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MANDLEBAUM, LINDA HIGBEE

A COMPARATIVE STUDY OF THE WRITTEN VOCABULARY OF
STUDENTS IN GRADES 1-6

The University of Oklahoma

PH.D. 1981

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THE UNIVERSITY OF OKLAHOMA

GRADUATE COLLEGE

A COMPARATIVE STUDY OF THE WRITTEN VOCABULARY
OF STUDENTS IN GRADES 1-6

A DISSERTATION

SUBMITTED TO THE GRADUATE FACULTY

in partial fulfillment of the requirements for the

degree of

DOCTOR OF PHILOSOPHY

BY

LINDA HIGBEE MANDLEBAUM

Norman, Oklahoma

1981

A COMPARATIVE STUDY OF THE WRITTEN VOCABULARY
OF STUDENTS IN GRADES 1-6

APPROVED BY

Loye McNett

Carol Adams

W. H. H. H. H.

Loy E. Erickson

Dorothy L. L. L.

DISSERTATION COMMITTEE

ACKNOWLEDGEMENTS

Many thanks are offered to Dr. Gaye McNutt who has served not only as an advisor and teacher, but also as a friend and an outstanding role model in my professional development.

Thanks also go to my husband, Bill Mandlebaum, who supported and encouraged me throughout the program and who proofread stories and keypunched computer cards when his help was needed.

In addition, thanks go to my committee members: Dr. William Graves who patiently spent hours helping with the computer programs; Dr. Caryl Adams and Dr. Loy Prickett who were always ready with a cheerful smile and, when needed, sound advice; and Dr. Dorothy Higginbotham whose interest and questions kept me thinking.

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A COMPARATIVE STUDY OF THE WRITTEN VOCABULARY
OF STUDENTS IN GRADES 1-6

CHAPTER I
THE PROBLEM

Two common problems with written vocabulary studies are that they are either outdated or they focus on a limited geographic area. Therefore, the studies may be of questionable use. Although these and other problems exist, many of the language arts materials used in today's schools are based on lists of words developed from written vocabulary studies. For example, the vocabulary of reading, spelling, and language development programs are often based on such lists. Perhaps the area which can be most directly related to the studies of students' written vocabulary is spelling, since a student should have some knowledge of how a word is spelled in order to write the word. The following focuses on the problems of vocabulary selection for the author of spelling materials and how this relates to written vocabulary studies.

An unabridged dictionary contains approximately 500,000 words. The teacher who would attempt to teach the spelling of each of these words would be facing a monumental task. Furthermore, it is unlikely that any individual could learn to spell all 500,000 words. According to Ames (1965) the typical spelling program includes a total of less than 4,000 words; however, the adult who is considered a good speller

knows the spelling of about 50,000 words (Smith, 1980). The discrepancy between the spellings the adult knows and the spellings s/he was taught may be accounted for through incidental learning. That is, a person learns the spelling of words unconsciously while performing other tasks such as reading (E. Horn, 1937; Smith, 1980).

Unfortunately, not everyone appears to learn spelling through incidental means. Many students who have been identified as handicapped (e.g., learning disabled, mentally retarded, emotionally disturbed) as well as many students who have not been identified as handicapped often have a difficult time learning to spell. These students appear not to learn the spelling of words incidentally; therefore, every word they learn must be taught. If these individuals are to attain most of the words they will learn to spell in a lifetime through the use of a spelling program, the vocabulary of that program must be carefully chosen.

The selection of words which constitute the vocabulary of a spelling program has long been debated. Over the years several methods of word selection have been used. A listing of the methods of word selection followed by a summary of the representative problems with the methods is presented here.

1. Select words at random. If a teacher opened a dictionary and selected words at random, it is possible s/he might include anemones, scabbard, and insurrections which were included in a spelling book published in 1920 (Van Wagenen).

2. Select words that occur in the content area curriculum. These might include continent, Antarctica, fjord, and peninsula.

3. Select seasonal words such as reindeer, sleigh, wreath, and Santa Claus.

4. Select words occurring in the students' reading material. Students reading the story "The Three Billie Goats Gruff" might find troll, gruff, and bridge among their spelling words.

5. Select words which represent a particular linguistic principle. If a teacher wanted to teach the sh spelling, s/he might use shun, gosh, shod, and mushroom in the spelling list.

6. Select words students misspell in their work (e.g., alien, soccer, devil).

7. Select words students ask to have spelled such as Frankenstein, laser, and battleship.

8. Select words used frequently by children in their writing. These might include into, gave, dog, and mother.

9. Select words used frequently by adults in their writing (e.g., accept, address, further).

10. Select words which adults and/or children use frequently in their writing (e.g., went, now, girl). This method allows the teaching of words that are used frequently by (a) both children and adults, (b) children but not adults, and (c) adults but not children.

The first four methods of word selection allow the author of a spelling program to choose words which may be of little practical use to a student since the words may be rarely used by the average individual. The fifth method, selecting words which represent a particular linguistic principle, is a common approach to vocabulary selection; however, this method also allows for the selection of words which may not be used often in writing.

The sixth and seventh methods would adapt themselves well to individualized spelling programs designed by the classroom teacher; however, the majority of teachers rely on a commercial product as the source of their program. Additionally, students may misspell or ask to have spelled words they are not likely to write more than a few times in a lifetime (e.g., Dracula).

Methods eight and nine would permit teaching a high percentage of words which would be used during only one period in a lifetime (i.e., only during childhood or only during adulthood). Although there is an overlap between the two lists, using only one or the other criterion eliminates a number of important words. This difficulty is avoided by using the tenth method of word selection (i.e., selecting words which adults and/or children use frequently in their writing). This method works well because of the large overlap between the child and adult vocabularies; and because it allows words to be taught at the time when they are most likely to be used. For instance, the word kitty would be taught in the primary grades where children use the word frequently; and the word address would be taught in the upper grades in the program when students are more likely to use and, therefore, remember it. Additionally, this method of vocabulary selection is supported by many authors in the field of spelling (Allred, 1966; Coleman, 1931; Cook, 1914; Dolch, 1942; Fitzgerald, 1951; Foran, 1934; Hildreth, 1948, 1955; Hillerich, 1978; Hinrich, 1975; E. Horn, 1926, 1954; Kyte, 1943; Rinsland & Moore, 1937; Thomas, 1974; Wilson, 1963).

This researcher also supports the tenth method of vocabulary selection (i.e., selecting words which adults and/or children use

frequently in their writing); however, the task of determining what those words are for both children and adults could be a colossal task which could be divided into at least three smaller tasks (i.e., determining the vocabularies of elementary children, secondary students, and adults). Therefore, the decision was made to begin with the vocabulary elementary children use in their writing since these would be the words which would be taught first in a spelling program.

Significance of the Study

The results of this research may affect the vocabulary chosen for spelling programs and reading materials designed for children. Additionally, it could demonstrate alterations in vocabulary due to mass communication and other changes in lifestyle.

Four things could occur which would be significant: (a) new words might appear which were not previously reported; (b) words which were used frequently in the past may no longer occur at all or may occur less frequently; (c) words might appear earlier or later in students' vocabularies; or (d) there could be no change in the vocabulary currently used by students in their writing.

Statement of the Problem

The problems in this study are: (a) to compare two methods of determining the frequency of words used in the written vocabulary of students, (b) to compare the results of this research with that conducted by Henry Rinsland (1945), and (c) to compare the 100 words used most frequently at each grade level (1-6) of this research with corresponding lists from the Rinsland study. Rinsland's work was chosen as the comparison because it is the second largest and most widely cited study;

and although it is smaller than the study conducted by Jones in 1913, Rinsland provided information on word frequency which Jones did not supply.

Specifically, answers to the following questions are sought:

1. What are the 250 words used most frequently in written expression by a sample of students in grades 1-6? (This method of ranking words will be referred to as Method 1.)
2. Which 250 words are used in written expression by the greatest percentage of a sample of students in grades 1-6? (This method of ranking words will be referred to as Method 2.)
3. Do the two methods of ranking students' written vocabulary describe the same set of words?
4. What is the relationship between each of the lists compiled in Questions 1 and 2 of this study and the 250 words used most frequently as reported in the Rinsland study?
5. Which words occur in this study that were not reported by Rinsland?
6. What are the 100 words used most frequently in written expression by students at each grade level (1-6)?
7. What is the relationship between each of the lists compiled in question six and the equivalent lists compiled by Rinsland?

Definition of Terms

1. A word will be defined as an entry in the Webster's Third New International Dictionary of the English Language, Unabridged (1976).
2. Nonstandard words are words not included in the dictionary which are generally considered grammatically unacceptable (e.g., runned, mostest).

3. New words are words of recent origin which do not appear in the dictionary but are seen in print. If a student used a word which was not in the dictionary, attempts were made to determine its validity. For instance, the Health, Physical Education and Recreation Department of the University of Oklahoma was called to determine that brany was a gymnastic term.

4. Closed compound words are two words written as one word to communicate meaning (e.g., doghouse, schoolteacher).

5. Open compound words are two or more words used together but not written as one word (e.g., high school, swimming pool, industrial engineer). The dictionary was consulted to determine whether a group of words is considered an open compound word.

6. Concatenations are two or more words which have been chained together as they are often pronounced (e.g., wanna, gonna, sorta).

7. Dialect influenced words are individual words written in a manner to indicate pronunciation (e.g., goin', y'all).

8. Onomatopoeic items are alphabetical representations of noises and sound effects which are not found in the dictionary (e.g., z-z-z-z, hm-m-m-m, br-r-r-r).

Delimitations

This study was organized and conducted with the following delimitations:

1. Participating students were enrolled in grades 1-6 in public school districts randomly selected throughout the United States during the 1980-81 school year.

2. Only stories from students returning signed parental permission slips were used in the study.

3. Only students from public school systems participated.

4. Only one sample of writing was selected from each student.

5. Only one kind of writing (creative stories) was gathered.

Limitations

1. All fifty states were not represented by the school districts which furnished stories.

2. Words had to be eliminated from the study because they were either illegible or they were non-English and were not recognized as words by the researcher.

3. Before compiling the words from this study, various cutoff points were considered (e.g., 100, 250, 500). Once the words were compiled, it appeared that beyond 250 the number of words which occurred with the same frequency was so great that the information would have been insignificant; therefore, the decision was made to use 250 as the cutoff point.

Assumptions

The following assumptions have been made regarding this study.

1. Creative stories will provide an adequate sampling of the written vocabulary of students.

2. The stories submitted were the original work of students.

CHAPTER II

REVIEW OF THE LITERATURE

Rinsland (1945) was referring to a frequency count of students' written expressive language when he stated:

Any accurate and exact knowledge concerning these symbols--what they are in each grade and how children use them from grade to grade--should lead to a better method of preparing all verbal materials so that learning can go on with the greatest ease and benefit to the whole personality of the growing child. (p. 1)

Nisbet (1960-61) was also concerned with frequency counts and their uses; he wrote that if we know what items are most likely to be used in actual practice, "we can plan the instruction more efficiently" (p. 51).

Nisbet and Rinsland probably would have agreed that when a student learns a list of spelling words, those words should be ones they will actually use in writing as a child and as an adult. Determining just what those words are and using them as the basis for a spelling program is supported by a large number of authors in the field of spelling (Allred, 1966; Coleman, 1931; Cooke, 1914; Dolch, 1942; Fitzgerald, 1951; Foran, 1934; Hildreth, 1948, 1955; Hillerich, 1978; Hinrichs, 1975; E. Horn, 1926, 1954; Kyte, 1943; Rinsland and Moore, 1937; Thomas, 1974; Wilson, 1963).

In the past 70 years a great deal of research has been conducted to determine which words are likely to be written by students and adults. Because the research for this dissertation is limited to the vocabulary

of students, this review focuses on the research of students' written expression.

The purposes of a review of the literature are (a) to determine what research has already been done in the area and (b) to determine that there is a need for additional research. Generally, a review of the literature contains a brief discussion of each of the studies individually that have been conducted. This review, however, departs somewhat from the standard format for two reasons: First, because of the large number of studies that were located dealing with the written vocabulary of students; and second, because of the difficulty of discussing the results of each study since the "results" are lists of words. Specifically, this chapter contains (a) a list of written vocabulary studies in table format and a brief discussion of several aspects of the studies (i.e, dates of publication, ages or grades of the students involved, types of papers utilized, geographic locations from which the samples were taken, and numbers of words counted), (b) a detailed discussion of the Rinsland study, (c) a review of other important studies related to written vocabulary, and (d) summary and conclusions.

Written Vocabulary Studies

The 61 studies on the written vocabulary of students are summarized in Table 1 in chronological order. The table can be read in the following manner: The first study was conducted by W. Jones in 1913 and involved students in grades two through eight. The themes Jones used were on topics chosen by the teachers involved; he obtained themes from students in four states and counted approximately 15,000,000 words. The remainder of this section is a discussion of the five variables common

Table 1

Summary of Research on Students' Written Vocabulary

Study	Grade/Age of Subjects	Source of Vocabulary	Geographic Location	Number of Words Counted
W.Jones (1913)	Grades 2-8	Themes on topics chosen by teacher	4 states	15,000,000 ¹
H.Smith (1913)	Grades 3-8	Themes	Wisconsin	75,000 ²
Studley & Ware (1917)	Not indicated	Compositions	California	200,000 ²
Tidyman (1921)	Grades 3-9	Spontaneous compositions	Connecticut	538,500
G.McKee (1924)	Grade 6	Themes on topics from given list	Illinois & Iowa	18,958
O'Brien (1925)	Grades 7-12	Compositions on two topics	Kansas	Not indicated
French (1926)	Grades 3-8	Letters sent through the mail	All parts of the U.S.	100,000
Wilmarth (1926)	Grade 6	Themes on topics from given list	Iowa	123,235
Dolch (1927)	Grades 2-8	Words written in free association	Illinois & New York	2,312,245
Schlegel (1927)	Grades 7-9	Compositions on a personal experience	Lawrence, Kansas	Not indicated
Hoffman (1928)	Grade 6	Letters written in life outside school	17 states	49,423
Shambaugh & Shambaugh (1928)	Grades 4-8	Free association to list of words	California & Oregon	230,631
K.Wilson (1928)	Grades 2-4	Compositions and letters	Chicago & immediate vicinity	126,427
Cox (1929)	Grade 3	Letters written to relatives and friends	30 states	32,007
Riddle (1929)	Grade 5	Letters written outside school	31 states, Alaska, & Canada	54,034
Simpson (1929)	Grades 1-8	Letters written away from school	39 states & child traveling in Europe	67,143
Bauer (1930)	Grades 3-8	Themes on assigned topics	New Orleans	2,500,000
Martin (1930)	Grades 10-12	Variety of sources	Oklahoma	46,498

Table continued on next page

Table 1 (continued)

Study	Grade/Age of Subjects	Source of Vocabulary	Geographic Location	Number of Words Counted
Nowlin (1930)	Grade 6	Themes on furnished topics	4 states	101,981
Taylor (1930)	Grades 2-3	Lists of words written by students	Oklahoma	54,194
Lorenz (1931)	Grade 3	Variety of sources	1 state	82,694
Matthews (1931)	Grades 7-8	Variety of sources	Oklahoma City	60,140
Pratt (1931)	Grade 5	Themes on furnished topics	3 states	99,933
Sharp (1931)	Grade 4	Letters written outside school	18 states, Canada & Mexico	51,483
Troutt (1931)	Not indicated	Compositions and letters	New Jersey & Pennsylvania	110,360 ²
Wiley (1931)	Grade 2	Variety of sources	Oklahoma County	44,836
Driggs (1932)	12-15-year-olds	Letters sent through the mail	34 states	Not indicated
Hall (1932)	Grade 8	Themes on furnished topics	Southeastern Nebraska	107,155
Hunter (1932)	Grade 5	Spontaneous letters away from school	37 states, Washington, D.C., Hawaii & Cuba	51,990
Jakeman (1932)	Grades 4-6	Compositions written after viewing 2 films	University School at State University of Iowa	27,352
Mitchell (1932)	Grades 2-8	Themes	3 southern cities	141,951
Burdine (1933)	Grades 1-6	Letters written outside school	34 states	54,750
Francis (1933)	Grades 2-7	Spontaneous letters	Texas	120,000
Oberman (1933)	Grades 3-8	Themes stimulated by presentation of 26 words	Iowa	290,000 ³
Van Bruggen (1933)	Grades 2-8	Themes and letters	California & Washington	108,756
Buechler (1934)	Grade 4	Variety of sources	Los Angeles, California	69,926
Fitzgerald (1934)	Grades 4-6	Personal letters written outside school	41 states	461,321

Table continued on next page

Table 1 (continued)

Study	Grade/Age of Subjects	Source of Vocabulary	Geographic Location	Number of Words Counted
Fitzgerald (1934)	Grades 4-6	Letters written in life outside school	10 states	470,046
Segalla (1934)	Grade 12	Themes on suggested topics	Chicago	75,842 ⁵
Wheeler (1934)	Not indicated	Compositions and letters	Kentucky	289,475 ²
Chalmers (1935)	Grades 7-12	Themes entitled "The Most Exciting Ride I Ever Had"	Alberta, Canada	275,000 ⁴
Little (1935)	Grades 9-12	Themes on furnished topics	Lewis Consolidated High School in Colorado	123,933
J. Smith (1935)	Grades 2-8	Variety of Sources	Aurora, Illinois	238,654
Gunn (1937)	Grade 4	Themes on furnished topics	3 states	61,432
Brittain (1938)	Grade 2	Themes on furnished topics	Chicago Public Schools	120,436
Fitzgerald (1938)	Grade 3	Real letters received through the mail	27 states	100,840
Burckhalter (1943)	Grade 7	Lists of words written by students	Los Angeles, California	19,594
Gunderson (1943)	7-year-olds	Free writing	University School at University of Wyoming	22,900
Rinsland (1945)	Grades 1-8	Variety of sources	416 cities throughout U.S.	6,012,359
Horgen (1952)	Grades 1-2	Voluntary writing	Iowa	39,914 ⁵
Purcell (1952)	Grades 2-8	Compositions and letters	3 states	253,108
Toney (1952)	Grade 7	Social and business letters	Montevallo Negro High School Montevallo, Alabama	6,650
Herrick & Howell (1954)	Grade 2	Directed and independent writing	Not indicated	Not indicated
G. Jones (1959)	Grades 4-6	Practical and personal written communication	Newnan, Georgia	26,552
L. Wilson (1963)	Grade 3	Individually written compositions and group compositions	2 widely separated geographic areas	93,657

Table continued on next page

Table 1 (continued)

Study	Grade/Age of Subjects	Source of Vocabulary	Geographic Location	Number of Words Counted
Edwards & Gibbon (1964)	5-7-year-olds	Spontaneous writing	Leicestershire, England	Not indicated
Kinsey (1966)	Grades 1-6	Creative writing	Florida	109,011
Helms (1968)	Grades 4-6	Original writing	Ohio	1,270,880
Schwarz (1972)	Grades 4-6	Variety of sources	Massachusetts	170,222
Thomas (1972)	Grades 1-6	Variety of sources	Alberta, Canada	117,878
Hillerich (1978)	Grades 2-6	Creative writing	Suburban community in Illinois	380,342

Footnotes

¹Number is an approximation

²Original study not available, information taken from secondary source

³300 common words were not included in the count

⁴Counted only 50 consecutive words beginning on lines 6-8 of the themes

⁵Includes proper nouns

to the 61 studies: (a) dates of publication, (b) ages or grades of the students involved, (c) types of papers that were utilized, (d) geographic locations from which the samples were taken, and (e) numbers of words counted.

Publication Dates

Of the 61 studies conducted on students' written vocabulary, 49 were conducted before 1950. Only 12 were conducted since 1950; and of these, only three were conducted in the last ten years.

Ages or Grades of Students Involved

The ages or grades of the students participating in the various studies ranged from five-year-old children to students in the twelfth grade. A summary of the information on ages and grades of students involved in the studies follows.

1. Three studies did not indicate the age or grade level of the samples.
2. Three studies referred to their subjects by age rather than by grade.
3. Of the remaining studies, 21 examined the written vocabulary of a single grade while 34 examined the vocabulary of two or more grades.
4. Grade one and grades 9-12 were included in less than eight studies each.
5. Grades 4-6 were included in at least 28 studies.

Types of Papers That Were Utilized

The type of writing done by students included informal items such as grocery lists written for mothers or notes written to friends as

well as formal term papers written for school. A summary of the information on the types of papers which were used follows.

1. Four studies had children write lists of words they thought were important to learn or words they wrote from free association (i.e., any words that came to the students' minds).
2. Nine studies involved a wide variety of materials such as notes passed during class, poems, reports, stories, letters, plays, etc.
3. Fourteen studies involved only letters written by students to a friend, relative, or business. Usually, the letters had actually been sent through the mail.
4. Twenty-nine studies involved stories, compositions, themes, and free or creative writing. In 16 of these studies, students were provided a list of topics from which to choose or the topics were limited in other ways (e.g., stories were written after viewing two films, students were asked to write on a personal experience, a list of stimulus words was presented). The other 13 studies allowed the students to select their own topics.
5. Five studies used both letters and compositions as their source of vocabulary. The students involved in these studies wrote either a composition or a letter, generally, they did not write both a composition and a letter.

Geographic Locations from Which the Samples Were Taken

The 61 studies listed in Table 1 were drawn from a wide variety of locations. This included studies which used students from a single school to one study which used students from 416 cities. A

summary of the information on the locations from which the samples were taken follows:

1. One study failed to indicate the location of the sample.
2. Samples for three studies were drawn from England or Canada.
3. The samples for four studies came from single schools.
4. Eleven studies used samples from single cities.
5. Samples from single states were used in 17 studies.
6. Twelve studies involved samples from fewer than five states.
7. The remaining 13 studies involved samples from ten or more states.

Numbers of Words Counted

Various factors affected the final total numbers of words counted for each study. For instance, W. Jones (1913) only gave an estimate of the number of words counted; and Oberman (1933) excluded 300 common words from his study (e.g., the, a, it). Chalmers (1935) counted only 50 consecutive words beginning on lines 6-8 of each theme; and Segalla (1934) and Horgen (1952) included proper nouns within their counts. The following summarizes the information on the total numbers of words counted:

1. The authors of five studies did not indicate what their total word counts were.
2. Eleven studies had a total word count of 50,000 words or less.
3. A total word count of more than 50,000 words but less than 100,000 words was reported in 15 studies.

4. Twenty-five studies had word counts of more than 100,000 but less than 600,000 words.

5. Five researchers reported counting over 1,000,000 words.

The Research of Rinsland

As was noted in Chapter I, the word lists obtained through this study are compared to the work of Rinsland (1945); therefore, a detailed description of his work is included in this section.

The work of Henry D. Rinsland is the most frequently cited research on the vocabulary of children's written expression. Rinsland's work began in the fall of 1936 when the Works Projects Administration of Oklahoma granted the University of Oklahoma funds to sample a minimum of 6,000,000 running words written by children.

Rinsland attempted to obtain a true cross-section of all types of schools and all types of children's writing. Letters were sent to 1,500 schools representing various geographic, economic, and social areas. Schools from rural and urban areas were represented as were public, parochial, and private schools as well as training schools associated with universities. The letters requested genuine material written by children which included notes, stories, poems, compositions, examination papers, articles for school papers, also reports on projects, trips, and observations.

A total of 708 schools from 416 cities returned material to Rinsland. This represented papers from more than 200,000 elementary school children which was approximately one per cent of the children in elementary school in the United States at that time.

Each paper was read by at least two teachers in an effort to eliminate duplication of papers. If several papers from a single class were on the same topic, all but one or two papers were discarded. Also excluded were papers that were not believed to have been written by a child (e.g., a report copied from an encyclopedia or a story copied by several children from the chalkboard).

In tabulating the words, Rinsland counted all forms of a word as separate entries (e.g., jump, jumps, jumped, jumping); corrected spelling errors; and deleted baby talk, illegibles, slang, provincialisms, colloquial expressions, trade names, and proper names of persons and places. All tabulation was done by hand on 8½ by 11-inch paper; when these papers were filled, the words and frequencies were transferred to permanent ledgers. Rinsland (1945) published a list of 14,571 words with a frequency of occurrence at each grade level and the total frequency. He omitted from his list 11,061 words which occurred only once or twice in any grade level. The complete list including the 14,571 words which were published and the 11,061 words which were not in the published list was placed on file at the Bureau of Educational Research, University of Oklahoma. However, an extensive search at the University and in Rinsland's personal library failed to locate this information.

Other Important Studies on Written Vocabulary

This review of the literature on written vocabulary would not be complete if it did not include five studies which were not in Table 1. Although these studies do not relate specifically to the written vocabulary of children, they are frequently used to determine

the vocabulary of children's school curriculum. These studies are the works of E. Horn (1926), Thorndike (1932), Fitzgerald (1951), Kucera and Francis (1964), and Carroll, Davies and Richmond (1971). A brief description of these studies follows.

E. Horn

The research of Ernest Horn (1926) focused on the words adults use in their writing. Horn counted approximately 5,000,000 words; the number is an approximation because he did not count the frequency of occurrence of several common words (e.g., a, not, red, pan). He did publish an estimation for the words he did not count. The material Horn sampled involved mainly the writing of men in business; this weighted the sample with well educated men of above average intelligence over the age of 40 (Coleman, 1931). The Horn study has been criticized for this reason and because of the dated nature of the material.

Thorndike

Thorndike (1932) selected the material for his research from children's reading, standard literature, elementary school texts, newspapers, and correspondence. He counted a total of 4,565,500 words. The material Thorndike used represented only the writing of adults for children or for other adults. Furthermore, instead of selecting the same number of words from each source, he weighted the importance of the selections according to what he felt the elementary pupil and graduate should read.

Fitzgerald

Although Fitzgerald is listed three times in Table 1, his

most frequently cited work (1951) is a compilation of seven studies. In this study, Fitzgerald presented a list of 2,650 words and their rankings in seven different studies. He included the lists from the works of McKee and Fitzgerald, Horn (1926), Rinsland (1945), Breed (1930), Dolch (1942), Fitzgerald (1938), and Brittain (1942). In this work, Fitzgerald illustrated that although the studies had a great many words in common, the rankings within the studies varied greatly.

Kucera and Francis

Adult printed material was analyzed by Kucera and Francis (1964). They found 50,406 different words in a total of 1,014,232 words from 500 samples of adult printed material. Hillerich (1974) points out that the Kucera and Francis list is perhaps not best used for the curricula for children since it is heavily weighted with words not common to the child's vocabulary (i.e., in the 500 words which occur most frequently are words such as board, business, community, department, federal, and military).

Carrol, Davies, and Richmond

The work of Carrol, Davies, and Richmond (1971) is based on samples taken from 1,000 textbooks for students in grades three through nine. They counted a total of 5,088,721 words with a total of 86,741 different words. This study, as well as others in this section, is concerned only with words written by adults even though the words in this study were written to be read by children.

Summary and Conclusions

In the first section of this review, five variables of 61 written vocabulary studies were summarized. These variables were the publication dates of the studies, the ages or grades of the students involved, the types of papers which were gathered, the geographic locations involved, and the numbers of words counted. The following are general criticisms of the 61 studies based on these variables:

1. The vast majority of the studies (49 of 61) were conducted before 1950; of the remaining 12, only three were conducted within the last ten years. With the rapid changes that are taking place in society, research in vocabulary should attempt to keep pace with these changes and should be as current as possible.

2. The twelve grades have been unequally represented in the studies (e.g., grade 1 and grades 9-12 have been included in fewer than eight studies while grades 3-7 have been included in 20 or more studies). New research should include one or more of those grades which have been represented in fewer than nine studies. New research should also include as many grades as feasible with as equal representation as possible.

3. The studies which are probably most representative of the vocabulary students use when they write are the nine studies which included a wide variety of materials. On the other hand, in the past writing letters to friends and relatives was probably the most common reason students had to write outside school; and 14 studies limited the materials they used to letters. Today, however, students are probably more likely to place a telephone call than to write a letter. For this reason, letters should no longer be the single material used to determine

the written vocabulary of students. New research should attempt to elicit the most natural language possible by allowing students to write on topics of their own choice.

4. Only 13 studies involved samples from ten or more states. Of the three studies conducted within the last ten years, one was conducted in Canada, and the other two were conducted in single states. For the research results to be applied to a wide area, the samples should be drawn from as many different locations as possible.

5. Determining how many words are an adequate sample is a difficult decision. Half of the studies counted less than 100,000 words, while only five studies counted more than 1,000,000 words. The number of words counted will certainly depend upon the time and resources available to the researcher as well as which words are counted (i.e., whether or not proper nouns are counted).

In the second section, a discussion of the research of Rinsland (1945) was included. Although Rinsland's work was probably the best designed, his work could be considered outdated. Current research is needed to update this important study.

In the third section, important studies of written language other than children's written language were discussed. These studies, because they represent words students will read while they are in school or after they graduate, are important in curriculum decisions. However, they do not offer information about words used by students in writing and are probably not the best source of information for a spelling vocabulary. Also, three of these studies could be considered outdated.

From this review of the literature, it may be concluded that research is needed in the area of students' written vocabulary. For this research to be applied to a spelling program, the sample needs to (a) be as current as possible, (b) include several grade levels, (c) be as representative as possible of the typical writing vocabulary of students, (d) include samples from different sections of the United States, and (e) include as large a sample as possible. In the following chapter, the procedures for the research to meet these criteria are detailed.

CHAPTER III

STUDY PROCEDURES

As discussed in Chapter I, the problems for this study are: (a) to compare two methods of determining the frequency of words used in students' written vocabulary, (b) to compare the results of this research with that conducted by Henry Rinsland (1945), and (c) to compare the 100 words used most frequently at each grade level with corresponding lists from the Rinsland study. Seven questions were formulated which pertain to these problems. The first two questions relate to the 250 most frequently used words as determined by two different methods of measurement. The third and fourth questions call for a comparison of these two lists to each other and to the 250 most frequently used words according to the Rinsland list. The fifth question calls for a comparison of the words from this research to the Rinsland list to determine what words appear in the current research which Rinsland did not report. The sixth and seventh questions are designed to determine the 100 most frequently used words at each grade level (1-6) and to compare them with corresponding lists from the Rinsland study.

This chapter presents the procedures that were utilized to answer the research questions. The first section, gathering the data, contains a delineation of (a) the methods used to identify the schools which were contacted and (b) the information which was sent to each

school district. The second section, preparing the data for input into the computer, includes a description of the system for proofreading the stories, the keypunching process, and the computer program utilized. The final section, statistical procedures, identifies the statistical analyses that were employed to answer questions three, four, and seven.

Gathering the Data

This section contains information about the school districts which were contacted and the information which was sent to those school districts.

School Districts Contacted

In order to make the results of this study as representative as possible of students' vocabulary, a wide sampling was needed. Ideally, every state would be represented in the final sample and each state's representation would be based on its proportion in the total population in the United States. This would mean that many districts in some states would have to be contacted or that some school districts would have to be contacted several times to obtain the proportional sample for that state.

With the limited time and resources available to the researcher, the decision was made to contact only two school districts in every state and to have only one mailing. The following exceptions were made: (a) the District of Columbia, although not a state, is within the boundaries of the United States and was contacted; and (b) the state of Hawaii received only one request since there is only one school district for the entire state.

The school districts which were contacted were located with the use of two government publications: Directory: Public Schools in Large Districts (1969) and Education Directory: Public School Systems 1977-78 (1978). The names of the states were located within the directories; then the school districts to be contacted were identified with the use of a table of random numbers. A total of 100 school districts were identified using this process with the two exceptions noted above.

Information Sent to Each School District

Two types of information were sent to each school district: (a) the letter sent to each superintendent and (b) the directions for teachers whose classes were involved in the study. An explanation of these follows.

Letters to Superintendents. The superintendents of each school district were sent letters which explained the purpose of the research, directions for selecting classes to participate, and an offer of a copy of the results to participating districts. Each letter was accompanied by a packet of materials to be given to the selected teachers. A copy of the letter to the superintendent may be found in Appendix A.

Directions to the Teachers. In order to involve a minimum of time from the participating teachers, directions to them were kept as brief as possible. The first two paragraphs in the directions were introductory in nature and included the purpose for the stories as well as assurance that the researcher would not grade the stories nor compare them with other classes. An address and telephone number were provided so that teachers having questions could contact the researcher. Finally, steps for the teachers to follow were listed which included:

1. Directions for getting parental permission for students' participation and a sample form that could be duplicated.

2. Information on what the students were to write and suggested topics to be used only in the event that a student could not think of a topic.

3. Directions not to correct the papers to ensure that the vocabulary was that of the students.

4. Information needed for each student and for the class. Student information was indicated on a small form which the teachers stapled to each story; class information was indicated on a form provided for that purpose.

5. Instructions on where the stories were to be sent. A copy of the directions sent to the teachers can be found in Appendix A.

Preparing the Data for Input into the Computer

Since the computer program used for this study could not correct spelling errors nor group all the possible spellings for one word into the same set (e.g., were, wer, wir, wur), it was necessary to enter only correct spellings; therefore, all papers were proofread and corrected for spelling errors. In addition to correcting spelling errors, most proper nouns (e.g., names of people, commercial and non-commercial establishments, cities, streets, names of pets) and numerals were deleted by drawing a line through the words or numerals. Proper nouns and numerals were deleted from the computer cards because of the low incidence for individual words and because in most instances it would be impossible to determine whether or not the spelling given was correct (e.g., Dian, Diane, Dianne). The deleted words and numerals

were tallied on a separate sheet of paper to provide information on how often students use personal proper nouns and numerals in their writing.

Another concern during the proofreading was the use of compound words. Although closed compound words (e.g., doghouse, fireman, sunshine) are written as one word and would not present a problem during computer analyses, open compound words (e.g., tennis shoe, police station, dressing room) which are written as two words, had to be written as one word for entry into the computer. Otherwise, they would have been treated as separate entries because there was no way of knowing they were written as one concept. Specific directions for the corrections of spelling errors and the deletions of words can be found in Appendix B.

In addition to proofreading, each story was assigned a code number which included coded information on the identity of the school district, grade level, student number, gender, race, school setting, and socioeconomic level of the school. The code number filled the first eleven spaces on the computer cards and appeared only on the first card when the student's story needed more than one card as was necessary for most stories. A signal (i.e., QQQQ) was keypunched at the end of a story to indicate to the computer that a story had ended. Immediately following the code number was the first word in the story; a single space was left between each word and all punctuation except that which was within a word (e.g., don't, X-ray, U.S.A.) was omitted.

The computer program used to count the words in this research was an SAS79 (1979) program. Three different lists were provided by

the program: (a) an alphabetic listing of the words and the frequencies with which they were used (Method 1), (b) a rank order listing of the words counted using Method 1, and (c) a rank order list of the words using Method 2, the number of students who used a word. These two methods of counting words were selected because in a pilot study in which the 100 most frequently used words for a class of students was determined, the word gerbil was among the list. However, gerbil had been used several times by only one student. The researcher wanted to determine if a small number of students would influence a rank ordered list by using words repeatedly.

The program was run twice; one run provided the three lists mentioned above for the individual grades, and the second run provided the three lists for the combined grades. An additional program provided information about the number of students involved, grade level, gender, and race. (A copy of the computer programs used can be found in Appendix C.)

Statistical Procedures

The answers to questions one, two, five, and six did not require statistical procedures because the answers to those questions were frequency lists. For the remaining questions (three, four, and seven), descriptive statistics were used. The lists were compared to determine the number and percentage of words which were common to the lists being compared and the number and percentage of words which were not common to those lists.

CHAPTER IV

RESULTS

The results of the study are presented in this chapter. The first section is a description of the school districts and the students who participated in the study; the next seven sections are arranged to correspond with the research questions presented in Chapter I; and the final section is a description of the items which were not entered into the computer (e.g., proper nouns, numerals, ampersands). The text of the chapter is presented first followed by all the tables.

Briefly, the purposes of this study were (a) to compare two methods of determining the frequency of words used in the written vocabulary of students; (b) to compare the results of this research with that conducted by Rinsland (1945); and (c) to compare the 100 words used most frequently at each grade level (1-6) with corresponding lists from the Rinsland study.

Description of the Sample

The 1,598 students who participated in this study represent 14 school districts in 13 states. A list of the school districts, their settings, and their socioeconomic levels can be found in Table 2. The participating students were 49.69% male and 48.44% female while the gender of 1.87% of the students was not indicated. More specific information about grade level, gender, and race can be found in Table 3.

Research Questions One and Two

Research question one was: What are the 250 words used most frequently in written expression by a sample of students in grades 1-6?

The total word count was 164,505 which represented 6,453 different words and their repetitions. The 250 words used most frequently can be found in Table 4 in the column labeled "Method 1".

Research question two was: Which 250 words are used in written expression by the greatest percentage of a sample of students in grades 1-6? The 250 words used by the greatest percentage of students can be found in Table 4 in the column labeled "Method 2".

Because of tied ranks (i.e., several words occurred the same number of times), Table 4 actually includes 256 words in each list. This was the point closest to 250 at which the number of words in both the Method 1 and Method 2 lists would come out evenly without splitting a rank in one or both lists.

Research Question Three

Research question three was: Do the two methods of ranking students' written vocabulary describe the same set of words? The two lists which were compiled using Methods 1 and 2 and presented in Table 4 contain a total of 269 words. This includes 243 words (90.33%) which are common to both lists and 26 words (9.67%) which are in only one of the lists. Thirteen words were in the Method 1 list but not in the Method 2 list (i.e., Mr., horse, Mrs., dollars, monster, teacher, children, fish, million, trip, bike, animals, kids). Thirteen words were in the Method 2 list but not in the Method 1 list (i.e., almost, together, getting, story, than, yes, hope, everything, knew, many, anything, everybody, life).

Research Question Four

Research question four was: What is the relationship between each of the lists compiled in Questions 1 and 2 of this study and the 250 words used most frequently as reported in the Rinsland study? The 256 words which were used most frequently as reported by Rinsland may be found in Table 4 in the column labeled "Rinsland". Because of tied ranks in the two lists developed using Methods 1 and 2, Rinsland's list contains 256 words so that all three lists are equal in length.

The list compiled by Method 1 and the list by Rinsland include a total of 307 different words. There are 205 words (66.78%) in common to the two lists and 102 words (33.22%; 51 per list) which occur in only one of the lists.

The list compiled using Method 2 and the list by Rinsland include a total of 305 different words. There are 207 words (67.87%) in common to the two lists and 98 words (32.13%; 49 in each list) which occur in only one of the lists.

When all three lists are considered (i.e., Method 1, Method 2, and Rinsland), a total of 316 different words are represented. There are 203 words (64.24%) common to all three lists, 67 words (21.20%) which occur in only one of the lists, and 46 words (14.56%) which occur in two of the three lists. Words which are not common to all three lists are indicated in Table 4.

Research Question Five

Research question five was: Which words occur in this study that were not reported by Rinsland? A total of 1,363 words were used by students in this study which were not reported by Rinsland. A list

of those words and the frequency with which they occurred appears in Table 5. This list includes only words entered into the computer following the guidelines in Appendix B.

Research Question Six

Research question six was: What are the 100 words used most frequently in written expression by students at each grade level (1-6)?

The 100 words used most frequently in written expression by students at each grade within grades 1-6 can be found in Tables 6-8 (i.e., grades 1 and 2 are in Table 6; grades 3 and 4 are in Table 7; grades 5 and 6 are in Table 8). Because of tied ranks in the lists from this study, the grade one, three, and six lists contain only 98 or 99 words each.

Research Question Seven

Research question seven was: What is the relationship between each of the lists compiled in question six and the equivalent lists compiled by Rinsland? The equivalent lists compiled by Rinsland are reported in Tables 6-8 with the corresponding lists from question six. A comparison of the lists by grade level follows.

1. The two first grade lists represent a total of 122 different words. The lists have 74 words (60.66%) in common and 48 words (39.34%; 24 in each list) appear on only one of the lists.

2. The two second grade lists represent a total of 129 different words. The lists have 71 words (55.04%) in common and 58 words (44.96%; 29 in each list) appear on only one of the lists.

3. The two third grade lists represent a total of 119 different words. The lists have 79 words (66.39%) in common and 40 words (33.61%; 20 in each list) appear on only one of the lists.

4. The two fourth grade lists represent a total of 126 different words. The lists have 74 words (58.73%) in common and 52 words (41.27%; 26 in each list) appear on only one of the lists.

5. The two fifth grade lists represent a total of 124 different words. The lists have 76 words (61.29%) in common and 48 words (38.71%; 24 in each list) appear on only one of the lists.

6. The two sixth grade lists represent a total of 122 different words. The lists have 76 words (62.30%) in common and 46 words (37.70%; 23 in each list) appear on only one of the lists.

7. When all 12 lists (two lists at each grade 1-6) are considered, a total of 191 words occurred. Of these words, 47 appeared in every list indicating that these are consistently important words across the grades. (The list of 47 words and an additional 10 words which appeared in 11 of the lists can be found in Appendix D.)

Items Not Entered Into the Computer

A total of 5,957 words (including duplications) were deleted from the count following the guidelines found in Appendix B. This included (a) 3,726 words (62.55%) which were names of people and groups; (b) 919 words (15.43%) which were names of places; (c) 1,267 words (21.27%) which were names of things; and (d) 45 words (.75%) which were not found in the dictionary. Table 9 provides more detailed information about the words which were deleted.

Table 2

School Districts Represented in the Sample		
<u>School District, City, and State</u>	<u>Setting¹</u>	<u>Socioeconomic¹ Level</u>
Cedar Falls Community School District Cedar Falls, Iowa	Suburban	Mostly Middle Class
St. Mary's County Public Schools Leonardtown, Maryland	Rural	Mostly Middle Class
Douglas Unified School District Douglas, Arizona	Rural	Middle and Lower Class
Independent School District #273 Edina, Minnesota	Suburban	Middle and Upper Class
Oklahoma City Public Schools Oklahoma City, Oklahoma	Urban	Middle and Lower Class
Port Arthur Independent School District Port Arthur, Texas	Urban	Middle and Lower Class
Giles County Public Schools Lynnville, Tennessee	Rural	Middle and Lower Class
Bloomington Public Schools Bloomington, Texas	Rural	Middle and Lower Class
Parma Public Schools Parma, Ohio	Suburban	Mostly Middle Class
Bourne Public Schools Bourne, Massachusetts	Rural	Middle and Lower Class
Capital School District Dover, Delaware	Suburban	Mostly Middle Class
Unified School District #305 Salina, Kansas	Rural	Middle and Lower Class
North Slope Bourough Barrow, Alaska	Rural	Middle and Lower Class
Duval County Public Schools Jacksonville, Florida	Urban	Middle and Lower Class

¹This information is based on data reported by the classroom teachers involved in the study.

Table 3
Grade Level, Gender, and Race of Participating Students

	FIRST		SECOND ¹			THIRD		FOURTH		FIFTH		SIXTH		
RACE	Male	Female	Male	Female	Not Indicated	Male	Female	Male	Female	Male	Female	Male	Female	TOTALS
White	97	90	89	87	0	43	44	93	92	99	127	83	100	1,044
Black	6	7	9	10	0	3	6	9	11	10	6	26	26	129
Native American	0	2	15	9	0	37	28	2	4	1	2	17	11	128
Hispanic	22	15	16	14	0	32	28	17	14	30	13	15	13	229
Asian	3	0	3	4	0	2	0	1	2	3	0	1	2	21
Eskimo	0	0	8	5	0	0	0	0	0	0	0	0	0	13
Other	0	0	0	0	0	0	0	0	1	1	0	0	1	3
Not Indicated	0	0	0	0	30	0	0	0	0	0	0	1	0	31
TOTALS	128	114	140	129	30	117	106	122	124	144	148	143	153	1,598

Footnote

¹This was the only grade for which information on gender was missing.

Table 4
256 Most Frequently Used Words*

METHOD 1 (TOTAL WORDS 165,821)			METHOD 2 (TOTAL STUDENTS 1,604)			RINSLAND (TOTAL WORDS 6,012,359)		
Rank	Word	Frequency	Rank	Word	Percent	Rank	Word	Frequency
1	the	8,401	1	and	86.72	1	the	284,145
2	and	7,334	2	the	82.86	2	I	205,581
3	I	6,833	3	a	80.24	3	and	203,146
4	a	5,237	4	to	78.99	4	to	180,938
5	to	5,056	5	I	71.82	5	a	171,566
6	was	2,981	6	in	58.67	6	you	102,426
7	my	2,723	7	my	85.24	7	us	93,444
8	he	2,418	8	it	52.37	8	in	88,782
9	it	2,381	9	was	51.87	9	it	83,344
10	in	2,331	10	of	51.31	10	of	81,620
11	we	2,110	11	is	44.89	11	is	79,025
12	of	1,839	12	when	40.46	12	was	70,493
13	is	1,719	13	one	39.96	13	have	57,102
14	they	1,585	14	on	39.78	14	my	55,267
15	on	1,203	15	that	39.40	15	are	49,699
16	that	1,198	16	with	35.72	16	he	47,225
17	when	1,193	17.5	but	35.47	17	for	44,547
18	you	1,159	17.5	he	35.47	18	on	42,058
19	went	1,118	19.5	day	35.22	19	they	41,863
20	said	1,101	19.5	so	35.22	20	that	39,497
21	she	1,099	21	they	35.16	21	had	38,743
22	so	1,098	22	for	34.91	22	she	31,261
23	then	1,096	23	we	34.35	23	very	31,327
24	me	1,088	24	go	33.42	24	will	30,605
25	go	1,034	25	me	32.79	25	when	30,546
26	but	1,026	26	went	32.73	26	school	30,451
27	one	984	27	there	32.61	27	me	30,112
28	with	969	28	have	32.29	28	with	29,968
29	for	960	29	all	32.23	29	am	29,115
30	got	940	30	then	31.48	30	all	29,111
31	have	936	31	had	31.17	31	one	28,710
32	would	920	32	out	30.67	32	so	28,693
33	had	888	33	got	30.42	33	your	27,474
34	like	881	34	like	30.36	34	got	26,528
35	all	879	35	up	29.30	35	there	25,837
36	there	872	36	get	26.75	36	went	25,190
37	day	864	37	you	26.56	37	not	24,369
38	out	810	38	at	26.00	38	at	24,708
39	be	791	39.5	be	25.31	39	like	24,682
40	up	758	39.5	said	25.11	40	out	23,970
41	were	702	41	time	22.63	41	go	23,898
42	her	691	42	because	22.57	42	but	23,636
43	get	689	43	by	22.07	43	this	23,623
44.5	him	670	44.5	end ⁴	21.57	44	dear ¹	22,481
44.5	his	670	44.5	were	21.57	45	some	22,373
46	will	634	46	she	21.20	46	then	21,766
47	at	629	47	are	20.76	47	going	21,677
48	are	623	48	some	20.70	48	up	20,732
49	if	533	49.5	his	20.51	49	time	20,659
50	house	526	49.5	would	20.51	50	get	20,626
51	them	525	51	going	19.83	51	would	20,515
52	going	522	52	if	19.70	52	our	20,418
53	some	520	53	about ⁴	19.33	53	were	20,087
54	because	514	54	came	19.26	54	little	19,240
55	saw	491	55	house	19.14	55	how	18,621
56	time	469	56	him	18.90	56	be	18,600
57	could	462	57.5	home	18.83	57	do	18,284
58	came	457	57.5	them	18.83	58	from	17,775
59	play	452	59	will	18.33	59	her	17,752
60	by	436	60	saw	18.27	60	them	17,727
61	about ⁴	435	61	what	18.08	61	as	17,497
62	do	428	62	this	17.90	62	his	17,286
63.5	home	420	63	could	17.71	63	mother	16,599
63.5	what	420	64	do	17.52	64	see	16,533
65	very	419	65	back	17.27	65	friend	16,206
66	back	413	66	not	16.15	66	come	16,055

*Footnotes at end of table

Table continued on next page

Table 4 continued

METHOD 1 (TOTAL WORDS 165,321)			METHOD 2 (TOTAL STUDENTS 1,604)			RINSLAND (TOTAL WORDS 6,012,359)		
Rank	Word	Frequency	Rank	Word	Percent	Rank	Word	Frequency
67	this	393	67	play	16.02	67	can	15,762
68	school	383	68.5	down	15.96	68	day	15,759
69.5	down	364	68.5	vary	15.96	69	good	15,138
69.5	too	364	70	too	15.90	70	what	14,974
71	and ⁴	362	71	her	15.71	71	said	14,849
72	not	361	72	over	15.65	72	him	14,470
73	over	346	73	once	15.46	73	home	13,906
74	can	344	74	see	14.59	74	now	13,476
75	dog	343	75	just	14.46	75	did	13,542
76	see	331	77	after	14.40	76	has	13,298
77	friend	327	77	can	14.40	77	down	13,297
78.5	little	325	77	school	14.40	78	Christmas ³	12,966
78.5	name	325	79	from	14.21	79	if	12,723
80.5	just	322	80	little	13.15	80	write ³	12,671
80.5	people	322	81	or	12.91	81	after	12,110
82	as	319	82	know	12.66	82	play	11,959
83	from	301	83	name	12.41	83	came	11,698
84.5	after	295	84	two	12.22	84	put	11,665
84.5	or	295	85	fun	12.16	85	two	11,395
86	our	292	86.5	started	12.09	86	house	11,324
87	want	290	86.5	want	12.09	87	us	11,132
88	ran	285	89	did	11.91	88	because	11,065
89	started	280	89	into	11.91	89	over	10,993
90	into	276	89	other	11.91	90	saw	10,992
91	big	274	91	people	11.78	91	their	10,979
93	fun	271	92.5	big	11.60	92	well	10,924
93	once	271	92.5	ran	11.60	93	here	10,562
93	told	271	94.5	friend	11.47	94	by	10,428
95	their	268	94.5	next	11.47	95	just	10,285
96.5	boy	266	96	didn't	11.35	96	made	10,100
96.5	two	266	97	good	11.28	97	back	10,083
98	other	263	98	now	11.16	98	an	10,071
99	good	262	99	night	11.10	99	could	9,937
100	didn't	260	100.5	around	10.91	100	or	9,846
101.5	know	259	100.5	took	10.91	101	dog	9,711
101.5	night	259	102	don't	10.85	102	too	9,634
103	mother	257	103.5	as	10.66	103	other	9,381
104	next	254	103.5	our	10.66	104	many ⁶	9,013
105	did	251	105	come	10.35	105	night	8,924
106	I'm	248	106	how	10.22	106	name	8,918
107	friends ⁴	244	107	mother	10.10	107	old	8,914
108	took	242	108.5	chair	10.04	108	know	8,800
109	us	240	108.5	told	10.04	109	want	8,736
110	best	238	110	off	9.98	110	make	8,707
111	now	235	111	friends ⁴	9.85	111	been	8,202
112	don't	232	112.5	boy	9.79	112	first	8,196
113	around	230	112.5	lot	9.79	113	into	8,158
114.5	man	227	114	best	9.73	114	people	8,141
114.5	mom ⁴	227	115.5	more	9.54	115	man	8,133
116	more	215	115.5	old	9.54	116	soon ³	8,012
118	am	213	117	first	9.48	117	take	7,968
118	come	213	118.5	I'm	9.41	118	much	7,965
118	old	213	118.5	put	9.41	119	letter ³	7,894
120	how	212	120	dog	9.04	120	sure ³	7,882
121	lot	210	121	something	8.92	121	boy	7,857
122	off	209	122.5	no	8.85	122	big	7,765
123	first	202	122.5	well	8.85	123	ching	7,623
124	well	201	124.5	am	8.80	124	hope ⁶	7,458
125	put	199	124.5	mom ⁴	8.80	125	grade ³	7,375
126	three	193	126	an	8.60	126	water	7,372
127.5	something	189	127	things	8.54	127	cell	7,305
127.5	your	189	128	take	8.48	128	don't	7,130
129	no	187	129	where	8.42	129	last	7,003
130.5	asked	186	131	every	8.29	130	children ⁵	6,943
130.5	car	186	131	named ⁴	8.29	131	where	6,777
132	has	183	131	your	8.29	132	every	6,667
133	dad ⁴	181	133	nice	8.23	133	which ³	6,655
134	summer	175	134.5	three	8.04	134	took	6,640
135.5	again	173	134.5	who	8.04	135	more	6,559

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Table 4 continued

METHOD 1 (TOTAL WORDS 165,821)			METHOD 2 (TOTAL STUDENTS 1,604)			RINSLAND (TOTAL WORDS 6,012,359)		
Rank	Word	Frequency	Rank	Word	Percent	Rank	Word	Frequency
135.5	named ⁴	173	136	has	7.98	136	around	6,508
138.5	cat	170	138.5	again	7.92	137	father	6,348
138.5	found	170	138.5	eat	7.92	138	tree	6,304
138.5	it's ⁴	170	138.5	it's ⁴	7.92	139	long	6,294
138.5	nice	170	138.5	looked	7.92	140	who	6,260
142	an	168	141	years	7.79	141	morning	6,258
142	things	168	142.5	car	7.73	142	started	6,233
142	where	168	142.5	us	7.73	143	three	6,228
145	take	167	144	asked	7.61	144	girl	6,132
145	who	167	145	away	7.54	145	things	6,105
145	wish	167	146.5	found	7.42	146	cat	6,093
147	father	166	146.5	only	7.42	147	new	6,037
148	looked	165	148.5	dad ⁴	7.29	148	any	5,885
149.5	bug ⁴	164	148.5	man	7.29	149	next	5,858
149.5	Mr. ¹	164	150.5	called	7.23	150	fine ³	5,845
151	heard	163	150.5	summer	7.23	151	off	5,842
152	years	162	152	walking ⁴	7.17	152	told	5,735
153	eat	160	153.5	heard	7.11	153	way	5,490
154	every	158	153.5	that's ⁴	7.11	154	away	5,457
155	family ⁴	154	155	right	7.04	155	found	5,414
156	away	153	157	never	6.98	156	room	5,264
157	think	152	157	think	6.98	157	before	5,248
158	only	149	157	way	6.98	158	show ³	5,228
159	help	148	159	wanted	6.86	159	didn't	5,216
160	wanted	147	160.5	family ⁴	6.80	160	eat	5,185
161.5	girl	145	160.5	thing	6.80	161	boys ³	5,126
161.5	horse ¹	145	162	long	6.73	162	no	5,083
163.5	love	142	163	make	6.67	163	close ³	5,070
163.5	make	142	164.5	always	6.61	164	men ³	5,061
165.5	never	141	164.5	ever ⁴	6.61	165	pretty	5,045
165.5	right	141	166.5	made	6.16	166	nice	4,899
167	door	139	166.5	swimming ⁴	6.16	167	thought	4,891
168	brother	138	168	here	6.10	168	fun	4,889
169	also	136	169	much	6.23	169	called	4,885
170	here	134	171	door	6.17	170	year	4,878
171.5	always	133	171	look	6.17	171	ball ³	4,869
171.5	walking ⁴	133	171	still ⁴	6.17	172	white ³	4,868
174	hit ⁴	132	174.5	help	6.11	173	again	4,847
174	look	132	174.5	left	6.11	174	bed	4,816
174	water	132	174.5	really ⁴	6.11	175	years	4,760
177	long	131	174.5	thought	6.11	176	through	4,725
177	ride ⁴	131	177.5	lived	6.05	177	while	4,701
177	thought	131	177.5	upon ⁴	6.05	178	gave	4,688
180	thing	130	179	morning	5.99	179	work ³	4,679
180	tree	130	181.5	also	5.92	180	doll ³	4,524
180	way	130	181.5	bed	5.92	181	getting ⁶	4,513
182	called	129	181.5	sometime ⁴	5.92	182	baby ³	4,456
183.5	room	126	181.5	why ⁴	5.92	183	once	4,447
183.5	year	126	184	father	5.86	184	also	4,378
185	bed	125	185.5	before	5.80	185	run	4,373
187	made	124	185.5	water	5.80	186	coming	4,332
187	say	124	188	girl	5.74	187	should ³	4,289
187	that's ⁴	124	188	place	5.74	188	teacher ⁵	4,288
189	I'll ⁴	123	188	pretty	5.74	189	place	4,256
190	much	122	190	brother	5.67	190	car	4,190
191	why ⁴	121	191	finally ⁴	5.61	191	give	4,181
193	live	120	192.5	love	5.55	192	ran	4,180
193	lived	120	192.5	work	5.55	193	let	4,173
193	really ⁴	120	194.5	playing ⁴	5.42	194	only ³	4,124
195.5	ever ⁴	119	194.5	ride ⁴	5.42	195	today ³	4,046
195.5	work	119	196.5	hit ⁴	5.36	196	summer	4,023
197	money ⁴	117	196.5	run	5.36	197	right	4,005
199	Mrs. ¹	116	199	any	5.30	198	red ³	3,868
199	new	116	199	cell	5.30	199	another	3,862
199	still ⁴	116	199	year	5.30	200	most	3,830
201	place	115	202	fall ⁴	5.23	201	look	3,810
202	swimming ⁴	114	202	new	5.23	202	milk ³	3,799
203	left	113	202	say	5.23	203	book ³	3,784
204.5	pretty	111	204.5	food ⁴	5.17	204	wanted	3,748

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Table 4 continued

METHOD 1 (TOTAL WORDS 165,821)			METHOD 2 (TOTAL STUDENTS 1,604)			RINSLAND (TOTAL WORDS 6,012,359)		
Rank	Word	Frequency	Rank	Word	Percent	Rank	Word	Frequency
204.5	siscar	111	204.5	wish	5.17	205	black	3,730
206.5	morning	109	206.5	even ⁴	5.11	206	bring ³	3,693
206.5	sometime ⁴	109	206.5	stay ⁴	5.11	207	girls ³	3,668
208	run	106	208	live	5.05	208	along ³	3,664
209.5	dollars ¹	105	209	buy ⁴	4.99	209	glad ³	3,661
209.5	fall ⁴	105	212	another	4.92	210	love	3,652
211	played	103	212	coming	4.92	211	live	3,598
213	baseball ⁴	102	212	happy	4.92	212	read ³	3,594
213	food ⁴	102	212	later ⁴	4.92	213	something	3,560
213	tall	102	212	lec	4.92	214	until	3,547
215.5	before	101	218	been	4.86	215	played	3,595
215.5	finally ⁴	101	218	fast ⁴	4.86	216	best	3,571
217.5	later ⁴	100	218	gave	4.86	217	heard ³	3,570
217.5	playing ⁴	100	218	give	4.86	218	four ³	3,552
219.5	monster ¹	99	218	i'll ⁴	4.86	219.5	brother	3,535
219.5	upon ⁴	99	218	most	4.86	219.5	say	3,535
223	couldn't ⁴	98	218	while	4.86	221	cold ³	3,520
223	give	98	222.5	sleep ⁴	4.30	222	never	3,511
223	hard	98	222.5	through	4.30	223	I'm	3,465
223	lec	98	224	find	4.74	224	sister	3,457
223	teacher ⁵	98	224	last	4.74	225	than ³	3,433
227	been	97	224	outside ⁴	4.74	226	door	3,426
227	children ⁵	97	227	almost ²	4.68	227	great ³	3,384
227	even ⁴	97	229.5	couldn't ⁴	4.61	228	must ³	3,353
229	outside ⁴	96	229.5	room	4.61	229	looked	3,329
231	any	95	229.5	together ²	4.61	230	thing	3,310
231	last	95	229.5	walked ⁴	4.61	231	find	3,308
231	stay ⁴	95	232	everyone ⁴	4.55	232	always	3,295
233	happy	94	233	can't ⁴	4.49	233	please ³	3,290
236.5	another	93	235.5	ate ⁴	4.43	234	happy	3,254
236.5	can't ⁴	93	235.5	money ⁴	4.43	235	daddy ³	3,253
236.5	everyone ⁴	93	235.5	played	4.43	236	country ³	3,250
236.5	find	93	235.5	until	4.43	237	few ³	3,245
236.5	fish ¹	93	238.5	black	4.30	238	wish	3,241
236.5	walked ⁴	93	238.5	getting ⁶	4.30	239	lot	3,225
241	million ¹	92	240.5	hard	4.24	240	asked	3,197
241	oh ⁴	92	240.5	story ²	4.24	241	days ³	3,149
241	crip ¹	92	243.5	cat	4.18	242	large ³	3,137
243	while	91	243.5	oh ⁴	4.18	243	better ³	3,123
245	coming	90	243.5	than ⁶	4.18	244	these ³	3,121
245	gave	90	243.5	yes ²	4.18	245	each ³	3,102
245	until	90	246	hope ⁶	4.11	246	five ³	3,085
248.5	bike ¹	89	247.5	sister	4.05	247	weak ³	3,078
248.5	black	89	247.5	world ⁴	4.05	248	lots ³	3,026
248.5	most	89	250	everything ²	4.00	249	help	3,005
248.5	world ⁴	89	250	knew ²	4.00	250	left	2,999
252.5	animals ¹	88	250	many ⁶	4.00	251	lived	2,961
252.5	fast ⁴	88	254	anything ²	3.93	252	hard	2,950
252.5	kids ¹	88	254	baseball ⁴	3.93	253	fire ³	2,921
252.5	through	88	254	everybody ²	3.93	254	keep ³	2,920
255.5	ate ⁴	37	254	life ²	3.93	255	trees ³	2,906
255.5	sleep ⁴	37	254	tree	3.93	256	comes ³	2,894

Footnotes

¹Word occurs in Method 1 list only²Word occurs in Method 2 list only³Word occurs in Rinsland list only⁴Word occurs in Method 1 and Method 2 lists but not in Rinsland list⁵Word occurs in Method 1 and Rinsland lists but not in Method 2 list⁶Word occurs in Method 2 and Rinsland lists but not in Method 1 list

Table 5

Words Not Reported By Rinsland

<u>Word</u>	<u>Frequency</u>	<u>Word</u>	<u>Frequency</u>	<u>Word</u>	<u>Frequency</u>
A-frame	1	bald eagle	1	boeing	1
abracadabra	1	ball game	2	booked	1
ace	1	ballistic missile	1	bossed	1
adjustments	1	ball park	1	bottle-nosed dolphin	1
Afghan hound	1	ballplayer	2	bounty	1
Afghaniscan	1	baloney	1	bow head	1
Africa	8	ban	6	bow tie	1
airborn	2	bankrobbers	1	boyfriend	5
air conditioner	1	baptism	4	boyish	1
air conditioners	1	barefeet	1	bracket	1
air conditioning	1	bares	1	brang	3
aircraft carrier	1	barf	1	bratty	1
aircrafts	2	baracuda	1	break in	1
air force	2	barbettes	1	braw	3
air pocket	1	bariks	1	brindle	1
air pressure	3	baton	2	British	1
Alabama	4	batted	3	broiled	1
Alaska	2	batter's	1	broncos	1
Alaskan	1	batters	3	brook trout	1
albums	1	battling average	1	brown sugar	1
aliens	4	battleships	1	brown trout	1
alley cats	1	battling	2	bubble gum	3
altered	1	BB gun	4	bubbly	2
America	3	beady	2	buckled	1
America's	1	beagles	1	bugging	1
ammo	1	beaks	1	bugles	1
amusement park	1	beanstalk	6	built-in	3
anchovies	3	beat up	2	bulldozer	1
antigravity	2	beauty contest	1	bulldozers	1
antonym	2	beauty contests	1	bullfight	1
antonyms	1	beauty shop	1	bullies	1
aqua	2	bee's	1	burgers	1
aquariums	1	beep	6	bus driver	4
Arctic Circle	2	beige	1	bus stop	4
Arizona	5	belly dancer	1	butcher knife	11
Arkansas	4	bengal tiger	1	butlers	2
arrogant	1	betrays	1	buzzed	1
assists	1	betting	1	buzzer	1
assuming	1	bewitched	1	California	26
asthmatic	1	bicycling	1	calms	1
astounded	1	biddies	3	Cambodia	1
astronaut	4	bide	1	cameras	2
astronauts	4	big shot	1	camp-out	2
Atlantic	1	biking	3	camper	2
Atlantic Ocean	2	billions	1	campgrounds	1
atom bomb	1	bing	2	Canada	7
atomic	1	bionic	2	Canadians	1
Australian	1	black hole	3	canter	1
Austria	1	blast off	10	cape buffalo	1
autographs	1	blaschers	1	captive	1
avalanche	2	blindfold	1	caracals	1
aw	1	blondish	1	carbohydrate	1
awesome	2	blow up	2	carpeted	1
baby-sit	3	bluegill	2	car pool	2
baby-sitter	4	bluegills	1	cartoons	2
baby-sitter's	1	blue jeans	1	cartwheels	1
baby-sitting	6	blue whale	4	car wash	1
backflip	1	blurry	3	casually	2
backtrack	1	boars	1	cautious	1
backyards	1	bogus	1	cavities	3
baddest	1	bologna	1	C3	3
baffled	1	bomber	1	cellophane	1
bagged	1	bombers	1	centavos	1
ball	1	bonnethead shark	1	center field	2
balancing	1	boogeyman	7	center fielder	1
bald-headed	1	boogie	1	chain-smoking	1

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Table 5 continued

<u>Word</u>	<u>Frequency</u>	<u>Word</u>	<u>Frequency</u>	<u>Word</u>	<u>Frequency</u>
chalkboard	2	crazy house	1	drowned	1
chalked	1	creaked	1	drowned	4
challenges	1	creased	1	drumming	1
championships	1	crossly	1	dryness	1
champs	3	crunch	1	duffel bag	1
characterized	1	cuddle	1	dumping	1
chauvinists	1	cultures	2	dumps	1
cheats	1	cupcakes	3	dune buggies	3
cheetah	3	customized	1	dune buggy	4
cheetah's	1	cuter	1	dust mop	1
cheetahs	1	daddy longlegs	2	earphones	2
chickened	1	dang	1	earthling	2
chief's	1	davenport	1	earthlings	3
chihuahua	1	day-care center	1	earthlings'	2
chillier	1	daylight	2	easel	1
chimp	1	dears	1	ego	1
chin-ups	1	decider	1	egos	1
China	5	decisions	1	Egypt	2
Chinese	3	dears	1	election day	1
chirp	1	defected	1	electric eyes	1
chopper	2	defended	1	electronic	1
chorused	1	deformed	2	electron microscope	1
city hall	2	Delaware	1	elementary school	1
classical	1	delectable	2	eloped	1
clogs	3	delusion	2	engine room	1
clothes hanger	1	demolished	2	England	7
clucked	1	Denmark	1	Englishman	4
coastal plain	1	dents	1	English Setter	1
coasters	1	destroyers	1	entertainer	1
coast guard	2	destructured	1	entrance	2
coat of arms	2	detested	1	equality	1
cock-a-doodle-do	1	devil's	2	errors	2
cockpit	1	diabolical	1	Eskimo	1
cockroach	1	diagnosis	1	etch	1
cockroaches	3	dial tone	1	Europe	11
collapsed	2	diesel	1	evacuate	1
collarbone	2	digital	1	evacuated	2
collided	2	ding-a-ling	2	ex-con	1
Colo.	1	dingier	2	ex-friends	1
Colorado	5	dinnertime	1	exhaust	1
comic books	1	dinosaurs'	1	exotic	1
communicated	1	diptheria	1	exploratory	1
compete	3	disconnected	1	explosions	1
competes	1	disgusting	1	extinct	3
competing	2	distribute	7	extremes	1
compute	1	diver	2	eyeballs	6
computer	2	diving board	4	eyesight	2
computers	4	divorced	2	face-off	1
concentrate	2	dizzier	2	face-co-face	1
conditioner	1	Doberman Pinscher	1	falling star	1
condominium	1	doc	1	family room	2
Connecticut	1	dodge ball	1	family tree	1
conscience	1	doghouse	5	fanciful	1
conserve	1	dogs'	2	fantasy	1
control tower	1	dollhouse	1	fashions	1
conveyor belt	1	dollies	1	fiancee	1
convoy	1	dollshop	1	fiances	1
cook's	1	dolphin	1	field mice	1
cookhouse	3	dolphins	2	field trip	6
cope	1	domain	1	field trips	1
correcting	1	donate	1	filly	1
cotton candy	3	donating	1	filmed	1
cougars	1	double-barreled	1	finish line	10
coughs	2	double play	2	fin whale	2
countdown	3	doubles	1	fire alarm	1
country store	1	drafted	1	fire chief	2
cousins'	1	dragon's	1	fire company	1
crap	1	drag races	2	fire department	3
crappie	3	drawing board	1	fire extinguisher	2
crabbies	1	dressing room	1	firehouse	1

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Table 5 continued

Word	Frequency	Word	Frequency	Word	Frequency
fire truck	7	go-cart	12	homers	2
first base	4	go-carts	4	home runs	3
first-class	2	goalie	2	homestretch	1
first class	1	golf ball	3	homework	15
fishbowl	1	golf balls	1	homonyms	2
fishing poles	2	golf club	1	homonyms	1
fish tail	1	golf course	1	hooking	1
fixer	5	goofy	1	hooray	1
flavored	1	goon	1	hooves	2
flavors	1	granddad	1	hopefully	3
fling	1	grand slam	1	hopelessly	1
flip-flops	1	grape juice	1	hostage	3
flipped	4	gray whale	2	hostages	6
floopy	2	greatful	1	hot-wire	1
Florida	29	greedier	1	hot dog	7
flocation	1	griddle	1	hothead	1
flunk	1	grins	1	hot shot	3
flying saucer	5	grizzly bear	2	hound dog	1
food stamps	1	ground ball	1	housewife	1
footline	1	grown-up	1	hover	2
forest ranger	1	grown ups	3	hovering	1
forgives	1	gruesome	1	huffing	1
forms	1	guaranteed	1	hula	2
foster home	1	guinea pigs	4	humpback whale	2
foul ball	1	guitarist	2	hunk	1
foul balls	1	gummy	1	hurray	1
four-wheel	1	gunfight	1	ice age	1
France	2	gunnysack	1	ice cream	22
frankfurter	4	gushing	1	iceskate	1
franks	1	guts	4	ice skater	1
freaky	1	guy's	1	ice tea	1
french fries	3	guzzlers	1	ignition	2
freshwater	1	gymnastic	1	ignore	1
fridge	2	gymnastics	14	Illinois	1
fries	1	gymnasts	1	impala	1
frigage	2	gyms	1	inconveniences	1
frog's	1	haircut	4	India	1
front room	1	hairdo	1	Indian Ocean	1
frontwards	3	halfback	1	Indians'	1
front yard	1	half hour	1	infield	5
frostbitten	1	hallelujah	2	inflated	1
frosted	1	hamster	5	inflation	1
full-grown	1	hamster's	1	informer	1
full-time	1	hamsters	6	inhalation	2
fun fair	10	hamsters'	1	inner tube	1
fun house	3	handball	2	insult	1
galaxy	2	handsprings	2	intercept	1
gamble	1	haunting	2	intercepted	1
garage sale	1	Hawaii	25	intercom	1
gardener	9	Hawaiian	2	interferes	1
gardener's	1	headless	3	interruption	1
gasoline's	1	headlines	2	introductions	1
gas station	6	headlock	1	invaders	3
gazelle	1	head start	3	invasion	2
genealogy	1	heart attack	1	invest	1
genie	17	heaving	1	investigator	1
genies	2	hee-hee	2	invisible ink	1
Georgia	2	helicopter	37	Iowa	2
gerbils	1	helicopter's	1	IQ	1
German	3	heroic	1	Iran	4
German Shepherd	4	hic	2	Iranian	2
German Shepherds	1	hideout	9	Iranians	1
Germany	3	hippo	2	Ireland	9
gifted	1	hippopotamuses	1	Irish	6
girl friend	15	hiring	1	Irish Settlers	1
girl friend's	4	hitter	4	islanders	1
girl friends	1	hitters	1	Italian	1
glacial	1	hockey stick	5	Japanese	1
glitters	1	hogged	2	Japs	1
glob	1	holy water	1	jaywalking	1
gnats	1	home place	4	jeans	1

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Table 5 continued

Word	Frequency	Word	Frequency	Word	Frequency
jeep	1	lure	1	Ms.	7
jellyfish	2	magician's	1	multicolored	1
jet liner	1	magnum	1	multiple	1
jets	3	Maine	2	munch	1
jockey	3	major league	1	munching	1
jogging	1	makeup	2	mushroom	1
John	1	mall	2	muskrat's	2
Johnny-come-lately	1	markers	1	mustangs	3
jumbo	1	Mars	29	mutt	2
jump rope	1	Martian	18	naps	1
jumpy	1	Martians	13	narwhale	1
junior high	4	Maryland	1	national parks	1
junkyard	1	Mass.	1	neck-rain	1
Jupiter	5	Massachusetts	1	nervously	1
kanaroo's	2	matchbox	1	Netherlands	1
kanaroo rats	2	matching	1	New England	3
kanaroots	3	mattered	2	New Hampshire	2
Kansas	5	mayday	2	New Jersey	1
karate	2	maze	1	New Mexico	1
Kentucky	3	meaningless	1	newspaperman	1
kickball	15	meatball	4	New York	4
kid's	3	meatballs	1	nibbling	1
Kiddo	1	memorized	1	nightmare	1
killers	1	meowed	5	night school	1
Kinfolk	1	meows	1	no-hit	1
king-size	1	merchandise	2	nocturnal	1
Kisser	2	merge	1	nominee	1
Klutz	2	mermaid	3	noodle	3
Koala bears	2	merriness	1	no one	46
Korean	1	nesses	1	nope	5
kung fu	2	meteorite	3	north's	1
lab	6	meter	1	North America	1
Labrador retriever	1	Mexican	3	North Carolina	2
ladybug	4	Mexico	14	North Dakota	1
lake trout	1	Michigan	1	Norway	9
lampshades	1	midwestern	1	Norway's	1
landings	1	mileage	1	Norwegians	1
Laplanders	1	militant	1	notices	2
laser	1	militants	1	nuclear	3
lasers	1	military police	1	nuclear energy	1
laundromat	1	milkman's	1	nuclear reactor	1
lawn mower	3	Milkyway	1	nude	2
lawn mowers	1	minding	1	nursery school	1
leagues	3	mini-flashlight	1	nursing homes	1
left field	1	mini-society	15	nylons	1
left fielder	1	mini-town	1	obviously	1
leprechaun	3	miniature golf	1	ocean liner	1
lesser	1	minibike	5	odds and ends	1
licenses	1	minibikes	5	off-season	1
life-size	1	Minnesota	4	Ohio	5
life-styles	1	misinterpreted	1	Oklahoma	9
lifeguard	3	missile	3	outer space	13
life jackets	1	missiles	4	outfield	8
lifelike	1	Mississippi	1	outcry	1
lifestyle	2	mistreat	1	overhand	1
lift-off	1	modeling	1	overpopulated	1
lily pad	3	mole's	1	overpopulation	1
limousine	1	mom	227	overpowered	1
line drive	1	mom's	7	overtime	5
livers	1	mummy	6	overwork	1
lobbed	1	mons	2	ow	1
locker room	1	monkey's	1	ozone	2
loudspeaker	1	monster's	2	Pa	1
loudspeakers	1	mooring	1	Pacific	2
Louisiana	6	moron	2	Pacific Ocean	3
lounge	1	motel	4	pajama	2
lounge's	1	motels	1	pajama party	2
love seat	2	motley	1	panda	1
Lt.	1	motorbike	1	panicked	2
lumpy	2	mouse's	1	panicking	1
lurched	1	mph	2	paper dolls	2

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Table 5 continued

Word	Frequency	Word	Frequency	Word	Frequency
parables	1	probational	1	rookie	5
parachuted	1	processing	1	root beer	2
parachuting	1	prodding	1	rosebush	1
paragraphs	1	professionals	1	roughen	1
parakeet	2	prohibiting	1	roughest	1
parallel bars	1	projectors	1	routine	1
parent's	1	prophecy	1	royalty	1
parents'	3	pros	1	rubber bands	1
parking lot	2	psychiatrist	2	rubbing alcohol	1
part-time	1	PT boat	1	running wheel	1
peacocks	1	pterodactyl	2	sacrificed	1
pees	1	public library	1	saddle horses	1
pelican	8	puffy	1	safari	1
penalty	1	pull-ups	1	salesmen	1
penguin	1	pup's	1	salesperson	1
Pennsylvania	5	puppy love	1	salt water	1
performers	1	push-ups	1	samoyedic	1
periodically	1	quadrillion	1	sandbox	1
perished	1	quarter horse	2	sanding	1
perm	1	quarter horses	1	sarcastically	1
pesos	1	quickened	1	savings account	1
pg.	8	rabbit's	3	scabbed	1
phony	2	rabbit ears	1	Scandinavia	2
pickup	5	rackets	1	scaredy-cat	1
picnicking	2	radar	1	scariest	2
pinball	2	radiation	1	schoolwork	2
pinball machine	1	rainbow trout	1	Scotland	1
pinball machines	1	rain check	1	scram	1
pinkie	1	rainstorm	1	scrapers	1
pinning	2	ramp	2	scuba	1
pizza	4	ramps	2	sculptures	1
pizzas	1	ray	2	scurried	1
pj's	1	ray gun	2	seance	2
planets'	1	ray guns	1	seashell	1
plastic	4	re-bandage	1	seashells	1
platforms	1	re-bandaged	1	seasoning	1
playday	1	reactor	3	seat belts	2
plumbing	1	reappeared	1	second base	3
Pluto	8	recovery room	1	seesawing	1
Pluto's	1	red alert	1	sei whale	1
plutonium	1	redheaded woodpecker	1	semi	1
poachers	1	redwoods	1	semifinal	1
police dogs	2	reeling	1	sensed	1
police force	1	ref	1	sensitive	1
police officer	2	refill	1	servals	1
police station	2	refilled	1	servants'	1
polio	1	registered nurse	2	serviceable	1
polluted	3	relayed	1	sessions	1
pollutes	1	renting	1	she'd	1
polluting	1	report cards	2	she'll	4
pollution	3	restored	1	she's	16
poltergeist	1	rest room	1	sheepishly	1
pontoon	1	rest rooms	2	shoelaces	1
ponytails	1	retains	1	shoestrings	1
poof	1	revolving	1	shoot-out	1
popper	2	Rhode Island	1	shortcut	1
possibility	1	right field	2	shorty	2
possum	1	right whale	2	shocpur	1
postmark	1	ripples	1	show off	3
potato chip	1	riverboat	1	show offs	1
potato chips	5	RN	1	shrank	1
pounced	1	roadrunner	1	shrug	1
pow	5	robber's	1	shuffled	1
power plants	1	robot	4	shutdown	1
prankster	1	robots	3	shuttle	1
prediction	1	roller-skated	1	Sicily	2
pregnant	1	roller-skates	3	sickenin	1
prima ballerina	1	roller-skating	3	singles	1
princess'	2	roller coaster	5	sirens	1
private detective	1	roller coasters	2	sisters'	2
private eye	1	rolling pin	1	sit-ups	1

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Table 5 continued

Word	Frequency	Word	Frequency	Word	Frequency
sizzling	1	spookier	1	terrain	1
skateboard	2	spookiest	1	terrifying	3
skateboarding	1	sprayer	1	Texas	27
skateboards	3	springer spaniel	1	that'll	1
skidding	1	sprinkler	1	thereafter	1
slamming	1	squashed	2	third base	3
slapping	1	squid	1	thirty-first	1
sleak	1	squirt guns	1	thirty-three	1
sleeping bag	5	squirting	1	cicking	1
sleeping bags	2	squirts	1	tidal wave	1
sloc	1	squished	1	tie breaker	1
slot machine	1	St. Bernard	3	tighter	2
shot machines	3	stabbing	1	tightrope	3
slumber parties	1	stallions	1	cilted	1
smacked	1	stand by	1	cilts	1
smarter	2	starship	1	time out	1
smartly	1	station wagon	1	cingle	1
snack	1	stealer	2	cingling	1
snack bar	1	steed	2	cipping	1
snag	1	steering wheel	3	citled	1
snapping turtle	2	stereo	5	toe shoes	1
sneakers	1	stethoscope	1	tombscones	1
sneaky	1	stewed	1	toothed	1
sneered	1	stock car	1	tornado	1
sneezed	2	storm's	1	torally	2
snoring	1	streaking	2	toucan	1
snorkeling	1	stroller	1	toughest	3
snotty	1	stubs	1	courism	1
snuck	5	stud	1	townspeople	3
soap operas	1	stunk	1	cow truck	2
social studies	2	sub.	1	cracker	1
sodawater	1	subscribe	1	trailer court	1
sodium	1	sucked	1	trailers	1
sodium chloride	1	suction cups	1	trampling	2
sodium phosphate	1	summer school	1	trampoline	2
softball	12	sunbath	1	trampolines	1
solar panels	2	sundae	2	trance	1
solar system	3	sunshade	2	transformed	2
solves	1	suntan	4	trapdoors	1
son's	2	superduper	3	trapeze artist	1
sophisticated	1	supermarket	3	trapeze artists	1
sorcerer	1	supersonic	1	trash can	1
soundproof	1	supertime	1	tread	1
South Dakota	2	surfing	1	treasured	1
spacecrafts	1	survivors	4	treats	1
spaceman	2	swarming	1	tree house	1
spacemen	4	Sweden	1	trick-or-treat	1
spaceship	39	swimming pool	16	trick-or-treating	4
spaceships	11	swimming pools	1	trickles	1
space suit	1	swimsuits	1	trillions	1
space suits	1	swished	1	triple	1
Spain	1	Switzerland	4	triples	1
spares	1	swoosh	1	triplets	2
spattered	1	sworn	1	trolls	1
spayed	1	synonyms	1	trophy	6
speckled trout	1	taco	3	trucking	1
spectator	1	tacos	2	cuffers	1
speedboat	4	tailgate	1	cugging	1
speeded	1	tapped	1	tummy	1
sperm whale	1	tasty	3	tuna	1
spic-and-span	3	teammates	2	turbulence	1
spider's web	3	teenager	1	turtlets	1
spider's webs	3	teenagers	3	tutti-frutti	3
spiked	1	televisions	1	TV	56
spikes	1	television sets	1	tweak	1
spicball	1	temptations	1	twenty-gauge	1
splat	1	Tenn.	1	twin-engine	1
sponges	1	Tennessee	3	twin bed	1
sponsored	1	tennis shoe	3	twirl	1
spook	1	tennis shoes	5	twitching	1

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Table 5 continued

<u>Word</u>	<u>Frequency</u>	<u>Word</u>	<u>Frequency</u>	<u>Word</u>	<u>Frequency</u>
UFO	12	visualize	1	West Germany	2
uglyness	1	voodoo	2	whacked	1
uh	2	vow	1	wham	2
um	4	vs.	1	wheelchair	2
ump	2	vagging	1	wheelers	1
unbelievable	2	waiter's	1	whizzed	1
underhand	2	waken	1	whoosh	1
understandable	1	walkie-talkie	1	whopping	1
underwater	2	walking horses	1	wildlife	3
unexpectedly	2	walkover	1	winner's circle	1
unicorn	1	walkway	1	wintertime	1
unicycle	1	walleyes	1	Wisconsin	2
United States	14	walloped	3	witch's	5
universes	1	wallow	1	womanfolk	1
unlikely	1	van	1	woodsman	2
unmarked	1	warped	1	work sneats	1
unpacking	1	washhouse	1	X-rays	1
updraft	1	Washington	2	yank	1
Uranus	3	Washington, D.C.	10	yawned	1
USSR	1	watchers	1	yeah	15
Utah	1	water-ski	1	yelp	1
vacated	1	water-skiing	2	yep	1
vampire	3	water bed	2	yippee	2
vampires	1	water bottle	2	Yorkshire Terrier	1
vanishing cream	2	water bugs	2	you've	3
vans	2	waterskis	1	Yugoslavia	1
varmint	2	weakest	1	yum-yum	1
Venus	9	wearings	1	yummy	1
Vermont	2	wear out	1	zap	2
versus	3	week's	1	zip	1
vet	1	weekends	4	zombie	1
veterinarian	4	weightless	1	zoom	2
video	1	weirdest	1	zoomed	1
videotape	3	welcoming	1	zooming	1
vintage	1	werewolf	1	zoos	2
Virginia	1				

Table 6
100 Most Frequently Used Words in
First and Second Grades

First Grade			Second Grade		
Rank	Word	Frequency	Rank	Word	Frequency
1	I	403	1	I	18,740
2	and	398	2	a	14,830
3	the	361	3	the	10,126
4	a	294	4	to	9,469
5	is	200	5	and	8,360
6	so	198	6	it	7,611
7	my	177	7	is	7,401
8	was	104	8	you	5,929
9	it	93	9	my	4,305
10.5	like	37	10	have	4,362
10.5	we	37	11	in	3,940
12	will	80	12	we	3,897
13	he	75	13	me	3,744
14	play	71	14	am	3,583
15	in	70	15	like	3,049
16	when	65	16	that	3,136
17	me	61	17	he	2,361
18	go	59	18	see	2,954
19	with	58	19	can	2,361
20	she	57	20	this ²	2,618
21	of	56	21	on	2,593
22	they	51	22	one	2,498
23	want	48	23	little	2,315
24	you	47	24	are	2,259
25.5	are	45	25	all	2,227
25.5	out	45	26	going	2,177
27	on	42	27	of	2,135
28	fun ¹	41	28	mother ²	2,003
29	friend ¹	39	29	do	1,968
31.5	best ¹	36	30	what	1,952
31.5	have	36	31	not	1,944
31.5	said	36	32	play	1,877
31.5	school	36	33	want	1,805
34	cat	35	34	was	1,746
35	and ¹	34	35	will	1,733
37	had	33	36	there	1,701
37	something ¹	33	37	go	1,586
37	very ¹	33	38	she	1,570
40	by ¹	32	39	for	1,568
40	dog	32	40	our	1,547
40	that	32	41	some ¹	1,516
42	day ¹	31	42	here ¹	1,483
44	be	30	43	had	1,427
44	can	30	44	up	1,401
44	for	30	45.5	got	1,391
47	her	29	45.5	they	1,391
47	saw	29	47	cat	1,366
47	there	29	48	has	1,277
51	to	28	49	school	1,211
51	one	28	50.5	come ¹	1,210
51	so	28	50.5	with	1,210
51	up	28	52.5	boy	1,198
51	want	28	52.5	dog	1,198
56.5	can ¹	27	54	be	1,195
56.5	get ¹	27	55	big ¹	1,175
56	at	26	56	at	1,163
57.5	him	25	57	saw	1,156
57.5	then	25	58	so	1,150
60.5	but	24	59	put ²	1,105
60.5	going	24	60	take ²	1,101
1	and	883	1	and	883
2	I	852	2	I	852
3	the	780	3	the	780
4	a	605	4	a	605
5	to	550	5	to	550
6	my	428	6	my	428
7	we	313	7	we	313
8	he	276	8	he	276
9	it	265	9	it	265
10.5	is	260	10.5	is	260
10.5	was	260	10.5	was	260
12	in	219	12	in	219
13	me	161	13	me	161
14	then	156	14	then	156
15	go	145	15	go	145
16	they	142	16	they	142
17	want	132	17	want	132
18	of	121	18	of	121
19	like	119	19	like	119
20	she	117	20	she	117
21	with	117	21	with	117
22	are	105	22	are	105
23	you	103	23	you	103
24	one	102	24	one	102
25	on	100	25	on	100
26.5	when	98	26.5	when	98
26.5	get	98	26.5	get	98
28	have	95	28	have	95
30	but	91	30	but	91
30	so ¹	91	30	so ¹	91
30	that	91	30	that	91
32	will	86	32	will	86
34	dog	84	34	dog	84
34	out	84	34	out	84
34	play	84	34	play	84
36	had	82	36	had	82
37	house	81	37	house	81
38.5	all	80	38.5	all	80
38.5	some	80	38.5	some	80
40	friend ¹	78	40	friend ¹	78
41.5	day ¹	77	41.5	day ¹	77
41.5	end ¹	77	41.5	end ¹	77
43	got	76	43	got	76
44	him	75	44	him	75
45	said ¹	74	45	said ¹	74
46	be	71	46	be	71
47	there	71	47	there	71
48	were ¹	70	48	were ¹	70
49	very	69	49	very	69
50.5	for	68	50.5	for	68
50.5	up	68	50.5	up	68
52.5	his	66	52.5	his	66
52.5	would ¹	66	52.5	would ¹	66
54	at	65	54	at	65
55	time	64	55	time	64
56	them ¹	61	56	them ¹	61
58.5	could ¹	60	58.5	could ¹	60
58.5	going	58	58.5	going	58
58.5	ran ¹	58	58.5	ran ¹	58
60.5	same	56	60.5	same	56
1	a	18,571	1	a	18,571
2	I	14,726	2	I	14,726
3	the	14,701	3	the	14,701
4	to	12,484	4	to	12,484
5	and	11,442	5	and	11,442
6	my	8,344	6	my	8,344
7	you	8,128	7	you	8,128
8	is	7,781	8	is	7,781
9	she	6,507	9	she	6,507
10.5	he	5,410	10.5	he	5,410
10.5	in	5,410	10.5	in	5,410
12	am ¹	4,757	12	am ¹	4,757
13	we	4,031	13	we	4,031
14	had	4,001	14	had	4,001
15	like	3,666	15	like	3,666
16	have	3,621	16	have	3,621
17	me	3,545	17	me	3,545
18	dear ¹	3,484	18	dear ¹	3,484
19	with	3,474	19	with	3,474
20	little	3,403	20	little	3,403
21	are	3,375	21	are	3,375
22	they	3,309	22	they	3,309
23	school	2,332	23	school	2,332
24	can	2,778	24	can	2,778
25	dog	2,735	25	dog	2,735
26	it	2,707	26	it	2,707
27	was	2,520	27	was	2,520
28	cat	2,507	28	cat	2,507
29	play	2,497	29	play	2,497
30	on	2,388	30	on	2,388
31	for	2,354	31	for	2,354
32	will	2,342	32	will	2,342
33	your ¹	2,276	33	your ¹	2,276
34	see	2,252	34	see	2,252
35	go	2,214	35	go	2,214
36	mother	2,125	36	mother	2,125
37	good	2,117	37	good	2,117
38	come ¹	1,966	38	come ¹	1,966
39	some	1,966	39	some	1,966
40	how ¹	1,919	40	how ¹	1,919
41	going	1,915	41	going	1,915
42	one	1,904	42	one	1,904
43	Christmas ¹	1,795	43	Christmas ¹	1,795
44	day	1,768	44	day	1,768
45	all	1,710	45	all	1,710
46	has ¹	1,704	46	has ¹	1,704
47	then	1,591	47	then	1,591
48	of	1,575	48	of	1,575
49	want	1,544	49	want	1,544
50	at	1,536	50	at	1,536
51	do	1,537	51	do	1,537
52	saw	1,563	52	saw	1,563
53	this	1,501	53	this	1,501
54	went	1,488	54	went	1,488
55	name	1,459	55	name	1,459
56	when	1,436	56	when	1,436
57	got ¹	1,401	57	got ¹	1,401
58	doll ¹	1,304	58	doll ¹	1,304
59	came ¹	1,278	59	came ¹	1,278
60	girl ¹	1,254	60	girl ¹	1,254

Table continued on next page

Table 6 continued

First Grade						Second Grade					
Hendlebaum			Rinsland			Hendlebaum			Rinsland		
Rank	Word	Frequency	Rank	Word	Frequency	Rank	Word	Frequency	Rank	Word	Frequency
60.5	got	24	61	run	1,038	60.5	king ³	36	61	him	1,256
60.5	little	24	62	went	1,083	62	not	33	62	ball ⁴	1,212
63.5	not	23	63	his	1,047	63.5	home	31	63	did	1,202
63.5	what	23	64	down ²	1,046	63.5	if ³	31	64	not	1,194
65	too	22	65	what	1,000	65	fun ³	30	65	home	1,153
67.5	because ¹	21	66	our ²	943	66	can	49	66	house	1,171
67.5	hard ¹	21	67	two ²	923	68	saw	48	67	that	1,158
67.5	time	21	68	ball ²	909	68	school	48	68	time	1,156
67.5	would	21	69	did	908	68	too	48	69	get	1,147
70.5	all	20	70	house	900	70	once ³	46	70	his	1,121
70.5	his	20	71	now ²	887	72	best ³	45	71	boy	1,123
72.5	good	19	72	red	883	72	do	45	72	eat	1,089
72.5	name	19	73	your ²	870	72	her	45	73	up	1,076
74.5	love ¹	18	74.5	him	856	74.5	because ³	44	74	what ⁴	1,078
74.5	some	18	74.5	how ²	856	74.5	slight ³	44	75	tree	1,038
76.5	or ²	17	76	her	853	76	see	43	76	be	1,029
76.5	played ¹	17	77	them	851	77	name	42	77	will ⁴	1,017
79	am	16	78.5	baby ²	837	79	back ³	40	78	out	1,006
79	hot ¹	16	78.5	said	837	79	boy	40	79	grade ⁴	993
79	red	16	80	good	831	79	by ³	40	80	Santa Claus ⁴	985
81.5	buy ¹	15	81	too	790	83	dad ³	37	81	too	982
81.5	pie ¹	15	82	tree ²	774	83	food ³	37	82	run ⁴	961
84.5	house	14	83	know	768	83	love ³	37	83	likes ⁴	924
84.5	house	14	84	doll ²	761	83	our ³	37	84	from ⁴	920
84.5	know	14	85	girl ²	744	83	want	37	85	made	909
84.5	too ²	14	86	over	744	86.5	did ³	36	86	pet ⁴	894
90	did	13	87	I'm ²	714	86.5	son ³	36	87	bring ⁴	889
90	has	13	88	cake ²	702	89	about ³	35	88	white ⁴	871
90	much ¹	13	89.5	but	700	89	door ³	35	89	hat	820
90	over	13	89.5	time	700	89	this	35	90	us ⁴	816
90	summer ¹	13	91	same	681	91.5	cat	34	91	red ⁴	809
90	than	13	92	would	677	91.5	mouse ³	34	92	make ⁴	806
90	was ¹	13	93	then	675	93	buy ³	32	93.5	but	800
96	boy	12	94	home	664	94.5	little ³	31	93.5	man ⁴	800
96	eat ¹	12	95	san ²	662	94.5	ride ³	31	95	there	790
96	run	12	96	Christmas ²	650	96.5	eat	30	96	big ⁴	757
96	sea	12	97	sade ²	647	96.5	another ³	30	97	black ⁴	756
96	swimming ²	12	98	pretty ²	624	98.5	people ³	29	98.5	pretty ⁴	722
						98.5	what	29	98.5	very	722
						100	know ³	28	100	I'm ⁴	714

Footnotes

¹ Words in the first grade list from this study but not in the first grade Rinsland list

² Words in the first grade Rinsland list but not in the first grade list from this study

³ Words in the second grade list from this study but not in the second grade Rinsland list

⁴ Words in the second grade Rinsland list but not in the second grade list from this study

Table 7
100 Most Frequently Used Words in
Third and Fourth Grades

Third Grade						Fourth Grade					
Mandlebaum			Rinsland			Mandlebaum			Rinsland		
Rank	Word	Frequency	Rank	Word	Frequency	Rank	Word	Frequency	Rank	Word	Frequency
1	the	1,146	1	the	31,540	1	the	1924	1	the	16,502
2	and	1,079	2	I	29,236	2	and	1467	2	I	10,431
3	I	920	3	and	28,340	3	I	1297	3	and	23,323
4	a	730	4	to	22,956	4	a	1065	4	to	25,106
5	so	686	5	a	21,233	5	so	1004	5	a	20,162
6	my	460	6	you	16,035	6	was	713	6	you	14,659
7	was	386	7	we	14,547	7	it	567	7	very	14,176
8	he	364	8	it	12,311	8	he	533	8	we	13,017
9	we	337	9	is	10,476	9	in	506	9	in	10,908
10	it	297	10	in	10,157	10	my	429	10	is	10,225
11	in	295	11	are	8,822	11	we	397	11	of	9,508
12	is	257	12	of	7,748	12	they	380	12	it	9,392
13	of	195	13	they	7,351	13	of	365	13	was	8,440
14	they	188	14	have	7,270	14	went	283	14	have	8,162
15	went	156	15	was	6,843	15	on	280	15	are	7,337
16	them	182	16	my	6,492	16	is	279	16	he	7,334
17	that	177	17	on	5,510	17	them	277	17	my	5,597
18	so	162	18	school	5,430	18	said	276	18	they	5,393
19	you	157	19	he	5,299	19	but	257	19	for	5,337
20	when	156	20	for	5,147	20	so	253	20	on	5,249
21	said	151	21	will	4,957	21	she	250	21	will	5,182
22.5	go	146	22	had	4,697	22	got	242	22	school	4,999
22.5	one	146	23	that	4,578	23	when	240	23	your	4,385
24	have	143	24	as	4,396	24	that	231	24	that	4,641
25	got	144	25.5	as	4,092	25	one	226	25	had	4,500
26.5	for	134	25.5	with	4,092	26	as	224	26	got	4,503
26.5	me	134	27	got	4,076	27	you	215	27	so	4,386
28	with	130	28	all	3,843	28	there	205	28	went	4,293
29.5	be	125	29	like	3,332	29	all	195	29	am	4,188
29.5	but	125	30	going	3,649	30	day	189	30	when	4,130
31	had	122	31	dear	3,647	31	with	186	31	dear	4,109
32.5	she	120	32	went	3,608	32	had	180	32	me	3,366
32.5	up	120	33	not	3,538	33	for	179	33	with	3,749
34	all	118	34	one	3,508	34	out	177	34	one	3,744
35	on	117	35	some	3,505	35	go	162	35	going	3,572
36	will	114	36	so	3,323	36	were	160	36	there	3,530
37	there	109	37	at	3,253	37	her	157	37	she	3,503
38	would	108	38	when	3,251	38	his	155	38	go	3,592
39	day	105	39	she	3,227	39	him	153	39	not	3,537
40	like	102	40	your	3,196	40	up	145	40	all	3,470
41	play	99	41	come	3,117	41	have	144	41	but	3,245
42	him	98	42	out	3,083	42.5	at	129	42	like	3,189
43	house	93	43	our	3,084	42.5	saw	129	43	at	3,304
46.5	get	37	44	how	2,942	44	some	124	44	get	2,373
46.5	too	37	45	would	2,940	45	like	123	45	now	2,342
46.5	dog	35	46	very	2,842	46.5	be	120	46	out	2,325
46.5	going	35	47	but	2,787	46.5	would	120	47	this	2,323
48	his	33	48	rime	2,769	48	get	118	48	up	2,322
49	were	30	49	little	2,743	49	game	117	49	his	2,912
50	out	29	50	go	2,512	50	them	111	50	little	2,911
51	are	28	51	there	2,539	51	are	102	51	some	2,373
52.5	same	27	52	good	2,538	52	home	101	52	do	2,999
52.5	rime	27	53	get	2,478	53	if	92	53	time	2,533
54	saw	25	54	this	2,458	54	bad	90	54	would	2,593
55	back	24	55.5	another	2,363	55.5	because	89	55	come	2,505
56.5	at	23	56.5	see	2,363	56.5	and	89	56	then	2,473
56.5	could	23	57	them	2,332	57	time	88	57	our	2,468
58	is	21	58	too	2,236	58	house	85	58.5	him	2,462
59	some	20	59	her	2,222	59	very	84	58.5	them	2,462
60	little	18	60	play	2,203	60	going	82	60	day	2,384

Table continued on next page

Table 7 continued

Third Grade						Fourth Grade					
Mandelbaum			Rinsland			Mandelbaum			Rinsland		
Rank	Word	Frequency	Rank	Word	Frequency	Rank	Word	Frequency	Rank	Word	Frequency
61	by ¹	66	61	up	2,175	52	people ³	81	61	her	2,148
62	because	65	62	were	2,173	82	started ³	81	62	write ⁴	2,335
63	them ¹	60	63	did ²	2,152	62	look ³	81	63	from	2,298
64	once ¹	39	64	then ²	2,103	64	not ³	78	64	good ⁴	2,248
65	home	38	65	from ²	2,085	85.5	do	77	65	Christmas ⁴	2,224
66	what	35	66	day	2,083	85.5	down ³	77	66	were	2,150
67.5	her	33	67	do	2,078	87.5	man ³	76	67	mother	2,141
67.5	tree ¹	33	68	now ²	2,060	87.5	ran ³	76	68	said	2,064
69.5	do	32	69	be	2,034	69	over ³	74	69	be	2,033
69.5	this	32	70	us	1,866	70	boy ³	72	70	did	2,007
71.5	friend ¹	31	71	home	1,815	71.5	about	71	71	what ⁴	1,386
71.5	not	31	72	said ²	1,782	71.5	name ³	71	72	now	1,308
73	mother	49	73.5	can ²	1,771	73	little	69	73	dog	1,302
74	big ¹	48	73.5	what	1,771	74.5	just ³	68	74	about	1,393
75	us	47	75	said	1,745	74.5	cold ³	68	75	down	1,311
76	about	46	76	write ²	1,742	76.5	as	67	76	friend ⁴	1,322
77.5	am	45	77	house	1,738	76.5	this	67	77	home	1,315
77.5	very	45	78	Christmas ²	1,727	79	could	56	78	their ⁴	1,754
80	dad ¹	44	79	his	1,679	79	didn't ³	56	79	letter ⁴	1,584
80	father ¹	44	80	well ²	1,673	79	dog	56	80	came ⁴	1,568
80	it's ¹	44	81	has ²	1,533	81.5	after	55	81	see	1,563
83	boy ¹	43	82	over	1,532	81.5	mother	55	82	play	1,630
83	night	43	83	him	1,530	85.5	next ³	64	83	saw	1,547
93	see	43	84	down	1,504	85.5	off ³	64	84	as	1,534
96	down	42	85	about	1,502	85.5	old ³	64	85	hope ⁴	1,625
86	man ¹	42	86	saw ²	1,506	85.5	play	64	86	well ⁴	1,617
86	name ¹	42	87	hope ²	1,484	35.5	us	64	37.5	if	1,380
98	more ¹	41	88	put ²	1,467	85.5	will	64	87.5	us	1,380
90.5	horse ¹	40	89	grade ²	1,452	89.5	by ³	62	89.5	after	1,327
90.5	some ¹	40	90	new ²	1,440	89.5	see	62	91	can	1,327
90.5	over	40	91	came	1,434	91	into ³	61	91	has ⁴	1,313
90.5	school	40	92	chair ²	1,411	92.5	big ³	58	92	put ⁴	1,497
93.5	come ¹	39	93	because	1,381	92.5	from	58	93	fine ⁴	1,474
93.5	two ¹	39	94	name	1,380	94	did	57	94	soon ⁴	1,470
95	or ¹	38	95	dog	1,321	95.5	now	56	95.5	just	1,468
97.5	after ¹	37	96	back	1,316	95.5	once ³	56	97	too ⁴	1,468
97.5	and ¹	37	97	night	1,303	97	can	55	97	back ⁴	1,433
97.5	good	37	98	here ²	1,280	98.5	helicopter ³	54	98	light ⁴	1,423
97.5	lot ¹	37	99	want ²	1,251	98.5	other ³	54	99	two ⁴	1,418
						100	want ³	51	100	could	1,407

Footnotes

¹Words in the third grade list from this study but not in the third grade Rinsland list²Words in the third grade Rinsland list but not in the third grade list from this study³Words in the fourth grade list from this study but not in the fourth grade Rinsland list⁴Words in the fourth grade Rinsland list but not in the fourth grade list from this study

Table 8
100 Most Frequently Used Words in
Fifth and Sixth Grades

Fifth Grade						Sixth Grade					
Hendlebaum			Kinsland			Hendlebaum			Kinsland		
Rank	Word	Frequency	Rank	Word	Frequency	Rank	Word	Frequency	Rank	Word	Frequency
1	the	1,738	1	I	40,824	1	the	2,413	1	the	45,630
2	and	1,564	2	the	27,767	2	and	1,919	2	and	28,956
3	I	1,512	3	co	26,284	3	I	1,808	3	I	27,008
4	to	1,192	4	and	24,519	4	a	1,436	4	co	23,559
5	a	1,061	5	you	21,000	5	to	1,409	5	a	22,936
6	was	660	6	a	19,412	6	was	843	6	you	17,459
7	my	583	7	we	15,837	7	in	693	7	it	15,611
8	in	557	8	is	12,915	8	it	663	8	in	14,582
9	he	551	9	in	11,182	9	of	651	9	of	14,042
10	be	512	10	friend	10,741	10	my	638	10	is	12,943
11	it	486	11	have	10,726	11	he	627	11	we	11,627
12	of	437	12	it	10,478	12	they	456	12	have	10,958
13	they	361	13	are	9,673	13	we	424	13	are	6,373
14	is	366	14	of	9,221	14	that	396	14	was	6,758
15	you	310	15	for	7,939	15	would	384	15	they	6,250
16	said	293	16	was	7,505	16	on	380	16	for	6,117
17	when	286	17	by	7,200	17	is	374	17	on	6,383
18	on	280	18	your	6,804	18	when	365	18	then	6,359
19	that	269	19	will	6,291	19	for	329	19	that	6,358
20	go	268	20	school	6,084	20	you	313	20	your	6,358
21	so	250	21	dear	5,368	21	so	312	21	my	4,792
22	she	244	22	am	5,043	22	she	311	22	when	4,758
23	one	239	23	that	4,347	23	but	303	23	so	4,365
24	them	233	24	got	4,356	24	have	302	24	will	4,533
25	went	230	25	so	4,329	25	all	281	25	get	4,461
26	me	223	26	had	4,686	26	be	276	26	he	4,452
27	day	222	27	wrote	4,389	27	like	274	27	school	4,103
28	would	221	28	me	4,076	28	me	272	28	all	3,395
29	for	219	29	on	4,008	29	with	271	29	one	3,367
30	but	218	30	all	3,970	30	had	265	30	put	3,958
31	got	213	31	she	3,952	31	said	259	31	had	3,876
32	there	211	32	our	3,911	32	go	252	32	work	3,370
33	have	206	33	with	3,904	33	her	250	33	not	3,771
34	had	202	34	not	3,771	34	out	249	34	how	3,705
35	with	201	35	he	3,710	35	there	244	35	chere	3,640
36	up	188	36	how	3,687	36	day	240	36	out	3,576
37	all	180	37	this	3,624	37	one	239	37	our	3,483
38	were	178	38	like	3,580	38	got	238	38	some	3,462
39	like	174	39	when	3,474	39	went	238	39	with	3,409
40	get	173	40	they	3,432	40	then	222	40	about	3,316
41	out	170	41	there	3,412	41	up	206	41.5	be	3,271
42	be	167	42	from	3,349	42	was	199	41.5	but	3,271
43	his	166	43	get	3,330	43	at	187	43	go	3,248
44	her	157	44	going	3,289	44	get	185	44	am	3,122
45	going	155	45	go	3,236	45	him	181	45	up	3,143
46	are	148	46	now	3,250	46	if	179	46	at	3,395
47.3	at	142	47	time	3,170	47	his	173	47	got	2,900
47.5	because	142	48	at	3,154	48	could	172	48	very	2,372
49	will	135	49	but	3,129	49	them	161	49	from	2,335
50	him	132	50	do	3,099	50	about	155	50	this	2,326
51	if	125	51	very	2,999	51	will	154	51	as	2,316
52	house	124	52	out	2,916	52	because	151	52	them	2,324
53	do	123	53	letter	2,789	53	are	144	53	learn	2,783
54	about	118	54	well	2,740	54	by	137	54	do	2,741
55	this	114	55	one	2,705	55	some	131	55	me	2,777
56	them	113	56	went	2,666	56	went	130	56	she	2,602
57.5	came	101	57.5	some	2,569	58	as	129	57	or	2,387
57.5	what	101	57.5	sure	2,569	58	house	129	58	going	2,492
59	by	99	59	her	2,506	58	time	129	59	take	2,406
61.5	back	97	60	them	2,481	60	school	124	60	like	2,108

Table continued on next page

Table 8 continued

Fifth Grade			Sixth Grade		
Mandlebaum			Mandlebaum		
Rank	Word	Frequency	Rank	Word	Frequency
61.5	down	97	61	be	2,468
61.5	some	97	62	about	2,389
61.5	too	97	63.5	same	2,359
64	saw ¹	96	63.5	would	2,359
65	home	94	65	here ²	2,326
66	school	91	66	were	2,310
67	time	88	67	as	2,303
68	very	87	68	up	2,258
69	our	85	69	did ²	2,211
70	can ¹	84	70	what	2,177
71	two	82	71	just	2,173
73	could	81	72	little ²	2,157
73	just	81	73	soon ²	2,103
73	over	81	74	mother ²	2,086
75	as	79	75	know	2,082
76.5	now ¹	74	76	good	2,023
76.5	chair ¹	74	77	hope ²	2,002
78	from	73	78	day	1,996
80	next ¹	71	79	has ²	1,963
80	play ¹	71	80	close ¹	1,919
80	summer ¹	71	81	see	1,901
82	people ¹	70	82	grade ²	1,895
83	friend	69	83	fine ¹	1,890
84.5	after	68	84	don't	1,878
84.5	friends ¹	68	85	because	1,870
89	big ¹	67	86	call ²	1,846
89	fun ¹	67	87	said	1,840
89	I'm ¹	67	88	down	1,829
89	not	67	89	think ²	1,738
89	saw	67	90	home	1,709
89	cold ¹	67	91.5	to	1,664
89	want ¹	67	91.5	us ²	1,664
93	know	65	93	than	1,652
95	and ¹	64	94	over	1,622
95	same ¹	64	95	too	1,595
95	started ¹	64	96	been ²	1,588
97.5	don't	62	97	last ²	1,574
97.5	good	62	98	after	1,556
99.5	into ¹	61	99.5	could	1,544
99.5	wall	61	99.5	much ²	1,544

Mandlebaum			Rinsland		
Rank	Word	Frequency	Rank	Word	Frequency
61	just	119	61	is	2,275
62	going	118	62	were	2,202
63	this	116	63	can	2,125
64	or	115	64	time	2,086
65.5	over	113	65	went	2,061
65.5	saw ¹	113	66	wrote ¹	2,053
67	from	112	67	make ¹	2,014
68	down	111	68	has ¹	1,978
69.5	into ¹	109	69	down	1,937
69.5	people ¹	109	70	good ¹	1,989
71	back ¹	107	71	two	1,978
72	their ¹	104	72	first	1,963
73.5	see	102	73	now	1,965
73.5	told ¹	102	74	after	1,959
76	do	101	75	little	1,940
76	home	101	76	because	1,911
76	very	101	77	should ¹	1,867
78.5	after	99	78	day	1,838
78.5	came ¹	99	79	wall ¹	1,825
80	other	98	80	his	1,808
81	can	92	81	other	1,806
82	started ¹	89	82	see	1,789
83	around ¹	89	83	her	1,788
84.5	didn't ¹	38	84	come ¹	1,761
84.5	not	38	85	letter ¹	1,749
86	our	36	86.5	over	1,731
87	same ¹	35	86.5	sure ¹	1,731
88	little	31	88	by	1,695
89	first	30	89	just	1,630
90	don't	29	90	call ¹	1,622
91	three ¹	28	91	here ¹	1,615
92.5	night ¹	27	92	home	1,612
92.5	want ¹	27	93	him	1,586
94.5	I'm ¹	26	94	friend ¹	1,577
94.5	know ¹	26	95	did ¹	1,568
96.5	friends ¹	24	96	don't	1,560
96.5	two	24	97	water ¹	1,541
98	more ¹	22	98	soon ¹	1,524
99	now	21	99	many ¹	1,515

Footnotes

¹ Words in the fifth grade list from this study but not in the fifth grade Rinsland list² Words in the fifth grade Rinsland list but not in the fifth grade list from this study³ Words in the sixth grade list from this study but not in the sixth grade Rinsland list⁴ Words in the sixth grade Rinsland list but not in the sixth grade list from this study

Table 9

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CHAPTER V

DISCUSSIONS, CONCLUSIONS, AND RECOMMENDATIONS

The purposes of this chapter are to discuss the findings presented in Chapter IV, draw conclusions from those findings, suggest educational implications, and make recommendations for future research. The first three sections provide discussions of the research questions and the words deleted from the computer. The final three sections contain the educational implications, suggestions for future research, and the conclusions.

Compilation and Comparisons of Word Lists

When interpreting the lists compiled from the stories written by the students in this study, the reader should remember that only one sample of writing was gathered from each participating student and the samples were gathered during a short period of time. In addition, only 13 of the 50 states are represented. If more than one sample had been taken, a different type of writing examined, the sample taken over the span of a year, or all 50 states represented, the results might have been different.

Care should be taken in interpreting both the Method 1 and Method 2 lists. In the Method 1 list some words are ranked higher in

the list than others that were used by a larger number of students. In the Method 2 list no word was used by more than 87% of the students; therefore, the assumption could be made that no word is ever used by all of those who write. However, if more than one writing sample from each student had been analyzed, in all likelihood, several words would have been used by all of the individuals in the sample. This would be particularly true of words such as a, I, and, the, to, etc. which might be described as "utility" words. These words are probably used by all writers at one time or another.

Method 1 and Method 2 Lists Compared

The two lists compiled using Methods 1 and 2 comprise words from the first through sixth grades and include a total of 269 different words. For each word, three possibilities existed: (a) the word occurred in both lists as 243 words (90.33%) did; (b) the word occurred in the Method 1 list but not in the Method 2 list (13 words or 4.83%); or (c) the word occurred in the Method 2 list but not in the Method 1 list (13 words or 4.83%).

The fact that over 90% of the words occurred in both lists indicates that both methods are fairly accurate measures of the importance of these words. The differences in the methods only become apparent when the words which are not common to both lists are examined. A discussion of the differences follows.

As an initial step, the words in only the Method 1 list (i.e., Mr., horse, Mrs., dollars, monster, teacher, children, fish, million, trip, bike, animals, kids) were compared with the words only in the Method 2 list (i.e., almost, together, getting, story, than, yes, hope,

everything, knew, many, anything, everybody, life). The words appearing in the Method 2 list tended to be words which were the topic or focus of the stories and would be expected to be used more than one time in the story. The words occurring only in the Method 2 list, however, tended to be words which would not serve as a focus or topic for a story. These were words which would be likely to be used only one time in a story.

One explanation of why a word might appear in the Method 1 list but not in the Method 2 list is the tendency of some students to use a word repeatedly. For example, the word monster was ranked 219.5 in the Method 1 list but does not appear in Table 4 in the Method 2 list. If the cutoff had been 520 instead of 256, the word would have appeared since monster was ranked 516 in the Method 2 list. The word monster was used a total of 99 times by 27 students, an average of almost four times per student.

On the other hand there are words which appeared in the Method 2 list but not in the Method 1 list. These words were used by several students but were usually used only one time in a story. For example, the word almost was ranked 227 in the Method 2 list but did not appear in Table 4 in the Method 1 list. If the cutoff had been 275, the word would have appeared since almost was ranked 266.5 in the Method 1 list. The word almost was used a total of 81 times by 75 students.

Further evidence of the differences in Methods 1 and 2 can be seen by comparing the two sets of 13 words. The ranks of the 13 words which appeared only in the Method 1 list were compared with their ranks in the Method 2 list by extending that list beyond the 256 words in

Table 4. The total difference in ranks was 1,273.5, an average of 97.96 ranks per word. When the ranks of the 13 words from the Method 2 list were compared with their ranks in the extended Method 1 list, the total difference in the ranks was 349.5, an average of 26.88 ranks per word. The conclusion could be drawn that Method 2 provides a more stable measure than Method 1 since the average difference in ranks in the Method 2 list was much smaller than the average difference in ranks in the Method 1 list.

In a study of this size, the method of counting the words (i.e., counting the number of times a word occurs or counting the number of students who use a word) does not appear to make much difference for approximately the first 200 words. At about this point, perhaps the method of counting the number of students who used a word is the more accurate method since counting the number of times a word occurs seems to give a somewhat inflated appearance to the importance of some of the words. In a count as large as the one by Rinsland (over 6,000,000 words), the point at which there would have been a difference probably occurred much later in the list since the number of students involved in such a large count would counteract a handful of students using a word several times.

Method 1, Method 2, and the Rinsland Lists Compared

The two lists developed using Methods 1 and 2 each have at least 66% of the words in common with Rinsland's list. In every instance except two, the words which appeared in only one or two of the three lists were ranked in the remaining list(s) between 251 and 500. For instance, the word end was ranked 71 and 44.5 respectively in the

Method 1 and 2 lists, was ranked 386 in the Rinsland list.

The two exceptions were the words mom (appearing only on the Method 1 and 2 lists) and Christmas (appearing only in Rinsland's list). The word mom was apparently not in common use at the time Rinsland conducted his study since it is not in his list. Christmas was ranked 78 on the Rinsland list, but it was not entered into the computer for this study since it was in a category of proper nouns to be deleted. Even if it had been entered, Christmas probably would not have been a frequently used word in this study. This is to be expected because the papers for this study were written in the spring, a time when Christmas is not of particular importance to students. However, Rinsland may have gathered many of his papers right before or after Christmas when students were thinking about it which would account for it being a frequently used word in his study.

Although only the top 256 words were reported in this study, there were four words ranked between 251 and 500 which were not reported by Rinsland. These were helicopter, no one, spaceship, and TV. No one may not have been considered an open compound word during the time of Rinsland's study, or he may not have made an effort to identify all open compound words even though he did list several (e.g., corn bread, dining car, infantile paralysis). The remaining words (i.e., helicopter, spaceship, TV) are of recent origin and would not have been in use at the time Rinsland conducted his study.

Word Lists by Grade Level

As could be expected, the higher the grade level, the more words the students used in their compositions. First grade students

used an average of 28 words per story; second grade students, 58 words per story; third grade students, 99 words per story; fourth grade students, 138 words per story; fifth grade students, 127 words per story; and sixth grade students, 160 words per story.

The number of words the students used was reflected in the word lists for each grade level. The most frequently used word by first grade students occurred 405 times and the least frequently used word (as reported in Table 6) appeared 12 times. A gradual increase in these figures is evident until they reach a peak at the sixth grade in which the most frequently used word occurred 2,415 times while the least frequently used word (as reported in Table 8) appeared 71 times.

Another difference between the grades was the number of different words used by the students in the grade levels. First grade students used a total of 890 different words; second grade students, 1,624 different words; third grade students, 2,020; fourth grade students, 2,792; fifth grade students, 3,091; and sixth grade students, 3,802 different words. The variance could be accounted for by: (a) the larger vocabularies of the older students; (b) the number of words the older students are able to spell and, therefore, write more readily; (c) the time allotted for the activity; or (d) chance because of the relatively small number of students from each grade level.

Words Not Reported by Rinsland

The discussion in this section is focused on the words used by the students in this study which were entered into the computer as part of the word count but were not reported by Rinsland in his list (see Table 5). Three areas are covered: (a) proper nouns; (b) words

probably occurring in Rinsland's study but which he did not report; and (c) words of recent origin. A discussion of these areas follow.

Proper Nouns

Of the 1,363 words entered into the computer count of this study that were not reported by Rinsland, 119 were proper nouns (see pages - for the criteria for entering and deleting proper nouns). Although detailed information on how many proper nouns were deleted from Rinsland's count is not available, apparently Rinsland's basis for selecting which proper nouns to count was inconsistent. According to Rinsland (1945), all proper nouns were deleted "except very well known terms" (p. 8). Using this as a guideline, Christmas, Santa Claus, Angora, Alpine, and Alps were included while the names of states, oceans, and countries were apparently deleted or not used by the students. American, Americans, and U.S. are listed; but there is no listing for America or United States. That at least one of the over 200,000 students in Rinsland's study did not refer to a state or country is unlikely; therefore, the assumption is made that Rinsland must have deleted those terms.

Among the proper nouns which were counted in this study were the names of several states, especially California, Texas, and Florida. An interesting aspect of this was that the students who mentioned states usually were not discussing the states in which they lived. Generally, these students were writing about states in which they had taken a vacation, were planning to take a vacation, or in which they had a friend or relative living.

Of the remaining proper nouns which were entered into the computer, four were counted more than 10 times (United States, 14 times; Mars, 29 times; Martian, 18 times; Martians, 13 times). Other nations and planets were mentioned; however, all occurred less than 10 times. That planets appeared fairly often is not surprising since they would be likely to appear in stories about spaceships; and spaceships were frequently mentioned.

Words Probably Occurring in Rinsland's Study

Rinsland's study contained 25,632 different words; however, he only reported 14,571 words. The 11,061 different words which occurred only one or two times at any grade level were not included in his published list. Some of the words in this study probably occurred in those words Rinsland counted but did not print. The word adjustments is an example of a word which Rinsland probably counted but did not report. Adjust, adjusting, and adjustment were all reported by Rinsland, and if adjustments had occurred at least three times in a grade level, Rinsland would have published it. The point being made here is that most of the words which occurred in this study but which Rinsland did not publish are not new words; they were in use at the time of Rinsland's study but were probably not frequently used.

Words of Recent Origin

Rinsland used Webster's New International Dictionary of the English Language (1934) as a reference. Several of the words in this study probably did not appear in that edition of the dictionary, and are words which have been added to the vocabulary since 1934. Of those words, 14 (i.e., antigravity, black hole, CB, day-care center, dune

buggies, dune buggy, kung fu, minibike, minibikes, skateboard, skateboarding, skateboards, solar panels, videotape) appeared in the addenda of Webster's Third New International Dictionary, Unabridged (1976) which means that they are additions to the language since approximately 1966.

Some of the words used by students in this study but not reported by Rinsland refer to new technological advances in recent years (e.g., computer, laser, ballistic missile, videotape). Since students are exposed to these terms in their daily lives (e.g., parents discussing their work, reports in the newspaper and television, movies incorporating these terms), they are likely to use them in their own forms of communication.

The vast majority of the words which appear in this study but not in Rinsland's could not be considered frequently used words because they were used only one or two times. Thirty-four words occurred ten times or more; and of those, only ten words (i.e., California, Florida, Hawaii, helicopter, Mars, mom, no one, spaceship, Texas, TV) appeared more than 25 times. While authors of curriculum materials should consider using new words which appear, they would not want to include all new words students use. Perhaps an effort should be made to include those which appear to be gaining in popularity since they would be relevant to the students' needs.

Words Deleted from the Computer

This section provides a discussion of the words written by students but not entered into the computer count (see Table 9). The

discussion is divided into four sections: (a) names of people; (b) names of places; (c) names of things; and (d) other deletions.

Names of People

Over one-third of the words deleted from the computer count were names of people. Although names of famous people were mentioned several times, most of the names were of friends, relatives, and other people apparently important to the students' lives. A wide variety of groups were also mentioned (e.g., sports teams, rock music groups, scouting groups).

Names of Places

The names of states, countries, and oceans were entered into the computer and are not included in this category. The names of commercial establishments, tourist attractions, real cities, and miscellaneous locations (e.g., lakes, hills) were the most frequently used categories in this division.

Names of Things

In this division, the names of animals were the most frequently mentioned category. The names were generally those of pets. Students often used the generic name (e.g., cat, dog, horse, guinea pig, gerbil) as well as the name given to the pet. Other frequently mentioned categories were transportation (e.g., cars, motorcycles, trains, airplanes), miscellaneous objects, and holidays.

Other Deletions

Arabic numerals were the most frequently used items in this category, while Roman numerals and fractions were rarely used. Also infrequently written were concatenated and dialect influenced words.

Usually when these types of words were used, they were in the conversations of characters in the story. This may be an indication that students realize spoken language is somewhat different than written language. Although concatenated and dialect influenced words were deleted, substitutions for them were entered into the computer count. For example, going to was substituted for gonna.

Educational Implications

The educational implications drawn from the results of this research are presented in this section. They have been divided into two areas: educational implications for teachers and educational implications for textbook authors. Naturally, they are tentative and subject to additional research.

Educational Implications for Teachers

Three suggestions for classroom teachers are discussed here. They include: (a) evaluating the vocabulary in spelling programs; (b) individualizing the spelling vocabulary for all students; and (c) coping with the needs of students who have problems in spelling. A discussion of these suggestions follows.

Evaluating the vocabulary in spelling programs. Teachers should determine that the vocabulary included in a spelling program is relevant to his/her students by comparing the words in the program to the list of words from this study. In the researcher's opinion, the Method 2 list would be the preferred list for this comparison since it seems to be a more stable measure; however, only the 256 words used by the greatest percentage of students are included in Table 4. Therefore,

teachers should consider using the complete list of words found in Appendix E.

If the words in the spelling program are among those in Appendix E, the vocabulary is probably relevant to the needs of today's students. Needless to say, the vocabulary of a spelling program is not the only area to evaluate; additional evaluation should be done to determine that the methods used to teach the spelling of the words are effective.

If most of the words in the spelling program are not among those in Appendix E, or if a large number of the frequently used words are not included, teachers should consider altering the vocabulary by adding or deleting words. Adopting another program would be a second alternative.

Individualizing the spelling vocabulary. Perhaps the key to an effective spelling program is flexibility in vocabulary selection. One suggestion might be that half of the spelling words be selected on the basis of a study such as this one and the other half be divided between words selected by the class as a whole and words selected by individual students. The selected words could include names of people, places, and things as well as seasonal words.

One problem that occurred during the course of this study and that will be faced by teachers from time to time is how to spell words which are new to the vocabulary and are not found in the dictionary. An example of this problem was the word tennies, slang for tennis shoes. By applying spelling principles, a logical spelling for the word can be developed. In the classroom, the teacher could use this opportunity to

demonstrate how spelling principles can be used to determine a spelling. This could be accomplished not by telling the students how s/he thinks the word should be spelled, but by allowing the students as a class to determine the spelling. This would also help students to see the importance of standard spellings for words.

Coping with the needs of problem spellers. As was mentioned in Chapter I, some students do not appear to learn the spelling of words incidentally (Horn, 1937; Smith, 1980) or they cannot learn all that is in texts. For these students, particular care should be taken to see that their spelling vocabulary contains words which they are most likely to use when writing. For students who have trouble learning to spell, teachers might want to concentrate only on the most frequently used words beginning with the 57 words listed in Appendix D since these appear to be used frequently throughout grades 1-6. These words could be followed by the words in Table 4 that are not among the 57 words. Since the total word count was larger than that for individual grades, Table 4 is a more reliable list than Tables 6-8. The Method 2 list is recommended as the preferred list.

Research Implications

Based on the information from this study, six suggestions for further research are offered.

1. Future word counts should include approximately the same number of words per grade level rather than try to include the same number of students per grade level. By providing students with the spellings of any words they choose to write and by allowing them as much time as they want to complete their papers, further research

could: (a) confirm that there is a difference in the number of different words that students at various grade levels use; (b) demonstrate that the differences actually lie in the ability of the younger students to spell and write; or (c) demonstrate that the differences are an indication of the amount of time the students are allowed for such an activity.

2. Future research should employ technological advances, such as the computer, to allow the words to be analyzed on the basis of as many variables as possible (e.g., race, gender, geographic location). By analyzing the data using these variables, important differences may be discovered which can be used in the development of curriculum materials. For example, some words may be used frequently by students in one geographic location that are infrequently used by students in other geographic locations. Based on this information, authors of spelling programs might offer suggestions for words which should be included in one location but not another.

3. Future research should not rely on a single type of paper nor on a single sample of writing from the participating students. By including several examples of writing from each student gathered over a span of several months, a vocabulary list somewhat more representative of the broad spectrum of words which students know could be compiled. Many of the studies on written vocabulary, including this one, drew their data from only one type of paper (e.g., stories, letters); and therefore, may have limited the vocabulary used. The same problem occurs when the sample is gathered over a short period of time. Many seasonal words (e.g., reindeer, valentine, fire crackers) occur frequently

at one time of the year which are rarely used during other times. Although no seasonal words appeared to be frequently used in this study, some seasonal words (e.g., Christmas, Santa Claus) were frequently used in Rinsland's study.

4. As was mentioned in Chapter I, students may use a word frequently at one time during their lives and not during another. This study has examined written vocabulary only in grades 1-6. Future research should extend from the seventh grade through adulthood.

5. Future research should continue to include counts using both Methods 1 and 2. Although it appears that Method 2 may give a more realistic picture of the importance of words than Method 1, additional research is needed to confirm this.

6. Many words were misspelled by students in this study. No indications of why the words were misspelled could be determined. Future research employing tapes of students reading their stories might demonstrate that word pronunciation (or mispronunciation) is related to misspellings. Such information could provide clues to remediation procedures.

Conclusions

The problems of this study were: (a) to compare two methods of determining the frequency of words used in the written vocabulary of students, (b) to compare the results of this research with that conducted by Rinsland (1945), and (c) to compare the 100 words used most frequently at each grade level (1-6) of this research with corresponding lists from the Rinsland study. Four conclusions related to the problems and resulting research are presented in the following paragraphs.

First, additional research needs to be conducted comparing the two methods of determining the frequency of the words used in writing before deciding which is preferable. However, Method 2 appears to give a more stable measure of the use of words than does Method 1. Some words were highly ranked in the Method 1 list which were used by few students while some words used by many students were ranked much lower. Although this is a debatable issue, a word which is used by many students would seem to be more important to teach than one which is used by fewer students.

Second, although Rinsland's research is valuable, it does not reflect the changes which have occurred during the past 40 years. Some of these changes should be incorporated into current spelling and other language arts programs.

Third, the word count in this study was too small to determine that there have been changes by grade levels. (Except for the word mom which was apparently not used by students during Rinsland's study, all words which appeared in the 100 most frequently used lists appeared in both studies. Christmas and Santa Claus which appeared in one or more of Rinsland's grade level lists were not entered into the computer count, however, they were written by some of the students in this study.) Further research needs to be done in this area.

Finally, the most important finding of this research was the occurrence of words which are new to the vocabulary since Rinsland's study. Although the majority of these words were not frequently used, their appearance indicates that educators and authors of curriculum materials should not rely solely on older studies for vocabulary lists.

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APPENDIX A
INITIAL MAILING TO SCHOOLS



The
University of Oklahoma at Norman

College of Education

80

Dear Superintendent,

The research on which commercial spelling programs base their vocabulary is over forty years old. In an effort to update this research we are gathering samples of stories written by students throughout the country. Your school district is one of only two from your state to be asked to participate in the study. We hope you will participate since it is important that each state be represented.

Papers written by students from grades 1-12 will be included in the computer-based study which will determine the frequency of words used in the compositions. Identity of the students involved is not needed; however, information about grade, gender, and race is requested on individual students as well as information about the school such as estimated socioeconomic level of the patrons.

We would like for one teacher at each grade level (1-12) to be asked to have his/her students write a story on a topic of the student's own choice. This is an activity many teachers already do on a regular basis and since no marking or correcting of the papers is needed, it should take very little time to complete. Specific directions for each teacher are included.

If your district is willing to participate in this study, we will forward a summary of the findings to you. Also, if you or any of your teachers have particular questions, please feel free to contact us. Thank you in advance for your cooperation.

Sincerely,

Linda Higbee Mandlebaum

Linda Higbee Mandlebaum, M.Ed.
Instructor

Gaye McNutt

Gaye McNutt, Ph.D.
Assistant Professor
(405)325-4842

Teacher Directions for Participation
in the Vocabulary Study

The research on which commercial spelling programs base their vocabulary is over forty years old. This study is an attempt to update that research by determining the frequency of words found in students' free writing.

Please do not hesitate to send samples of writing from all of your students regardless of their ability or the quality of their writing. We will not be grading them in any way nor comparing papers from one school with papers from another school. We only want to know what words students are currently using and how frequently those words occur.

If you should have questions regarding any aspect of this study, you can contact us at (405)325-4842 or at the address listed below. Thank you for your help in this study.

Please follow the steps below:

1. Duplicate and send home parental permission forms. Only students with parental permission should participate.
2. Ask your students to write a story about anything they like. Student's own choice of topics is preferred; therefore, use the enclosed list of story starters only in an emergency.
3. Do not mark or correct the papers in any way.
4. Ask students not to put their last names on the papers.
5. Staple one of the enclosed forms to each story and indicate the grade, gender, and race of the author.
6. Compositions from students of all ability levels are needed; therefore, please send stories written by all of your students regardless of the quality of the writing.
7. Forward stories to: Linda Higbee Mandlebaum
College of Education
University of Oklahoma
820 Van Vleet Oval
Norman, OK 73019

Dear Parents:

Our class has been asked to participate in a study to determine what words students use when they write. Each student will write a story on a topic of his/her own choice. Students will not write their names; however, grade level, sex, and race will be indicated on the stories.

Please indicate in the space below whether or not your child has your permission to participate in this study.

_____ Yes, my child may participate in the study.

_____ No, my child may not participate in the study.

(Parental Signature)

(Date)

The following story starters are to be used only when the student is unable to arrive at a topic on his/her own.

1. In 100 years . . .
2. When I have children of my own . . .
3. If I could be anything . . .
4. In my free time . . .
5. The trip I took (or would like to take) . . .
6. I once imagined . . .
7. If I could change people . . .
8. From the top of a tree . . .
9. Late one evening . . .
10. My invention . . .
11. Once upon a time . . .
12. When I'm 21 . . .
13. My favorite time of day . . .
14. I'm always too young . . .
15. The holiday I like best . . .
16. If I could have three wishes . . .
17. Haven't you always wanted to . . .
18. The happiest (or saddest) time . . .
19. I thought I would never . . .
20. With a million dollars . . .
21. Dear Grandma (or other person),
22. Just the other day . . .
23. When school is out . . .
24. My best friend . . .
25. Every once in awhile . . .

Please fill out one of these forms for each class and attach to the papers from the class.

Name of School District _____

City _____ State _____

Which term most accurately describes your school setting: Urban _____

Suburban _____

Rural _____

What would you estimate the socioeconomic level (general income level) of your students' parents to be:

Mostly upper class _____

Upper and middle class _____

Mostly middle class _____

• Middle and lower class _____

Mostly lower class _____

Mixed _____

Cut the sections apart on the solid lines and attach one to each student's story.

Grade _____ Sex: Male <input type="checkbox"/> Female <input type="checkbox"/> Race: White <input type="checkbox"/> Black <input type="checkbox"/> Native American <input type="checkbox"/> Hispanic <input type="checkbox"/> Asian <input type="checkbox"/> Other <input type="checkbox"/>	Grade _____ Sex: Male <input type="checkbox"/> Female <input type="checkbox"/> Race: White <input type="checkbox"/> Black <input type="checkbox"/> Native American <input type="checkbox"/> Hispanic <input type="checkbox"/> Asian <input type="checkbox"/> Other <input type="checkbox"/>	Grade _____ Sex: Male <input type="checkbox"/> Female <input type="checkbox"/> Race: White <input type="checkbox"/> Black <input type="checkbox"/> Native American <input type="checkbox"/> Hispanic <input type="checkbox"/> Asian <input type="checkbox"/> Other <input type="checkbox"/>	Grade _____ Sex: Male <input type="checkbox"/> Female <input type="checkbox"/> Race: White <input type="checkbox"/> Black <input type="checkbox"/> Native American <input type="checkbox"/> Hispanic <input type="checkbox"/> Asian <input type="checkbox"/> Other <input type="checkbox"/>
Grade _____ Sex: Male <input type="checkbox"/> Female <input type="checkbox"/> Race: White <input type="checkbox"/> Black <input type="checkbox"/> Native American <input type="checkbox"/> Hispanic <input type="checkbox"/> Asian <input type="checkbox"/> Other <input type="checkbox"/>	Grade _____ Sex: Male <input type="checkbox"/> Female <input type="checkbox"/> Race: White <input type="checkbox"/> Black <input type="checkbox"/> Native American <input type="checkbox"/> Hispanic <input type="checkbox"/> Asian <input type="checkbox"/> Other <input type="checkbox"/>	Grade _____ Sex: Male <input type="checkbox"/> Female <input type="checkbox"/> Race: White <input type="checkbox"/> Black <input type="checkbox"/> Native American <input type="checkbox"/> Hispanic <input type="checkbox"/> Asian <input type="checkbox"/> Other <input type="checkbox"/>	Grade _____ Sex: Male <input type="checkbox"/> Female <input type="checkbox"/> Race: White <input type="checkbox"/> Black <input type="checkbox"/> Native American <input type="checkbox"/> Hispanic <input type="checkbox"/> Asian <input type="checkbox"/> Other <input type="checkbox"/>

APPENDIX B

DIRECTIONS FOR PROOFREADING STUDENT STORIES

Directions for Proofreading Student Stories

1. Only words which are "real" words will be entered into the computer. The basis for deciding whether or not a word is "real" will be whether or not it is an entry in Webster's Third New International Dictionary of the English Language, Unabridged (1976).

2. Correct words which have been misspelled by writing the correct spelling above the misspelled word. For example: The student wrote, "The dog came running whin I got home from school." Cross out whin by drawing a line through it and write when above it: ~~whin~~.

3. Correct errors in the choice of homonym. For example: The student wrote, "I walked by there house." Cross out there by drawing a line through it and write their above it: ~~there~~.

4. Do not correct errors in grammar including incorrect verb tense. For example: The student wrote, "I saw a elephant." Do not correct a to an. The student wrote, "I seen an elephant." Do not correct seen to saw.

5. Correct nonwords if there is a possible substitution. For example: The student wrote, "I runned away." Cross out runned by drawing a line through it and write ran above it: ~~runned~~. If a possible substitution for the nonword cannot be determined, cross it out by drawing a line through it and do not enter it into the computer. For example: The student wrote: "He ate a zzyfg for dinner." Cross out zzyfg by drawing a line through it and do not enter it into the computer.

6. Correct words spelled according to dialect for entry into the computer and tally these on the tally sheet. For example: The student wrote, "He was eatin' the fried chicken with his fingers." Cross

out eatin' by drawing a line through it and writing eating above it: eating
~~eatin'~~. On the tally sheet in the "Miscellaneous: Dialect Influenced Words" column, write the dialect influenced word, the standard English word which was substituted, and a tally for each occurrence.

7. Correct concatenated words for entry into the computer and tally these on the tally sheet. For example: The student wrote, "I'm gonna do it tomorrow." Cross out gonna by drawing a line through it and writing going to above it: going to
~~gonna~~. On the tally sheet in the "Miscellaneous: Concatenated Words" column, write the concatenated word and a tally for each occurrence.

8. Correct words which are supposed to be written as compound words according to Webster's Third New International Dictionary of the English Language, Unabridged (1976) and which the student did not compound. For example: The student wrote, "We built a dog house." Join the two words in this manner: dog house.

9. Join words as described in number seven which are open compound words (i.e., they must be written together to express an idea). Webster's Third New International Dictionary of the English Language, Unabridged (1976) will be consulted to determine if two or more words are considered an open compound word. For example: nervous breakdown, hermit crab, and cast iron are each two-word enteries which must be written together to express the intended meaning. These terms should be joined as in number seven: nervous breakdown, hermit crab, cast iron. These words are then entered on index cards for ease in alphabetizing. This procedure will allow open compound words to be entered into the computer as single words. They will also appear on the computer print-out

as single words and can be typed with the correct spacing on the final typed list.

10. Cross out all numerals and enter a tally on the tally sheet. This includes numerals by themselves as well as time (4:15), money (\$5), Roman numerals (IV), and fractions ($\frac{1}{2}$). For example: The student wrote, "I earned \$5 for mowing the lawn." Cross out \$5 by drawing a line through it: ~~\$5~~. Then make a tally mark on the tally sheet in the column labeled "Things: Numerals and Letters: Money".

11. Cross out all individual letters and enter a tally on the tally sheet. For example: The student wrote, "I got an "A" on my report card." Cross out A by drawing a line through it: ~~A~~. Then make a tally mark on the tally sheet in the column labeled "Things: Numerals and Letters: Single Letters".

12. Cross out proper nouns (names of people, places, and things) and enter a tally in the proper column on the tally sheet. For example: The student wrote, "My teacher is Miss Caldwell." Cross out Caldwell by drawing a line through it: ~~Caldwell~~. Then enter one tally in the column labeled "People: Real or Plausible Fiction: Last Name Only". Any names that include both first and last names should receive a tally for each name.

13. Cross out sound effects that are not words and enter a tally on the tally sheet. For example: The student wrote, "The owl in the tree went wo-o-o-o-o." Cross out wo-o-o-o-o by drawing a line through it: ~~wo-o-o-o-o~~. Then enter one tally on the tally sheet in the column labeled "Miscellaneous: Sound Effects".

14. Names of days of the week, months of the year, and geographic locations with the status of state or larger will be entered into the computer.

15. All standard abbreviations will be entered into the computer.

16. If two people determine that a word is illegible, cross it out by drawing a line through it; the word will not be entered into the computer.

17. Hyphenated words or words which should be hyphenated will be entered into the computer as a unit if they follow the criteria given by Vivian and Jackson (1961):

Hyphenate two or more words which function together as one adjective modifier of a noun they precede: a well-known theory, an eight-hour day, an up-to-date laboratory, forty-eight end-of-the-month reports.

Hyphenate compound numbers from twenty-one to ninety-nine, inclusive: thirty-three (thirty-third), sixty-two (sixty-second).

Ordinarily hyphenate fractions unless either the numerator or the denominator already contains a hyphen: one-third, five thirty-sixths, twenty-one fortieths.

Hyphenate a compound made up of a prefix and a proper noun or derivative thereof: anti-Asiatic, pro-Canadian, non-European. (p. 383)

18. Ampersands will be crossed out, the word and written above them, and a tally entered on the tally sheet. For example: The student wrote, "My friend & I went to the dance." Cross out the & by drawing a line through it and writing the word and above the ampersand: &. Then enter a tally on the tally sheet in the column labeled, "Miscellaneous: Ampersands".

Reduced Version of the Tally Sheet

PEOPLE						PLACES										THINGS														MISCELLANEOUS					
REAL OR PLAUSIBLE FICTION	FAMOUS CURRENT/ HISTORICAL		GROUPS	COMMERCIAL ESTAB.	NON-COMMER. ESTAB.	TOURIST ATTRACT.	CITIES		SCHOOLS	STREETS	MISC. LOC.	ANIMALS		BOOKS, MAGAZ. NEWSP.	SONGS AND DANCE	MOVIES, TV, PLAYS	TRANSPORTATION	MISC. OBJECT	HOLIDAYS	NUMERALS AND LETTERS				ABBREVIATIONS	SINGLE WORDS	SOUND	EFFECTS	APPENDICES	CONCATENATED WORDS	DIALECT INFLUENCED WORDS					
	FIRST NAME ONLY	LAST NAME ONLY					REAL	IMAG.				REAL	IMAG.																						

APPENDIX C
THE COMPUTER PROGRAM

Program for Total Counts

STATISTICAL ANALYSIS SYSTEM

NOTE: THE JOB LINDA HAS BEEN RUN UNDER RELEASE 79.4B OF SAS AT THE UNIVERSITY OF OKLAHOMA (646).

```

1      DATA A;
2      LENGTH WORD $20;
3      INFILE VWOROS;
4      ID: INPUT/IDEN 1-7 SEX 8 RACE 9 SETG 10 SES 11 W;
5      WD: INPUT WORD : $20.00;
6      OUTPUT;
7      IF WORD='Q0000' THEN GC TC ID; ELSE GO TO W0;

NOTE: INFILE VWOROS IS:
      OSNAME=LINDA.VWOROS,
      UNIT=TAPE,VOL=SER=004068,DISP=OLD,
      DCB=(BLKSIZE=3120,LRECL=80,RECFM=FB)

NOTE: 11456 LINES WERE READ FROM INFILE VWOROS.
NOTE: DATA SET WORK.A HAS 167435 OBSERVATIONS AND 6 VARIABLES. 203 OBS/TRK.
NOTE: THE DATA STATEMENT USED 76.78 SECONDS AND 60K.

8      PROC SORT; BY WORD;

NOTE: DATA SET WORK.A HAS 167435 OBSERVATIONS AND 6 VARIABLES. 203 OBS/TRK.
NOTE: THE PROCEDURE SORT USED 190.97 SECONDS AND 128K.

9      PROC FREQ; TABLES WORD/OUT = G;

NOTE: DATA SET WORK.G HAS 6489 OBSERVATIONS AND 3 VARIABLES. 465 OBS/TRK.
NOTE: THE PROCEDURE FREQ USED 100.47 SECONDS AND 494K AND PRINTED PAGES 1 TO 114.

10     PROC SORT DATA = G; BY PERCENT;

NOTE: DATA SET WORK.G HAS 6489 OBSERVATIONS AND 3 VARIABLES. 465 OBS/TRK.
NOTE: THE PROCEDURE SORT USED 6.04 SECONDS AND 124K.

10     PROC PRINT;

11     PROC SORT; BY IDEN WORD;

NOTE: DATA SET WORK.A HAS 167435 OBSERVATIONS AND 6 VARIABLES. 203 OBS/TRK.
NOTE: THE PROCEDURE SORT USED 159.71 SECONDS AND 129K.

12     PROC FREQ; BY IDEN; TABLES WORD /OUT=B NOPRINT;

NOTE: DATA SET WORK.B HAS 91293 OBSERVATIONS AND 4 VARIABLES. 361 OBS/TRK.
NOTE: THE PROCEDURE FREQ USED 459.00 SECONDS AND 152K.

13     PROC FREQ DATA = B; TABLES WORD/NOPRINT OUT = F;

NOTE: DATA SET WORK.F HAS 6250 OBSERVATIONS AND 3 VARIABLES. 465 OBS/TRK.
NOTE: THE PROCEDURE FREQ USED 43.99 SECONDS AND 430K.

14     PROC SORT DATA = F; BY PERCENT;

NOTE: DATA SET WORK.F HAS 6250 OBSERVATIONS AND 3 VARIABLES. 465 OBS/TRK.
NOTE: THE PROCEDURE SORT USED 5.78 SECONDS AND 128K.

14     PROC PRINT;

NOTE: THE PROCEDURE PRINT USED 20.65 SECONDS AND 104K AND PRINTED PAGES 1 TO 112.

NOTE: SAS USED 480K MEMORY.

NOTE: SAS INSTITUTE INC.
      SAS CIRCLE
      BOX 8000
      CARY, N.C. 27511

```

Program for Individual Grade Counts

S T A T I S T I C A L A N A L Y S I S S Y S T E M

NOTE: THE JOB LINDA HAS BEEN RUN UNDER RELEASE 79.4E OF SAS AT THE UNIVERSITY OF OKLAHOMA (646).

```

1      DATA A;
2      LENGTH WORD $20;
3      INFILE VWOROS;
4      ID= INPUT/SCHO 1-3 GRADE 4-5 SNC 6-7 SEX 8 RACE 9 SETG 10 SES 11 2;
5      WD= INPUT WORD : $20.@@;
6      OUTPUT;
7      IF WORD='00000' THEN GO TO ID; ELSE GO TO WD;

```

NOTE: INFILE VWOROS IS:
 USNAME=LINDA.VWOROS.
 UNIT=TAPE,VCL=SEN=004068,DISP=OLD.
 DCB=(BLKSIZE=3120,LRECL=80,RECFM=FB)

NOTE: 11456 LINES WERE READ FROM INFILE VWOROS.
 NOTE: DATA SET WORK.A HAS 167435 OBSERVATIONS AND 8 VARIABLES. 162 OBS/TRK.
 NOTE: THE DATA STATEMENT USED 79.35 SECONDS AND 60K.

8 PROC SORT DATA=A; BY GRADE SCHO SNC;

NOTE: DATA SET WORK.A HAS 167435 OBSERVATIONS AND 8 VARIABLES. 162 OBS/TRK.
 NOTE: THE PROCEDURE SORT USED 172.29 SECONDS AND 132K.

9 PROC FREQ; BY GRADE SCHO SNC; TABLES WORD/CUT=B NOPRINT;

NOTE: DATA SET WORK.E HAS 91326 OBSERVATIONS AND 6 VARIABLES. 250 OBS/TRK.
 NOTE: THE PROCEDURE FREQ USED 468.11 SECONDS AND 156K.

10 PROC FREQ DATA = B; BY GRADE; TABLES WORD/NOPRINT CUT = F;

NOTE: DATA SET WORK.F HAS 14556 OBSERVATIONS AND 4 VARIABLES. 361 OBS/TRK.
 NOTE: THE PROCEDURE FREQ USED 56.89 SECONDS AND 350K.

11 PROC SORT DATA = F; BY GRADE PERCENT;

NOTE: DATA SET WORK.F HAS 14556 OBSERVATIONS AND 4 VARIABLES. 361 OBS/TRK.
 NOTE: THE PROCEDURE SORT USED 12.83 SECONDS AND 132K.

11 PROC PRINT; BY GRADE;

NOTE: THE PROCEDURE PRINT USED 58.71 SECONDS AND 106K AND PRINTED PAGES 1 TO 271.

12 PROC SORT DATA=A; BY GRADE WORD;

NOTE: DATA SET WORK.A HAS 167435 OBSERVATIONS AND 8 VARIABLES. 162 OBS/TRK.
 NOTE: THE PROCEDURE SORT USED 187.31 SECONDS AND 132K.

13 PROC FREQ; BY GRADE; TABLES WORD/CUT=H LIST NOROW NOCOL NOPERCENT NOPRINT;

NOTE: DATA SET WORK.H HAS 14799 OBSERVATIONS AND 4 VARIABLES. 361 OBS/TRK.
 NOTE: THE PROCEDURE FREQ USED 96.73 SECONDS AND 356K.

14 PROC SORT DATA=H; BY GRADE WORD;

NOTE: DATA SET WORK.H HAS 14799 OBSERVATIONS AND 4 VARIABLES. 361 OBS/TRK.
 NOTE: THE PROCEDURE SORT USED 12.63 SECONDS AND 132K.

15 PROC PRINT; BY GRADE;

NOTE: THE PROCEDURE PRINT USED 64.11 SECONDS AND 108K AND PRINTED PAGES 272 TO 546.

NOTE: SAS USED 356K MEMORY.

NOTE: SAS INSTITUTE INC.
 SAS CIRCLE
 BOX 5000
 CARY, N.C. 27511

Program for Descriptive Information

STATISTICAL ANALYSIS SYSTEM

NOTE: THE JOB LINDA HAS BEEN RUN UNDER RELEASE 79.48 OF SAS AT THE UNIVERSITY OF OKLAHOMA (646).

```

1 DATA A;
2 INFILE VWORDS;
3 IDL INPUT/SCHU 1=1 GRADE 4=5 SNU 6=7 SEX 8 RACE 9 SEIG 10 SES 11 P;
4 DO INPUT WORD 1-120;
5 IF WORD=10000 THEN GO TO NO; ELSE GO TO NO;
6 NO: OUTPUT; GO TO IDL;

```

NOTE: INFILE VWORDS IS
DSNAME=LINDA.VWORDS,
UNIT=TAPE,VOL=SER=000000,DISP=OLD,
DCB=(BLKSIZE=3120,RECFM=AV,RECFM=FB)

HULL: 1234567 101234567 201234567 301234567 401234567 501234567 601234567 701234567 80

11450 KIDS DO THAT THEY WILL HAVE A GOOD EDUCATION THE END BY WGGGG
SCHU=14 GRADE=0 SNU=24 SEX=2 RACE=2 SEIG=1 SES=4 WORD=00000 ERROR=1 N=1
NOTE: SAS WENT TO A NEW LINE WHEN INPUT STATEMENT
REACHED PAST THE END OF A LINE

NOTE: 11450 LINES WERE READ FROM INFILE VWORDS.
NOTE: DATA SET WORK.A HAS 1000 OBSERVATIONS AND 8 VARIABLES. 162 OBS/TRK.
NOTE: THE DATA STATEMENT USED 47.36 SECONDS AND 0.00 K.

7 PROC SORT; BY GRADE;

NOTE: DATA SET WORK.A HAS 1000 OBSERVATIONS AND 8 VARIABLES. 162 OBS/TRK.
NOTE: THE PROCEDURE SORT USED 2.00 SECONDS AND 128K.

8 PROC FREQ; BY GRADE; TABLES SEX*RACE;

NOTE: THE PROCEDURE FREQ USED 3.16 SECONDS AND 128K AND PRINTED PAGES 1 TO 9.

NOTE: SAS USED 128K MEMORY.

APPENDIX D
WORDS COMMON TO ALL GRADE LEVEL LISTS

When the 100 most frequently used words at each grade level (1-6) in this study were compared with equivalent lists from Rinsland's study, the following 47 words appeared in all 12 lists.

a	home	that
all	I	the
and	in	then
are	is	there
at	it	they
be	like	time
but	me	to
do	my	up
for	not	was
go	of	we
going	on	went
got	one	when
had	out	will
have	see	with
he	she	you
her	some	

The following 10 words appeared in 11 of the 12 lists.

day	little	them
get	school	this
him	so	very
his		

APPENDIX E
COMPLETE LIST OF WORDS ENTERED
INTO THE COMPUTER

Complete List of Words Entered into the Computer

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
A	294	905	730	1,065	1,081	1,436	5,511	air pressure							
A-frame		1			2	3	3	Alabama					3	1	4
abandon				2	1		3	alarm					2	1	3
abandoned				2		3	5	alarm clock				1			1
ability						2	2	Alaska					2		2
able			1	3	6	8	18	Alaskan						1	1
aboard					1	2	4	album				1			1
about	9	35	46	71	118	155	433	albums				1			1
above			2	2	1	1	6	alert		1			1	1	3
abracadabra						1	1	alien					1		1
absolutely					2		2	aliens					1		1
accent					1		1	alive		3			5	4	15
accept					2		2	all	20	80	118	195	180	281	874
accessories					1		1	alley				2	1	4	7
accident				2	2	1	5	alley cats				1			1
accidentally				2	1	4	7	alligator's					1		1
accidents					2		2	alligators		1			1		2
accomplish					1		1	allow					1		1
accomplished					1		1	allowance			1			1	2
accurate					1		1	allowed				1		1	3
accused				1			1	all right				2	7	7	16
ace						1	1	almost		6	9	17	19	29	80
aching					2		2	alone	1		6	4	9	11	32
acid						2	2	along		3	5	5	13	15	41
acorns					1		1	already			5	5	5	12	23
acquainted						1	1	also	3	5	9	14	36	69	136
acres						1	1	altered						1	1
acrobats	1			2			2	although				1			1
across				4	10	9	12	altogether						2	2
act					2	3	3	always		4	8	19	27	38	131
acted				1		1	2	am	16	25	45	27	55	45	213
acting					1		1	amazed					1	2	3
action						1	1	amazement				2	1	1	4
activities						1	1	amazing						1	1
activity	2				1		3	ambulance					3	1	6
actor			1	1			2	amen			2		1		3
acts						2	2	America			1		1		1
actual					1		1	America's					1	4	5
ad					1		1	American							1
add				1			1	ammo				1		1	2
added						1	2	among					1	1	2
address			1		1		2	amusement park			1				1
addressed				1			1	an	3	2	20	34	53	55	167
adjustments		1					1	ancestor				1			1
admits						1	1	ancestors				2			2
adobe							1	anchor						1	1
adopt			1				1	anchors							1
adopted						1	1	and	398	883	1,079	1,467	1,565	1,919	7,311
adore						1	1	angels	1				4		5
adult					1		1	angry		9		1	1	2	13
adults					2	2	4	animal		2	3	13	8	4	30
advanced				1			1	animals	3	4	4	37	12	28	88
adventure		1	6	2	2	4	15	ankle					3	2	5
adventures			2	1		1	4	ankles				1			1
advertised	1						1	announce					1		1
advise				1			1	announces						1	1
aerial			2	2			4	annoyed						1	1
afford			1		1	2	4	annoying							1
Afghan bound					1		1	another	1	3	6	32	20	28	90
Afghanistan					1		1	answer			1		4	3	8
afraid	1	1		10	7	4	23	answered			3	9	5	5	22
Africa				1	1		2	answers			1		7	2	10
after	5	21	37	65	68	99	295	ant				1			1
afternoon	1	2	1	2	2	10	18	antelope						2	2
again	3	3	35	33	34	60	173	antigravity					2		2
against		2	1	3	6	3	15	antique					1		1
age			2	3	2	4	11	antlers						1	1
agency					1		1	antonym						2	2
agent					3		3	antonyms				2		2	6
ages			1				1	ants					2		2
ago	1	7	6	8	17	9	48	anvil		7	7	23	19	38	94
agreed		1			3		7	any		1	3	2	1	3	10
ah				3			3	anybody						2	2
ahead		1	3	11	1	7	23	anywhere			1	7	5	9	22
side		1					1	anything	2	6	11	16	10	38	83
aides				1			1	anytime				2	1	1	4
aim					1		1	anyway			2		7	5	16
aimed					1	1	2	anywhere		1	1			4	8
aiming					1		1	apart				2	1	1	6
ain't			1	1	2		4	apartment			1			4	7
air		1	2	7		12	31	apartment building					1		1
airborne						2	2	apartments						2	2
air conditioner					1		1	ape		1					1
air conditioners							1	apiece				1	1		2
air conditioning							1	apologize		1					1
aircraft			1				1	apologized						1	1
aircraft carrier					1		1	apparent						1	1
aircrafts			1			1	2	appealing						1	1
air force				2			2	appear						1	1
airlines						1	1	appeared			1	3	1	2	7
airplane	4	2	2	2	1		13	applaud						1	1
airplanes		1	1	2			4	apple		5	3	12	1	1	22
air pocket					1		1	apples			5	1			6
airport				2	2	5	9	appliances					1		1
								appointment						1	1

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
appreciate			1				1	awarded						1	1
appreciated					1		1	away	3	24	17	34	38	17	133
approached						1	1	awesomeness						2	2
approaching						1	1	awful				4		2	6
approve						1	1	awfully		1					1
April	1		1	2	3	4	11	awhile			9	6	17	9	41
aqua					2		2	awoke		1				1	2
aquarium					1		1	axe/axe			1	1	3	1	6
aquariums					1		1	babies			1	1	3	5	5
architect						1	1	baby	5	3	18	15	22	6	69
Arctic Circle			2				2	baby-sit					3	3	3
area	15	105	78	102	148	144	622	baby-sitter				1	2	1	4
area's			1	1	1	3	5	baby-sitter's						1	1
arena't				3		1	4	baby-sitting				4	1	1	6
arena					1		1	baby's						1	1
argue			1		1	2	4	back	3	40	74	90	97	107	413
argued						1	1	backed		1				1	2
arguing			1		1	1	3	backflip						1	1
argument						2	2	backs						4	4
arguments						3	3	backstage				1		1	1
Arizona		1			2	2	5	back track				1		1	1
ark				1			1	backward			1	20	1	2	23
Arkansas			2			2	4	backwards			1	3	7	4	16
arm			9	2	3	3	22	backyard		1	1			1	1
armed					1		1	backyards						1	1
armor				2		1	3	bad	6	7	4	13	16	24	70
arms			1	4	4	3	12	baddest			1			1	1
army			4	3	4	3	14	badge						1	2
around	3	13	24	48	51	89	228	badly			1			1	1
arranged		1					1	baffled					1	1	1
arrested			1	1			2	bag		1			1	2	5
arrived			1		2	4	7	bagged				1		1	1
arriving				1			1	bage		1	1			7	9
arrogant						1	1	ball						1	1
arrow					4		4	baile					1	4	5
art				2	4	4	10	baked						1	1
artist				2			2	bakes						1	1
as	2	9	32	67	79	129	318	balance				2	1	3	3
ashamed				1			1	balancing			1				1
ashore						1	1	balld-headed				1			1
ask		9	12	14	14	18	67	balld eagle						1	1
asked		4	19	50	59	50	182	balls			1			1	1
asking			3	1	3		7	baller	1	19	10	8	10	31	79
asks	1						1	ball game						1	1
asleep		7	4	9	7	13	40	ballistic missile			2				2
assembled			1				1	balloon		1				6	3
assist						1	1	ball part					1	2	2
assistance						1	1	ballplayer						1	1
assistant						1	1	balls				1	1	3	5
assists								baloney						6	6
assuming				1			1	banana				1			1
asthmatic								bananas			1				1
astonished						2	2	band			2			1	3
astounded					1		1	bandage				5			5
astronaut			3			1	4	bandit			2				2
astronauts				2	2		1	bang		1		2	3	1	7
astroonomer						1	1	banister				4	2	7	10
astroonomers						1	1	bank						1	1
astroonomy						1	1	banker	1						1
at	25	65	73	129	142	187	622	bank robbers						1	1
ata	10	11	14	19	15	18	87	banks				1			1
Atlantic				1	1	2	1	baptism				4			4
Atlantic Ocean		1				1	1	bar				4	1	3	11
atom bomb								barbershop					1	1	1
atomic				1			3	bare				1		1	2
attached		1	1	2			5	barefooted	1						1
attack			1	1			1	barely			1	2			3
attacked							1	bases		1					1
attacking				4			2	base							1
attend			1	3	3	1	3	basef						1	1
attention							1	basek				1	1	1	2
attract							1	basek							1
attractive				1			1	basek							1
audience				2		1	3	basek	1			1	1	2	5
auditorium					2	1	3	basek		1		1		1	3
August				1	4	4	9	barn	3	3	4	3	6	5	24
aunt		3	1	5	2	8	9	barnyard						1	1
aunt's				1		1	2	barracuda				1			1
aunts				1		2	3	barracks						2	2
Australian								barricade							1
Austria						1	1	barricade		2			3	1	7
author						2	2	base			1	1	1	1	4
auto								baseball	6	9	18	18	29	22	102
autographs			1				1	based					1	1	2
available						1	1	baseball						1	1
avalanche						1	1	baseball						1	1
average					1		1	baseball		3	1	4	2	10	10
averages						1	1	baseball				1	1	2	4
avoid						1	1	baseball						1	1
av					1		1	baseball	1		1	1	1	2	6
avake			1			1	2	baseball	1	1		4	7	17	30
avaken						1	1	baseball							1
avakened				3			3	baseball						6	6
avakening						1	1	baseball	1		1	1	3	7	13
avard				1			1	baseball			1	2	2	4	9

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
baching						1	1	beside			2	2	7	3	14
baching suite				1			1	besides	1		1	1		2	5
bathroom		2		1	4		7	best	16	45	28	10	16	62	237
bathrooms			1	1	1	1	4	bet		2	1	2	2	3	10
baths		2		1			3	betrays							1
bathos					1		1	better	2	3	8	15	14	23	65
bats					2		2	betting						1	1
batted				1	2	2	5	between						1	5
batter					2	6	8	bewares						1	1
batter's					1		1	bewitched			1				1
batteries					1		1	beyond						1	1
batters					2	1	3	bicycle					7		7
battery					1		1	bicycles					4		4
battling					1		1	bicycling					1		1
battling average					1		1	bid				3			3
battle					4	1	5	big	10	24	48	58	67	67	274
battleship				1			1	bigger		3	4	6	9		27
battleships					1		1	biggest		2	2	2		4	10
battling				2			2	big shot						1	1
bawl	1						1	bike	10	25	19	9	19	7	99
bawling						1	1	bikes	2	3	8	1	10	1	25
BB gun						2	2	biking					3		3
be	10	71	125	120	167	276	789	bill				1			1
beach	6	12	5	9	25	2	59	billion							2
beaches			1		1	1	3	billions				1			1
beady					1		1	billie		3			2	3	8
beagles						2	2	bing						2	2
beak						1	1	bingo						1	1
beaks					1		1	biotic							1
beam				1		2	3	bird	3	3	7	18	13	11	55
bean			2				2	bird dog			1				1
beambag				1	1	1	3	birdhouse				3			3
beans		2		1	1	1	4	birds	3	4	6	18	10	11	52
beams			6				6	birdseed				1			1
beams							19	birth						4	4
beast	1	4	7	10	8	9	39	birthday	7	4	8	20	5	7	51
beard					1		1	birthdays					2		2
bears		1	2				3	biscuit					1		1
beast		5	2	1	2		15	bit	2	5	8	6	6	8	35
beaten						3	3	bite	3	7	5	1	1	2	19
battering					1	1	2	bites	1	1			1		3
batts						2	2	biting			4				4
beat up							54	bitter						1	1
beautiful	2	2	9	19	16	16	64	bitterly					1		1
beauty			1				1	black	11	9	15	9	21	24	99
beauty contest					1		1	blackened					1		1
beauty contests						1	1	black hole				3			3
beauty shop						1	1	blacksmith				1			1
became			3	4	6	9	22	blades				33		1	34
because	21	44	65	89	142	151	512	blades			1	1			2
becomes		2	1		1	11	15	blame					1		1
becoming					1		1	blank							1
bed	6	17	16	25	32	28	125	blanket					3		3
bedding					1		1	blankets			1	1	1	1	4
bedroom	1	2	4	2	4		13	blast					1		1
bedrooms					2	2	4	blasted	1				1	1	3
beds	1			2	2		5	blast off		1		1		8	10
bee			2	4	1	2	9	bleachers					1		1
bee's			1				1	bleed						1	1
beef		1					1	bleeding		2		2		1	4
beehive			2				2	blow		2	5		4	2	13
been	1		18	19	22	36	96	blind						7	7
beep				3	3		6	blinded						1	1
beer				2	1		3	blindfold					1		1
beers						1	1	blink				1		1	2
bees		2		1	2		5	blinked			1		1		2
beetles					1	1	2	blinking						1	1
before	2	7	8	22	28	34	101	blizzard						1	1
beg			1	1	1	1	4	blocks		5			4		7
began	1		4	8	2	8	23	blond	3	1	1		4	2	11
beginning			1		1		2	blondish				1			1
begins		1		2	1	1	4	blood			1	18	4		23
begun					1	1	2	bloody		2		5		1	8
behind		4	4	21	10	22	61	bloom	1		2		1		5
beige					1		1	blouses						1	1
being		2	5	6	12	28	53	blow	1			1		3	5
believe			3	11	7	15	36	blowing			1		1	1	4
believed			1	2	1		4	blown				1		1	2
bell		1	2	1		1	5	blows							2
bells				2			2	blow up	4	6	2	5	9	15	41
belly		1					3	blue							1
belly dancer				1			1	bluebird						1	1
belong					1	1	2	bluebirds						1	1
belonged		1			1	1	3	blue jays						1	1
below					2		2	blue jeans		2		2		1	4
belts				1			1	blue whale							1
bench					1	1	2	bluish	2						2
benches					1	1	2	blurred			2			1	3
bending					1	1	2	board	2		2	2	2	1	9
bengal tiger				1			1	boards		1				1	2
bent					1		1	boars						1	1
berries		1			1	2	3	boat	2	8	2	12	18	14	56
								boating					1		1

[illegible]

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
bused		3				1	4	carefully		2					2
busy			1	1	10	3	15	careless						3	3
buc	24	91	125	237	218	303	1,018	cares						3	3
butcher				1	1		2	caring				1	1	1	3
butcher knife				11			11	carnival		1	4				5
butler						1	1	carnivals				1			1
butlers						2	2	carpenter					2		2
bute						3	3	carpenters					1		1
butted						1	1	carpet					2	2	4
butter	1					1	2	carpeted						1	1
butterflies					2	3	5	car pool				2			2
butterfly	3		2			1	6	carried			1	2		4	7
button	1		1	3	2	2	9	carrier					1		1
buttons		1		1	1		3	carries							1
butta	1						1	carrot					1		1
buy	15	32	11	17	32	57	164	carrots							5
buying						2	2	carry		1	1	1	2	3	6
buys				1			1	carrying			2			1	3
buzzed						1	1	cars	1	12	6	13	11	16	60
buzzer						1	1	carc						1	1
buzzing								cartoon							1
by	32	40	66	62	99	137	436	cartoons				2			2
bye	1	5	6	4	2	9	27	cartwheels							1
bye-bye		3		1	2		6	car wash						1	1
cab						1	1	cass		2	4	1	3	7	17
cabbage						1	1	cases			1			1	2
cabins	1	1	7	7	9	1	26	cash		1			1		2
cable						1	1	casino				1			1
cactus						2	2	cast				3	1	3	7
cafeteria						4	4	casia	2	11	1	47	2	17	80
cage	1		2	2	7	7	19	casles							1
cake	1		2	2	1	1	7	casually							1
cakes						2	2	car	35	34	17	25	33	26	170
calendar						1	1	car's							1
calif	2			1		7	10	catch	7	3	6	13	7	15	51
California								catcher							7
call	3	5	1	2	11	12	26	catches							3
called						21	62	catching			1	4	3	2	10
calling	1	13	12	34	31	38	128	catachism		1					1
calls				1		3	3	caterpillar							3
calm						2	2	caterpillars							1
calmed				1	1	1	3	catfish				1			1
calmly						1	1	cats	4	11	2	20	7	18	62
calms						1	1	catle							1
calories						1	1	caught		14	17	21	12	19	83
calves	4			1	1		6	cause							2
Cambodia								caused							1
case	7	56	77	117	101	99	437	causing						1	2
camel		1					1	cautious				1			1
camels	1						1	cautiously							1
camera						1	1	cave		3	2	11	3	6	25
cameras						2	2	caved							1
camp			1	6	2	12	11	cavemen				1			1
camp-out							2	caves							1
camped				1	2		3	cavities				2	1		3
camper						1	1	cavity					2		2
campfire						1	1	CB		1		3		1	5
campgrounds						1	1	cedar					2		2
camping		1	2	1	5	1	17	ceiling						2	4
can	30	49	30	55	84	92	340	celebrate				1			1
can't	5	5	15	16	23	29	93	celebrated							1
Canada						3	7	celebration						2	3
Canadians						1	1	cell							1
cancer						3	3	cellophane							1
candle						1	1	cement							1
candles						1	1	cemetery			2		2		4
candy	6	6	1	3	3	10	29	centavos	1						1
cannons						3	3	center	2			3	1	2	8
cannot	6	3	3	1			13	center field				1			2
canoe	2						2	center fielder							1
canoeing						1	1	cents				1			1
canoes						1	1	centurias							1
cans	1	1				3	5	century				1	6	3	10
canter						1	1	cereal							3
canyon						1	1	certain				1		2	3
cap						1	1	certainly							1
cape						1	1	chain							1
cape buffalo						1	1	chain-smoking							1
capital						2	2	chained				1			1
capital						2	2	chains							1
captain	1		1				2	chair		7	2		4	3	20
captivity				5	5	4	14	chairs		3		1	3	3	10
capture						1	1	chalkboard	2						2
captured						1	1	chalked							1
car	27	24	19	33	35	48	186	challenges				1			1
caracals						1	1	champion				1	1		2
carac						1	1	champions							1
carbohydrate						1	1	championship				2			2
card						1	1	championships						1	1
cardinal	2						2	chasse				1		2	3
cards		1	2	2	4		9	chance				1	1	8	10
care	2	4	11	9	7	7	40	change		2	1	5	7	10	25
careed							1	changed	2		1	6			12
career						6	6	changes							2
careful		2	2		2		6	changing					2	1	3
								characterized							1

Word	7/1	2/1	2/2	3/1	4/1	5/1	5/2	6/1	6/2	7/1	7/2	8/1	8/2	9/1	9/2	10/1	10/2	11/1	11/2	12/1	12/2	13/1	13/2	14/1	14/2	15/1	15/2	16/1	16/2	17/1	17/2	18/1	18/2	19/1	19/2	20/1	20/2	21/1	21/2	22/1	22/2	23/1	23/2	24/1	24/2	25/1	25/2	26/1	26/2	27/1	27/2	28/1	28/2	29/1	29/2	30/1	30/2	31/1	31/2	32/1	32/2	33/1	33/2	34/1	34/2	35/1	35/2	36/1	36/2	37/1	37/2	38/1	38/2	39/1	39/2	40/1	40/2	41/1	41/2	42/1	42/2	43/1	43/2	44/1	44/2	45/1	45/2	46/1	46/2	47/1	47/2	48/1	48/2	49/1	49/2	50/1	50/2	51/1	51/2	52/1	52/2	53/1	53/2	54/1	54/2	55/1	55/2	56/1	56/2	57/1	57/2	58/1	58/2	59/1	59/2	60/1	60/2	61/1	61/2	62/1	62/2	63/1	63/2	64/1	64/2	65/1	65/2	66/1	66/2	67/1	67/2	68/1	68/2	69/1	69/2	70/1	70/2	71/1	71/2	72/1	72/2	73/1	73/2	74/1	74/2	75/1	75/2	76/1	76/2	77/1	77/2	78/1	78/2	79/1	79/2	80/1	80/2	81/1	81/2	82/1	82/2	83/1	83/2	84/1	84/2	85/1	85/2	86/1	86/2	87/1	87/2	88/1	88/2	89/1	89/2	90/1	90/2	91/1	91/2	92/1	92/2	93/1	93/2	94/1	94/2	95/1	95/2	96/1	96/2	97/1	97/2	98/1	98/2	99/1	99/2	100/1	100/2	101/1	101/2	102/1	102/2	103/1	103/2	104/1	104/2	105/1	105/2	106/1	106/2	107/1	107/2	108/1	108/2	109/1	109/2	110/1	110/2	111/1	111/2	112/1	112/2	113/1	113/2	114/1	114/2	115/1	115/2	116/1	116/2	117/1	117/2	118/1	118/2	119/1	119/2	120/1	120/2	121/1	121/2	122/1	122/2	123/1	123/2	124/1	124/2	125/1	125/2	126/1	126/2	127/1	127/2	128/1	128/2	129/1	129/2	130/1	130/2	131/1	131/2	132/1	132/2	133/1	133/2	134/1	134/2	135/1	135/2	136/1	136/2	137/1	137/2	138/1	138/2	139/1	139/2	140/1	140/2	141/1	141/2	142/1	142/2	143/1	143/2	144/1	144/2	145/1	145/2	146/1	146/2	147/1	147/2	148/1	148/2	149/1	149/2	150/1	150/2	151/1	151/2	152/1	152/2	153/1	153/2	154/1	154/2	155/1	155/2	156/1	156/2	157/1	157/2	158/1	158/2	159/1	159/2	160/1	160/2	161/1	161/2	162/1	162/2	163/1	163/2	164/1	164/2	165/1	165/2	166/1	166/2	167/1	167/2	168/1	168/2	169/1	169/2	170/1	170/2	171/1	171/2	172/1	172/2	173/1	173/2	174/1	174/2	175/1	175/2	176/1	176/2	177/1	177/2	178/1	178/2	179/1	179/2	180/1	180/2	181/1	181/2	182/1	182/2	183/1	183/2	184/1	184/2	185/1	185/2	186/1	186/2	187/1	187/2	188/1	188/2	189/1	189/2	190/1	190/2	191/1	191/2	192/1	192/2	193/1	193/2	194/1	194/2	195/1	195/2	196/1	196/2	197/1	197/2	198/1	198/2	199/1	199/2	200/1	200/2	201/1	201/2	202/1	202/2	203/1	203/2	204/1	204/2	205/1	205/2	206/1	206/2	207/1	207/2	208/1	208/2	209/1	209/2	210/1	210/2	211/1	211/2	212/1	212/2	213/1	213/2	214/1	214/2	215/1	215/2	216/1	216/2	217/1	217/2	218/1	218/2	219/1	219/2	220/1	220/2	221/1	221/2	222/1	222/2	223/1	223/2	224/1	224/2	225/1	225/2	226/1	226/2	227/1	227/2	228/1	228/2	229/1	229/2	230/1	230/2	231/1	231/2	232/1	232/2	233/1	233/2	234/1	234/2	235/1	235/2	236/1	236/2	237/1	237/2	238/1	238/2	239/1	239/2	240/1	240/2	241/1	241/2	242/1	242/2	243/1	243/2	244/1	244/2	245/1	245/2	246/1	246/2	247/1	247/2	248/1	248/2	249/1	249/2	250/1	250/2	251/1	251/2	252/1	252/2	253/1	253/2	254/1	254/2	255/1	255/2	256/1	256/2	257/1	257/2	258/1	258/2	259/1	259/2	260/1	260/2	261/1	261/2	262/1	262/2	263/1	263/2	264/1	264/2	265/1	265/2	266/1	266/2	267/1	267/2	268/1	268/2	269/1	269/2	270/1	270/2	271/1	271/2	272/1	272/2	273/1	273/2	274/1	274/2	275/1	275/2	276/1	276/2	277/1	277/2	278/1	278/2	279/1	279/2	280/1	280/2	281/1	281/2	282/1	282/2	283/1	283/2	284/1	284/2	285/1	285/2	286/1	286/2	287/1	287/2	288/1	288/2	289/1	289/2	290/1	290/2	291/1	291/2	292/1	292/2	293/1	293/2	294/1	294/2	295/1	295/2	296/1	296/2	297/1	297/2	298/1	298/2	299/1	299/2	300/1	300/2	301/1	301/2	302/1	302/2	303/1	303/2	304/1	304/2	305/1	305/2	306/1	306/2	307/1	307/2	308/1	308/2	309/1	309/2	310/1	310/2	311/1	311/2	312/1	312/2	313/1	313/2	314/1	314/2	315/1	315/2	316/1	316/2	317/1	317/2	318/1	318/2	319/1	319/2	320/1	320/2	321/1	321/2	322/1	322/2	323/1	323/2	324/1	324/2	325/1	325/2	326/1	326/2	327/1	327/2	328/1	328/2	329/1	329/2	330/1	330/2	331/1	331/2	332/1	332/2	333/1	333/2	334/1	334/2	335/1	335/2	336/1	336/2	337/1	337/2	338/1	338/2	339/1	339/2	340/1	340/2	341/1	341/2	342/1	342/2	343/1	343/2	344/1	344/2	345/1	345/2	346/1	346/2	347/1	347/2	348/1	348/2	349/1	349/2	350/1	350/2	351/1	351/2	352/1	352/2	353/1	353/2	354/1	354/2	355/1	355/2	356/1	356/2	357/1	357/2	358/1	358/2	359/1	359/2	360/1	360/2	361/1	361/2	362/1	362/2	363/1	363/2	364/1	364/2	365/1	365/2	366/1	366/2	367/1	367/2	368/1	368/2	369/1	369/2	370/1	370/2	371/1	371/2	372/1	372/2	373/1	373/2	374/1	374/2	375/1	375/2	376/1	376/2	377/1	377/2	378/1	378/2	379/1	379/2	380/1	380/2	381/1	381/2	382/1	382/2	383/1	383/2	384/1	384/2	385/1	385/2	386/1	386/2	387/1	387/2	388/1	388/2	389/1	389/2	390/1	390/2	391/1	391/2	392/1	392/2	393/1	393/2	394/1	394/2	395/1	395/2	396/1	396/2	397/1	397/2	398/1	398/2	399/1	399/2	400/1	400/2	401/1	401/2	402/1	402/2	403/1	403/2	404/1	404/2	405/1	405/2	406/1	406/2	407/1	407/2	408/1	408/2	409/1	409/2	410/1	410/2	411/1	411/2	412/1	412/2	413/1	413/2	414/1	414/2	415/1	415/2	416/1	416/2	417/1	417/2	418/1	418/2	419/1	419/2	420/1	420/2	421/1	421/2	422/1	422/2	423/1	423/2	424/1	424/2	425/1	425/2	426/1	426/2	427/1	427/2	428/1	428/2	429/1	429/2	430/1	430/2	431/1	431/2	432/1	432/2	433/1	433/2	434/1	434/2	435/1	435/2	436/1	436/2	437/1	437/2	438/1	438/2	439/1	439/2	440/1	440/2	441/1	441/2	442/1	442/2	443/1	443/2	444/1	444/2	445/1	445/2	446/1	446/2	447/1	447/2	448/1	448/2	449/1	449/2	450/1	450/2	451/1	451/2	452/1	452/2	453/1	453/2	454/1	454/2	455/1	455/2	456/1	456/2	457/1	457/2	458/1	458/2	459/1	459/2	460/1	460/2	461/1	461/2	462/1	462/2	463/1	463/2	464/1	464/2	465/1	465/2	466/1	466/2	467/1	467/2	468/1	468/2	469/1	469/2	470/1	470/2	471/1	471/2	472/1	472/2	473/1	473/2	474/1	474/2	475/1	475/2	476/1	476/2	477/1	477/2	478/1	478/2	479/1	479/2	480/1	480/2	481/1	481/2	482/1	482/2	483/1	483/2	484/1	484/2	485/1	485/2	486/1	486/2	487/1	487/2	488/1	488/2	489/1	489/2	490/1	490/2	491/1	491/2	492/1	492/2	493/1	493/2	494/1	494/2	495/1	495/2	496/1	496/2	497/1	497/2	498/1	498/2	499/1	499/2	500/1	500/2	501/1	501/2	502/1	502/2	503/1	503/2	504/1	504/2	505/1	505/2	506/1	506/2	507/1	507/2	508/1	508/2	509/1	509/2	510/1	510/2	511/1	511/2	512/1	512/2	513/1	513/2	514/1	514/2	515/1	515/2	516/1	516/2	517/1	517/2	518/1	518/2	519/1	519/2	520/1	520/2	521/1	521/2	522/1	522/2	523/1	523/2	524/1	524/2	525/1	525/2	526/1	526/2	527/1	527/2	528/1	528/2	529/1	529/2	530/1	530/2	531/1	531/2	532/1	532/2	533/1	533/2	534/1	534/2	535/1	535/2	536/1	536/2	537/1	537/2	538/1	538/2	539/1	539/2	540/1	540/2	541/1	541/2	542/1	542/2	543/1	543/2	544/1	544/2	545/1	545/2	546/1	546/2	547/1	547/2	548/1	548/2	549/1	549/2	550/1	550/2	551/1	551/2	552/1	552/2	553/1	553/2	554/1	554/2	555/1	555/2	556/1	556/2	557/1	557/2	558/1	558/2	559/1	559/2	560/1	560/2	561/1	561/2	562/1	562/2	563/1	563/2	564/1	564/2	565/1	565/2	566/1	566/2	567/1	567/2	568/1	568/2	569/1	569/2	570/1	570/2	571/1	571/2	572/1	572/2	573/1	573/2	574/1	574/2	575/1	575/2	576/1	576/2	577/1	577/2	578/1	578/2	579/1	579/2	580/1	580/2	581/1	581/2	582/1	582/2	583/1	583/2	584/1	584/2	585/1	585/2	586/1	586/2	587/1	587/2	588/1	588/2	589/1	589/2	590/1	590/2	591/1	591/2	592/1	592/2	593/1	593/2	594/1	594/2	595/1	595/2	596/1	596/2	597/1	597/2	598/1	598/2	599/1	599/2	600/1	600/2	601/1	601/2	602/1	602/2	603/1	603/2	604/1	604/2	605/1	605/2	606/1	606/2	607/1	607/2	608/1	608/2	609/1	609/2	610/1	610/2	611/1	611/2	612/1	612/2	613/1	613/2	614/1	614/2	615/1	615/2	616/1	616/2	617/1	617/2	618/1	618/2	619/1	619/2	620/1	620/2	621/1	621/2	622/1	622/2	623/1	623/2	624/1	624/2	625/1	625/2	626/1	626/2	627/1	627/2	628/1	628/2	629/1	629/2	630/1	630/2	631/1	63
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Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
colorful		1					1	costs				1			1
coloring		1					1	costume				2			2
colors	1			6	4	6	19	costumes					1		1
colt			2	1	2	6	11	coc				1			1
comb	3						3	cottage					1		1
combination							1	cotton		1					1
come	4	27	19	47	43	52	212	cotton candy				1		2	3
comes	4	6	13	6	11	20	60	couch				2		2	4
comet							1	couches				1			1
comfort						2	2	cough					1		1
comfortable				1	1	1	3	coughed					1		1
comic books						1	1	coughing					2		2
coming	1	10	9	18	23	29	90	coughs		2					2
commander				4	1	1	6	could		60		56	91	172	461
commercial				3			3	couldn't	1	5	14	21	19	37	97
common				1			1	count				1	1	4	7
commonly							1	countdown				1	1	2	3
communicated							1	counted							1
communist						1	1	counter							1
companies					2		2	counting							2
companions					1		1	countless							1
company				1	1	6	9	countries				2	3	4	9
compartment							1	country	1	3	3	7	2	9	23
compartments				1			1	country store	1						1
compete				1	1		2	coupe				1	1		2
competes					1		1	couple				3	8	8	20
competing				2			2	course				2	8	7	23
competition						1	1	courses						1	1
complain						1	1	court					1	7	8
complaining						1	1	courteous					1		1
completed						1	1	cousin	1	1		4	6	12	23
completely						1	1	cousin's				1	2	1	3
complicated						1	1	cousins	1	3	6	3	2	3	20
complicated						1	1	cousins'	1						1
compliments						1	1	cover				1	1	4	6
composing					1		1	covered				1	5	6	13
compute					1		1	cow	1			5	4	1	11
computers		1		2		1	4	cowboy				1			2
concentrate				2			2	cowboys				3			3
concentra						1	1	cowgirl	1						1
concert				1			1	cows				6	1	1	10
concluded						1	1	coyote					1		1
conclusion			1			1	4	crab		1			1		2
condition					2		2	crabbing					4	1	5
conditioner					1		1	crabby					1	1	2
condominium						1	1	crabs	1	1		4	5	1	12
cone							1	crack				1		7	8
Connecticut						1	1	cracked				1	2	1	4
conscience						1	1	crackers						2	2
conserve						1	1	craft					2		2
considered						1	1	crafts					1		1
considering						1	1	cramp					1		1
consisted						1	1	crap					1		1
constructing						1	1	crappia				1		7	8
container						1	1	crappies				1			1
contentment						1	1	crash		1		4	1	4	10
contents						1	1	crashed			2		2	7	11
contest		2				2	4	crate				4			4
contests						1	1	crawfish					2	1	3
continent						2	2	crawled				1	3	1	4
continuation					1		1	crayfish						1	1
continue						1	1	crazy		1		5	7	7	21
continued						1	1	crazy house				1			1
contract						1	1	crack						1	1
control					1	2	3	cracked					1		1
controlled					1		2	cream					1	2	3
controls					1		1	creamed					1		1
control tower						3	3	creased						1	1
conversation					1		1	create			1				1
conveyor belt						1	1	creature					2	4	6
convict						1	1	creatures					1	5	10
convinced						1	1	creak					1	2	3
convoy						1	1	creaky					3	1	4
cook		2	2	1	2	6	13	crept						1	1
cook's						1	1	criscent						1	1
cooked	1			2	2	2	8	crevices						1	1
cookhouse						3	3	craw				1	1	1	3
cookie/cookie	1			7			8	crickets						1	1
cookies	1			5	2		10	cried						1	1
cooking		2			1	3	6	cries		6	5	3	5		19
cooks		1				2	3	crime				1		1	2
cool					1	2	4	criminals						1	1
cooled						1	1	crippled						1	1
cop					1		1	crisis						2	2
cope						1	1	crisp						1	1
copied					3	2	5	criticize						2	2
cops						2	2	crocodiles				2			2
copy						1	1	crop						2	2
copying						1	1	crops		2				2	4
cork						1	1	cross		1	6	3			10
corn			4	1	1	2	9	crossed		1		2	1		4
corner	1		2	3	3	13	22	crossing						1	1
corners						5	5	crow				1			1
corral						1	1	crowd				5	4	14	19
correcting					1	3	7								
cost						2	13								

[illegible]

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
dirty			2		1		3	dragons						2	2
disappear				1			1	drag races					1	1	2
disappeared		1	1	5			7	drained						2	2
disappearing		1				1	2	drank	1	1	2	1	1		7
disconnected						1	1	draw			2	5		1	8
discover						1	1	drawer		1				1	2
discovered			1	2	1	1	5	drawing				2	1	1	4
discuss						1	1	drawing board			1			1	1
diseases						2	2	draws						1	1
disguise				1			1	draws						1	1
disguised						1	1	dreaded						1	2
disgust						1	1	dream		1	3	10	11	13	38
disgusting						1	1	dreamed			3	2	2		11
dish			1				2	dreaming		1		4	3		8
dishes		2	2	1	2		7	dreams			3	5	1	2	16
display				1			1	dreamt				1			1
distance		1					1	dress	1	2	3	1	2	6	17
distribute		7					7	dressed			2	5	4	6	17
distribution						1	1	dresser				1		1	2
ditch			2	1	1	2	6	dressess				3		1	4
ditches						1	1	dressing room				1			1
dive						2	1	draw					1	2	3
dived			1	2	1		4	dried			2			1	4
diver			1	1			2	drink	1	1	7	5	1	3	18
diversified						1	1	drinking			2	2	1	1	6
divide			1				1	drinks			1	1			2
divided						1	1	dripping						1	1
dividing						1	1	drive	3	4	6	4	5	2	26
diving		1	1	1			4	drives				1			1
diving board				2	1	1	4	driver	3	1	4	6		7	21
divorce						2	2	drivers		1					1
divorced						2	2	drives				1		1	2
dissiar				2			2	driveaway				1			2
dizzy						1	1	driving	2	1	1	3	2	9	18
do	28	45	52	77	123	101	426	droop					1		1
Doberman pinscher						1	1	drop						4	4
doc						1	1	dropped		4		2	3	4	13
doch			2			2	4	dropping				1			1
doctor	3	1	2	10	3	8	27	drope			1				1
doctor's					1	1	2	drove		1		7	2	5	16
doctors					1	1	2	drown						1	1
dodge ball			1				1	drowned			1				1
does	4	7	4	4	3	8	30	drowned			1	2	1		4
doesn't			10	5	2	7	24	drug						1	1
dog	32	84	85	66	43	33	343	drugstore					3		3
dog's		2		4	1		7	drum						1	1
doggy			1			1	2	drummer				3			3
doghouse			3		3		6	drumming						1	1
dogs		19	3	5	16	2	45	drums				3		1	4
dogs'		2					2	drunk		2	2			1	5
doing	1	4	3	8	19	9	44	dry	2			6	1	5	14
doll	2		6	7	13	7	35	dryer/drier		2					2
dollar	1		2		2	5	10	dryness							1
dollars	2	13	10	19	18	43	105	duck			4	1	7	1	14
dollhouse					1		1	ducks	2	1			1		5
dollies	1					1	8	duffel bag				3	1	2	7
dolls	2		1	1	3	1	6	dug		1			1		1
dolly						1	1	dugout						1	1
dolphin		1					1	dugouts					1		1
dolphins				1		1	2	dull		1		2			3
domain					1	1	1	dumb		1	1	5	4	2	13
done					1	3	4	dummy			1	1			2
domino			1				1	dump					2		2
don't	7	14	29	40	62	79	231	dumped				1			1
donate						1	1	dumping		1					1
donating			1				1	dumpster			1				1
done		3	5	1	6	15	30	dupe						1	1
donkey	1	2	1	1	1		6	dune buggy						3	3
doomed				2		1	3	dune buggy				1		3	4
door	2	35	13	44	18	27	139	dunes					1	4	4
doorbell		1		1			2	dungeo				1	2		3
doorknob				1			1	during		1	2	3	7	3	16
doors	1		3	4	2	6	16	dust			2	1	2		5
doorway			1		1	1	3	dustmop			1				1
dot				1		1	1	dusty						1	1
dots						1	1	dwarf				1			1
dotted						1	1	dying				1	2	1	4
double				1	1	1	3	dynamite			1				1
double-barreled				1		1	2	each		6	6	14	22	29	77
double play			1			1	2	eagerly					1		1
doubles					1	1	1	eagle				2	4		4
doubtfully						1	1	eagles							1
dough						1	1	ear	1			3			4
dove					2	1	3	earlier					2		2
dove						1	1	early							1
down	9	27	42	77	97	111	363	earl		1	3	3	3	7	19
downstairs		4	3	6	4	8	25	earn		1		1	1	1	4
downstream						1	1	earned						1	2
downtown						2	2	earphones				2			2
dosen						1	1	earrings			1			1	2
dozing					1		1	ears		1	4	2	9	2	18
Dr.		6			2	5	13	earth	1	5	2	10	17	19	54
drafted					1		1	earth's					5		5
drag		3				2	5	earthling		1		1			2
dragged		1			1		2	earthlings				3			3
dragon				7	1	15	23	earthshakings'				3			3
dragon's						1	1	earthquake					6		6

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
casel	1						1	evacuate				1			1
easier						1	1	evacuated						2	2
easily			1				1	even		9	6	20	24	38	97
easy	2	2				3	14	evening				1		3	4
eat	12	30	10	25	27	36	160	event				1		1	2
eaten				1	4	3	8	events					1	1	2
ester			3				3	ever		7	15	31	30	36	119
esters			2				2	evergreen					1	1	2
eating			2	3	7	8	20	everlasting						1	1
eat	2		1		2	3	8	every	5	21	24	25	37	45	157
edge				2	1		3	everybody		12	5	29	16	11	73
educated						1	1	everyday				2			2
education					1	12	13	everyone	2	3	3	27	19	39	93
erie						1	1	everyone's				1	1	1	3
effects						1	1	everything	1	6	8	17	15	31	78
effort							1	everywhere		1	4	2	4	7	18
egg	6	2	9	10	1	1	29	evidence					1	1	2
eggs	2	2	7	3	3	10	27	evidently						2	2
ego						1	1	evil				1	1	4	6
eggs						1	1	ex-con						1	1
Egypt				1	1		2	ex-friends				1			1
eight	1	5		3	2	2	13	exact				1			1
eighteen						3	3	exactly				1	1		2
eighty			1				1	example						2	2
either			2	1	4	7	14	except		3	1	12	8	8	32
elbow				2			2	excited		1	6	5	7	7	26
elect						1	1	excitement			2				2
elect				1		2	3	exciting		2	1		6	5	14
election					3		3	exclaimed		6	1			1	8
election day					1		1	exclamation					1		1
electric		1	1		1	2	5	excused				1			1
electrical						2	2	excuses				1			1
electric eyes						1	1	executed				1			1
electricity						1	1	exercise					1	1	2
electronic					1		1	exercises				1		1	2
electron microscope						1	1	exhausting					1		1
elementary school					1		1	exhaust					1		1
elephant	1			1	2	1	5	exhausted						1	1
elephants	9			3			12	exist					1	1	2
elevator					2		2	exotic						1	1
eleven					1	1	2	expect				1			1
eleventh					1	1	1	expected				1			1
elf				2	2		4	expecting					2		2
eloped					1	1	1	expedition						2	2
else	1	2	4	9	9	12	36	expelled						2	2
else's					1		1	expensive				2	3	2	7
elves			1				1	experiments						1	1
embarrassed				1			1	expert						1	1
embarrassing				1			1	explain					1	3	3
emergencies						1	1	explained				1	2	1	4
emergency	1		1			3	5	explaining					1	1	2
empty			1		1	3	5	exploded		1	2	1	1	1	6
encountered						1	1	exploratory						1	1
end	14	77	37	89	64	58	359	explore				1	1		2
ended	1		2	2	1	1	7	exploring				1		2	4
ending					1	1	1	explosion				1	1		2
endless					1	1	1	explosions					1		1
ends					3		3	extending						1	1
enemy						1	1	extinct				1	1	1	3
energetic						1	1	extinction						1	1
energy						2	2	extra		1			1	2	4
engaged						1	1	extremely						1	1
engine	1	1		3	1	6	12	extremes						1	1
engine room				1			1	eye		1	6	4	1	8	20
engines	1			1		3	5	eyeballs				5	1		6
England						7	7	eyebrows				1			1
English				1	5	2	8	eyed				1	5		6
Englishman			4				4	eyes	5	5	10	14	16	18	48
English sector					1		1	eyesight					2		2
enjoy				1	2	10	13	face		5	2	14	8	13	42
enjoyed			1		1	2	4	face-off				1			1
enjoyment						1	1	face-to-face				1			1
enormous						1	1	faces				1		1	2
enough	1	4	1	10	12	18	46	fact				1			1
enroll					1		1	fact		1	1		2	1	5
enter					1		1	factory			1			3	4
entered		1	1	1		1	4	fade					1		1
entering						2	2	fail					2		2
entertainer					1		1	failed				2		1	3
entrance				2			2	failing					3		3
environment						2	2	fainted			2	1	2	1	6
equal					1		1	fair		8	1	2		3	14
equality					1		1	fairground						1	1
equipment		1	2	1	1	2	7	fairies					8		8
eraser						1	1	fairly		6		1			7
errands						2	2	fairy		1				2	3
errors					2		2	fake		1		1			2
escape			1	1	3	1	6	fall	1	1	1	7	4	7	21
escaped			1	3		2	6	fallen					1	1	2
escaping						1	1	falling				4	2		6
Eskimo			1				1	falling star						1	1
especially			1	1	1	4	7	falls						1	1
estimated								false			1	1			2
etc.				1	1	3	6	familiar						1	1
etch						1	1	families						1	1
Europe					4	7	11	family	7	25	23	18	37	44	154

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
family room							2	finger							1
family tree							1	finger nail							1
famous			5	4	1	6	16	fingerprint			1	1			2
fanciful	1						1	fingers			2		1	3	6
fancy					2	2	4	finish		1	1	4	4	6	16
fans				1	1	1	3	finished		3	1	1	3	8	16
fancastic						1	1	finishing						1	1
fancasy						1	1	finish line				10			10
far		1	5	4	4	9	23	fin whale		2					2
farm	3	2	11	11	3	11	41	fire	4	10	4	12	5	11	47
farmer			5	3		1	9	fire alarm							1
farmer's				1			1	fire chief					1	2	2
farming						1	1	fire company				1			1
farms			1			1	2	firecrackers		2		1			3
farther		1		1	2		4	fired			1	2		5	8
farthest					1		1	fire department				1	2		3
fascinating					1	1	2	fire drill					4		4
fashions					1		1	fire engine				2			2
fast	8	12	8	18	17	25	86	fire escape							1
fasten						1	1	fire extinguisher					2		2
fasten		3		2	1		5	firehouse		1					1
fastest		1		1	1	1	4	fireman	1	2		5			8
fat	4	4	4	1	9	4	26	firemen				5			5
father	5	14	44	29	27	47	166	fireplace						1	1
father's			2	4		5	11	fires		1			1	1	3
fattening				1			1	fire truck	4	1			2		7
fault				1		1	2	firewood		7					7
favor			1		1		2	fireworks			1			1	2
favorite	5	4	3	11	14	23	61	firing							1
favor						2	3	firm							1
favored						1	1	firm	6	9	22	42	39	86	202
feasting						1	1	first-class			2				2
feasted						1	1	first base					4		4
feat				1			1	first class						1	1
feather					1		1	fish	10	15	17	22	11	18	93
feathers				2		1	3	fishbowl		1					1
February				1	1		2	fished					1	1	2
fed		3	3	4		4	14	fisherman						1	1
federal				1		1	2	fishermen						2	2
feeding	2	3	15	3	8	8	39	fishes	1			1			2
feeds	1					1	2	fishing	3	4	9	6	12	25	59
feal		1				1	2	fishing poles			2				2
feeling		2	6	2	5	21	36	fishing rods						1	1
feelings			4	1		9	13	fishtrap				1			1
feels				1	2	1	4	fishy		1			1	3	2
feet		2	10	7	16	9	44	fit		2		1			1
feet						2	2	fits			1				1
fell	3	12	9	30	22	29	103	five	1	2	4	12	12	11	42
fellow						1	1	fix			2	4	7	3	16
felt		1	4	7	3	7	22	fixd		1	1	2	3	7	14
female				1		5	6	fixer				3		2	5
fence				1	3	12	16	fixes			1				1
fences						1	1	fixing				1	1	3	5
ferry		1					1	flag	1	5				1	7
fertile							1	flag		1					1
fertilizer			1			1	1	flame						2	2
festival		1					1	flaming						1	1
fetch					2		2	flannel							1
fever					1		1	flash		1	1	1	2		4
few	1	3	10	7	16	23	60	flashed			1	1			3
fiancée						1	1	flashes						1	1
fiances		1					1	flashing						2	2
field		2	2	3	4	15	26	flashlight		1	3			3	7
field mice						1	1	flashlights		1					1
fields			1		1	1	3	flat			3		1	4	8
field trip			2		1	3	6	flavor							1
field trips					1		1	flavored							1
fiance			1			1	1	flavors							1
fifteen			2	3		1	6	flaw						1	1
fifth				2	1	7	10	flaw				1		1	2
fifties			1				1	fled						1	1
fifty		1		4	1	1	7	fleet			2				2
fifty-nine						1	1	flash	1						1
fight	1	10	3	1	9	12	36	flew	2	2	5	6	4	11	33
fighting		2	1	4	6	4	17	flies					1	1	3
fighth					2	3	5	flight				1	2	1	4
figure				1		4	5	fling						1	1
figured						2	2	flip-flops						1	1
figures						2	2	flipped				3	1		4
figuring			1		1		2	flip							1
file						1	1	float							1
fill				1		2	3	floated				2			2
filled			1	1	5	2	9	floating						2	2
filling				1	1		2	floats							1
filly							1	flooded						3	3
film				3	2		5	floods						2	2
filmed				1			1	floor		2	2	5	5	7	21
fin					1		1	floors				1		5	6
final					1		2	floppy					1	1	2
finally	1	6	6	27	25	36	101	Florida	3		5	6	3	7	29
find	2	5	12	26	25	23	93	flotation						1	1
finders						1	1	flow							1
finding				1	1		2	flower	1		2		3	1	7
finds						2	2	flowers	2	5	9	1	17	12	46
fine			10	5	7	11	33	flowing					1		1
finest						1	1	fluffy	2		1		1		4

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
fluid						1	1	frightened				1	1	3	3
flung						1	1	frog	2	3	4	2	4	1	16
flunk					1	1	1	frog's			1				1
flutter					1	1	1	frogs		1					6
fly		4	11	12		6	17	from	1	27	10	58	73	112	301
flying	1	2	4	5	8	7	27	front		3		10	10	15	38
flying saucer			2	3				front room					1		1
fog					1	2	3	frontwards				3			3
folk		5					5	front yard						1	1
folks					3	3	6	frostbitten						1	1
follow			2	2	2	3	9	frosted			1				1
followed		1	2	2	6	5	16	frose					1		1
following				1		4	5	frozen					1		1
food						2	2	fruit		4				1	5
food	3	16	17	23	17	26	102	fruits						1	1
foods					1	1	2	ft.						2	6
food stamps						1	1	fuel			2	1	3	6	11
fool				1		1	2	full						1	1
fooling				1			1	full-grown						1	1
foolish					1	1	2	full-time						1	1
fools						1	1	fun	41	50	36	34	67	63	271
foot		4	1	5	4	4	18	funeral				8		3	11
football	5	6	7	14	3	20	33	fun fair	10						10
foot line						1	1	fun house	3						3
footprint						5	5	funny	3	3	6	9	12	5	38
footprints			2	3	2	5	12	fur	1	2	3	3	4	1	13
footsie						2	2	furnace			1			1	2
footsie						2	2	furniture			1	3	4	4	12
force	10	68	134	179	219	329	959	furry		2	1	1	1	1	6
forced				1		1	3	fuselage			1				1
forces		1			4		4	fuse						1	1
forehead						1	1	fused						1	1
foreign						1	1	future				10		7	18
forest		3		2	4	3	12	fuzzy					1	4	5
forest fire					1	1	1	gadget						1	1
forest ranger						1	1	gala						1	1
forest rangers						2	2	gallery						2	2
forever		2		2	5	10	19	gallery						1	1
forgave				1		1	2	gallon				1	2		3
forgot		1		1	2	3	7	gallons			1		3		4
forgetting					1	1	1	gamble						1	1
forgive						1	1	gambling						2	2
forgives					1	1	1	game	7	3	15	6	25	30	86
forgot		11	4	5	7	6	33	games	10	10	9	5	8	13	55
forgotten				1		3	4	gang		2				3	9
fork						1	1	garage		2	1	4	1	5	13
form				1	1	1	3	garages						1	1
forms						1	1	garage sale						1	1
formula			1				1	garbage		1		3	1	3	8
fort				7	2		9	garden		16	10	2	2	1	31
forth				1	1	1	4	gardener		9					9
fortune					1		1	gardens	1		1				2
forty			1			1	2	gardener's				1			1
forward				2	1	2	5	gas	1	3	1	4	14	11	34
foster home				1		1	1	gasoline						2	2
fought	1	1	1	1	3	2	9	gasoline's						1	1
foul ball					1	1	1	gas station						4	4
foul balls						1	1	gaze				3	2	1	9
found	1	16	19	43	39	32	170	gazes						2	2
fountain				1		1	1	gather				1	1	2	4
fountains				1		1	1	gathered				1		1	2
four	1	3	3	13	14	17	51	gathering		1					1
four-wheel		1				1	1	gave	1	13	14	18	24	20	90
fourteen				1	2	1	4	gazelle						1	1
fourth			4	5	3	6	18	gear			1		2	1	4
fox	2	5				7	7	gee				1	1	1	3
foxes						1	1	geese			1				1
fractions						1	1	genealogy				1			1
frames					1		1	general						4	5
france						2	2	generation							1
frank					1		1	generations						2	2
frankfurter					4		4	generous		1				1	2
franks					1		1	genie		1	4	12			17
frantically						1	1	genies				2			2
franky						1	1	gentle							1
free	1	3		7	3	16	30	gentlemen							1
freed						1	1	gently							1
freedom						1	1	geography						3	3
freeze			1				1	Georgia					2	1	3
freezing				1	1		2	gerbils		1					1
french fries					3		3	German					3		3
fresh				2	1		1	German shepherd					2	2	4
freshwater		1					1	German shepherds					1		1
Friday		3		3	4	16	27	Germany					1	2	3
fridge				2			2	germs						1	1
fried			1			2	3	get	27	95	87	118	173	185	685
friend	39	78	51	27	69	63	327	gets		4	9	6	8	16	41
friend's	1	2	3	4	7	4	21	getting		9	3	19	16	29	76
friendly				1	4	3	9	geyser					7		7
friends	10	24	28	40	68	74	244	ghost		4	4	19	7	7	41
friends'	1	1	1	1			4	ghostly						1	1
friendship						1	1	ghosts				7		5	12
fries				1			1	giant			10	4	1	4	19
frigate					2		2	giant's				2			2
fright					1	1	2	gift		1				4	5
frighten					1	1	2	gifted						1	1

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
gifs						1	1	grandma			1				1
gigantic					1	1	1	grandmother	4	4	4	2	3		10
gigling				2			2	grandmother's	1	1	2	2	4	13	20
gill		2					2	grandmothers					1		1
giraffe					2	1	3	grandpa	1	4	4	3	6	1	19
giraffes					5		5	grandparents		3		1	1	2	7
girl	8	13	19	35	27	41	143	grandpas			1				1
girl's			2	1	1	3	7	grand slam					1		1
girl friend			1	2	7	5	15	grant				1	1	1	3
girl friend's					3	1	4	granted				2	2	1	5
girl friends					1		1	grape							1
girls	1	6	11	21	9	23	73	grape juice		1					2
give	1	12	17	23	21	21	96	grapes	1			1			2
given			1				1	grasping						1	1
gives	1	2	5		3	5	16	grass	2	2	8	3	5	10	30
giving				2	1	3	6	grasshopper					3		3
glacial						1	1	grassy						1	1
glad	3	4	6	7	12	14	46	grave			1	2		2	5
gladly					1		1	graveyard						1	1
glanced						1	1	gravity					1		1
glass	1		4	2	1	5	13	gray/gray	8	5		2	3	3	21
glasses			1	5	1		7	gray whale		2					2
glee		4					4	graze						1	1
gliding			1			1	2	graze						1	1
glimpse				6		1	7	great	1	2	8	17	12	25	65
glittering				1			1	Great Dane					1		1
glitters				1			1	greater						1	1
globe						1	1	greatest						1	1
gloomy				2		1	3	greatful						1	1
glory				5			5	greedier						1	1
glove					1	1	1	greem	5	4	5	4	13	13	44
gloves		1					1	greeted						1	1
slow				1		2	3	grew	2	2	4	5	6	3	22
glowing					4		4	griddle					1		1
glue		2		1			3	grind						1	1
glued				1			1	grinds						1	1
gnats					1		1	grins			1				1
go	59	145	146	162	268	252	1,032	grizzly bear			1			1	2
go-cart		1		4			5	groceries					1	1	2
go-carts					7		7	grocery					1	1	2
goal		2	2	1		7	12	grove				2		1	3
goalie			1	1			2	ground		1	5	8	8	14	36
goals				2		3	5	ground ball					1		1
goat		2	2	1			5	grounded						1	1
goats		1	1				2	grounds						1	1
goblin		1					1	group				8		3	11
goblins			1				1	groups				1		2	4
god				2		2	6	grow	8	8	10	4	18	15	63
goddess					1		1	growing		2	1		2	2	7
goddesses					3		3	growing				2		1	3
gods					2		2	growls				1		1	2
goes	2	10	6	4	13	8	43	grown					2	3	5
going	24	58	85	82	155	118	522	grown-up		1					1
gold	1	6	5	3	13	6	34	grown-ups		1				2	3
golden			9	1	3		14	groves		1					1
goldfish		1		5			6	gruesome				1			1
gold mine						1	1	grumpy						1	1
golf						5	5	guaranteed					1		1
golf ball						1	1	guard		1	1	4		1	7
golf balls						1	1	guarded					1	1	2
golf club						1	1	guards				3		2	5
golf course						1	1	guess		3	4	10	11	5	33
golly							1	guest		1					1
gone		7	12	14	10	7	50	guides	1						1
good	19	37	37	40	62	66	261	guilty					1		1
good-bye/good-by	3	1	2	5	6	1	18	guinea pig	1				1		2
goodies				2			2	guinea pigs		1			3		4
goodness		1			1		2	guitar				2			2
good night			1	1			2	quitarist					2		2
goods		2					2	pulp						1	1
goofy						1	1	rum			1	1		1	3
soon						1	1	gummy				1			1
goose		1	1		2		4	gums		1					1
gorgeous					1	1	2	gun	2		10	6	5	4	27
gorilla				5			5	gunfight			1				1
gosh					1		1	gunny sack					1		1
got	26	76	144	242	213	238	937	guns	1	3	2	6	1	6	21
goten				3	4	1	8	gushing					1		1
government			1			2	3	sut						1	1
grab		3		2		2	7	suts				4			4
grabbed		8		10	4	8	30	suy			3	9	6	5	23
grabs				1	1		2	suy's	1						1
grade		2	7	9	12	18	47	guys	1			4	1	4	10
graders					1		1	guys					1		1
grades			2		1	5	8	guzzlers					4	1	5
gradually					1		1	gys		1					1
graduate						2	2	gymnastic				2	7	3	14
graduating					1		1	gymnastics					1		1
grain						2	2	gynasts					1		1
grandchildren						1	1	ha				3	5	5	13
granddad						1	1	ha-ha			1				1
granddaddy			1				1	habit						1	1
grandfather			5	4	5	2	16	had	33	82	121	180	202	265	883
grandfather's					1	1	2	haden't				2		1	1
grandma	1	1	3	4	6	4	19	hail					1		1
grandma's		2	3		4	1	10	hair	4	5	4	4	11	21	49

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
homers					2		2	hunter							3
home run				2	23	3	30	hunters				1	1		2
home runs				2	1		3	hunting		3	11			4	25
homes						6	6	hurrah		2					2
homesick						1	1	hurray						1	1
homestretch				1			1	hurricane		2		1	4		7
homework		2	3	4	2	4	15	hurried				2	1	2	5
homonyms						2	2	hurriedly				1			1
homage				1	1		2	hurry				2	2	4	10
honest				1	1	3	5	hurt	3	6		8	11	12	35
honey						1	1	hurt				1			1
honeymoon						2	2	hurts		1				4	5
honor								husband			4	2	4	6	16
hood					1		1	hushed							1
hook				1	1		2	husky							1
hooked				1		1	2		415	855	930	1,299	1,517	1,816	5,832
hooker		1					1	h'd				11	5	10	33
hooking					1		1	h'l				16	19	45	123
hooks					1		1	h's				34	30	67	246
hoop						1	1	h've				3	6	7	11
hoops						1	1	ice				2		3	7
hooray				1			1	ice age							1
hooves					2		2	ice cream		3	1	14	3	1	22
hop			1	1	2	2	6	ice skate							1
hope	2	9	20	7	14	27	79	ice skater							1
hoped					2	1	3	ice skating							2
hopefully					1	2	3	ice tea					1		2
hopelessly		1					1	icing							2
hopes		1				1	2	icy							2
hoping			2		1		3	idea		1	2	4	4	6	17
hopped			2		4	3	9	ideas						3	3
hopping		1				1	2	identical						1	1
hope		1	1				2	if	11	51	71	92	125	179	529
horn		1				2	3	igloo		1					2
horns	2						2	ignition			1	1			2
horrible			1		2		3	ignore					1		1
horrid						1	1	ill						1	1
horror			2	4			6	Illinois					1		1
horses	2	25	24	36	27	31	145	imagination					2	2	4
horse's				1			1	imagine			1		3		4
horseback	1		1	2	1	3	8	imagined			1	4	1	3	9
horsepower	1	1					2	immediately						1	1
horses	1	6	6	10	12	17	52	impala						1	1
horseshoe							5	impatient					1		1
hose		1					1	import							1
hospital	1	2	8	12	8	6	37	important	1	7	2	2	1	8	21
host			1			1	2	impossible							2
hostage			2		1		3	in	70	219	295	506	547	693	2,330
hostages			2			4	6	in.						2	2
hot	16	4	6	9	9	14	58	inch				2			1
hot-wire						1	1	inches				2		3	6
hot dog	4			1	2		7	incident						1	1
hot dogs	1	1	1		1	1	5	include						1	1
hotel	4		3	1	1	5	14	including		1			1	2	4
hotels					1	1	2	inconveniences						1	1
hot rod	1						1	increase					1		1
hotshot					2		3	independence						1	1
hound			1				1	India						1	1
hound dog							1	Indian	1	2	3	1	3	2	12
hounds				1			1	Indian Ocean					1		1
hour			4	6	7	10	27	Indians					2	2	7
hours			4	10	9	9	32	Indians'							1
house	14	91	93	85	124	129	526	indoor		1			1		1
houseboat						1	1	industries						1	1
household						1	1	infected			1				1
houses		2	2	5	6	12	29	infield						5	5
housewife				1			1	inflated					1		1
housework							1	inflation						1	1
hover				1	1		2	information				1	1	2	4
hovering						1	1	informar						1	1
how	4	25	26	44	41	69	209	inhalation					2		2
howdy				1			1	injuries						1	1
however				1		1	2	inn	1						1
howl				1			1	inner tube					1		1
howled				1			1	inning			1			3	11
howling				2		1	3	innings					1		1
hrs.					1		1	innocent					1		1
huddled					1		1	insane						1	1
huff						1	1	insect					1		1
huffing			1				1	insects			1			1	2
bug		1	7	5	3	9	25	inside		3	7	15	12	14	36
bugged				2		1	1	inspect						1	1
bug						1	1	inspector					5		5
hula			2				2	insurance						1	1
human			3	1	2	2	8	instantly			1	2		2	5
humans					2	2	4	instead	1	3	3	6	5	5	24
humid						1	1	instrument				1			1
humpback whale		2					2	insult					1		1
hundred	1	1	5	4	12	11	34	insulted						1	1
hundreds				1			1	intelligent					1	2	3
hung			1		2		3	intend							1
hungry	11	5	3		1	6	26	intercept					1		1
hunk							1	intercepted					1		1
hunt		1	2			3	6	intercom						1	1
hunt							1	interest							1
hunted				1			1	interested			2	2	2		6

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
interesting	1						1	jumbo			1				1
interfere			1				1	jump	4	5	7	10	8	9	42
interferes						1	1	jumped	4	8	3	23	18	16	77
international						2	2	jumping		1			5	5	11
interrupted						2	2	jump rope			1				1
interruption			1				1	jumps	1	5					7
interview						1	1	jury		1					1
inco	3	16	25	61	61	109	275	June			1	2	5	3	11
introduce					1		1	jungle	2			2		5	9
introduced		1				1	2	jungles				1			1
introduces				1			1	junior high		2				2	4
introductions						1	1	junk		1		1	1		3
invade						1	1	junyard			1				1
invaded			1				1	Jupiter	1	1		1		1	4
invaders					2		2	jury							1
invasion					2		2	just	1	17	36	68	81	119	322
invent	5		1			1	7	kangaroo	1	1					2
invented		1	2	1	1		5	kangaroo's		2					2
invention		2	2				4	kangaroo race		2					2
inventor			1	1			2	kangaroos		3					3
invest					1		1	Kansas	1	2		1	1		5
investigate		1		1		1	3	Karaca						2	2
investigated		1			1		2	keen					1		1
investigator				2			2	keep	1	9	8	10	15	17	60
invisible			2	1			3	keeper					1	3	4
invisible ink		1					1	keeping					2		2
invitations		1					1	keeps			1	3		2	9
invite			1			1	2	kennel					1		1
invited	1		1	1	3		6	Kentucky			1	2			3
involved					2	4	6	kept		5	8	21	13	5	52
Iowa				2			2	Kettle							2
IQ						1	1	key		8			1	4	13
Iran		1	1				2	keys			2	1			3
Iranian			1				1	kick			1			2	4
Iranians						1	1	kickball	1	5	6	1	1	1	15
Ireland					5		5	kickad		3	1	2	4	13	13
Irish			1		4	1	6	kicks	3						3
Irish factors					1		1	kidd	1	1		11	5	15	33
iron						2	2	kid's				2		1	3
is	200	260	257	279	346	374	1,716	kidding		1					1
island		1		2	8		12	kiddo				1			1
islanders						1	1	kidnap	1						1
islands						2	2	kidnapped		1				1	1
isla						1	1	kidnapper							1
isles						1	1	kids	3	4	13	18	25	24	87
isn't				5	7		12	kill	1	9	7	7	2	11	37
issued			4			1	5	killed		5	11	18	6	9	50
it	93	275	297	567	486	663	2,381	killer	3		1		1		5
it's	2	5	23	41	38	58	167	killers				1			1
Italian					1		1	killing			1	2		1	4
itch					2		2	kills							1
its	2	2	7	13	9	10	43	kind	3	10	9	9	6	19	56
itself				1	1	1	3	kindergarten					3		3
jacket					2		2	kindly			2				2
jackets					1	1	2	kinds	1	1	4	8	12	7	33
jacks	1	3					4	kinfolk							1
mail			3	4	5	8	20	king	2	56	1	13	7	4	83
named				1	1		2	king-size							1
kniters					1	1	2	king's		9		1			10
January						1	1	kingdom					3	2	10
Japanese				1			1	kingdome					1	1	2
Japs				1			1	kiss		1		1	1	1	4
jar				5	1		6	kissed			1	2	1	1	5
jaywalking						1	1	kisser			2				2
jealous				2	1	1	4	kic				2			2
jeans						1	1	kitchen		2		1	7	4	25
jeep					1		1	kite		6	3			11	9
jellyfish		1		1			2	kites			1				1
jerk		1			4	1	6	kitten	6	8	7	3	2	10	36
jet			1	1	1		3	kittens		7	3	7		2	24
jetliner						1	1	kitties		2					2
jets			1	2			3	kitty	1						1
jewel						6	6	klutz							2
jewelry						5	5	knee			1	2			3
job		4	5	5	15	10	39	knees							2
jobs			1	1	3	2	7	knew		5	7	18	17	29	76
jockey	1		6			1	8	knife		2	2	7	2	6	19
joggins					1		1	knight							1
john						1	1	knights		4				1	6
Johnny-come-lately			1				1	knitting				1			1
join			1	4	2	2	9	knives					2		2
joined					1		1	knock		1		1	1	10	13
joke	5		2	1			8	knocked		2	4	11	5	5	27
jokes						2	2	knocking	1		1	1			3
joking			1				1	knocks						2	2
jolt					2		2	knock							1
joe						1	1	know	14	28	33	41	66	76	258
journey		1	2	1		2	6	knowing				2	1	5	8
joy				1	4		5	knowledge							1
joyful						2	2	known			1	1	2	3	7
jr.						1	1	knows	1		3	3	4	9	20
judge	1					2	3	koala bears		2					2
judges					1		1	Korean					1		1
juice		5	1			3	9	kung fu		2					2
juicy	1						1	lab		1		2			6
July		1	1	1	3	6	12	laboratory		1		1			2

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
barador retriever	1						1	letter			5		2		7
laces						1	1	letters		1			2		3
lad						1	1	letting				2		1	3
ladder					2		2	lettuce		1	1			1	3
ladies				1	1	1	3	level						1	1
ladies'						1	1	levels			1				1
lady		2	9	15	3	10	39	lever		1					1
ladybug			4				4	library						1	1
ladle	1			2	3	5	11	license				2			2
lake		1	1	5	20	5	32	licenses						1	1
lakes					1	2	3	lick					1		1
lake trout						1	1	licked		1					1
lamp			1	5		12	18	licking					1	1	2
lampshades						1	1	licks				1			1
land	4	3	4	11	6	33	61	licorice			1				1
landed	1	1	4	8	11	12	37	lied				1	1	1	3
landing		2		2	1	2	7	lies						1	1
landings				1			1	lieutenant						1	1
landlord			1				1	lie	1	1	5	13	19	38	77
lands				1			1	life-size				1			1
language		1		1	2	2	6	life-styles					2		2
lap						2	2	life-styles							1
Laplanders			1				1	lifeboats							2
large		1		4	6	9	20	lifeguard				3			3
larger				1			1	life jackets						1	1
largest				2	2	1	5	lifeline						1	1
laser					1		1	lifetime						1	1
laser's						1	1	lifer					2		2
lasso					1	1	1	life-off							1
last		9	16	17	23	30	95	lifted			2	3	1	1	7
lasted			1		1	1	3	light		3	3	10	4	11	31
lasting					1		1	lightened							1
latch				1			1	lightening		2	1	4	5	4	16
late		12	8	7	11	16	54	lighter		2			1		3
later		4	13	17	37	27	100	lighthouse		1				1	2
lateral				1			1	lighting				1			1
latitude					1		1	lightly							1
laugh			2	4	5	2	13	lights		2	1	1	5	2	11
laughed		2	2	4	7	4	22	like	87	118	102	123	174	274	879
laughing	3			2	3	4	9	liked	8	19	5	9	10	19	70
launch				1			1	likely					2	1	3
launched			1	2		3	6	likes	3	17	3	8	7	6	44
laundromat			1				1	likies						1	1
laundry			1			1	2	lilies							1
law	1				1	4	6	lilypad	1				2		3
law's				1	3	2	6	limb	1					1	2
law mover			1			1	2	limbs						1	1
law movers					1		1	limits						1	1
lawns					1		1	limousine		1					1
lawyer				2			1	limping				1			1
lawyers						1	1	line		3	3	5	4	6	21
lay		1	4		3	5	13	lined				1		1	2
layer					1		1	line drive						1	1
laying				1	3	3	7	lines					1		1
lays					1		1	lion	5	1	8	8	18	3	43
lastly				1			1	lion's			1				1
lazy			1		1	2	4	lions	1			1		2	4
lbs.					1	1	1	lip						1	1
lead			2	8	3	1	14	lips				1		1	2
leader		8					3	lipstick						2	2
leading						2	11	listen			1	3	2	6	12
leads					1		2	listened	2		1		1		4
leaf			1				1	listening						1	1
league					1		1	lit				1			1
leagues						3	3	litter		24	31	68	69	52	325
leaked						1	1	littered					1		1
leap		1			1		2	little							1
leapfrog					1		1	littlest							1
learn		3	2	3	5	20	33	live	3	14	19	12	23	49	120
learned		2	4	6	3	2	17	lived	10	10	22	28	24	36	130
learning	1				1	2	4	lively						1	1
leash				1			1	liver						1	1
leat		1	1	5	4	8	19	livers				1			1
leather			2				2	lives		2	4		19	10	39
leave	1	2	7	9	21	14	54	living		2	3	4	4	3	16
leaves	1		1	3	2	7	14	living room			2	5	2	5	14
leaving		1	1	2	1	2	7	lizard		2	1		1		4
led		1	1	5		2	9	lizards						1	1
left		9	12	29	30	33	113	loaded				1	1	4	6
left field							1	loading						1	1
left fielder							1	loads			1				1
leg	1	4	2	9	6	11	33	loan						1	1
legged					1		1	lobbed						1	1
legs	1	4	4	3	3	2	17	local					1	2	3
lemon			2				2	located					1		1
lemonade			1	3	1		5	lock		1		1		1	3
lemons				1			1	locked		3	9	3	1	3	19
leopards						1	1	locker					2	1	3
leopards						1	1	locker room				1			1
leprechaun			4				4	locks		1	1	5	3	4	14
less					1		1	log						1	1
lesser					1		1	logs		1					1
lesson			1	1	1	2	5	lollipop				1			1
lessons				1	1	2	4	loosely			20	1	3	6	30
let	1	9	8	21	28	30	97	lonesome				2		3	5
let's	3	9	17	16	20	8	73	long	4	18	12	31	33	32	130
late		2	4	2	3		11	longer	1	1		2			4
								longest						1	1

[illegible]

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
middle	1						22	moped			2			1	3
midjet							1	moral					2		2
midnight		1	3	1	1	1	7	more	5	16	41	37	43	72	215
midwestern							1	morning	12	21	19	21	33	109	
night	10	9	8	11	27	21	86	morning glories					1	1	2
nighty		1			1	3	5	moson					2	2	3
nild					1	1	2	mosquito					3	3	3
nile				8	1	5	14	mosquitoes					1	1	2
nillage					1		1	mos					2	2	2
niles		1	3	9	5	7	25	most		2	9	15	24	39	89
militant			1				1	mostly		1	1	3	3	2	10
militants			1				1	motel		2			2	4	4
military police					1		1	motels						1	1
silk	3	2	8	2	4	5	24	moth			1			1	1
silkies					4		4	mother	8	30	49	45	35	50	257
silkman's			1				1	mother's			3	3	4	11	11
Milkyway	1						1	mothers		2			4	2	9
million		16	3	17	16	35	92	motion picture	1				4	2	1
millionaire			1	1	5		8	motley						1	1
millions				2	2		4	motor					1	1	1
min.						1	1	motorbike				1		1	1
mind	2	1	3	5	6	7	25	motorboat					1	1	1
mindings					1		1	motorcycle	1	3		2	4	4	14
mine			2	2	4	6	14	motorcycles		3			2	3	8
minerals					1	2	3	motor					1	1	1
mines					1	1	2	mountain		1	5	1	2	7	16
mini-flashlight					1	1	2	mountains			2		1	3	6
mini-society	15						15	mourning				1		1	1
mini-town	1						1	mouse		16	6	17	1	13	71
miniature					1	1	2	mouse's		1				1	1
miniature golf					1	1	2	mouse's						1	1
minibike				1	4	3	8	moustache					1	1	2
minibikes					3	2	5	mouth		2	1	5	3	2	14
minis					1	1	2	mouthfull					1	1	1
Minnesota					1	2	4	mouths					1	1	1
minnow			1		1	1	3	move		1	9	7	22	9	48
minnows					1	3	4	moved		3	6	7	16	6	38
minor					1	3	4	moves		1		1	1	3	5
minute	1	3	3	3	4	5	19	movie	3		5	6	25	7	46
minutes			3	7	9	11	30	movies		2	1	3	4	4	14
miracle	1						1	moving		3		7	15	6	31
mirror			2	2		3	7	now					1	1	2
mirrors					1		1	nowing					1	1	2
miserable					1	1	2	oah					1	1	2
misinterpreted					1	1	2	oak	9	6	21	25	49	54	164
miss	1	4	11	3	11	8	38	oak	11	7	4	49	20	25	116
missed		2	1	3		6	12	oak	13	19	18	15	20	37	122
missile					3	1	4	oak	2	1	2	4	5	3	17
missiles					3	1	4	oak				1	1	2	2
missing			6	2	3		11	oak				1		1	1
mission				2			2	multicolored					1	1	1
Mississippi			1			2	3	multiple					1	1	1
mist							1	multiply			1			1	1
mistake				1			1	mumbled						1	1
mistakes						1	1	munch				1		1	1
mister			1	2			3	munching				1		1	1
mistreat					1		1	murder				4	2	1	7
mix		1	7			1	9	murderer				1		1	1
mixes				2		2	4	muscles					3	3	6
mixing		1	2	3		2	8	muscular						1	1
mo.			2		1		3	museum	1	2	1			4	4
moaned						1	2	mush					2	2	2
moat					1	2	3	mushroom					1	1	1
model		3		2	2	4	11	mushrooms						1	1
modeling					1	1	2	music				2	6	4	12
models		1		5		2	8	muskrat					10	10	10
modern				1		4	5	muskrat's					2	2	2
solasses		1					1	music	1	2	5	17	8	6	39
sole					14		14	mustang						1	1
sole's					1		2	mustangs				3		3	3
solacula					1		1	mutilated						1	1
son	10	36	40	29	74	38	227	mutt						1	1
son's		2	1	1	3		7	muttering	177	423	460	429	583	638	2,715
sonnet				2	3	1	6	my	2	2	6	7	10	19	48
sonnets					1		1	myself			2	6	1	5	15
sonny	3		2	1			6	oak			1		1	2	2
sons			2				2	oak			2			2	2
Sunday	1	1	3	1	3	2	11	nails					1	1	1
sonny		23	10	25	16	43	117	name	19	42	42	71	54	35	123
sonitor						1	1	named	3	14	25	43	45	38	173
monkey	1	2	2	1	1	4	11	names	3	4	8	8	9	9	39
monkey's					1		1	naming						1	1
monkeys					2		2	nape				2	1	3	6
monster	4	14	28	3	17	33	99	nape				1		1	1
monster's				1			1	narwhale		1				1	1
monsters	1	8	2	5		5	21	nasty						2	2
month			2	2	3	4	11	national					1	1	1
month's				1			1	nationalities						1	1
monthly					1		1	national parks				1		1	1
months			4	8	4	7	26	natives						1	1
monument		3					3	natives						1	1
mooring					1	1	2	navy						1	1
moon		4	3	13	2	7	29	near		1	4	6	7	6	24
map			1				1	nearly				1	2	1	4
								nearest				2		1	3

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Words	First	Second	Third	Fourth	Fifth	Sixth	Total
nearest								nuclear reactor							
nearly		6	2	2			14	nude		1					1
neat	3	2		4	5		17	numb						2	2
neatest					1		1	number	3	1	2	2	4	7	19
neck			1	3	4		15	numbers				1	1	7	9
neck-raw							1	nurse	1				2	10	13
necklace							4	nursery school					1		1
necklaces							1	nurses						1	1
nectar							1	nursing							1
need	2	7		3	12	21	49	nursing homes		1					1
needed		2	4	6	3	7	22	nut		2				1	3
needle				1			1	nuts				1			1
needs		7	1	2			11	nylons							1
needy							1	o'clock		2	4	5	8	10	29
neighbor			1	1	2		4	oak						2	2
neighbor's							1	oars						1	1
neighborhood							3	obedient						1	1
neighbors				1	3		4	obey						2	2
neither				1	1		2	object						1	1
nephew				1			1	observatory						1	1
nephews			1				1	obviously						1	1
nerve					1		6	occasion						1	1
nervous			1				1	occasions						1	1
nervously							1	occupants						1	1
nest	2	1			2		4	oceans		7	1	6	2	9	25
net			1	2	1		4	ocean liner				1			1
Netherlands							1	oceans							1
never	2	3	32	31	30	43	141	Oct.						1	1
nevertheless							1	October			1	2			3
new	1	22	10	29	33		116	octopus	1	2					3
newborn				1			1	odd			14			1	15
New England						3	3	odds and ends						1	1
New Hampshire		1				1	2	odor						1	1
New Jersey							1	of	56	121	195	363	437	651	1,625
New Mexico							1	off	3	12	19	64	49	61	208
news	1		2	2	6	3	14	off-season				1			1
newspaper			4	1	2	2	9	offered						2	2
newspaperman							1	office			1			1	2
newsprints				1			1	officer		1				1	2
New York			1	1	1	1	4	official						2	2
next	5	15	28	64	71	70	253	often			3	1	2	3	9
nibbling							1	oh	5	14	11	13	31	17	91
nice	11	25	28	25	30	50	169	Ohio		2			2	1	5
nicest							3	oil		1		1		2	4
nickname	1		1				2	OK/okay	2	3	18	17	22	19	86
piece							2	Oklahoma		1				7	9
night	8	44	43	48	37	77	257	old	7	25	28	64	49	40	213
nightmare			1				1	old-fashioned				1			1
nights		1			2	3	6	older	1		3	4	8	11	27
night school							1	oldest			4	2	3	3	12
nighttime							3	on	42	100	117	280	280	380	1,199
nine		1	1	4	4	2	12	once	11	46	59	56	59	39	270
nineteen		1					1	oncoming	28	102	146	226	239	239	980
ninety							2	one						1	1
ninth							5	one-half			1			1	2
no	10	17	30	43	38	49	187	one's			7	7	6	3	23
no-	2			1			1	ones							1
no-hit			1				1	onion	1		1				2
nobody		1	8	9	8	15	41	only	2	15	16	30	42	44	149
nocturnal							1	onto		1		4	4	1	10
noise		4	5	15	12	10	46	open		10	1	11	6	13	41
noises		1	2	5	1	2	11	opened		8	3	13	7	12	45
nominee				1			2	opening		10		1	3	13	26
none		1		1			3	opens					3		3
noodle							3	opera			1				1
noodles							3	operated				1	1		2
noon		1					1	opossum						1	1
no one		1	4	21	4	16	46	opponent						1	1
nope	3		1				5	opportunity						1	1
nor					1		1	opposite						1	1
normal				2			1	or	17	26	38	44	54	115	294
north			1	4	1	2	8	orange	5		4	k	2	2	12
north's				1			1	oranges	2						2
North America							1	orbit						1	1
North Carolina			2				2	order			1		1	3	7
North Dakota				1			1	ordered				2			2
northern			1			2	3	ordering						1	1
Norway			8			1	9	orderly						1	1
Norway's			1				1	orders				1		1	2
Norwegians			1				1	ordinary		1				2	3
nose		3		3	6	4	18	organized				1		1	1
nosed							1	original						1	1
noses	1	1		2			4	orphans		2				3	5
not	23	53	51	78	67	88	360	orphanage				1			1
note			3	1	3	5	12	orphans							1
notes					1	1	2	other	4	19	32	54	55	98	262
nothing		4	6	13	8	15	46	other's				1			1
notice							2	others	1	1	1	3	7	6	19
noticed				2	2	7	11	otherwise						1	1
notices							2	ouch				2	1	2	5
notified			1				1	ought				1			1
November				2	2		4	ounce					2	1	2
now	2	22	33	56	51	71	235	ounces						3	3
nowhere			1	1	1	1	4	our	6	37	36	42	85	86	292
nuclear		1					2	ours				1			1
nuclear energy							1	ourselves				1	2	1	4

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
out	15	34	79	177	176	249	810	parents'		1					1
outdoors		3				1	3	park		6	13	12	8	5	44
outer						1	1	parked			1		1		2
outer space	2		2	1	6	2	13	parking				2			2
outfield				1	5	2	8	parking lot					1	1	2
outfit						1	1	parke				1		2	3
outlaw						1	1	parlor				2			2
outman						1	1	parrot	5		1		2	1	9
outs						4	4	parrots				1			1
outside	6	16	13	14	30	17	96	part	1	1	2	6	7	10	27
outstanding						1	1	part-time					1		1
oval						1	1	particles					1		1
ovam						1	1	parties				2	3	3	7
over	13	21	40	74	81	113	342	partly						1	1
overall						1	1	partner			2	1		2	5
overcame						2	2	parts		1		1	1	4	7
overhand				1		1	1	party	7	3	3	5	8	9	34
overhead						1	1	pass	1		3	3	4	4	15
overheard						1	1	passed		1	3	6	10	10	30
overnight		3					3	passenger			4				4
over populated				1			1	passengers					1		1
over population						1	1	passes				2	1	1	3
overpowered						1	1	passing				1	1		2
overtime						5	5	past		2	5	3	6	4	20
overwork				1			1	pasture			2		1	2	5
ow						1	1	pat						1	1
owe						1	1	patch				1			1
owl			2	1			3	patches					1		1
own	1	3	6	12	9	28	59	pech		1	2		5	4	13
owned	1		6			6	14	pecha				1			1
owner	2	5	6	6	3	7	29	pechance						1	1
owners		1					1	patient						1	1
owns		1	1		1	1	4	patrol				10	1		11
ox					1		1	pats					1		1
osone					2		2	pavement						2	2
PA					1		1	paw				1		1	2
p.m.			2	3	9	8	22	paws				1			1
p.a.					2		2	pay		5	1	8	3	11	28
pace					1		1	paying					2	1	3
Pacific				2			2	payment			2				2
Pacific Ocean				1		2	3	payments						2	2
pack					5	7	12	pays						1	1
package					1		1	pea				2			2
packed		1	2	4	1	4	12	peace					2	6	8
packing					1		1	peaceful						2	2
packs			1		1		3	peach	1						1
pad			1				1	peacock					2		2
peddle		1					1	peacocks			1				1
peddled						1	1	peanut				1		1	2
peddles		1					1	peanut butter	1				1		2
peds				4			4	peanuts	1			2			3
page		3	1	5		1	10	pear	1	1					2
paid				1	2	3	6	pearl						1	1
pail					1		1	pebble			3			1	4
pails					1		1	pack		1					1
pain						3	3	pedal				1			1
paint			10		4	4	18	peaked				1	1		2
painter			2	1		1	4	peel				1			1
painting	1		1	1	1		4	peeled						1	1
paints		1					1	peep						2	2
pair				7	5	1	14	peer	1						1
pairs			1				1	pelican				8			8
pajama		2					2	pen			2	4	2	2	10
pajama party					2		2	penalty				1			1
pajamas				1			1	pencil	1	5	1	5	2	6	20
pal							1	pencils				1			1
palace						3	3	penguin		1					1
palis	1						1	penguins	2						2
palm		1	1				2	Pennsylvania			1		1	3	5
pan	1	1	3	1			6	penny						2	2
pancake					1		1	people	8	29	24	81	71	109	322
pancakes					2		2	people's			1		1	5	7
panes					1		1	pepper			1	1			3
panels			1				1	peppers			2				2
panic					2		2	per				1	1	2	5
panicked					1	1	2	percentage						2	2
panicking					1		1	perch			3				3
panisias					1		1	perfect			2	2	2	3	9
pant					1		1	perfectly				1			1
panting					1		1	perform				2			2
pants	1		1	5	3	3	13	performed					1		1
papa		4					4	performers						1	1
paper		2	1	5	3	4	15	performing							1
paper dolls					2		2	period			1			2	3
papers			1	4	1	2	8	periodically					1		1
parables					1		1	perished				1			1
parachute				1		2	3	perky					1		1
parachuted				1			1	peru						1	1
parachuting				1			1	permanent			1			1	2
parade	4					1	5	permission				1	1		2
paragraphe						1	1	person	1	3	5	5	13	25	53
parakeet						2	2	person's						1	1
parallal bars			1				1	personal						1	1
paralyzed						1	1	personally						1	1
parent's						1	1	persons		1					1
parents		5	12	12	17	27	73	persuaded						1	1

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
pesos	1						1	playing	7	15	15	12	12	18	100
pet	10	19	9	14	10	3	65	plays	10	7	5	5	2	1	31
pet's	1	1					2	pleasant	1	3	4	5	7	9	29
pet's	4	7		9	3	3	25	pleasure			1	1		2	4
petted						2	2	pledge			1			1	1
pg.						8	8	plenty		1					1
phone		1	4	1	8	9	23	plow					1	2	3
phony		1	1				2	plug				3			3
piano					1	1	1	plumbing						1	1
pianos		3	8	4	10	9	34	plump				2			2
pick		6	7	7	12	15	48	plums			1				1
picked	1				2		2	plus			1		2	4	7
picking			1				1	pluto	1	1		2		4	8
pickle							1	pluto's					1		1
picks					1		1	plutonium						1	1
pickup				4	1		5	pneumonia						1	1
picnic	3	3		2	6		14	poachers						1	1
picnicking					2		2	pockets		4			1	3	8
picnics					1		1	poem	1			1	1	1	3
picture		2	2	12	3	3	22	poet				2	2	4	8
pictures		2	1	2	3	2	10	poet's					1	1	2
pie	1						2	poet's						5	5
piece		3		4	5	7	19	pointer				1	1	2	4
pieces			1	3	2		6	pointing						1	1
pier					1		1	pointing						1	1
pierced			2		1		3	points			3	3		1	7
piercing			1				1	poison			1			1	1
pies				2	1		3	poke						1	1
pig	15		11	2			28	poked						1	1
pigs		2	7	1		1	11	poker		1				1	2
pile				1	1		2	polar bear		1				1	1
piled							2	poles				2	1	2	5
pilgrim		1					1	police					1	2	3
pilgrims				1			1	police	1	9	20	11	20	61	61
pill				1			1	police dogs			2			2	2
pillow	1				2	3	6	police force					1	1	2
pillows					1	1	2	police officer	1	3	7	5	2	18	18
pill's							1	police station	1		1	3	3	5	5
pilot				1	4	5	10	police station					1	2	2
pinball					1		1	police station					1	1	1
pinball machine		1					1	polishes						1	1
pinball machines						1	1	polite		2		1		1	3
pinched		1					1	pollen			1		2	3	3
pinching				1			1	polluted			1			2	2
pine			1				1	pollutes						1	1
pineapple			1				1	polluting				1		1	1
pineapples			1				1	pollution	3	2				3	5
pink	3	2	1	5	3	7	21	poltergeist						3	3
pinkie				1			1	pond		3	3	3	5	2	16
pinna			1	1			2	ponds					1	2	3
pinning						2	2	ponies	3					1	1
pins				5			5	pontoon						1	1
pipe					3		3	pony	2	8	5	3	2	20	20
pipes		1					1	ponytail			1			1	1
pirates						2	3	pooodle			1			1	1
pistol	1						1	poof		7	7	7	4	11	26
pit					1	1	2	poor		12	8	2	5	12	29
pitch					1	3	4	poor	4	4	2	2	3	13	13
pitched			1		1	3	6	pop		2	1	11		14	14
pitcher			1	1			2	popped		3		3		3	9
pitchforks			1	1			2	popper				2		2	2
fits						1	1	pop's		1				1	1
fits						1	1	popular				3		3	3
pizza		1	1	1			3	population						1	1
pizzas							1	porch		2	1			2	3
pl's							1	pothole			1	1		2	3
place	3	10	16	19	25	40	113	position			1	1		2	2
places			5	3	5	12	26	positions						1	1
plaid						2	2	possibility						1	1
plain			1	2	4	1	8	possible						1	1
plan			1		15	5	21	possum					1	1	1
plans		1	8				14	post						1	1
planas			5				5	postcard			1			1	1
planet		2	1	3	15	40	61	poster						1	1
planets	1	1	6	1			12	postmark				1		1	1
planets'	1						1	postmaster						1	1
planned			1	1	1	2	5	post office			1			1	1
planning			1		1	2	4	pot	1	1	2		1	5	9
plans		2	2	9	1	4	18	potato						1	1
plant			3				3	potato chip						1	1
planted			3	2			5	potato chips				1	1	2	3
planting		1	1	1	6		9	potatoes						1	1
plants						1	1	potions		1				1	1
plaster						1	1	pot's						1	1
plastic				1	2		3	pounded						1	1
plate			1	1			2	pounded						1	1
places							1	pounding				1	1	2	4
platform		1					1	pour			1			1	1
platforms			1				1	poured		1				1	1
play	71	84	99	64	71	63	452	pouring						1	1
playday							1	pow						5	5
played	17	11	18	15	27	15	103								
player	1	3		4	1	2	11								
players			1	1	1	6	9								
playful		2		1	3	2	8								
playground			5	1			6								
playhouse					1		1								

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
power				2			2	puffing			1				1
power		1			2	7	10	puffy						1	1
powered						1	1	pull		2			4	2	9
powerful						2	2	pull-ups					1		1
power planes						1	1	pulled	3	5	1	10	3	11	33
powers				2			2	pulling				1	1	1	3
practical						1	1	pulls				1	2		3
practically					2		2	pumping				1			1
practice			6	1	4	2	13	pumpkins				1		1	2
practiced				2		2	4	punch				2		2	4
practicing				3			3	punched					1		1
prairie			1				1	punished				1			1
prankster						1	1	pup	2		14		3		19
prayed					1	1	2	pup's	1						1
precious			1				1	puppet			3	2			5
prediction					1		1	puppets				4			4
pregnant				1			1	puppies	1	4	2	5	2		14
prehistoric					1		1	puppy	6	6	10	10	12	9	53
prepare						2	2	puppy's	1						1
prepared				1			1	puppy love	1						1
preparing					2		2	pups				2	6		10
present	1			2	2		5	pure					1		1
presence	1	1			1		3	purse	1	2	1	3	6	9	21
president			6	2	1	12	21	purpose				1	1		2
residents				1			1	push					1	2	3
pressed		1		1	2		4	push-ups					1		1
pretend				1			1	pushed	3	3	1	3	2	3	15
pretended						1	1	pushes				1			1
pretending			1				1	pushing					1	1	2
prettier					1	1	2	put	5	19	31	40	47	57	199
prettiest						3	3	puts	1	2		1		2	4
pretty	11	15	19	20	18	27	110	putting				1		2	7
pretzels				1			1	pyramid					2		2
previous						1	1	quadrillion					2		2
previously						1	1	qualities						1	1
prey						1	1	quarter				1			1
price		7		1	1	2	11	quarter horse				1		1	2
prices		2		1	3	1	7	quarter horses						1	1
prime ballerina						1	1	queen		2		2		12	16
prince	1		1	7	2		11	question				1	1	4	6
prince's				1			1	questions			2	1	1	1	5
princess	2		2	4	3	2	13	quick				1	1	4	6
princess'				2			2	quickened						1	1
principal					1	5	6	quickly		1	2	3	5	9	20
principal's					1	1	1	quiet	1	3	6	3	2	13	13
principals					1	1	2	quieted						1	1
printing		1					1	quietly			1				1
prints					1	1	1	quit	1		1	1	1	1	5
prison				1	2	3	6	quite				2	1	5	8
private				1		3	4	quitting						1	1
private detective						1	1	quiver	7	3	14	19	3	9	55
private eye					1		1	rabbit	1			2			3
prize	1	3	5	6	12	15	40	rabbit's					1		1
probably		2					2	rabbit ears							1
probational						1	1	rabbis	2	1	14	1	1	3	22
problem		2	8	2		9	23	raccoon		1			1	1	3
problems			1	5	6	9	21	raccoons				1			1
processed						1	1	race	5	6	13	27	8	11	70
processing						1	1	raced				1			1
prodding						1	1	racers				4			4
produce					1		1	rages	1	3	3	2	6	1	16
product						1	1	rag	1				1		2
products		1					1	racerack	2	1		4	4	5	16
professional						3	4	racing						1	1
professionals						1	1	rackets		1					1
professor					5	2	7	radar			1				1
profit	1					1	2	radiation					1		1
program			1	1			2	radio	1		2		4	2	9
prohibiting		3				8	11	radion			1			1	2
project							1	rafts					1		1
projector				1			1	rag			1				1
projectors					1		1	ragged				1			1
promise		1	2				3	railing				1			1
promoted				1			1	rain	2		2	3	6	6	18
propeller							1	rainbow		3			6	4	16
property				1			1	rainbows			1			2	3
prophecy						1	1	rainbow trout						1	1
proprietor						1	1	rain check					1		1
proprietors	13						13	raincoat							1
pros	1						1	raincoats							1
prospect					1		1	raining			3	2	3	3	11
protect						1	1	rain	1				1		3
protective					1		1	rainstorm							1
protects				1			1	rainwater						1	1
proud	2	1	4	2	4		13	rainy			5	1	2		8
prove			3				3	raise	1	1	1	3	5	5	11
proved					1		3	raised					3	3	6
prune						3	3	raises				1			1
psychiatrist		2					2	raisin				1			1
PT boat				1			1	raising					1	1	2
pterodactyl						2	2	raisins				2		1	2
public						1	1	ramp					1	1	2
public library				1			1	ramps					2		2
puck					1	1	2	ran	4	58	29	76	47	70	284
puddles					1	1	2	ranch			1		4	1	5
puff					1	1	2	rang		1	1	2	1	1	6
								ranging				1			1

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
ranked						1	1	replies							1
ransom						1	1	reply							2
rapidly				2		1	3	report			1	1	2	2	6
rare					1		1	report card					2		2
rarely						1	1	report cards					2		2
rascal			2				2	reported				2		3	5
rat	2			2	11	3	18	reporter					1	2	3
rather				1	1	3	5	reports					1	1	2
rats				1			1	represent						1	1
rattle		1					1	rescue				2	2		4
rattlesnake				2			2	rescued				1			1
raw						1	1	research					2		2
ray		1			1		2	residence						1	1
ray gun				1	1		2	resist					1		1
ray guns		1					1	resorts						1	1
rays						1	1	resources						1	1
re-bandage				1			1	respected				1			1
re-bandaged				1			1	responsibility					1		1
reach				2		5	9	responsible			1				1
reaches		1	1	3	2	9	16	rest	1		6	13	14	14	48
reacher				1		1	2	restaurant			2	2	5		10
reactor						3	3	restaurants					1	1	2
read	2	1	3	11	14	10	41	rested						1	1
reading	2	2	1	1	6	4	16	resting						1	1
reads			1		2		3	restored				1			1
ready		5	3	10	11	17	31	rest room				1			1
real	1	7	9	13	5	33	99	rest rooms					1	1	2
reality						1	1	rests					1		1
realize				1		2	3	results					1		1
realized				1	2	1	3	retains				1			1
realizing						1	1	racine				1	1	2	4
really	3	10	14	38	22	33	120	return			1	2	1	3	7
reappeared				1			1	returned						2	2
reared						1	1	returning						1	1
reason	1		2	2	4	16	25	reunion					1		1
reasonable						1	1	revenge					2		2
reasons						2	2	reverse						1	1
receive					1		1	revolve						1	1
received				1		3	4	revolving					1		1
receiver				1		1	2	reward			1	3	1	2	7
recently					1		1	Rhode Island						1	1
recess				2		3	5	ribbon			1			1	2
recital					1		1	ribbons				1		1	2
record			3		4	3	10	ribs		1				4	4
recorded					1		1	rice							1
records			1			1	2	rich	3	2	14	3	5	11	38
recovered					1		1	richest			1		1		3
recovery room						1	1	rid			3	1	2	5	16
rectangle				1			1	riddle				6			6
red	16	5	8	5	13	12	59	riddles							2
red alert					1		1	ride	7	31	17	27	15	22	129
redbird			1				1	rider	2						2
redheaded woodpecker				1			1	riders						1	1
redwoods			1				1	rides	2		4	3	3	5	17
reelected						1	1	riding	5	7	5	7	22	14	59
reeling					1		1	rig						1	1
ref						1	1	right		19	16	28	36	42	141
refill				1			1	right field						2	2
refilled				1			1	rights						1	1
reflected				1			1	right whale		2					2
refrigerator						1	1	ria						1	1
refused					1		1	ring			1		3	2	6
regardless					1		1	ringing					1		1
region						2	2	rings						3	3
registered nurse						2	2	rink				6		1	2
regular			1		3		7	ripped					1	4	5
regulars					1		1	ripples					1		1
regulation						1	1	rises						1	1
reigned					1		1	rising						1	1
reindeer			1				1	river		1	2	4	1	2	10
reins						1	1	riverboat						1	1
related				1			1	rivers					1	1	2
relation				1			1	RN						1	1
relatives			1		4	2	7	road	4	1	3	7	9	16	40
relax					1		1	roadrunner					1		1
relayed					1		1	roads						2	2
release					1		1	roaming				1			1
relief				1	1		3	roams						1	1
relieve						1	1	roar						2	2
remains			1				1	roared				1			1
remarked						1	1	roasted					1		1
remember			2	6	10	5	25	roasting				1			1
remembered			4	6	2	6	20	rob					1	1	2
remembering						1	1	robbed			2		7	1	9
reminded					2		3	robber	1		4	3	5	1	14
reminds				1	1		2	robber's					1		1
remote						1	1	robbers					1	2	4
rent				1		3	4	robbery					2	3	5
rented			1	1	1		3	robbing					2	2	4
renting					1		1	robin	6			1		1	7
repaired			1				1	robot		1				2	4
repairs					1		1	robots					10	1	8
repeated						1	1	rock	2	1	8	8	9	7	46
repeating						1	1	rockac			7	8		7	31
replaced						1	1	rockers			1	1		2	3
replied			1	5	6	3	15	rocking		1					1

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
rocks		1	3	1	3	1	9	Samoyedic							
rocky							1	sand	1	1	1	3	1	2	9
rod						2	2	sandals				2			2
rode		4	8	5	18	4	39	sandbox				1			1
rodeo						1	1	sanding						1	1
roll				1	1	3	5	sandwich					1	1	1
rolled		3	1	1	4	1	10	sandwiches		1		1	1		3
roller				1	1	2	4	sandy				1			1
roller-skater		2			1	1	4	sang				3	1		4
roller-skates					1	2	3	sank		1					1
roller-skating				3	1	2	6	sarcastically					1		1
roller coaster				1	1	3	5	sat		3		17	14	16	51
roller coasters				1	1	1	4	satisfied				1			1
roller skate		1		3	1	1	6	Saturday	1	3	1	10	3	17	35
roller skates				14			19	Saturdays			2			1	3
rolling						2	2	Saturn	2	1				3	11
rolling pin			1				1	sauce					1		1
roof			2		4	3	9	saucer		2					2
rookie						5	5	save		1	3	7	4	11	26
room		10	13	42	13	37	125	saved		3	1	7	5	6	22
roommate						1	1	saver						1	1
rooms				4	3	5	12	saves						2	2
roomster				6			6	savings			3			1	6
root bear		1	1	1			3	savings account					1		1
rope	1	2		2	2	6	13	saw	29	48	75	129	96	113	490
ropes							2	say		16	9	22	32	43	124
rose			1			1	2	saying		1	3	7	7	10	28
rosebush	1			2	1		3	says		7		2	5	6	20
roses							1	scabbed				1			1
rot						1	1	scale						2	2
rotten						2	2	Scandinavia				1		1	2
rough						1	1	scarcely						1	1
roughen						1	1	scarce		1	1	2	2	1	7
roughest				1			1	scared	5	3	11	32	7	23	82
roughly				1	5	8	14	scaredy-cat			1				1
rounded				1	1		2	scarf				1			1
routine				1			1	scarier					1	1	2
rowing					1	1	2	scaring				2			2
row			2	1	2	1	6	scarlet fever						1	1
rowboat		1					1	scary				3	6	2	11
rowed		1				2	3	scene				1	1		2
rowing					1		1	schema						1	1
royal						2	2	school	26	48	40	44	91	124	383
royalty						1	1	school's			1	2			3
rubbed		1				2	3	schools			1	1	2	5	9
rubber		1					1	schoolteacher					3	1	4
rubber bands					1		1	schoolwork				1	1		2
rubbing alcohol			1				1	science		5				1	7
rude			1				1	scientist	2		1	1	3	1	7
rug			3				3	scientists						2	2
ruin						1	1	scissors						1	1
ruined		9					9	scoop				2			2
rule				1		1	2	score			2	1	3	10	16
ruled				1		1	2	scored			4	1		15	20
ruler					1		1	scores						1	1
rules						1	1	scoring						2	2
rumble				1			1	Scotland						1	1
rumbling						2	2	scram			1				1
rum	12	9	22	22	13	28	106	scrambled		1					1
run						3	3	scrap				1			1
runaway						1	1	scrapers							1
runner					2		2	scratch				2	1	2	6
running		2	4	14	18	23	61	scratched	1						1
running wheel					1		1	scratches		1				1	1
runs	1	1	9	1	4	6	22	scratching					1	1	3
rushed		1		1	2	4	8	scream			3	5	2	3	13
Russian							6	screamed				11	5	5	26
Russians					2		2	screaming	1	1		3	6	7	18
rusc						1	1	screams						1	1
sack		1					1	screen					2	2	4
sacks		1					1	screw				1			1
sacrifice					1		1	scribble			2				2
sacrificed					1		1	scrub						1	1
sad	1	8	2	9	10	9	39	scuba							1
saddest			1				1	sculptures						1	1
saddle			1	2			3	scurried					1		1
saddle horses						1	1	sea	2		5	2	2	5	16
saddles						1	1	seal							1
sadly						1	1	sealed					1		1
safari						1	1	seance						2	2
safe			3	2	6	6	18	search							1
safely				1	1		2	searched		1	2	1	1	2	7
said	16	74	151	276	293	259	1,089	searching		1	1				2
sailboat						2	2	seas						1	1
sailed			1			1	1	seashell		1					1
sailing		1				1	1	season				2	7	7	13
sailed		1		4			5	seasoning						1	1
sale						1	1	seat				6	2	6	14
sales		1					1	seat belts						2	2
salesmen						1	1	seated				1			1
salesperson						1	1	sents			1				1
salt			1		2		3	seaweed		1				5	6
salt water		1					1	sec.							1
salty	1						1	second		3	6	15	7	34	65
same		7	12	14	16	19	68								

[illegible]

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
simple							3	summer parties							1
simply							1	smack			1				2
since			4	5	13	15	37	smacked				1			1
sincerely							1	small	2	4	4	3	12	23	53
sing	1		2	1	1	3	8	smaller				3	1	5	9
singer							1	smar	1	1	3	3	6	5	19
singers							1	smarter					2	2	2
singing		1		4	1	3	9	smartest		1			1	4	6
singla							3	smartly						1	1
singles				1	1		2	smash				1	1	2	4
sings				1			1	smashed				1	3	3	7
sink					3	2	5	smell			5		2	6	14
sinking				1			1	smelled		1		1	1	3	6
sins			1		1		2	smelling						1	1
sir						1	1	smells						1	1
sirens				1			1	smile			1	1	1	1	4
sits						1	1	smiled		1		2	1	2	6
stater	10	23	16	13	32	15	111	smiles						1	1
stater's		2	3	1	4		10	smiling						1	1
staters	1	2	5	3		9	20	smoke			1	1	5	4	11
sit	2	4	2	5	10	19	42	snack					1	2	3
sit-ups						1	1	snack bar				1			1
sit				1			1	snag		1					1
sits						2	2	snake			9	11	9		29
sits	1	1		1	2	1	6	snakes	1		1	1	1		5
sitting		1	3	24	6	16	50	snap				1		2	3
situation						1	1	snap				1			2
six	1	5	3	4	10	7	30	snap	1	1					2
sixteen						1	1	snap						1	1
sixth					2	5	7	sneak			1			2	3
sixty			1				1	sneaked		1					2
six		1		2	1	7	11	sneakers						1	1
sizzling						1	1	sneaky						1	1
sizzle	1	1		2	3	2	9	sneered				1			1
sizzle				3	1	1	5	sneers					1		1
skateboard						1	1	sneered		1				1	2
skateboarding							3	sneering					1		1
skateboards			1	1			2	snooring			1				1
skated				1			1	snoorking					1		1
skater				1			1	snoorking					1		1
skates			1	4	1	1	7	snotty						1	1
skating		2			13	8	23	snow	1		1	1	1	5	9
skeleton				3			3	snowball		2					2
skeletons				1			1	snowing							1
skid					4	2	6	snowman	2	1	2			3	5
skid			2				2	snowman	1						1
skidding				1			1	snowy				1			1
skies						2	2	snuck				3	1	1	5
skiing					2	10	12	snuggled			1				1
skill						1	1	so	28	91	162	253	250	312	1,398
skil						1	1	soaked							1
skinned						3	3	soaking		1					2
skin	1	1	1	1	3	10	10	soap	2		3			2	7
skinned						1	1	soap opera						1	1
skippy				9	3	1	13	soccer	2	4		5		5	16
skipping						1	1	social studies						2	2
skie					2		2	suck			1		1	2	4
skunk			1				1	socks						1	1
sky	1	2	5	6	14	8	36	soda			1				1
skyscrapers				1			1	soda water						1	1
slam					1	1	2	sodium				1			1
slammed			1	2			3	sodium chloride				1			1
slamming					1		1	sodium phosphate				1			1
slap						2	2	soft	9	1			2	3	16
slapped		1				1	2	softball				6	2	4	12
slapping						1	1	softly				1			1
slave				1			1	soil					2	1	3
slavery						2	2	solar panels						2	2
slaves				2	1		3	solar system						3	3
sleds			1				1	sold		6		1	2	3	14
sleek						1	1	solder							1
sleep	4	15	10	21	13	23	86	soldiers							2
sleeping		1	2	2	4	7	16	sole						1	1
sleeping bag			2	1		2	5	solve							3
sleeping bags			1	1			2	solved							2
sleeps		2	1	1			4	solves							1
sleepy						1	1	some	18	80	70	124	97	131	320
sleigh						1	1	somebody	2	1	4	6	5	5	23
slender						1	1	somebody's			1				1
sleep		1	2	2	5	2	12	someday			1		1		3
slice						2	2	somehow			1				1
slide				1			1	someone		4	5	16	15	21	52
slide	3	1	1		2	3	10	someone's				1	2	1	4
slides					1	2	3	something	33	15	20	34	37	50	189
slight						1	1	sometimes	2	3	5	5	8	2	25
slightly						1	1	sometimes	11	22	18	17	19	12	109
slip		1				1	2	somewhat							3
slipped			1	2			3	somewhere		2	1	1	4	5	13
slippery						1	1	son		1		7		5	14
slips				4			4	son's				1			1
slit						1	1	song		1	2	2		3	8
slot machine			1				1	songs		1		3			4
slot machines						3	3	sonny			1	1			2
slow		1	1		1	6	9	soon	1	4	7	18	7	10	59
slowed				1			1	soot					1		1
slower				1			1	sophisticated							1
slowly				5	2	8	15	sorcerer							1

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
sore					1		1	spot				3	2	3	8
sorry			2	2	3	12	19	spots		1	1			1	3
sort			1	1	3		5	spotted				3	3	1	7
sorts		1	3	5	3	1	12	sprained				1	2		3
soul					1		1	spray				1	2		3
sound		2		2		9	14	sprayed				1			1
sounded			1	1	2	1	5	sprayer				1			1
soundproof				1			1	spread			1		1	1	3
sounds		2			1	2	5	spring	8				10	14	32
soup	2					2	4	springer spaniel				1			1
sour				1			1	springs						1	1
sourts						1	1	springtime			2				2
south				7		4	11	sprinkler				1			1
South Dakota		1			1		2	sprung			1				1
southern					1		1	spun				1			1
southwest					1		1	spurs		1					1
souvenir						1	1	spy				1		3	4
space		5	5	15	6	5	36	squad				1			1
spacecrafts				1			1	square				2		2	4
spaceman		2					2	squashed		1			1		2
spacemen						4	4	squeak						1	1
spaceship		16	1	5	8	9	39	squeaky				2		1	2
spaceships		2			1	8	11	squealed					1	1	1
space suit				1			1	squeezed					1		1
space suits				1			1	squid				1			1
spaghetti					4		4	squirrel		3	1		5	4	12
Spain					1		1	squirrels		1			2		3
Spanish					2		2	squirt				1			1
spank						1	1	squirt guns				1			1
spanked		1				1	1	squirting				1			1
spanking						1	1	squirrels		1					1
spare				3	1	2	6	squished			1				1
spaces						1	1	st.						1	1
sparkle		1					1	St. Bernard					1	2	3
sparkled					1		1	stabbed		1		1	2	1	5
sparkles				1			1	stabbing				1			1
sparkling				1	2		3	stable				1	1	2	2
spattered						1	1	stables					2	1	3
sprayed				1			1	stage				5			5
speak					2	3	5	stages			1				1
speaking					1	1	2	staircase					2		2
special	1	1	3	5	7	10	27	stairs				1	4	1	10
specialty		1					1	stairway				1			1
specimen					2		2	scall		1		2			3
speckled grouse						1	1	scalloped				1			1
specks						1	1	scallion		2		2	15		19
spectator					1		1	scallop					7		7
speech			1	2			3	scams		1					1
speed		1			11	4	16	stand			3	4		7	14
speedboat	2			1		1	4	stand by						1	1
speeded				1			1	standing			4	3	4	7	18
speeding				1			1	stands						2	2
speedometer					1	1	2	star	1	1	1	5	9	7	24
spell	1			1	2	1	6	stare					1		1
speller					1		1	stared				1	4		5
spelling		2		1	5	2	10	starfish		2					2
spend		2	4	2	3	10	29	staring		2		4		6	12
spending					2		2	stars					24		24
spends		1					1	starry					5	5	10
spent	1		1	2		1	5	stars							1
sperm		1					1	starship							1
sperm whale		1					1	start		1	2	5	11	23	43
spick-and-span			3				3	started	3	16	24	81	64	90	180
spice		1			1		2	starting				1	3	1	5
spider				4	3	2	9	startled		1			1	2	4
spider's web				1	1	1	3	starts			3		3	6	12
spider's webs				2	1		3	starvation			1				1
spiders				1	2		3	starve						1	1
spied			1				1	starved							1
spies				1		1	2	starving			1			2	3
spiked					1		1	stare			3		5	8	14
spikes						1	1	stared					1		1
spilled			1		1		2	statement						1	1
spin						2	2	staves					3	1	4
spinach					2		2	station				1		2	3
spirited						1	1	stationary					1		1
spirits						1	1	stations						1	1
spic		1		1			2	station wagon					1		1
spitball				1			1	statures		1					1
solace					1		1	scay		3	3	10	12	28	35
splashing						1	1	scayed		4	5	5	9	10	38
splat						1	1	scaying				2		3	5
split			1			2	4	scays				1			1
spoil						1	1	steadily		1			1		1
spoiled				1			1	steak			1				1
spoils				2			2	steel				1	1		2
spoke			2				2	stealer						1	1
sponges				1			1	steaming				1			1
sponsor					1		1	steed						2	2
sponsored						1	1	steel		1		1	2	5	9
spook						1	1	steep					1		1
spookier						1	1	steered						1	1
spookiest				1			1	steering				2	1	1	4
spooks						1	1	steering wheel				1		1	2
spooky		3		2		3	11	step		2		5	2	6	15
sports	2		1	7	4	15	29	stepfather					1		1
sports	1		2	3	7	11	24	stepped		2		5	3	6	16

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
scope		2					20	scupid					1		1
stereo						1	4	style						1	2
stethoscope	1						1	styles						1	1
stewed							1	sub.				1			1
stick	1			3	1		15	subject			1	1		4	3
stickers							1	subjects						4	2
sticking				1			2	submarine						1	1
sticks					1		1	submerged						1	1
sticky							1	subscribe					1		1
still	1	8	1	31	25	50	116	subtract				1			1
sting		1					1	succeed						3	3
stock car							1	success						1	1
stole			5	10	3		20	such			1		2	13	16
stolen		1					1	suck	1		1		2		4
stomach		1		3	5		11	sucked			1				1
stomachache				1			1	suckers	1						1
stomachs							1	sucking				2			2
stone				2	2		4	suction cups					1		1
stones				1			1	sudden		2	6	16	14	24	54
stood		2	1	3	4	6	16	suddenly		1	6	12	4	20	44
stools							1	sum			1				1
stop	3	2	3	22	12	21	63	suffered						1	1
stopped		1	1	14	17	15	48	sugar				1		2	3
stoppers		2					2	suit		1		7	1	3	12
stopping	1			1		2	4	suitcases						2	2
stops				1			2	suites						1	1
storage			2				2	suits			1				1
store	1	12	8	18	25	13	77	summer	13	18	15	12	71	49	175
stores		1	2				3	summer's							1
stories				1	3		4	summers				1	1	1	3
storm	1		2	13			20	summer school							1
storm's				1			1	summertime					1		1
storming							1	sun	8	3	13	19	4	23	70
stormy			1				1	sun's							1
story	1	9	13	14	24	18	79	sunbaths							1
stove	3		2				5	sunbathes							1
straight		2		3	3	5	13	sundae				1			1
straighten				1			1	Sunday	2	5	2	5	3	1	18
strange		7	3	7	4	14	35	Sundays						4	5
strangely				1			1	sunk						1	1
strangled				1			1	sunlight				2		3	5
strap							1	sunny	3		1	3	4		14
strapped							1	sunrise				1			1
straps							1	sunset						2	2
straw							1	sunshade							1
strawberry				1			1	sunshine						1	1
stray							1	sunshiny		1					1
streak							1	suntan			2	1	1	4	4
streaking							1	super			3	14	12	29	29
stream			1	1	2		4	superduper			1			2	3
streams							3	superior						1	1
street	3	5	8	17	9	10	52	supermarket		3					3
streets				2			2	supersonic					1		1
strength							1	supper		4	2	3	10	5	24
stretched							1	supper time							1
strict			1				1	supplied				1			1
strikes		1					1	supplies			1				1
strikes							3	supply		8					9
string		1					1	support					1		1
string beans							2	suppose					3		3
strings							1	supposed				1	1	4	7
stripe							1	supposedly							1
stripes							2	sure			4	13	15	16	49
stroke							1	surf							1
scroller				1			1	surfing	1	1	1	2	4	3	12
scrolling							1	surprise		1	3	2		4	10
strong		3		6	5		19	surprised				1	1	1	4
stronger			1	1			2	surrounded		1					1
strongest							1	surrounding							1
struck				1	2		3	survive							1
structures							1	survivors					3	1	4
struggle							1	suspected							1
struggling				1			1	suspicious					1		1
strung							1	swallowed		1			2	1	4
scrubbed			1				1	swam			2	3	3		8
scube				1			1	swamp		1			1		3
stuck	2	1	2	9	6	3	23	swarming				1			1
stud							1	sway						1	1
student			1				1	sweater	1						1
students				1			1	sweaters						1	1
studied							1	sweating							1
studios							1	Sweden							1
studio							1	sweep							1
study		1	1	2	2	10	16	sweet	1	1	4	4	2	5	17
studying							3	sweetest							1
stuff		5	3	6	9	11	34	swell				1			2
stuffed	1			2	4	3	10	swift							1
stumbled							1	swiftly							1
stump							1	swim	11	9	10	2	12	10	53
stumped							1	swimmer							1
stumps							1	swimming	12	15	11	9	42	29	114
stung			1	1			2	swimming pool			1	2		4	16
stunk							1	swimming pools							1
stunned							1	swimsuits							1
stunt		3					3	swing	2	1	5	1	2	4	15
stunts							1	swinging	1	1		1			4
							1	swings		3	2				5
							1	swish							1

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
swished				1		1	2	centn					1		1
switch						2	2	cents		2	1	1	1		5
switched				1			1	certain							1
Switzerland						4	4	terrible			1	2		6	9
swooped						3	3	terribly					1		2
swoosh						1	1	terrier					2		2
sword		5			1	5	12	terrific				1	1	2	4
swords					2		2	terrified				1		1	2
swore						1	1	terrifying						2	2
sworn					1		1	terror						2	2
synonyms					1		1	test			4	2	3	3	12
syrup				1			1	tested		1					1
system				2			2	testing					1		1
table		2	2			3	10	tests					1	1	2
tables				1		2	3	Texas		2			10	5	17
tablet					1		1	than	1	5	7	16	19	32	80
tackle		1				1	2	thank		5	5	5	3		27
tackled						1	1	thanked			2	1	5		8
taco			3				3	thankful							3
tacos			2				2	thanks	32	91	177	231	269	396	1,198
tag	2	2	3	1			8	that							1
tags	1					3	4	that'll							1
tail	1	1	3	3	5	3	22	that's	10	9	18	21	32	34	124
tailgate			1				1	the	161	780	1,146	1,924	1,738	2,415	5,401
tails				2			2	cheater					3	1	4
taka	4	11	29	44	38	39	167	their	3	13	23	50	74	104	268
taken				1	2	5	3	them	13	51	60	111	113	161	525
takeoff				1			1	themselves					1		1
takes	1	3	1	4	2	7	18	then	25	156	182	277	233	222	1,096
taking		1	10	6	9	3	29	there	29	71	109	205	211	245	872
take				2	1		2	there's	1	2	3	9	10	8	33
talent							2	thereafter					1		1
talms			1	1			2	these		2	8	3	14	17	44
talk	4	4	6	11	14	11	51	they	51	142	188	380	363	456	1,585
talked		3	1	5	3	15	27	they'd					1		1
talking		1	2	9	13	8	33	they'll		1			1		2
talks				1		1	2	they're	1		1	12	8	20	42
tall		1	4	3	8	6	22	they've				1		2	3
tallies					2		2	thick				1	1	1	3
talliesc				1			1	chief							1
tame					4	1	6	chieves			2				2
tan		3	1	1	3	2	9	chin				1	1	1	3
tank						2	2	ching	1	17	13	19	29	46	130
tape							1	chings	9	23	20	36	29	51	168
tapped				1			1	chink	9	14	20	27	29	53	152
car	1					1	2	chinking		2	2		5	8	17
cardy		1					1	chinks	1			1	1	2	5
cards					1		1	chird		2	6	1	3	23	37
raste		1					1	chird base					1	2	3
rasted				1			1	chirde							1
rastes					2	1	3	chisary	1		1				2
rascy			1	2	1	2	6	chirteen					1	5	7
taught					2	2	8	thirteen					1		1
tax		1					1	thirteen					1		1
taxes		1					1	thirty		2		1	2	1	6
tea	1			1	7	3	12	thirty-first							1
teach	1	1		2	5	10	19	thirty-three							1
teacher	4	9	11	16	24	34	98	this	8	35	52	67	114	116	393
teacher's		1	1	1			4	thorn			1				1
teachers		2	1	1	2	2	2	thoroughbread				8	6	10	24
teaches					2	1	3	those						1	1
teaching					2	1	3	thou							1
teamm		4	8	7	14	17	50	though				5	8	8	21
teammates				1			1	thought	4	3	16	20	41	47	131
teams				2	2		6	thoughtful					3		3
teat			1	1			1	thoughts						1	1
tearing				1			1	thousand		2	3	2	6	1	13
tears		1		1	1	2	5	thousands					1	2	3
cease				2	1		4	threatened						1	1
ceased					1		1	threw	4	12	26	30	43	78	193
ceasing						1	1	thru		6	5	3	8	14	39
technical						1	1	thrill						2	2
teenager			1	1			2	thrilled						1	1
teenagers			1		1		2	throat					3		4
teeth	2	4	3	7	7	5	28	throne					1	1	2
telephone					3		3	throatle							1
telescope					1		1	through	1		11	18	20	32	88
television	1	1	1		3	5	11	thruv		1		9		12	26
televisiona					1		1	throwing				1	2		3
television sec					1		1	thrown			1	7		2	10
tell	5	6	20	20	27	24	102	throws				1			1
telling	1			3	1	2	7	thud				1			1
tells			1				1	thumb							1
temper					1		1	thump						1	1
temperature					1		1	thunder			1			1	2
temptations							1	thundering				1	1		2
tempted							1	thunderscorn						1	1
ten		3	6	11	16	5	41	Thursday		3	1	1		3	8
ten-chirty		1					1	tickac						2	2
tender						1	1	tickac	2	2	2	1			7
Tenn.				1			1	tickles					1		1
Tennessee			1	1	1	2	5	tickles						1	1
tennis		2	2		1	11	16	tidal wave						1	1
tennis shoe		2		3		3	8	tie						1	1
tennis shoes		1			1		1	tis breaker						1	1
tenae					1		1	tied		2	4	1	4	3	14
tent		2	8	1	2	1	14	tiger	2	2			3	4	14

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
tigers	1						1	trampoline			1			1	1
tight				3	1	1	5	trampolines						1	1
tighter				2			2	trance					1		1
tightly						1	1	transferred			1		1		2
tightrope				3			3	transformed				1		1	2
till	1	3	4	12	11	12	43	transmission						1	1
tilted				1		1	2	transportation			1	2			3
tills							1	trap		5	4	3	2	10	24
timber			1			3	4	trapdoor				1	2		3
time	21	64	77	88	98	129	469	trapdoors					1		1
time out			1				1	trapeze artist				1			1
times		7	6	12	11	9	45	trapeze artists				1			1
tin		3					3	trapped				1		2	3
tingle						1	1	trapping				1			1
tingling						1	1	traps		2	4				6
tiny			2	4	2	1	9	trash				2		7	9
tip					1	1	2	trash can							1
tipped		1		1	2	1	4	trawl				2		3	3
tipsoed					1		1	traveled				1			1
tire	1	1	1	2		6	11	traveler						2	2
tired			4	10	3	8	25	traveling						3	3
tires		1	1		1	1	4	tray						1	1
title		6	3	1			10	treacherous				1			1
titled				1			1	treachery						1	1
to	198	550	686	1,004	1,192	1,409	5,056	treasure			1		1		2
toast			2		1		3	treasures			1				1
today	7	8	9	10	21	17	72	treasure				1		2	3
toe		1	2	9	3		17	treasure				1		3	5
toes					1		1	treasures			1				1
toe shoes					1		1	treasury					1		1
together	3	11	14	14	26	17	85	tree	9	20	53	4	21	23	130
told		16	18	68	67	102	271	tree house					1		1
toll					1		1	trees	2	2	4	13	13	11	45
tomato	1		1		1	1	4	trial						1	1
tomatoes		1		1		1	3	tribe			2			2	2
tom					4		4	tribe		1		2	3	6	12
tomboy						1	1	trick-or-treat				1			1
tomestone						1	1	trick-or-treating				2		2	4
tomestones						1	1	tricked				1			1
tomorrow		2	2	4	6	6	20	trickles						1	1
tongue						2	2	tricks	1		1	4	2	3	11
tonight		1	6	1	3	3	14	tricycle					1		1
tons						1	1	tried	1	10	9	26	14	18	73
too	22	48	87	48	97	60	364	tries		7					7
took	4	20	29	81	53	54	242	trials					1		1
tools					1		1	trillions					1		1
tooth	1				4		4	trip	2	7	21	20	8	14	92
toothache					1		1	triple				1			1
toothed			1				1	triples					1		1
top		2	4	5	11	17	40	triplets						2	2
topic						1	1	tripped		1		3	4	7	15
tops				1			1	trips					2		2
core				4		1	7	troll			1				1
corn					2		2	rolls						1	1
cornado						1	1	roop		1					1
total					1		1	trophies				1	2		3
totally				1			1	trophy		1		1	4		6
toucan					1		1	tropical			2				2
touch					2	3	5	trot						1	1
touched				1		2	3	trouble		4	1	5	6	5	21
touching				1	3		4	trout						14	14
tough						1	1	truck	2	3	14	21	13	10	61
toughest			1	2			3	trucking							3
tourism						1	1	trucks		5		2		3	10
toward		1	2	5	4	10	22	truce		4	8	6	8	9	16
towards				1	1	3	5	truly					1	2	3
towed				1			1	trunk		1	1				2
towel					2	1	3	trust					1	1	2
towels				1		1	2	trusted						1	1
tower				2		1	3	truth	2		1	3	2	1	9
town		6	7	9	11	18	51	try			15	13	12	13	59
towns						1	1	trying	2	3	6	9	10	13	43
townspeople		1			1		2	tub				1			1
cow truck		1			1		2	tubes		1					2
toy	5	4	1	1	4	1	12	tuck			1				1
toys	2	8	1	1	4	1	17	tucks				2			2
trace						1	1	Tuesday			1	1	1	1	4
track	1		2	2	4	8	17	Tuesdays						1	1
trackar						1	1	sufface					1		1
tracks		1		2	5		8	tug							1
tractor				3	4		7	tugging					1		1
tractors				1	2		3	tumble			1		1		2
trade		1	1	1		2	5	tumbled						1	1
traded						1	1	tumbling						1	1
tradition						1	1	tunes					1		1
traffic						3	3	tune		1					1
tragedy						1	1	tune					1		1
trail					3	2	5	tuned					2		2
trailer		1		1	2		4	tuning						1	1
trailer court					1		1	tunnel			4				4
trailers							2	tunnels					3		3
trails					2		2	turbulence						2	2
train	4	1	3	4	1	3	16	turkey			2	8			12
trained		2	1	2	1		6	turn	1	6	3	12	7	10	39
trainer				3			3	turned	2	7	3	24	13	29	50
trapping				1	1		2	turning				3			3

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
turns				1	1	2	4	uses					2	2	4
turnc					1	1	2	using					1	3	4
turnc	6	1		10	1	1	19	USSR		1					1
turnc	3	1					4	usual			2		2		4
tusks	1						1	usually			1	8	6	5	20
tutti-frutti				3			3	Utah					1	1	2
TV	4	14	4	16	6	12	56	vacated						1	1
weak						1	1	vacation	2	9	3	3	7	19	43
weak						1	1	valuable							2
weak						1	1	vampire			2	7	1		8
weak						1	1	vampires					1		1
weak						1	1	van		1		1	4	2	8
weak						1	1	vanilla				1			1
weak						1	1	vanished	1			1		1	3
weak						1	1	vanishing cream				2			2
weak						1	1	vane					1	1	2
weak						1	1	varmint			1	1			2
weak						1	1	vault						1	1
weak						1	1	vegetable		10			1		11
weak						1	1	vegetables		13				1	14
weak						1	1	vehicle						1	1
weak						1	1	velvet						1	1
weak						1	1	Venus	1	3		2		3	9
weak						1	1	Vermont						1	1
weak						1	1	vermilion						1	1
weak						1	1	very	33	69	45	84	87	101	419
weak						1	1	vessels				1			1
weak						1	1	vst					1		1
weak						1	1	veterans						1	1
weak						1	1	veterinarian						3	4
weak						1	1	victory							1
weak						1	1	video							1
weak						1	1	videotape						3	3
weak						1	1	vies						1	1
weak						1	1	village			2			7	9
weak						1	1	vine					2	1	3
weak						1	1	vintage				1			1
weak						1	1	violet				1			1
weak						1	1	Virginia						1	1
weak						1	1	vision							2
weak						1	1	visit		8	5	8	10	11	42
weak						1	1	visited			1	1	1	1	4
weak						1	1	visiting							1
weak						1	1	visitor				1			1
weak						1	1	visits						1	1
weak						1	1	visualize						1	1
weak						1	1	voice		1	3	5	2	14	25
weak						1	1	volcano			2				3
weak						1	1	volcanoes					2		2
weak						1	1	volleyball				1		2	3
weak						1	1	volunteered					1	3	4
weak						1	1	voodoo				2			2
weak						1	1	vote						1	1
weak						1	1	vow						1	1
weak						1	1	voyage					2	2	4
weak						1	1	vs.				1			1
weak						1	1	vad				1			1
weak						1	1	vade		1					1
weak						1	1	vagging						1	1
weak						1	1	vagon	2					2	4
weak						1	1	vagons					1		1
weak						1	1	vags		1					1
weak						1	1	vaiet				1			1
weak						1	1	wait		2	8	8	11	11	40
weak						1	1	waited	1		4	1	3	4	12
weak						1	1	waiter							1
weak						1	1	waiter's							1
weak						1	1	waiting		1	4	5	3	5	18
weak						1	1	waits						1	1
weak						1	1	wake		3	1	3	1	2	10
weak						1	1	waked							1
weak						1	1	waken							1
weak						1	1	wakes		1		2	1		4
weak						1	1	waking				1			1
weak						1	1	walk	8	11	13	8	18	14	72
weak						1	1	walked		5	6	24	25	31	93
weak						1	1	walkie-talkie							1
weak						1	1	walking	1	5	12	40	39	34	133
weak						1	1	walking horses					1		1
weak						1	1	walkover					1		1
weak						1	1	walks					1	1	2
weak						1	1	walkway			1				1
weak						1	1	wall	1	2	2	7	1	5	17
weak						1	1	wallic				1			1
weak						1	1	walleyes							1
weak						1	1	walloped						3	3
weak						1	1	wallow				1			1
weak						1	1	walle					1		1
weak						1	1	walnuts				1			1
weak						1	1	van						1	1
weak						1	1	vand		1				1	2
weak						1	1	vander			1				1
weak						1	1	vandering			1				1
weak						1	1	want	28	37	29	51	67	77	290
weak						1	1	wanted	3	17	20	38	31	38	147
weak						1	1	wanting				1		1	2

Word	First	Second	Third	Fourth	Fifth	Sixth	Total	Word	First	Second	Third	Fourth	Fifth	Sixth	Total
von	3	11	9	13	12	18	56	zip						1	1
von's	4	2	6	9	15	7	44	zombie						1	1
wonder		1	2	2	1	5	11	zoo	14	3	4	4	13	3	46
wonderful		3		2	3	6	14	zoom					1	1	2
wondering				1		2	2	zoomed					1		1
wonderland								zooming				1			1
wood			8	1	1	7	20	zoos				1		1	2
woodchuck		2					2								
wooden				1		1	2								
woodpecker	1	1					2								
woods	3	3	9	11	15	12	53								
woodsman		2					2								
word		1	1		2	4	8								
words		1	2		1	2	6								
word		1	1	2	1	1	6								
work	3	13	19	19	10	35	119								
workad	1	3	1	3	7	2	17								
workers			1			1	2								
working		6	2	10	5	10	33								
workman			1	3			4								
works		1	4	2	3	2	12								
work sheets					1		1								
world	2	9	10	15	19	34	89								
world's			2			2	4								
worm				1		1	2								
worms				1	1	4	6								
worried		9	2	1	1	5	18								
worry		1		2	3	3	14								
wotca				2			2								
worshipped				2			2								
worst		3	1	1	3	2	10								
worth					1	5	6								
would	21	66	108	120	222	384	920								
wouldn't	1	1	3	11	19	22	57								
wound						1	1								
wow		1	2	3			6								
wrap		1	1			2	4								
wrapped				2		1	3								
wrapper				1		2	3								
wrapping						1	1								
wreck	1		2	1		1	5								
wrecked					1	1	2								
wrecking					1	1	2								
wrestle				1		1	2								
wrestling			1				1								
wrinkled						1	1								
wrist				1			1								
write		3	2	3	1	6	19								
writes	1						1								
writing	2	1	2	2	2	2	11								
written						1	1								
wrong			3	9	12	12	36								
x-rays					1	1	2								
yacht			1				1								
yank				1			1								
yard		6	5			8	19								
yarda				2	2	1	5								
yarn	1						1								
yavned						1	1								
yeah		1	1	2	7	1	13								
year	4	6	15	17	49	35	126								
years	3	18	20	29	53	39	162								
yell			1	1	1	2	5								
yelled		1	4	10	13	14	44								
yelling			2	7	1	4	14								
yellow	4	3	1	2	10	3	23								
yells		2				1	3								
yelp						1	1								
yep					1		1								
yes	7	10	18	12	21	15	83								
yesterday	6	5	4	5	4	2	27								
yet		3	2	2	2	9	18								
yippee		1				1	2								
Yorkshire carrier						1	1								
you	47	103	157	215	310	313	1,139								
you'd				1		1	2								
you'll		1	3	6	4	3	16								
you're		1	12	13	16	11	53								
you've			1			2	3								
young		6	3	4	22	19	54								
younger						2	2								
youngest				1	6	5	12								
youngsters					1		1								
your	4	16	23	47	45	52	189								
yours				2	2	2	6								
yourself		1		2		3	6								
yrs.					1		1								
Yugoslavia					1		1								
yum-yum				1			1								
yummy					1		1								
zap						2	2								
zabta				1	7		8								
zabtas					6		6								
zero					1		1								