, who were positive that the ship would be tossed into the nearby trees. Miraculously, the dirigible did just what Santos had predicted; it bucked the wind. The wind acted as a lever, and in a few seconds the dirigible was safely above the trees.

The crowd shouted with relief, and then, almost instantly, it became quiet again. The ship had wheeled as if blown around and was now skimming along with the wind. A dozen airships had done as much. The big test was to make steady headway in the teeth of the wind, It appeared that this airship was going to flounder like all the others.

As if in answer to the doubters below, the big yellow dirigible made a sharp turn over the Zoological Garden and headed straight into the wind, moving briskly and easily.

The crowd cheered wildly. Women fluttered handkerchiefs, mechanics threw grimy caps into the air, and the young dandies from the Aero and Automobile Clubs waved their derbies and high hats. For the first time in history a powered airship had obeyed her rudder!

The ship was now twisting and turning with utter grace. It sailed in every direction of the compass. Then abruptly it made a steep dive. Women screamed in terror. But then the ship swooped up into a climb. The dive had been no accident -- just a bit of cavorting by the spirited Santos.

High in the sky, in the willow car that looked like a laundry

basket, Santos was tasting a new delight. Many hours of ballooning had prepared him for the sensation of height, even for the sensation of movement; but he had never before felt the wind blow in his face. A balloon always rode with the wind.

His flaming red necktie flapping behind him, Santos exultantly executed a neat figure-eight. Then he put two ballast bags behind him and the ship rose. He was intoxicated with the power of controlled flight. He was traveling in a new dimension. He was a bird.

Suddenly something popped over his head. He looked up and saw to his horror that the big cigar-shaped balloon had doubled up like a jack-knife. The hydrogen in the bag had contracted as the ship fell; the air pump, which was supposed to compensate for the contracting gas, evidently wasn't working; and the bag became limp.

The ship plummeted helplessly toward the fields below. Santos didn't know what to do. If he threw out the ballast, he would rise, and the hydrogen would again expand and straighten out the bag; then, if he were to descend again, the balloon would again collapse.

Three hundred feet from the ground, he saw that he was falling near a group of boys. As his 200-foot-long guide rope struck the ground, he called in his high-pitched voice, "Take the rope! Run into the wind!"

The boys were bright. They grabbed the trailing rope and ran into the wind. Just as the basket was about to crash, the falling balloon soared upward like a kite. Santos landed a few seconds later with only a slight bump. He was ruffled but completely unharmed. Presence of mind had saved his life. It wasn't to be the last time.

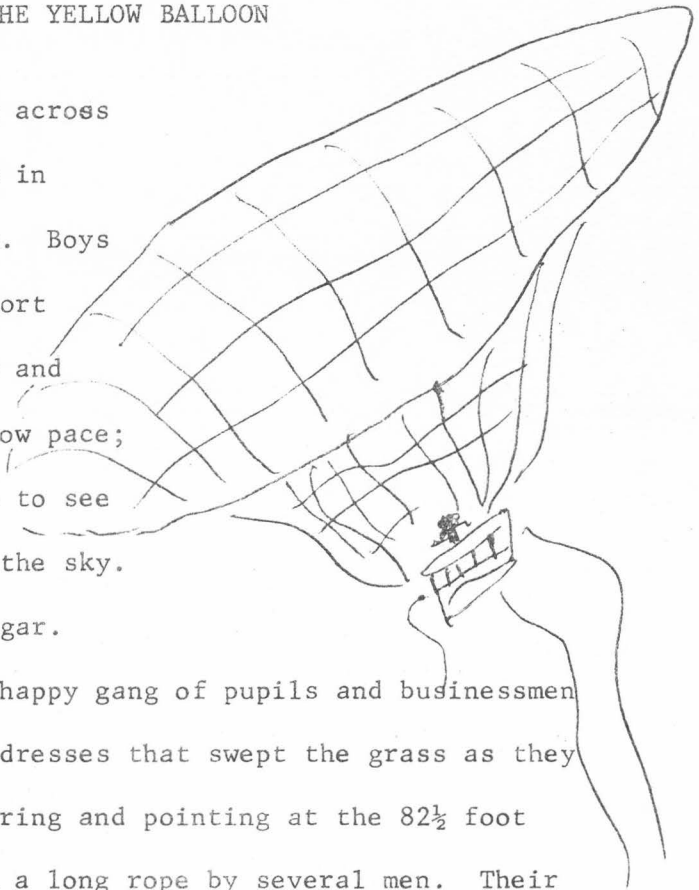
THE MAN IN THE YELLOW BALLOON

A strange parade was moving across a large field in a pretty garden in Paris on a September day in 1898. Boys in caps and different colored short pants, and men, some in top hats and coats, were driving cars at a slow pace; and as they drove they looked up to see an odd yellow vehicle flying in the sky. It looked like a badly formed cigar.

After the cars was a large happy gang of pupils and businessmen with their lady friends in full dresses that swept the grass as they strolled along. They were jabbering and pointing at the 82½ foot balloon that was being pulled on a long rope by several men. Their joy was understandable. Perhaps this day, September 20, was the day man was going to navigate the sky. It was a history making time if the clumsy balloon flew.

A dapper little man was in a basket suspended by ropes from the gas bag. He was the originator and driver of the odd vehicle, the rich Brazilian, Alberto Santos-Dumont. He was immaculate in a well cut coat, derby, and kid gloves.

The flying balloon came to the tall trees bordering the side of the field and Santos called an order. The men on the ropes pulled the balloon until the basket was on the grass. The Brazilian jumped nimbly to the ground.



He put a strap on the two-cylinder engine that was fixed behind the basket. Then he pulled sharply. The engine started with a clatter and all of the persons jumped in alarm. Several members of the Aero Club pushed forward and were going to stop his trip until a safer electric engine was installed. Santos declined; it was his notion that the recently invented engine was the only way to the impossible task of navigating the sky.

Six balloonists now strolled up to Santos and advised him to start from the far end of the field so he could glide on the wind. After he said no to their advise, they went to a safe place to see the crash they had felt was coming. Santos took a final look at the blue afternoon sky. Then, he got into the balloon. The rope was limp and the elongated balloon began to rise from the field. Now that the final moment was here, the observers were scared and silent.

Santos gave the signal to let go of the rope. The ship rose rapidly and Santos started into the wind. There was a gasp from the balloonists who were sure that the ship would be tossed into the trees. Incredibly, the balloon did just what Santos had predicted; it bucked the wind. The wind acted as a lever, and in a few seconds it was safely above the trees.

The observers yelled with joy and then almost instantly, they became silent. The balloon had turned and was now skimming along with the wind. Several balloons had done as much. The big test was to go into the wind. It seemed that this balloon would fail like the rest had. As if in answer to the distrusting below, the big yellow balloon went into the wind, moving briskly and simply.

Men and ladies yelled wildly. The ladies fluttered hankies, men

who made the balloon throw grimy caps into the sky, and the boys from the Clubs waved their hats. For the first time in history a powered balloon had responded to her rudder. The ship was now turning with utter grace. It flew in every direction of the compass. Then abruptly it made a sudden dive. The ladies yelled, but then the balloon went up again. The dive was no accident -- just a bit of showing off by the spirited Santos.

Up in the sky Santos was tasting a new happiness. Many hours of flying had prepared him for the sensation of movement; but he had never felt the wind blow in his face. A balloon always rode with the wind. His flaming red tie flapping behind him, Santos put ballast bags behind him and the ship rose. He loved the control, he was traveling in a new way. He was a bird.

Suddenly there was a popping over his head. He looked up and saw to his dismay that the big cigar-shaped balloon had doubled up. The hydrogen in the bag had contracted as the ship fell; the air pump, that was supposed to compensate for the contracting gas, evidently wasn't working, and the bag became limp. The ship fell helplessly toward the fields below. Santos didn't know what to do. If he tossed out the ballast, he would rise, and the hydrogen would again unbend the bag; then, if he were to fall, the balloon would again collapse.

Three-hundred feet from the field he saw that he was falling near many boys. As his 200-foot-long rope hit the grass he called out, "Take the rope! Run into the wind." The boys were alert. They grabbed the rope and ran into the wind. As the balloon was nearly to crash, it flew upward like a kite. Santos landed a few seconds later with only a bump. He was ruffled but unharmed. Alertness of mind had saved his life. It was not to be the last time.

Circle the best answer in the questions below.

1. The man in this story flew in a
 - A. large plane
 - B. basket with wings
 - C. basket filled with a special kind of air
 - D. tiny ballon

2. Many people came to watch the man with the ballon
 - A. because he was their friend
 - B. because they thought it would fly
 - C. because his had an engine
 - D. because it was not on television

3. During the flight
 - A. the basket had no problems
 - B. the engine ran very smoothly
 - C. there were some problems
 - D. the engine fell off the ballon

4. The basket full of air
 - A. could not be guided
 - B. was easy to steer
 - C. could be controlled by the man
 - D. always went into the wind

5. Just before the ballon was about to crash
 - A. some men pulled on the ropes and the wind broke the fall
 - B. the wind took the basket high into the air
 - C. some women screamed in fear
 - D. the man in the ballon jumped to safety

VITA

Wesley K. Roberts

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Doctor of Philosophy

Dissertation: Complexive Ordering of Reading Experience Through
Grapheme-Phoneme Relative Frequency Control

Major Field: Psychology

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