

Basic Data on Hearing Levels of Adults 25-74 Years

United States, 1971-75

Measurements of pure-tone air-conduction and bone-conduction hearing levels at four frequencies and of speech reception hearing levels for the right ear of adults by age, sex, and race.

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PREFACE

The National Center for Health Statistics has as its mission the collection, analysis, and dissemination of data on the health of the population of the United States. One of the major programs is the Health Examination Survey, in which are conducted extensive examinations of a sample of the U.S. population. Data from this survey have been published periodically in Series 11 reports of *Vital and Health Statistics*.

Historically the published documents in Series 11 present only a small fraction of the available data. In order to make additional data available for users, the Center has for many years had a policy of preparing public use microdata tapes for purchase by persons interested in more detailed analysis or analysis of additional variables not published in Series 11 reports. These data on tape, however, are only easily accessible to persons with computers and support staff who can read, interpret, and analyze the data. In order to make these data more generally accessible to many users and, in particular, to persons not able to directly use data tapes, the Division of Health Examination Statistics, in the autumn of 1977, initiated a program to release, along with the data tapes, basic descriptive summary tables of data contained in those tapes. These tabular summaries have been termed "basic data publications," of which this report is one.

These basic data publications present findings of the Health and Nutrition Examination Survey of 1971-75. These publications include for each of the data sets information on the methods used to collect the data, a descriptive summary of the tables included, an index to the tables, and the tables themselves. An appendix describes the basic format of the associated data tape. More detailed information on use of the data for additional analysis is available on request from the staff of the Division of Health Examination Statistics.

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BASIC DATA ON HEARING LEVELS OF ADULTS 25-74 YEARS

Michael Rowland, Division of Health Examination Statistics

INTRODUCTION

This report summarizes some of the audiometric test findings for pure-tone air and bone conduction and for speech reception from the first Health and Nutrition Examination Survey, 1971-75, among the civilian noninstitutionalized population of the United States 25-74 years of age. The pure-tone audiometric findings are based on monaural hearing levels obtained by individual air-conduction testing and by bone-conduction testing with a bone vibrator at four frequencies. The speech component obtained data on the examinee's ability to identify speech and the relationship of this ability to pure-tone air-conduction hearing thresholds.

These audiometric pure-tone and speech data are recorded on microdata tapes which are available for purchase. Additional variables not included in this report are available on the tapes for persons interested in a more detailed analysis. The sample distribution of all the variables on the microdata tapes can be found in the pertinent tape documentation.

Other data related to hearing were collected on the General Medical History Supplement, ages 25-74, and the General Medical Examination (referred to as the "detailed examination"). The forms used to collect the data and a description of the plan and operation of this survey are presented in three reports in the *Vital and Health Statistics* series.^{1,2}

Appendix I contains the age, sex, and race distribution of the noninstitutionalized U.S. population at the midpoint of the survey, the

distribution of the probability sample drawn from it, and a discussion of the statistical design of HANES I.

Appendix II gives the definitions of demographic terms used in this report.

SOURCES AND LIMITATIONS OF THE DATA

The findings in this report summarize the air-conduction hearing levels of the right ear obtained with pure-tone audiometers and are representative of hearing levels of the 1971-75 survey population. Bone-conduction hearing thresholds were determined for a subset of this sample and were limited to those subjects examined from the beginning of the survey in April 1971 through June 1974. The speech component was conducted from July 1974 through October 1975. By design, the full sample as well as the two subsamples are representative of the non-institutionalized U.S. population aged 25-74 years at the respective midsurvey points.

Hearing threshold level, as used in this report, is the lowest intensity of a pure tone produced in the audiometer earphone that is just audible to the ear of the examinee in the specified number of trials. The standard audiometers used in the survey were calibrated in accordance with the 1969 American National Standards Institute (ANSI)³ specifications. Hence the zero sound intensity level on the dial of these instruments corresponds to the 1969 ANSI reference zero.

Air Conduction and Bone Conduction

Each adult was tested at four frequencies: 500, 1000, 2000, and 4000 Hertz (Hz), with the 1000-Hz frequency repeated a second time as a measure of the reliability of test results. Air-conduction tests for both ears were completed first, then the bone-conduction tests were done in the order indicated on the recording form (appendix III). Alternation of presentation to each ear was varied among examinees to guard against errors in testing.

The threshold recorded for each frequency was the lowest decibel (dB) level at which 50 percent or more of the responses were obtained, that is, in 2 out of 3 or 3 out of 5 trials. Masking for the nontest ear was done in air-conduction testing only on retest when there was a 40-dB difference or more in the thresholds for the two ears. In bone-conduction testing, masking was done routinely in the nontest ear at 30, 40, and 50 dB above threshold for that ear. Standardized testing procedures were used to ensure that test results were as consistent as possible throughout the survey. Any condition such as earache, cold, or other problem that might affect the test results was also recorded.

All but 104 sample persons were given an air-conduction test, and all but 90 eligible subjects were given the bone-conduction test. Some adults were not examined at all, and some had examinations that were incomplete. The extent of missing data for the hearing tests is shown in table I.

The findings from the air- and bone-conduction tests are limited in this basic report to those for the right ear and hence tend to somewhat underestimate the actual hearing levels in the population as determined from the better ear.

Speech Reception

Each subject was asked to repeat lists of 10 sentences, each list containing 50 key words, beginning at 10-15 dB below the air-conduction threshold obtained from the first test at 1000 Hz. When the air-conduction threshold was 35 dB or more, the first list was presented at 20 dB. If the examinee missed six key words or more,

the next list was presented at a level 10 dB higher. Testing was continued in this way until the subject missed five key words or less or until the ear had been tested at 80 dB. Each right ear was tested in this way beginning with the list immediately following the last list used for the previous examinee.

HIGHLIGHTS

National prevalence estimates of right ear hearing level thresholds and speech reception thresholds are expressed as percents in the tables of this report. If corresponding population estimates are desired, the percent can be multiplied by the total population estimates provided in tables II-IV.

Air Conduction

The prevalence of some degree of hearing handicap that would interfere with understanding speech (defined in this report as a hearing level of 21 dB or more above audiometric zero, ANSI, 1969) in the right ear ranges from 12.3 percent to 20.7 percent at the pure-tone frequencies often considered most important for understanding speech, i.e., 500, 1000, and 2000 Hz. At 500 Hz 13.8 percent of women have a hearing level of 21 dB or more compared with 10.7 percent of men. At 2000 Hz the prevalence rates are 17.7 percent and 24.1 percent for women and men, respectively. The proportion of black adults with this degree of hearing handicap exceeds the proportion of white adults by 3.4 percent at 1000 Hz. The increase in this degree of hearing handicap with increasing age is greatest at the higher tones, 2000 and 4000 Hz. At 2000 Hz 4.4 percent of adults 25-34 years of age have a hearing threshold of 21 dB or more compared with 55.5 percent of those 65-74 years of age. At 4000 Hz prevalence rates for this degree of hearing handicap range from 12.1 percent for persons 25-34 years of age to 78.4 percent for those 65-74 years of age. More than 12 percent of adults 25-74 years have hearing thresholds equal to or better than the 1969 ANSI audiometric zero at all four frequencies (tables 1-16).

Bone Conduction

The prevalence of bone-conduction hearing thresholds of 21 dB or more above audiometric zero in the right ear of adults 25-74 years ranges from 15.1 percent at 1000 Hz to 35.2 percent at 4000 Hz. There is little difference between these hearing threshold levels for men and women at the lower frequencies. At 2000 Hz 18.7 percent of men have a bone-conduction hearing level of at least 21 dB compared with 14.4 percent of women. At 4000 Hz the prevalence rates are 49.0 percent and 22.9 percent for men and women, respectively. The proportion of black adults with a bone-conduction hearing handicap exceeds the proportion of white adults with such a handicap by 3.9 percent at 1000 Hz. The increase in this type of hearing handicap with age is greatest at 2000 and 4000 Hz. At 2000 Hz 2.6 percent of adults 25-34 years of age compared with 46.6 percent of adults 65-74 years of age have a hearing threshold of 21 dB or more. At 4000 Hz the prevalence rates range from 11.2 percent for those 25-34 years of age to 70.1 percent for persons 65-74 years of age. Bone-conduction hearing thresholds of audiometric

zero or better range from 12.4 percent at 500 Hz to 33.9 percent at 2000 Hz (tables 17-32).

Speech Reception

Approximately 71.5 percent of adults 25-74 years of age could hear and understand everyday speech at 20 dB amplification (i.e., missed 5 or fewer words from 1 of 10 50-word lists of Revised Central Institute for the Deaf (RCID) sentences.⁴ At the midsurvey point in 1975, an estimated 0.9 percent of the U.S. population 25-74 years of age would have been unable to understand speech at 80-dB amplification. The percentage of adults meeting the speech reception test criterion at 20 dB decreases with age from 91.4 percent at 24-34 years to 33.2 percent at 65-74 years. Women have better hearing reception than men above age 34. At 55-64 years the proportion of women who hear and understand everyday speech exceeds the proportion of men by 11.6 percent. The proportion of white adults who hear and understand at 20 dB exceeds the proportion of black adults by 8.7 percent (tables 33-36).

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Table 1. Percent distribution of adults 25-74 years of age by air conduction hearing levels in decibels
for the right ear at 500 Hertz, age, and sex: United States, 1971-75

Age at examination and sex	Hearing level in decibels ¹									
	All levels	Less than -9	-9 to -4	-4 to 1	1 to 6	6 to 11	11 to 21	21 to 31	31 to 51	51 or more
<u>Both sexes</u>										
25-74 years	100.0	0.2	1.7	11.0	25.3	23.8	25.6	6.8	3.5	2.0
25-34 years	100.0	0.5	2.4	17.5	34.7	23.0	17.9	2.5	1.0	0.5
35-44 years	100.0	0.0	2.8	13.5	31.1	24.8	21.6	3.4	0.9	1.7
45-54 years	100.0	0.3	1.9	9.8	23.9	26.8	25.5	6.2	3.7	1.8
55-64 years	100.0	0.1	0.4	5.1	17.1	22.5	34.9	11.9	5.6	2.5
65-74 years	100.0	0.0	0.1	3.0	9.4	20.7	35.5	15.9	9.9	5.4
<u>Male</u>										
25-74 years	100.0	0.3	1.7	11.3	26.1	23.6	26.3	6.0	2.8	1.9
25-34 years	100.0	0.7	1.7	17.9	35.7	24.1	16.6	2.1	1.1	0.1
35-44 years	100.0	-	2.9	12.4	31.8	23.2	23.6	3.5	0.7	2.0
45-54 years	100.0	0.6	2.1	10.2	24.0	25.8	25.9	6.4	3.0	2.0
55-64 years	100.0	0.1	0.5	6.1	16.3	19.8	37.7	11.8	4.7	3.0
65-74 years	100.0	-	0.1	4.0	11.5	24.4	37.7	10.5	7.7	4.1
<u>Female</u>										
25-74 years	100.0	0.1	1.8	10.6	24.6	24.1	24.9	7.6	4.1	2.1
25-34 years	100.0	0.2	3.1	17.1	33.7	22.0	19.1	2.8	1.0	0.9
35-44 years	100.0	0.1	2.8	14.6	30.4	26.3	19.9	3.4	1.2	1.4
45-54 years	100.0	0.1	1.6	9.5	23.8	27.7	25.3	6.1	4.4	1.6
55-64 years	100.0	0.1	0.3	4.2	17.9	24.9	32.3	12.0	6.3	2.1
65-74 years	100.0	0.1	-	2.2	7.9	17.9	33.9	20.0	11.6	6.5

¹Re audiometric zero (ANSI, 1969).

Table 2. Standard errors of percents of adults 25-74 years of age by air conduction hearing levels in decibels for the right ear at 500 Hertz, age, and sex: United States, 1971-75

Age at examination and sex	Hearing level in decibels ¹									
	All levels	Less than -9	-9 to -4	-4 to 1	1 to 6	6 to 11	11 to 21	21 to 31	31 to 51	51 or more
Both sexes										
25-74 years	—	0.09	0.37	0.98	1.02	0.92	1.26	0.53	0.35	0.29
25-34 years	—	0.21	0.68	2.00	2.33	1.70	2.24	0.61	0.38	0.30
35-44 years	—	0.05	0.86	2.03	2.98	2.75	2.68	0.80	0.36	0.59
45-54 years	—	0.32	0.54	1.36	1.54	1.94	2.20	1.03	0.80	0.59
55-64 years	—	0.10	0.25	1.14	1.93	1.96	2.10	1.71	1.14	0.74
65-74 years	—	0.05	0.08	0.90	1.52	1.90	2.50	1.75	1.41	1.27
Male										
25-74 years	—	0.18	0.43	1.07	1.44	1.19	1.63	0.76	0.46	0.38
25-34 years	—	0.40	0.75	2.59	3.67	2.49	2.87	0.94	0.57	0.17
35-44 years	—	—	1.32	2.83	3.89	3.05	3.29	1.33	0.33	0.81
45-54 years	—	0.66	0.88	1.77	2.26	2.27	2.51	1.54	1.07	0.76
55-64 years	—	0.08	0.46	1.74	2.64	3.04	3.29	2.64	1.62	1.04
65-74 years	—	—	0.19	1.44	2.09	3.11	3.95	2.14	1.76	1.37
Female										
25-74 years	—	0.06	0.41	1.23	1.29	1.35	1.45	0.74	0.53	0.44
25-34 years	—	0.18	1.06	2.44	2.99	2.44	2.79	0.96	0.53	0.58
35-44 years	—	0.10	1.10	3.04	3.79	3.71	3.52	1.05	0.61	0.87
45-54 years	—	0.09	0.83	2.17	2.12	2.88	3.04	1.36	1.16	0.89
55-64 years	—	0.17	0.26	1.50	2.98	2.98	2.91	2.22	1.53	0.96
65-74 years	—	0.09	—	0.98	1.94	2.37	2.93	2.49	2.05	1.89

¹Re audiometric zero (ANSI, 1969).

Table 3. Percent distribution of white and black adults 25-74 years of age by air conduction hearing levels in decibels for the right ear at 500 Hertz and age: United States, 1971-75

Hearing level in decibels ¹	White						Black					
	Age at examination						Age at examination					
	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years
All levels	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than -9	0.2	0.4	0.0	0.1	0.1	0.0	0.9	1.0	—	2.3	0.3	—
-9 to -4	1.8	2.5	3.2	1.7	0.4	0.1	1.5	1.8	0.5	3.7	—	—
-4 to 1	11.5	18.6	14.3	10.4	5.0	3.0	7.3	10.1	8.8	4.9	6.2	3.1
1 to 6	25.0	34.3	30.8	23.5	17.4	9.4	25.9	36.0	27.8	27.2	14.9	8.6
6 to 11	23.9	22.9	24.9	27.4	22.1	20.5	23.8	22.2	25.7	21.5	27.3	23.2
11 to 21	25.5	17.6	20.8	25.6	34.9	36.3	26.2	21.4	29.2	24.0	33.6	26.2
21 to 31	6.8	2.4	3.2	5.6	12.3	15.7	7.6	3.1	5.5	11.8	5.5	18.4
31 to 51	3.3	0.7	0.9	3.8	5.5	9.2	5.3	4.3	1.3	3.3	7.2	17.9
51 or more	2.1	0.6	1.8	1.9	2.3	5.7	1.6	—	1.3	1.1	5.0	2.7

¹Re audiometric zero (ANSI, 1969).

Table 4. Standard errors of percents of white and black adults 25-74 years of age by air conduction hearing levels in decibels for the right ear at 500 Hertz and age: United States, 1971-75

Hearing level in decibels ¹	White						Black					
	Age at examination						Age at examination					
	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years
All levels	—	—	—	—	—	—	—	—	—	—	—	—
Less than -9	0.07	0.21	0.06	0.12	0.10	0.06	0.64	1.04	—	3.09	0.45	—
-9 to -4	0.40	0.75	0.98	0.56	0.28	0.09	0.95	1.73	0.76	3.01	—	—
-4 to 1	1.08	2.30	2.20	1.47	1.12	1.01	1.81	4.09	4.01	2.22	4.28	2.20
1 to 6	1.04	2.54	2.75	1.57	2.07	1.62	3.21	5.93	8.83	5.55	5.24	4.06
6 to 11	0.94	1.80	2.84	2.01	1.98	2.02	2.92	5.61	6.19	5.77	7.08	5.89
11 to 21	1.39	2.51	2.63	2.29	2.10	2.71	2.55	4.37	7.53	5.87	7.93	7.44
21 to 31	0.57	0.66	0.89	0.99	1.77	1.84	1.39	1.98	2.52	4.27	2.38	2.18
31 to 51	0.36	0.24	0.35	0.89	1.15	1.41	1.61	3.01	1.31	2.45	4.55	6.55
51 or more	0.31	0.34	0.65	0.64	0.72	1.37	0.91	—	1.40	1.29	4.12	2.55

¹Re audiometric zero (ANSI, 1969).

Table 5. Percent distribution of adults 25-74 years of age by air conduction hearing levels in decibels for the right ear at 1000 Hertz, age, and sex: United States, 1971-75

Age at examination and sex	Hearing level in decibels ¹									
	All levels	Less than -9	-9 to -4	-4 to 1	1 to 6	6 to 11	11 to 21	21 to 31	31 to 51	51 or more
<u>Both sexes</u>										
25-74 years	100.0	0.2	1.8	10.2	26.1	24.0	23.8	7.6	4.0	2.1
25-34 years	100.0	0.2	3.2	18.3	38.0	23.0	13.7	2.4	0.7	0.4
35-44 years	100.0	0.1	2.9	12.6	30.9	26.8	20.2	4.5	0.9	1.1
45-54 years	100.0	0.2	0.7	7.8	25.0	27.7	26.1	6.7	4.1	1.6
55-64 years	100.0	0.2	0.8	4.3	15.3	21.8	34.0	13.8	6.5	3.3
65-74 years	100.0	0.2	0.3	1.8	9.9	18.4	32.9	16.6	13.1	6.7
<u>Male</u>										
25-74 years	100.0	0.2	1.9	10.4	25.7	23.8	24.4	7.6	3.8	2.2
25-34 years	100.0	0.3	3.2	18.8	38.1	23.2	13.2	2.5	0.6	0.1
35-44 years	100.0	—	3.1	12.4	28.4	27.3	20.9	5.0	1.5	1.4
45-54 years	100.0	0.5	1.1	7.8	24.1	25.4	29.0	6.6	3.4	2.0
55-64 years	100.0	—	0.3	4.2	14.5	21.4	34.3	14.5	6.4	4.4
65-74 years	100.0	0.3	0.5	1.4	11.6	19.6	33.1	15.3	12.7	5.6
<u>Female</u>										
25-74 years	100.0	0.2	1.7	10.1	26.5	24.2	23.4	7.6	4.2	2.0
25-34 years	100.0	0.2	3.2	17.8	38.0	22.9	14.3	2.2	0.8	0.7
35-44 years	100.0	0.2	2.7	12.9	33.2	26.2	19.6	4.0	0.3	0.9
45-54 years	100.0	0.0	0.4	7.7	25.9	29.7	23.4	6.9	4.7	1.2
55-64 years	100.0	0.4	1.3	4.4	16.0	22.1	33.8	13.2	6.5	2.3
65-74 years	100.0	0.1	0.2	2.0	8.6	17.5	32.8	17.7	13.4	7.6

¹Re audiometric zero (ANSI, 1969).

Table 6. Standard errors of percents of adults 25-74 years of age by air conduction hearing levels in decibels for the right ear at 1000 Hertz, age, and sex: United States, 1971-75

Age at examination and sex	Hearing level in decibels ¹									
	All levels	Less than -9	-9 to -4	-4 to 1	1 to 6	6 to 11	11 to 21	21 to 31	31 to 51	51 or more
<u>Both sexes</u>										
25-74 years	—	0.10	0.38	0.92	1.13	0.92	1.14	0.57	0.35	0.28
25-34 years	—	0.16	0.89	2.10	2.12	1.70	2.11	0.55	0.27	0.24
35-44 years	—	0.15	1.05	2.00	2.44	2.16	2.05	1.09	0.32	0.43
45-54 years	—	0.31	0.35	1.03	2.00	2.03	2.20	0.95	0.85	0.54
55-64 years	—	0.15	0.40	1.28	1.93	2.31	2.45	1.85	1.23	0.74
65-74 years	—	0.19	0.28	0.61	1.37	2.16	2.48	1.90	1.61	1.38
<u>Male</u>										
25-74 years	—	0.16	0.44	1.21	1.55	1.20	1.51	0.98	0.55	0.36
25-34 years	—	0.22	1.08	2.74	3.54	2.57	2.84	0.95	0.30	0.17
35-44 years	—	—	1.30	2.74	3.57	3.24	2.84	1.82	0.61	0.66
45-54 years	—	0.63	0.67	1.61	2.40	2.59	2.98	1.24	1.02	0.78
55-64 years	—	—	0.23	2.02	2.62	3.00	3.53	3.19	1.59	1.21
65-74 years	—	0.40	0.43	0.85	2.39	3.30	3.53	2.65	2.20	1.41
<u>Female</u>										
25-74 years	—	0.08	0.45	1.10	1.32	1.27	1.22	0.61	0.46	0.40
25-34 years	—	0.18	1.07	2.79	2.74	2.26	2.43	0.80	0.46	0.47
35-44 years	—	0.28	1.33	2.39	3.40	2.99	2.88	1.31	0.25	0.54
45-54 years	—	0.03	0.28	1.25	2.86	2.82	2.66	1.34	1.11	0.76
55-64 years	—	0.29	0.73	1.34	2.85	3.24	2.94	1.89	1.80	0.97
65-74 years	—	0.12	0.23	0.93	1.74	2.86	3.69	2.70	2.00	1.99

¹Re audiometric zero (ANSI, 1969).

Table 7. Percent distribution of white and black adults 25-74 years of age by air conduction hearing levels in decibels for the right ear at 1000 Hertz and age: United States, 1971-75

Hearing level in decibels ¹	White						Black					
	Age at examination						Age at examination					
	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years
All levels	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than -9	0.2	0.3	0.1	—	0.2	0.2	0.5	—	—	2.4	—	—
-9 to -4	1.9	3.5	32	0.6	0.8	0.4	0.9	0.9	0.9	1.5	0.9	—
-4 to 1	10.5	18.6	13.3	8.1	4.6	1.7	8.4	16.4	8.4	5.3	2.1	2.9
1 to 6	26.2	38.4	31.0	25.3	15.3	10.3	24.2	34.5	26.3	24.1	14.8	5.9
6 to 11	24.0	22.9	27.1	27.2	21.9	18.4	25.1	22.7	26.6	31.8	22.2	18.8
11 to 21	23.8	13.2	19.4	26.6	33.7	33.5	24.1	19.1	25.6	21.0	34.1	25.8
21 to 31	7.4	2.2	4.2	6.5	13.9	16.2	9.0	4.1	7.3	8.5	13.4	20.4
31 to 51	3.9	0.5	0.6	4.1	6.6	12.5	5.5	2.4	3.6	4.4	5.5	20.2
51 or more	2.1	0.5	1.1	1.7	3.0	6.8	2.3	—	1.3	1.1	7.1	6.0

¹Re audiometric zero (ANSI, 1969).

Table 8. Standard errors of percents of white and black adults 25-74 years of age by air conduction hearing levels in decibels for the right ear at 1000 Hertz and age: United States, 1971-75

Hearing level in decibels ¹	White						Black					
	Age at examination						Age at examination					
	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years
All levels	—	—	—	—	—	—	—	—	—	—	—	—
Less than -9	0.07	0.18	0.17	—	0.17	0.21	0.69	—	—	3.11	—	—
-9 to -4	0.43	1.03	1.18	0.32	0.43	0.31	0.61	0.99	1.40	1.65	1.04	—
-4 to 1	0.96	2.25	2.10	1.15	1.42	0.63	1.88	4.92	3.95	2.48	1.38	2.38
1 to 6	1.10	2.25	2.60	2.10	2.02	1.48	3.59	7.54	6.54	4.96	6.10	2.52
6 to 11	0.96	1.94	2.19	2.10	2.40	2.20	3.13	5.98	6.27	5.88	6.26	5.92
11 to 21	1.18	2.34	2.14	2.33	2.59	2.71	3.03	5.05	8.26	6.69	8.32	6.19
21 to 31	0.55	0.52	1.09	1.03	1.87	2.02	2.08	2.94	4.32	3.35	5.77	7.06
31 to 51	0.38	0.19	0.26	0.93	1.41	1.66	1.23	2.00	2.05	2.74	3.09	6.07
51 or more	0.30	0.28	0.45	0.59	0.76	1.42	1.05	—	1.40	1.29	4.61	3.95

¹Re audiometric zero (ANSI, 1969).

Table 9. Percent distribution of adults 25-74 years of age by air conduction hearing levels in decibels for the right ear at 2000 Hertz, age, and sex: United States, 1971-75

Age at examination and sex	Hearing level in decibels ¹									
	All levels	Less than -9	-9 to -4	-4 to 1	1 to 6	6 to 11	11 to 21	21 to 31	31 to 51	51 or more
<u>Both sexes</u>										
25-74 years	100.0	0.6	3.7	11.4	21.5	18.9	23.1	9.5	6.8	4.4
25-34 years	100.0	1.2	8.3	21.3	31.0	19.2	14.7	2.7	1.1	0.6
35-44 years	100.0	1.0	3.6	14.6	28.2	22.0	20.4	5.5	3.4	1.3
45-54 years	100.0	0.4	2.4	8.1	20.2	21.7	28.4	8.8	5.9	4.0
55-64 years	100.0	0.0	1.1	3.9	11.8	16.6	30.4	16.6	12.7	6.9
65-74 years	100.0	0.2	0.2	1.9	5.8	10.8	25.6	22.3	18.1	15.1
<u>Male</u>										
25-74 years	100.0	0.7	3.4	11.5	19.5	17.6	23.2	9.9	8.0	6.2
25-34 years	100.0	1.1	8.7	23.3	28.0	18.8	15.4	3.3	0.9	0.4
35-44 years	100.0	1.0	2.4	12.8	26.4	19.8	23.3	7.0	4.9	2.4
45-54 years	100.0	0.5	2.0	7.3	17.0	20.6	27.8	10.1	8.2	6.4
55-64 years	100.0	0.1	0.1	3.1	11.1	15.1	28.3	16.1	15.3	10.8
65-74 years	100.0	0.3	0.2	2.7	4.1	8.4	24.2	21.1	19.4	19.7
<u>Female</u>										
25-74 years	100.0	0.6	4.0	11.4	23.3	20.0	23.0	9.2	5.7	2.8
25-34 years	100.0	1.3	7.8	19.3	33.9	19.5	14.0	2.1	1.4	0.8
35-44 years	100.0	0.9	4.7	16.2	29.8	24.0	17.8	4.0	2.1	0.3
45-54 years	100.0	0.3	2.8	8.8	23.2	22.7	29.0	7.6	3.8	1.9
55-64 years	100.0	2.0	4.6	12.4	18.0	32.3	17.0	10.3	3.4	—
65-74 years	100.0	0.1	0.3	1.4	7.1	12.7	26.6	23.2	17.1	11.5

¹Re audiometric zero (ANSI, 1969).

Table 10. Standard errors of percents of adults 25-74 years of age by air-conduction hearing levels in decibels for the right ear at 2000 Hertz, age, and sex: United States, 1971-75

Age at examination and sex	Hearing level in decibels ¹									
	All levels	Less than -9	-9 to -4	-4 to 1	1 to 6	6 to 11	11 to 21	21 to 31	31 to 51	51 or more
Both sexes										
25-74 years	—	0.20	0.42	0.85	0.94	0.79	0.94	0.65	0.48	0.42
25-34 years	—	0.47	1.31	1.88	2.11	1.80	1.67	0.74	0.43	0.30
35-44 years	—	0.42	0.90	1.93	2.14	2.37	1.79	1.32	0.82	0.47
45-54 years	—	0.40	0.57	1.40	1.75	1.73	1.97	1.15	1.10	0.83
55-64 years	—	0.04	0.56	0.85	1.67	1.59	2.48	2.01	1.69	1.30
65-74 years	—	0.18	0.20	0.71	1.32	1.76	2.35	2.16	1.87	1.68
Male										
25-74 years	—	0.29	0.52	0.96	1.37	1.15	1.52	0.95	0.77	0.63
25-34 years	—	0.57	1.77	2.58	2.93	2.40	2.71	1.19	0.51	0.40
35-44 years	—	0.54	1.03	2.31	3.19	2.83	2.88	2.32	1.50	0.94
45-54 years	—	0.64	0.95	1.84	2.07	2.72	3.05	1.78	1.60	1.47
55-64 years	—	0.09	0.15	0.81	2.07	2.84	3.99	2.61	2.78	2.12
65-74 years	—	0.40	0.22	1.24	1.46	2.13	3.32	2.71	2.60	2.48
Female										
25-74 years	—	0.25	0.66	1.10	1.28	1.14	1.24	0.74	0.62	0.47
25-34 years	—	0.63	2.03	2.33	2.87	2.10	2.22	0.80	0.68	0.50
35-44 years	—	0.61	1.36	2.70	2.94	3.63	2.60	1.26	0.96	0.25
45-54 years	—	0.45	0.88	1.69	2.39	1.94	2.57	1.61	1.07	0.85
55-64 years	—	—	1.06	1.61	2.43	2.47	3.11	2.69	2.10	1.10
65-74 years	—	0.09	0.31	0.84	1.86	2.37	2.81	2.82	2.36	2.31

¹Re audiometric zero (ANSI, 1969).

Table 11. Percent distribution of white and black adults 25-74 years of age by air conduction hearing levels in decibels for the right ear at 2000 Hertz and age: United States, 1971-75

Hearing level in decibels ¹	White						Black					
	Age at examination						Age at examination					
	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years
All levels	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than -9	0.6	1.2	1.0	0.0	—	0.2	1.4	1.5	0.5	3.9	0.3	—
-9 to -4	3.9	8.6	3.8	2.5	1.2	0.3	2.6	6.2	2.1	1.8	—	—
-4 to 1	11.7	22.0	15.0	8.2	3.9	2.1	8.2	13.6	12.4	5.1	2.5	0.3
1 to 6	21.6	30.7	28.8	20.8	11.9	5.8	19.5	34.5	18.4	14.8	11.3	4.6
6 to 11	18.7	19.1	21.9	21.3	16.9	10.9	20.5	20.4	24.3	26.0	15.1	9.4
11 to 21	22.8	14.1	19.3	28.1	30.5	26.1	26.5	19.3	31.1	31.3	29.6	21.0
21 to 31	9.6	2.8	5.3	9.3	15.9	22.2	8.9	1.2	7.0	5.3	20.5	23.7
31 to 51	6.8	1.1	3.5	5.9	12.7	17.3	7.7	1.9	3.1	6.0	13.6	26.9
51 or more	4.4	0.5	1.4	3.8	7.0	15.3	4.5	1.3	1.0	5.8	7.0	14.1

¹Re audiometric zero (ANSI, 1969).

Table 12. Standard errors of percents of white and black adults 25-74 years of age by air conduction hearing levels in decibels for the right ear at 2000 Hertz and age: United States, 1971-75

Hearing level in decibels ¹	White						Black					
	Age at examination						Age at examination					
	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years
All levels	—	—	—	—	—	—	—	—	—	—	—	—
Less than -9	0.20	0.51	0.47	0.04	—	0.20	0.95	1.40	0.68	4.08	0.47	—
-9 to -4	0.44	1.40	0.89	0.61	0.62	0.22	1.26	3.72	2.52	1.67	—	—
-4 to 1	0.87	2.12	2.10	1.46	0.90	0.78	1.65	4.47	4.58	3.01	1.60	0.34
1 to 6	0.98	2.14	2.23	1.93	1.78	1.36	3.19	7.59	6.93	3.42	4.35	2.84
6 to 11	0.88	1.91	2.54	1.78	1.01	1.73	2.42	5.45	6.04	7.12	5.72	4.43
11 to 21	0.94	1.76	1.86	2.03	2.55	2.43	3.30	6.23	8.02	5.60	7.18	5.81
21 to 31	0.69	0.81	1.39	1.24	2.10	2.26	1.52	1.10	3.76	2.53	7.00	5.81
31 to 51	0.51	0.47	0.90	1.19	1.76	1.90	1.63	1.39	2.36	2.70	6.03	6.43
51 or more	0.46	0.25	0.53	0.92	1.26	1.78	1.26	1.91	1.15	3.23	4.69	5.65

¹Re audiometric zero (ANSI, 1969).

Table 13. Percent distribution of adults 25-74 years of age by air conduction hearing levels in decibels for the right ear at 4000 Hertz, age, and sex: United States, 1971-75

Age at examination and sex	Hearing level in decibels ¹									
	All levels	Less than -9	-9 to -4	-4 to 1	1 to 6	6 to 11	11 to 21	21 to 31	31 to 51	51 or more
<u>Both sexes</u>										
25-74 years	100.0	1.1	3.3	8.9	15.3	14.6	18.7	11.3	14.5	12.3
25-34 years	100.0	3.1	7.0	17.7	26.1	19.9	14.2	4.5	4.8	2.8
35-44 years	100.0	1.0	4.1	12.0	19.4	18.5	19.7	8.6	10.3	6.5
45-54 years	100.0	0.3	1.9	5.4	13.1	14.4	23.9	12.7	14.6	13.6
55-64 years	100.0	—	0.7	2.0	6.7	8.9	20.9	17.7	24.4	18.7
65-74 years	100.0	—	—	0.8	1.2	5.2	14.3	18.6	28.4	31.4
<u>Male</u>										
25-74 years	100.0	0.6	2.3	6.2	10.3	10.7	17.1	12.2	19.9	20.7
25-34 years	100.0	2.0	5.5	13.9	21.4	19.2	17.9	6.9	8.4	4.9
35-44 years	100.0	0.2	2.7	7.9	11.7	13.9	21.1	12.7	18.1	11.7
45-54 years	100.0	0.1	1.2	2.7	7.2	7.8	19.0	13.6	23.0	25.4
55-64 years	100.0	—	0.0	0.4	1.9	3.4	15.3	16.5	30.4	32.0
65-74 years	100.0	—	—	0.6	0.1	1.4	6.5	14.0	28.4	49.1
<u>Female</u>										
25-74 years	100.0	1.5	4.1	11.3	19.9	18.1	20.2	10.5	9.6	4.7
25-34 years	100.0	4.0	8.4	21.2	30.6	20.6	10.7	2.2	1.4	0.9
35-44 years	100.0	1.7	5.4	15.8	26.5	22.7	18.4	4.9	3.0	1.8
45-54 years	100.0	0.5	2.6	7.9	18.6	20.5	28.4	12.0	6.8	2.8
55-64 years	100.0	—	1.4	3.5	11.0	13.8	26.0	18.7	18.9	6.8
65-74 years	100.0	—	—	1.0	2.1	8.2	20.3	22.2	28.4	17.8

¹Re audiometric zero (ANSI, 1969).

Table 14. Standard errors of percents of adults 25-74 years of age by air conduction hearing levels in decibels for the right ear at 4000 Hertz, age, and sex: United States, 1971-75

Age at examination and sex	Hearing level in decibels ¹									
	All levels	Less than -9	-9 to -4	-4 to 1	1 to 6	6 to 11	11 to 21	21 to 31	31 to 51	51 or more
<u>Both sexes</u>										
25-74 years	—	0.30	0.52	0.76	0.89	0.83	1.02	0.67	0.74	0.66
25-34 years	—	1.03	1.27	1.75	2.06	2.20	1.62	1.02	0.87	0.78
35-44 years	—	0.52	1.30	1.86	2.04	1.89	2.01	1.41	1.57	1.28
45-54 years	—	0.22	0.60	1.12	1.65	1.47	1.89	1.41	1.59	1.47
55-64 years	—	—	0.51	0.68	1.10	1.42	1.95	1.65	2.42	1.88
65-74 years	—	—	—	0.38	0.52	1.13	1.70	2.12	2.21	2.17
<u>Male</u>										
25-74 years	—	0.30	0.65	0.95	1.05	1.07	1.31	1.05	1.17	1.22
25-34 years	—	1.06	1.58	2.14	2.95	3.10	2.76	1.84	1.69	1.52
35-44 years	—	0.29	1.47	2.17	2.10	2.33	2.90	2.37	2.93	2.43
45-54 years	—	0.08	0.86	1.30	1.61	1.75	2.76	2.17	2.76	2.84
55-64 years	—	—	0.04	0.54	0.87	1.20	2.50	2.18	3.59	3.36
65-74 years	—	—	—	0.58	0.19	0.83	1.38	3.13	3.01	3.35
<u>Female</u>										
25-74 years	—	0.46	0.70	1.01	1.27	1.24	1.19	0.78	0.78	0.50
25-34 years	—	1.54	1.72	2.52	2.65	2.33	1.74	0.80	0.66	0.51
35-44 years	—	0.97	1.91	2.62	3.43	3.05	2.46	1.57	1.13	0.85
45-54 years	—	0.42	0.93	1.74	2.51	2.34	2.69	1.73	1.50	0.97
55-64 years	—	—	0.96	1.16	1.92	2.39	2.85	2.57	3.25	1.67
65-74 years	—	—	—	0.66	0.91	1.91	2.66	2.70	3.03	2.60

¹Re audiometric zero (ANSI, 1969).

Table 15. Percent distribution of white and black adults 25-74 years of age by air conduction hearing levels in decibels for the right ear at 4000 Hertz and age: United States, 1971-75

Hearing level in decibels ¹	White						Black					
	Age at examination						Age at examination					
	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years
All levels	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than -9	1.1	3.1	1.1	0.3	—	—	0.7	1.8	0.3	0.6	—	—
-9 to -4	3.4	7.6	4.3	1.9	0.8	—	1.6	2.9	1.0	2.4	0.5	—
-4 to 1	8.8	17.4	12.3	5.6	1.8	0.9	9.9	19.4	11.3	4.2	5.2	—
1 to 6	15.2	26.0	19.1	13.2	6.9	1.1	16.2	28.2	20.7	12.3	3.0	2.4
6 to 11	14.0	19.1	17.2	14.0	8.8	5.4	19.0	25.0	27.3	16.5	10.0	3.9
11 to 21	18.5	14.3	19.7	23.5	20.5	13.5	21.4	14.0	20.7	28.4	25.5	22.4
21 to 31	11.3	4.6	8.3	12.7	17.4	18.8	11.1	4.1	11.2	11.9	17.5	17.9
31 to 51	14.8	5.0	10.8	14.5	24.5	28.1	12.7	2.4	6.8	14.5	23.9	32.9
51 or more	13.0	2.9	7.2	14.2	19.3	32.3	7.3	2.2	0.8	9.2	14.3	20.5

¹Re audiometric zero (ANSI, 1969).

Table 16. Standard errors of percents of white and black adults 25-74 years of age by air conduction hearing levels in decibels for the right ear at 4000 Hertz and age: United States, 1971-75

Hearing level in decibels ¹	White						Black					
	Age at examination						Age at examination					
	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years
All levels	—	—	—	—	—	—	—	—	—	—	—	—
Less than -9	0.32	1.15	0.59	0.24	—	—	0.61	2.12	0.48	0.57	—	—
-9 to -4	0.58	1.42	1.44	0.58	0.56	—	0.83	1.91	1.00	3.09	0.52	—
-4 to 1	0.83	1.99	2.05	1.18	0.69	0.42	1.94	5.40	3.95	2.97	3.57	—
1 to 6	0.93	2.19	2.12	1.80	1.16	0.54	2.57	6.11	5.38	4.25	1.66	2.18
6 to 11	0.87	2.36	1.93	1.51	1.48	1.20	2.32	5.30	5.84	4.68	3.67	2.70
11 to 21	1.10	1.68	2.24	2.06	2.07	1.70	2.66	4.70	5.44	5.09	5.42	6.45
21 to 31	0.68	1.14	1.34	1.41	1.74	2.24	2.04	1.96	5.14	3.71	4.68	4.83
31 to 51	0.78	0.97	1.77	1.74	2.64	2.28	2.09	1.48	3.46	4.85	5.79	6.64
51 or more	0.69	0.87	1.45	1.66	1.91	2.15	1.67	2.05	1.07	3.49	6.31	6.60

¹Re audiometric zero (ANSI, 1969).

Table 17. Percent distribution of adults 25-74 years of age by bone conduction hearing levels in decibels re audiometric zero for the right ear at 500 Hertz with masking on the left ear, age, and sex: United States, 1971-74

Age at examination and sex	Hearing level in decibels ¹									
	All levels	Less than -9	-9 to -4	-4 to 1	1 to 6	6 to 11	11 to 21	21 to 31	31 to 51	51 or more
<u>Both sexes</u>										
25-74 years	100.0	1.4	3.4	7.6	15.3	19.0	32.3	13.0	6.3	1.8
25-34 years	100.0	3.1	6.8	12.2	23.3	21.5	25.0	5.7	1.8	0.5
35-44 years	100.0	1.0	3.2	8.8	18.4	22.4	33.2	9.1	2.2	1.6
45-54 years	100.0	0.9	2.9	6.8	13.9	19.9	34.4	15.6	4.2	1.5
55-64 years	100.0	0.9	1.1	3.7	8.0	15.0	38.5	18.8	12.1	1.8
65-74 years	100.0	0.2	0.9	2.6	5.7	12.2	32.5	22.3	18.3	5.1
<u>Male</u>										
25-74 years	100.0	1.4	3.5	7.6	15.1	18.4	33.3	13.4	5.8	1.5
25-34 years	100.0	2.9	7.0	12.7	22.3	20.3	27.5	5.3	1.1	0.9
35-44 years	100.0	0.4	3.4	7.1	18.4	19.4	37.5	10.3	2.3	1.2
45-54 years	100.0	1.7	2.9	6.9	12.4	21.1	34.8	14.7	4.8	0.6
55-64 years	100.0	0.7	0.7	4.9	8.9	14.0	37.1	20.0	12.1	1.5
65-74 years	100.0	0.4	1.9	2.8	7.7	13.6	29.6	24.6	14.8	4.7
<u>Female</u>										
25-74 years	100.0	1.4	3.3	7.5	15.4	19.6	31.3	12.7	6.7	2.0
25-34 years	100.0	3.3	6.7	11.8	24.2	22.6	22.8	6.0	2.4	0.2
35-44 years	100.0	1.6	3.0	10.4	18.4	25.0	29.4	8.2	2.1	1.9
45-54 years	100.0	0.1	2.8	6.7	15.3	18.8	34.1	16.4	3.6	2.3
55-64 years	100.0	1.0	1.4	2.6	7.2	15.9	39.8	17.7	12.0	2.1
65-74 years	100.0	—	0.2	2.5	4.2	11.1	34.9	20.5	21.2	5.5

¹Re audiometric zero (ANSI, 1969).

Table 18. Standard errors of percents of adults 25-74 years of age by bone conduction hearing levels in decibels re audiometric zero for the right ear at 500 Hertz with masking on the left ear, age, and sex: United States, 1971-74

Age at examination and sex	Hearing level in decibels ¹									
	All levels	Less than -9	-9 to -4	-4 to 1	1 to 6	6 to 11	11 to 21	21 to 31	31 to 51	51 or more
<u>Both sexes</u>										
25-74 years	-	0.31	0.46	0.61	1.09	0.81	1.17	0.85	0.54	0.39
25-34 years	-	0.74	1.06	1.21	2.13	1.59	2.19	1.16	0.56	0.29
35-44 years	-	0.48	0.89	1.16	2.64	2.09	2.28	1.43	0.58	0.51
45-54 years	-	0.26	0.58	0.76	1.42	1.81	1.81	1.26	0.83	0.91
55-64 years	-	0.57	0.49	0.84	1.33	2.30	2.86	1.94	1.56	0.61
65-74 years	-	0.14	0.43	0.81	1.06	1.77	2.04	1.92	1.91	0.97
<u>Male</u>										
25-74 years	-	0.43	0.64	1.03	1.73	1.16	1.72	1.35	0.54	0.33
25-34 years	-	1.16	1.62	2.64	2.99	2.06	2.77	1.99	0.55	0.59
35-44 years	-	0.37	1.33	1.68	3.41	3.05	3.87	2.25	1.11	0.64
45-54 years	-	0.63	1.09	1.25	2.49	2.85	2.80	1.97	1.14	0.33
55-64 years	-	0.44	0.46	1.38	2.16	3.27	4.18	2.53	2.70	0.69
65-74 years	-	0.31	0.92	0.94	1.82	2.44	3.79	2.80	1.92	1.26
<u>Female</u>										
25-74 years	-	0.37	0.55	0.76	1.16	0.89	1.15	1.08	0.84	0.55
25-34 years	-	1.04	1.50	1.90	3.23	2.28	2.76	1.35	0.96	0.15
35-44 years	-	0.85	1.03	1.93	3.06	2.97	2.91	1.90	0.89	0.73
45-54 years	-	0.15	0.57	1.07	1.75	2.20	2.31	1.90	1.06	1.60
55-64 years	-	0.82	0.76	1.06	1.69	2.77	3.67	2.62	1.89	0.90
65-74 years	-	-	0.12	1.23	1.27	2.02	2.88	2.52	3.18	1.45

¹Re audiometric zero (ANSI, 1969).

Table 19. Percent distribution of white and black adults 25-74 years of age by bone conduction hearing levels in decibels re audiometric zero for the right ear at 500 Hertz with masking on the left ear, and age: United States, 1971-74

Hearing level in decibels ¹	White						Black					
	Age at examination						Age at examination					
	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years
All levels	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than -9	1.5	3.4	1.2	0.9	0.9	0.1	0.4	1.1	-	0.4	-	0.4
-9 to -4	3.4	7.2	3.1	3.0	0.8	0.9	2.4	2.5	3.8	1.4	1.8	1.3
-4 to 1	7.9	12.9	9.7	7.3	3.3	2.6	3.7	5.2	1.1	2.0	9.0	1.2
1 to 6	15.6	24.6	18.8	13.5	8.2	5.9	13.6	13.4	17.2	18.7	6.6	4.1
6 to 11	18.6	20.3	21.8	19.7	15.3	12.3	23.4	32.8	26.3	20.5	13.7	10.6
11 to 21	32.2	23.9	32.9	33.8	39.8	33.5	34.4	34.8	36.1	39.9	30.1	23.3
21 to 31	13.0	6.0	8.3	16.3	18.5	21.7	12.5	3.9	14.5	9.4	18.7	30.2
31 to 51	6.0	1.3	2.3	3.9	11.6	17.4	8.1	5.6	0.9	6.7	13.4	26.8
51 or more	1.8	0.5	1.8	1.6	1.5	5.4	1.6	0.6	-	0.9	6.6	2.1

¹Re audiometric zero (ANSI, 1969).

Table 20. Standard errors of percents of white and black adults 25-74 years of age by bone conduction hearing levels in decibels re audiometric zero for the right ear at 500 Hertz with masking on the left ear, and age: United States, 1971-74

Hearing level in decibels ¹	White						Black					
	Age at examination						Age at examination					
	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years
All levels	-	-	-	-	-	-	-	-	-	-	-	-
Less than -9	0.34	0.81	0.54	0.31	0.62	0.15	0.15	0.77	-	0.42	-	0.36
-9 to -4	0.49	1.21	0.88	0.64	0.43	0.46	0.97	1.49	2.66	1.43	1.82	1.42
-4 to 1	0.67	1.28	1.33	0.83	0.80	0.87	1.01	2.06	1.15	1.14	5.15	0.83
1 to 6	1.06	2.17	2.84	1.54	1.30	1.14	2.45	4.44	5.08	3.81	2.87	1.81
6 to 11	0.77	1.54	2.11	1.84	2.45	1.69	2.14	7.06	9.89	5.00	4.09	4.12
11 to 21	1.25	2.23	2.42	1.98	2.90	2.37	2.74	6.29	7.77	5.00	7.37	4.88
21 to 31	0.87	1.26	1.31	1.38	2.02	2.13	1.84	2.16	5.65	2.86	5.87	5.25
31 to 51	0.54	0.39	0.66	0.86	1.58	1.95	1.55	4.01	0.66	2.69	3.70	5.97
51 or more	0.38	0.32	0.57	1.02	0.54	1.10	0.78	0.65	-	0.93	5.09	0.87

¹Re audiometric zero (ANSI, 1969).

Table 21. Percent distribution of adults 25-74 years of age by bone conduction hearing levels in decibels re audiometric zero for the right ear at 1000 Hertz with masking on the left ear, age, and sex: United States, 1971-74

Age at examination and sex	Hearing level in decibels ¹									
	All levels	Less than -9	-9 to -4	-4 to 1	1 to 6	6 to 11	11 to 21	21 to 31	31 to 51	51 or more
<u>Both sexes</u>										
25-74 years	100.0	2.8	6.9	13.0	19.6	16.9	25.6	9.6	4.4	1.1
25-34 years	100.0	4.8	10.8	20.5	25.9	16.5	17.6	2.8	1.0	0.0
35-44 years	100.0	3.8	7.2	15.4	19.5	17.8	27.9	6.7	1.6	0.2
45-54 years	100.0	2.4	5.7	10.9	22.1	18.5	25.7	9.8	3.8	1.2
55-64 years	100.0	0.9	5.5	6.7	14.9	17.3	30.3	16.3	6.6	1.4
65-74 years	100.0	0.5	1.8	6.2	8.2	12.7	32.0	19.5	15.0	4.3
<u>Male</u>										
25-74 years	100.0	3.4	7.0	12.7	20.1	15.7	25.1	10.8	4.3	0.9
25-34 years	100.0	7.8	11.0	17.3	25.3	14.6	19.4	3.7	0.9	0.1
35-44 years	100.0	2.1	6.6	16.4	19.3	14.6	30.1	9.1	1.4	0.4
45-54 years	100.0	2.9	5.8	10.9	23.5	18.0	22.9	12.5	3.0	0.6
55-64 years	100.0	1.1	6.1	6.5	16.2	16.9	26.3	17.1	8.7	1.1
65-74 years	100.0	-	2.2	8.4	8.7	13.6	31.4	17.6	14.0	4.0
<u>Female</u>										
25-74 years	100.0	2.3	6.7	13.3	19.1	18.1	26.1	8.6	4.5	1.3
25-34 years	100.0	1.9	10.7	23.5	26.6	18.3	15.9	2.0	1.2	-
35-44 years	100.0	5.3	7.7	14.4	19.6	20.8	25.9	4.6	1.8	-
45-54 years	100.0	1.9	5.7	10.8	20.8	18.9	28.2	7.3	4.6	1.8
55-64 years	100.0	0.8	5.0	6.8	13.7	17.7	34.0	15.7	4.6	1.8
65-74 years	100.0	0.9	1.4	4.6	7.8	11.9	32.4	20.9	15.7	4.4

¹Re audiometric zero (ANSI, 1969).

Table 22. Standard errors of percents of adults 25-74 years of age by bone conduction hearing levels in decibels re audiometric zero for the right ear at 1000 Hertz with masking on the left ear, age, and sex: United States, 1971-74

Age at examination and sex	Hearing level in decibels ¹									
	All levels	Less than -9	-9 to -4	-4 to 1	1 to 6	6 to 11	11 to 21	21 to 31	31 to 51	51 or more
<u>Both sexes</u>										
25-74 years	-	0.34	0.70	0.84	0.90	0.77	1.03	0.56	0.44	0.24
25-34 years	-	0.87	1.36	1.73	1.81	1.59	2.00	0.62	0.47	0.03
35-44 years	-	0.80	1.35	1.62	1.79	2.09	2.28	1.34	0.41	0.14
45-54 years	-	0.72	0.83	1.33	1.49	1.18	1.75	1.21	0.81	0.57
55-64 years	-	0.53	0.83	1.23	1.61	2.15	2.09	1.75	1.21	0.48
65-74 years	-	0.51	0.64	1.18	1.07	1.47	1.87	1.96	1.92	0.78
<u>Male</u>										
25-74 years	-	0.52	0.87	1.17	1.48	1.29	1.21	0.85	0.46	0.17
25-34 years	-	1.81	2.06	2.82	2.53	2.08	2.92	0.97	0.56	0.06
35-44 years	-	0.56	1.78	2.84	3.48	3.63	3.87	2.46	0.84	0.30
45-54 years	-	1.00	0.98	1.76	2.41	2.03	2.47	1.71	0.76	0.31
55-64 years	-	0.70	1.36	1.30	1.89	2.42	3.22	2.02	1.88	0.55
65-74 years	-	-	0.95	2.14	1.58	2.48	3.16	2.58	2.41	0.95
<u>Female</u>										
25-74 years	-	0.47	0.81	1.23	0.89	1.07	1.64	0.67	0.69	0.36
25-34 years	-	0.80	1.75	2.48	2.33	2.72	2.53	0.75	0.69	-
35-44 years	-	1.39	1.77	1.84	2.07	3.04	2.96	1.05	0.83	-
45-54 years	-	0.87	1.29	1.97	2.00	1.97	2.49	1.40	1.18	0.96
55-64 years	-	0.81	1.21	2.11	3.00	2.73	3.49	2.87	1.12	0.70
65-74 years	-	0.91	0.85	1.19	1.41	1.86	2.95	2.47	2.85	1.25

¹Re audiometric zero (ANSI, 1969).

Table 23. Percent distribution of white and black adults 25-74 years of age by bone conduction hearing levels in decibels re audiometric zero for the right ear at 1000 Hertz with masking on the left ear, and age: United States, 1971-74

Hearing level in decibels ¹	White						Black					
	Age at examination						Age at examination					
	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years
All levels	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than -9	3.1	5.3	4.3	2.5	1.0	0.6	0.5	0.6	-	1.6	-	-
-9 to -4	7.1	11.5	6.7	6.2	6.0	1.8	4.6	4.3	12.4	1.3	-	1.3
-4 to 1	13.4	21.6	16.1	10.9	6.4	6.4	9.0	11.0	7.8	10.0	8.3	5.1
1 to 6	19.7	24.8	20.7	22.9	15.1	7.9	18.8	34.1	9.8	15.8	14.7	9.5
6 to 11	16.6	16.0	16.8	18.1	17.8	12.8	20.3	22.3	25.3	20.6	13.4	12.1
11 to 21	25.4	17.3	27.1	24.8	30.6	32.6	28.2	21.4	33.6	33.2	28.9	22.9
21 to 31	9.5	2.6	6.3	9.9	15.5	20.4	10.0	5.3	11.1	8.5	19.5	10.2
31 to 51	4.2	1.0	1.8	3.2	6.3	13.6	7.1	1.1	-	9.1	10.5	30.9
51 or more	1.0	0.0	0.2	1.3	1.2	3.9	1.5	-	-	-	4.7	8.0

¹Re audiometric zero (ANSI, 1969).

Table 24. Standard errors of percents of white and black adults 25-74 years of age by bone conduction hearing levels in decibels re audiometric zero for the right ear at 1000 Hertz with masking on the left ear, and age: United States, 1971-74

Hearing level in decibels ¹	White						Black					
	Age at examination						Age at examination					
	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years
All levels	-	-	-	-	-	-	-	-	-	-	-	-
Less than -9	0.39	1.00	0.90	0.74	0.58	0.56	0.28	0.41	-	1.06	-	-
-9 to -4	0.72	1.58	1.22	0.91	0.90	0.69	1.34	1.71	4.76	0.77	-	0.55
-4 to 1	0.80	1.79	1.63	1.28	1.24	1.43	2.44	4.08	4.11	3.95	3.42	2.17
1 to 6	0.93	1.78	1.90	1.57	1.76	1.15	2.68	5.46	3.00	4.87	4.47	3.26
6 to 11	0.80	1.67	2.04	1.19	2.35	1.59	2.70	5.17	7.64	3.48	5.33	3.14
11 to 21	1.11	2.04	2.25	1.94	2.13	1.91	2.55	5.99	7.60	5.00	5.96	5.05
21 to 31	0.61	0.62	1.35	1.30	1.91	2.04	1.89	2.85	4.61	3.69	4.59	3.23
31 to 51	0.49	0.49	0.47	0.81	1.21	1.97	1.30	0.80	-	4.19	3.13	6.09
51 or more	0.19	0.04	0.16	0.64	0.41	0.83	1.06	-	-	-	4.44	3.93

¹Re audiometric zero (ANSI, 1969).

Table 25. Percent distribution of adults 25-74 years of age by bone conduction hearing levels in decibels re audiometric zero for the right ear at 2000 Hertz with masking on the left ear, age, and sex: United States, 1971-74

Age at examination and sex	Hearing level in decibels ¹									
	All levels	Less than -9	-9 to -4	-4 to 1	1 to 6	6 to 11	11 to 21	21 to 31	31 to 51	51 or more
<u>Both sexes</u>										
25-74 years	100.0	6.5	11.3	16.1	17.6	14.1	17.9	7.8	6.1	2.5
25-34 years	100.0	13.4	18.6	21.8	23.5	12.4	7.7	1.6	0.8	0.2
35-44 years	100.0	6.4	13.6	19.6	19.6	14.2	16.8	5.2	3.1	1.5
45-54 years	100.0	4.8	10.0	17.5	18.1	15.3	20.6	6.9	4.2	2.6
55-64 years	100.0	2.2	5.5	9.2	13.2	15.7	26.0	14.1	11.6	2.6
65-74 years	100.0	1.2	2.7	5.0	6.8	13.0	24.6	18.3	18.7	9.6
<u>Male</u>										
25-74 years	100.0	6.7	11.0	14.1	16.3	13.5	19.7	7.9	7.1	3.7
25-34 years	100.0	14.4	18.8	20.4	21.1	11.4	11.2	1.6	0.8	0.3
35-44 years	100.0	7.4	12.7	15.6	16.6	14.5	21.3	5.5	4.6	1.8
45-54 years	100.0	4.7	8.8	14.2	19.4	14.2	20.4	8.7	5.3	4.3
55-64 years	100.0	0.9	5.1	8.5	11.2	14.2	28.1	13.9	13.8	4.3
65-74 years	100.0	-	3.2	4.9	6.6	13.9	21.6	16.0	20.0	13.8
<u>Female</u>										
25-74 years	100.0	6.4	11.6	17.9	18.8	14.7	16.2	7.7	5.2	1.5
25-34 years	100.0	12.4	18.3	23.2	25.7	13.4	4.4	1.6	0.8	0.1
35-44 years	100.0	5.5	14.5	23.2	22.3	13.9	12.6	5.0	1.7	1.2
45-54 years	100.0	5.0	11.1	20.6	16.8	16.3	20.8	5.2	3.2	0.9
55-64 years	100.0	3.4	5.8	9.9	15.0	17.0	24.1	14.2	9.6	1.0
65-74 years	100.0	2.2	2.3	5.1	7.0	12.3	26.9	20.1	17.6	6.3

¹Re audiometric zero (ANSI, 1969).

Table 26. Standard errors of percents of adults 25-74 years of age by bone conduction hearing levels in decibels re audiometric zero for the right ear at 2000 Hertz with masking on the left ear, age, and sex: United States, 1971-74

Age at examination and sex	Hearing level in decibels ¹									
	All levels	Less than -9	-9 to -4	-4 to 1	1 to 6	6 to 11	11 to 21	21 to 31	31 to 51	51 or more
<u>Both sexes</u>										
25-74 years	-	0.69	0.77	0.75	0.82	0.59	1.01	0.59	0.48	0.27
25-34 years	-	1.69	1.46	2.10	1.37	1.03	1.09	0.58	0.36	0.11
35-44 years	-	1.21	1.49	1.86	2.11	1.97	1.90	1.11	0.67	0.62
45-54 years	-	0.95	1.23	1.42	1.74	1.37	1.60	1.16	0.63	0.62
55-64 years	-	0.83	1.07	1.13	1.55	1.39	2.35	1.51	1.63	0.81
65-74 years	-	0.61	0.79	0.93	1.10	1.36	2.38	1.54	1.76	1.60
<u>Male</u>										
25-74 years	-	0.89	1.01	1.10	1.36	1.13	1.43	0.78	0.67	0.42
25-34 years	-	2.80	1.88	2.65	2.58	1.69	1.93	0.84	0.56	0.19
35-44 years	-	2.05	1.98	2.15	3.72	3.47	3.85	1.09	1.23	1.09
45-54 years	-	1.34	1.70	1.90	3.06	1.87	2.27	1.56	1.07	1.11
55-64 years	-	0.49	1.07	1.43	1.95	1.89	3.22	2.24	2.25	1.23
65-74 years	-	-	1.14	1.50	1.46	2.22	3.04	1.64	2.32	2.63
<u>Female</u>										
25-74 years	-	0.83	1.04	0.96	0.90	0.63	1.37	0.80	0.71	0.32
25-34 years	-	2.19	2.18	2.36	2.19	1.78	1.09	0.78	0.57	0.13
35-44 years	-	1.22	2.29	2.80	2.48	1.87	2.37	1.70	0.66	0.67
45-54 years	-	1.65	1.54	2.86	2.15	1.71	2.40	1.18	1.14	0.56
55-64 years	-	1.35	1.83	1.72	2.28	2.48	3.20	2.05	1.70	0.51
65-74 years	-	1.10	1.08	1.27	1.53	2.07	3.31	2.51	2.37	1.75

¹Re audiometric zero (ANSI, 1969).

Table 27. Percent distribution of white and black adults 25-74 years of age by bone conduction hearing levels in decibels re audiometric zero for the right ear at 2000 Hertz with masking on the left ear, and age: United States, 1971-74

Hearing level in decibels ¹	White						Black					
	Age at examination						Age at examination					
	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years
All levels	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than -9	6.8	14.1	6.9	5.0	2.2	1.3	2.7	6.1	0.6	3.0	-	0.9
-9 to -4	11.8	19.9	14.0	10.4	5.6	2.6	7.5	8.7	12.4	5.5	3.7	2.0
-4 to 1	16.4	22.0	19.8	18.1	9.8	5.3	13.0	21.9	13.2	11.9	3.9	2.6
1 to 6	17.3	23.3	19.3	17.5	13.0	6.8	20.9	21.1	24.1	24.7	18.0	7.7
6 to 11	13.5	11.1	13.3	15.2	15.2	12.9	20.7	24.5	22.5	16.9	20.4	14.2
11 to 21	17.8	7.0	16.6	20.4	26.6	24.8	19.4	14.4	20.3	21.4	22.3	22.9
21 to 31	7.8	1.5	5.3	7.2	13.3	18.5	7.1	2.8	5.1	4.6	15.9	16.9
31 to 51	6.2	0.9	3.3	3.6	11.8	18.8	5.9	-	1.9	9.8	10.6	16.9
51 or more	2.5	0.1	1.7	2.6	2.4	9.1	3.0	0.6	-	2.2	5.1	15.8

¹Re audiometric zero (ANSI, 1969).

Table 28. Standard errors of percents of white and black adults 25-74 years of age by bone conduction hearing levels in decibels re audiometric zero for the right ear at 2000 Hertz with masking on the left ear, and age: United States, 1971-74

Hearing level in decibels ¹	White						Black					
	Age at examination						Age at examination					
	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years
All levels	-	-	-	-	-	-	-	-	-	-	-	-
Less than -9	0.72	1.87	1.34	1.03	0.81	0.66	1.03	2.81	0.58	2.65	-	0.68
-9 to -4	0.82	1.60	1.56	1.41	1.15	0.86	1.78	3.09	5.34	2.05	2.74	0.91
-4 to 1	0.83	2.33	1.87	1.59	1.23	1.00	2.27	5.70	3.80	3.05	1.80	1.02
1 to 6	0.80	1.43	2.07	1.86	1.72	1.10	2.87	6.11	6.65	4.97	5.00	3.15
6 to 11	0.68	1.12	2.18	1.45	1.39	1.56	2.66	5.08	6.36	5.17	4.47	4.79
11 to 21	1.02	1.23	1.85	1.69	2.35	2.59	2.52	4.97	5.68	4.98	6.51	3.77
21 to 31	0.64	0.62	1.20	1.28	1.62	1.68	0.92	1.54	2.61	1.60	4.46	5.40
31 to 51	0.52	0.41	0.76	0.69	1.75	1.93	1.13	-	1.14	2.98	3.86	3.97
51 or more	0.26	0.10	0.71	0.65	0.63	1.62	1.19	0.65	-	1.72	4.41	5.15

¹Re audiometric zero (ANSI, 1969).

Table 29. Percent distribution of adults 25-74 years of age by bone conduction hearing levels in decibels re audiometric zero for the right ear at 4000 Hertz with masking on the left ear, age, and sex: United States, 1971-74

Age at examination and sex	Hearing level in decibels ¹									
	All levels	Less than -9	-9 to -4	-4 to 1	1 to 6	6 to 11	11 to 21	21 to 31	31 to 51	51 or more
<u>Both sexes</u>										
25-74 years	100.0	2.2	4.4	10.6	13.4	13.0	21.3	12.6	14.8	7.8
25-34 years	100.0	4.0	8.8	19.5	20.5	15.2	20.7	3.8	5.1	2.3
35-44 years	100.0	3.1	4.5	14.2	13.6	17.0	22.7	9.4	11.0	4.4
45-54 years	100.0	1.9	3.5	6.5	14.1	12.3	23.5	14.6	15.2	8.4
55-64 years	100.0	-	1.1	4.7	7.6	10.6	19.9	22.3	23.0	10.8
65-74 years	100.0	0.4	0.8	0.6	4.3	5.5	18.4	19.6	30.0	20.5
<u>Male</u>										
25-74 years	100.0	2.1	3.8	8.4	9.6	8.8	18.3	14.0	21.5	13.5
25-34 years	100.0	6.1	8.7	15.5	17.7	10.2	21.2	5.8	10.2	4.7
35-44 years	100.0	1.2	4.0	14.0	8.0	12.9	17.8	14.6	20.6	7.0
45-54 years	100.0	1.0	2.1	3.4	9.1	8.3	19.7	17.9	23.1	15.5
55-64 years	100.0	-	0.7	2.1	3.8	4.2	16.7	20.9	30.8	20.8
65-74 years	100.0	-	0.1	0.3	3.0	5.8	11.3	14.1	33.3	32.1
<u>Female</u>										
25-74 years	100.0	2.2	4.9	12.6	16.7	16.7	24.0	11.4	8.8	2.7
25-34 years	100.0	2.0	8.9	23.3	23.1	19.9	20.2	2.0	0.4	0.1
35-44 years	100.0	4.8	5.0	14.5	18.6	20.7	27.1	4.7	2.5	2.1
45-54 years	100.0	2.6	4.8	9.2	18.6	15.8	26.9	11.7	8.2	2.1
55-64 years	100.0	-	1.5	7.1	10.9	16.4	22.7	23.6	16.0	1.9
65-74 years	100.0	0.7	1.3	0.8	5.3	5.3	23.7	23.7	27.5	11.7

¹Re audiometric zero (ANSI, 1969).

Table 30. Standard errors of percents of adults 25-74 years of age by bone conduction hearing levels in decibels re audiometric zero for the right ear at 4000 Hertz with masking on the left ear, age, and sex: United States, 1971-74

Age at examination and sex	Hearing level in decibels ¹									
	All levels	Less than -9	-9 to -4	-4 to 1	1 to 6	6 to 11	11 to 21	21 to 31	31 to 51	51 or more
<u>Both sexes</u>										
25-74 years	-	0.36	0.43	0.85	0.71	0.64	1.06	0.48	0.74	0.54
25-34 years	-	0.90	1.13	2.54	1.85	1.48	2.35	0.82	0.88	0.86
35-44 years	-	1.06	0.71	1.58	1.48	1.78	2.12	1.14	2.04	0.85
45-54 years	-	0.47	0.78	0.98	1.62	1.00	1.69	1.55	1.50	1.29
55-64 years	-	-	0.51	0.91	1.22	1.78	1.82	1.70	1.89	1.15
65-74 years	-	0.33	0.41	0.32	1.07	1.02	2.16	1.99	1.92	2.36
<u>Male</u>										
25-74 years	-	0.49	0.69	0.98	0.96	0.88	1.04	0.82	1.46	1.02
25-34 years	-	1.55	1.94	2.73	2.20	1.84	2.78	1.38	1.85	1.82
35-44 years	-	0.81	1.57	2.12	2.03	3.37	2.36	2.12	3.84	1.56
45-54 years	-	0.58	0.76	0.92	1.54	1.31	2.60	2.48	2.90	2.07
55-64 years	-	-	0.55	0.93	1.47	0.94	2.83	2.27	2.68	2.52
65-74 years	-	-	0.10	0.24	1.03	1.64	2.25	2.93	2.98	3.52
<u>Female</u>										
25-74 years	-	0.50	0.57	1.05	1.26	0.76	1.49	0.80	0.65	0.53
25-34 years	-	0.90	1.45	3.22	2.76	1.87	2.95	0.83	0.32	0.13
35-44 years	-	1.74	1.07	2.64	2.68	2.45	3.14	1.44	1.14	0.80
45-54 years	-	0.78	1.20	1.76	2.56	1.61	2.48	1.74	1.18	1.50
55-64 years	-	-	0.83	1.35	1.93	2.98	2.56	2.89	2.21	0.93
65-74 years	-	0.59	0.74	0.53	1.68	1.29	3.12	2.96	3.14	2.31

¹Re audiometric zero (ANSI, 1969).

Table 31. Percent distribution of white and black adults 25-74 years of age by bone conduction hearing levels in decibels re audiometric zero for the right ear at 4000 Hertz with masking on the left ear, and age: United States, 1971-74

Hearing level in decibels ¹	White						Black					
	Age at examination						Age at examination					
	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years
All levels	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than -9	2.1	3.6	3.1	1.8	-	0.5	3.5	7.6	3.2	2.2	-	-
-9 to -4	4.5	9.2	4.2	3.9	1.2	0.8	3.7	6.1	7.5	0.6	-	0.5
-4 to 1	10.4	19.1	14.1	6.8	4.3	0.5	11.5	21.2	13.0	4.2	8.0	1.4
1 to 6	13.0	20.9	12.9	13.9	6.6	4.2	16.7	17.9	19.6	16.4	17.5	5.8
6 to 11	12.9	15.7	16.9	11.4	11.0	5.1	14.6	12.4	19.7	19.2	8.0	8.4
11 to 21	21.2	19.9	22.8	23.3	20.5	18.1	23.1	28.9	18.9	26.1	15.0	21.4
21 to 31	12.6	4.0	9.3	14.6	21.6	19.8	12.0	2.6	11.0	14.2	24.9	18.4
31 to 51	15.3	5.5	11.8	15.3	23.8	30.2	10.6	2.5	5.7	13.8	16.5	29.8
51 or more	8.1	2.3	4.8	9.0	11.0	20.8	4.2	0.6	1.5	3.2	10.3	14.1

¹Re audiometric zero (ANSI, 1969).

Table 32. Standard errors of percents of white and black adults 25-74 years of age by bone conduction hearing levels in decibels re audiometric zero for the right ear at 4000 Hertz with masking on the left ear, and age: United States, 1971-74

Hearing level in decibels ¹	White						Black					
	Age at examination						Age at examination					
	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years
All levels	-	-	-	-	-	-	-	-	-	-	-	-
Less than -9	0.39	0.94	1.15	0.47	-	0.36	1.24	3.11	2.71	1.87	-	-
-9 to -4	0.46	1.22	0.76	0.86	0.56	0.45	1.22	3.18	3.81	0.45	-	0.49
-4 to 1	0.81	2.57	1.73	1.09	0.88	0.34	2.18	5.65	4.47	1.68	4.55	0.84
1 to 6	0.72	2.01	1.55	1.58	1.28	1.17	2.81	5.88	5.83	5.33	5.17	2.20
6 to 11	0.69	1.67	2.02	1.05	1.82	1.01	1.60	3.67	4.43	3.74	3.61	3.63
11 to 21	1.18	2.54	2.56	1.77	1.97	2.33	2.07	5.10	6.05	7.45	3.53	3.31
21 to 31	0.56	0.82	1.38	1.56	1.81	2.05	2.19	2.00	4.96	4.30	6.76	4.85
31 to 51	0.78	0.94	2.19	1.66	2.09	2.07	1.70	1.96	4.17	3.74	5.84	4.99
51 or more	0.54	0.79	0.97	1.38	1.34	2.29	1.05	0.65	1.05	1.93	5.03	5.51

¹Re audiometric zero (ANSI, 1969).

Table 33. Percent distribution of adults 25-74 years of age by level of amplification required to miss no more than 5 words from 1 of 10 50-word lists of RCIQ sentences at 8 presentation levels for the right ear, age, and sex: United States, 1974-75

Age at examination and sex	Presentation level in decibels ¹								
	All levels	20	30	40	50	60	70	80	More than 80
<u>Both sexes</u>									
25-74 years	100.0	71.5	17.7	5.9	2.1	1.0	0.6	0.4	0.9
25-34 years	100.0	91.4	7.2	0.7	-	0.1	0.1	0.1	0.4
35-44 years	100.0	83.1	11.5	2.6	0.7	1.2	0.1	0.2	0.4
45-54 years	100.0	70.1	21.7	5.4	1.4	0.6	0.3	-	0.5
55-64 years	100.0	56.3	25.4	11.2	3.3	2.2	0.7	0.2	0.7
65-74 years	100.0	33.2	32.2	16.0	8.8	1.3	2.8	2.1	3.5
<u>Male</u>									
25-74 years	100.0	69.0	19.5	6.0	2.4	1.3	0.5	0.3	1.0
25-34 years	100.0	91.3	8.0	0.4	-	-	-	-	0.3
35-44 years	100.0	80.4	11.6	4.2	0.3	2.3	0.3	0.5	0.4
45-54 years	100.0	65.1	24.0	6.8	2.1	0.3	0.3	-	0.5
55-64 years	100.0	50.1	28.9	11.3	4.2	2.9	0.9	0.4	1.3
65-74 years	100.0	28.9	38.2	13.3	9.9	2.2	1.8	1.3	4.4
<u>Female</u>									
25-74 years	100.0	73.8	16.0	5.8	1.9	0.7	0.6	0.4	0.7
25-34 years	100.0	91.5	6.5	1.0	-	0.3	0.1	0.2	0.5
35-44 years	100.0	85.8	11.5	1.1	1.0	0.3	-	-	0.3
45-54 years	100.0	73.8	19.6	4.1	0.7	0.8	0.3	-	0.6
55-64 years	100.0	61.7	22.3	11.1	2.6	1.6	0.5	-	0.2
65-74 years	100.0	36.6	27.6	18.1	7.9	0.6	3.6	2.8	2.9

¹Re audiometric zero (ANSI, 1969).

Table 34. Standard errors of percents of adults 25-74 years of age by level of amplification required to miss no more than 5 words from 1 of 10 50-word lists of RCID sentences at 8 presentation levels for the right ear, age, and sex: United States, 1974-75

Age at examination and sex	Presentation level in decibels ¹								
	All levels	20	30	40	50	60	70	80	More than 80
<u>Both sexes</u>									
25-74 years	-	0.50	0.41	0.23	0.13	0.13	0.09	0.02	0.06
25-34 years	-	0.51	0.49	0.11	-	-	0.06	-	0.01
35-44 years	-	1.06	0.80	0.71	0.02	0.43	-	0.10	0.10
45-54 years	-	0.92	0.83	0.38	0.28	0.17	0.01	-	0.17
55-64 years	-	1.13	1.13	0.50	0.33	0.42	0.18	-	0.08
65-74 years	-	1.19	1.29	0.91	0.75	0.35	0.66	0.12	0.28
<u>Male</u>									
25-74 years	-	0.74	0.59	0.40	0.20	0.21	0.06	0.05	0.09
25-34 years	-	0.81	0.80	0.01	-	-	-	-	0.01
35-44 years	-	1.74	1.03	1.41	0.01	0.85	0.01	0.21	0.19
45-54 years	-	1.30	1.18	0.73	0.57	0.32	0.01	-	0.01
55-64 years	-	1.80	1.76	0.51	0.46	0.40	0.33	0.02	0.16
65-74 years	-	1.72	1.57	1.53	1.01	0.08	0.06	0.24	0.61
<u>Female</u>									
25-74 years	-	0.70	0.59	0.23	0.17	0.16	0.16	0.01	0.07
25-34 years	-	0.63	0.59	0.21	-	0.01	0.11	0.01	0.01
35-44 years	-	1.24	1.23	0.04	0.04	0.01	-	-	0.01
45-54 years	-	1.30	1.22	0.23	0.02	0.14	0.01	-	0.33
55-64 years	-	1.52	1.40	0.81	0.47	0.74	0.16	-	0.01
65-74 years	-	1.72	2.07	1.07	1.05	0.62	1.16	0.10	0.10

¹Re audiometric zero (ANSI, 1969).

Table 35. Percent distribution of white and black adults 25-74 years of age by level of amplification required to miss no more than 5 words from 1 of 10 50-word lists of RCID sentences at 8 presentation levels for the right ear and age: United States, 1974-75

Presentation level in decibels ¹	White						Black					
	Age at examination						Age at examination					
	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years
All levels	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
20	72.3	92.1	84.4	70.3	57.5	35.3	63.6	88.4	70.9	68.4	45.9	12.9
30	17.2	6.7	10.7	22.0	24.7	31.3	22.3	10.6	19.2	20.5	32.8	41.4
40	5.9	0.5	2.8	5.6	10.9	15.5	6.0	0.9	1.6	4.3	11.4	20.5
50	1.9	-	0.5	0.8	3.2	8.0	4.5	-	2.1	5.2	5.0	16.6
60	0.9	0.2	0.7	0.7	2.3	1.2	2.0	-	6.2	-	1.9	2.4
70	0.6	0.1	0.2	0.3	0.7	3.1	-	-	-	-	-	-
80	0.4	0.1	0.3	-	0.2	1.9	0.5	-	-	1.7	3.1	4.3
More than 80	0.8	0.4	0.4	0.4	0.5	3.7	1.2	-	-	-	1.9	-

¹Re audiometric zero (ANSI, 1969).

Table 36. Standard errors of percents of white and black adults 25-74 years of age by level of amplification required to miss no more than 5 words from 1 of 10 50-word lists of RCID sentences at 8 presentation levels for the right ear and age: United States, 1974-75

Presentation level in decibels ¹	White						Black					
	Age at examination						Age at examination					
	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	25-74 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years
All levels	-	-	-	-	-	-	-	-	-	-	-	-
20	0.51	0.54	1.01	0.95	0.98	1.26	2.30	1.53	4.62	3.43	6.96	3.06
30	0.40	0.53	0.75	0.89	0.92	1.30	2.12	1.45	3.88	2.16	7.49	5.08
40	0.25	0.11	0.80	0.42	0.53	0.98	0.45	0.11	0.17	0.44	1.63	2.53
50	0.13	-	0.01	0.28	0.36	0.67	0.59	-	0.23	0.54	0.69	4.49
60	0.11	-	0.02	0.19	0.46	0.38	0.89	-	3.82	-	0.26	0.29
70	0.10	0.07	-	0.01	0.19	0.72	-	-	-	-	-	-
80	0.03	-	0.12	-	-	0.12	0.04	-	-	-	-	0.53
More than 80	0.05	0.01	0.11	0.01	0.08	0.31	0.39	-	-	1.70	0.43	0.23

¹Re audiometric zero (ANSI, 1969).

APPENDIXES

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APPENDIX I

STATISTICAL NOTES

The Survey Design

The sample design of the first Health and Nutrition Survey (HANES I) is basically a three-stage, stratified, probability sample of loose clusters of persons in land-based segments. The sample was designed to be representative of the civilian noninstitutionalized population ages 1-74 years living within the coterminous United States, with the exception of persons residing on reservation lands set aside for use by American Indians.

In the first stage of the design, 100 primary sampling units (PSU's) were selected with probability proportional to size from the approximately 1,900 PSU's into which the United States has been divided. A PSU consists of a county, a small group of contiguous counties, or a standard metropolitan statistical area. Before selecting the 100 PSU's for inclusion in HANES I, the approximately 1,900 PSU's were first grouped into 40 strata of which 15 contained only a single large metropolitan area with a population of more than 2 million.

At the second stage of the design a sample of segments, each consisting of approximately six households, was systematically selected within each selected PSU. Although the 1970 census data were used as the frame for sampling within PSU's when they became available, the calendar of operations required that the 1960 census data be used for the first 44 selected PSU's. Generally there were three types of segments used: segments from the U.S. Bureau of the Census listing books, area segments that are defined geographically, and permit segments, using updated lists of building permits issued in sample PSU's.

NOTE: A list of references follows the text.

At the third stage of sampling, a list of all eligible persons was made within each selected segment. From this list persons were systematically selected for inclusion in HANES I. (A more complete description of the survey design is included in two *Vital and Health Statistics* series.^{1,2})

Because of the complex multistage probability sample design for HANES I, appropriate complex procedures were used in the derivation of the national estimates shown in this report. Three basic operations are involved.

Inflation by the reciprocal of the probability of selection.—The probability of selection is the product of the probabilities of selection from each step of selection in the design (PSU, segment, and sample person).

Nonresponse adjustment.—The estimates are inflated by a multiplication factor calculated within each PSU for each of five selected income groups. The numerator of these factors consists of the sum of the weights for *sample persons* resulting from the reciprocal of the probability of selection, and the denominator consists of the sum of the weights for *examined persons* also resulting from the reciprocal of the probability of selection.

Poststratification by age-sex-race.—The estimates are ratio adjusted within each of 60 age-sex-race cells to an independent estimate, provided by the U.S. Bureau of the Census, of the population of each cell as of the midpoint of the survey. The effect of the ratio-estimating process is to make the sample more closely representative of the civilian noninstitutionalized population by age, sex, and race, which thereby reduces sampling variance.

In HANES I the locations² were drawn for the detailed examination component so that

locations 1-65, 66-100, and 1-100 are separate but overlapping probability samples of the civilian noninstitutionalized population ages 25-74 years. Examinations for the first 65 stands were conducted between April 1971 and June 1974. For the remaining 35 stands examinations were started in July 1974 and completed by October 1975.

Some or all of the hearing test findings were recorded for 6,805 adults. The extent of missing

data at each test frequency for the pure-tone air-conduction tests in 1971-75 and for the bone-conduction tests in 1974-75 are shown in table I. The total examined sample and the estimated U.S. population aged 25-74 years for each of the three samples are shown in tables II-IV.

Reliability of Estimates

Since the statistics presented in this report are based on a sample, they differ somewhat from the figures that would have been obtained if the survey had been conducted on the total population. In other words, the statistics are subject to sampling variability.

The standard error is primarily a measure of sampling variability, but it may also include part of the variation that arises in the measurement process. The standard errors presented in the even-numbered tables for air conduction have been calculated by a technique referred to as balanced repeated replication.⁵ The standard errors presented in the even-numbered tables for bone conduction and speech discrimination have been calculated by a technique referred to as first-order Taylor approximation. These specialized techniques for estimating standard errors are necessary because of the complexity of the sample design of HANES I. Estimates of standard errors are subject to errors that may be large if the number of cases upon which the estimates are based is small.

Table I. Number of adults for whom 1 or more tests parts were incomplete, by type of test and frequency level:
HANES, 1971-74 and 1971-75

Frequency	Air conduction (1971-75)	Bone conduction (1971-74)
Number of adults with incomplete tests		
All frequencies.....	178	1,638
<u>Right ear</u>		
500 Hz.....	121	675
1,000 Hz.....	108	505
2,000 Hz.....	115	688
4,000 Hz.....	122	1,228
<u>Left ear</u>		
500 Hz.....	127	666
1,000 Hz.....	117	502
2,000 Hz.....	116	683
4,000 Hz.....	122	1,147

Table II. Number of examined persons and estimated population¹ by age, sex, and race: United States, 1971-74

Age at examination and sex	All races ²		White		Black	
	Examined persons	Population in thousands	Examined persons	Population in thousands	Examined persons	Population in thousands
<u>Both sexes</u>						
25-74 years	3,854	104,125	3,208	93,030	612	10,243
25-34 years	724	26,740	609	23,615	109	2,936
35-44 years	598	22,193	497	19,573	93	2,376
45-54 years	931	23,317	781	20,906	144	2,294
55-64 years	747	19,187	621	17,440	119	1,518
65-74 years	854	12,688	700	11,497	147	1,118
<u>Male</u>						
25-74 years	1,839	49,332	1,541	44,358	277	4,478
25-34 years	337	12,894	288	11,505	44	1,249
35-44 years	264	10,685	230	9,544	31	998
45-54 years	452	11,145	376	10,025	73	1,067
55-64 years	369	9,130	307	8,336	58	690
65-74 years	417	5,478	340	4,948	71	474
<u>Female</u>						
25-74 years	2,015	54,793	1,667	48,672	335	5,764
25-34 years	387	13,846	321	12,110	65	1,687
35-44 years	334	11,508	267	10,029	62	1,378
45-54 years	479	12,172	405	10,881	71	1,227
55-64 years	378	10,057	314	9,104	61	829
65-74 years	437	7,209	360	6,549	76	645

¹As of the midpoint of the survey.

²Includes other racial groups in addition to white and black.

Table III. Number of examined persons and estimated population¹ by age, sex, and race: United States,
1974-75

Age at examination and sex	All races ²		White		Black	
	Examined persons	Population in thousands	Examined persons	Population in thousands	Examined persons	Population in thousands
<u>Both sexes</u>						
25-74 years	3,059	108,494	2,760	96,406	261	10,595
25-34 years	839	29,524	753	25,868	66	2,765
35-44 years	618	22,411	551	19,643	56	2,382
45-54 years	682	23,540	615	21,083	62	2,324
55-64 years	541	19,550	497	17,606	42	1,860
65-74 years	379	13,469	344	12,206	35	1,264
<u>Male</u>						
25-74 years	1,332	51,440	1,203	46,016	113	4,613
25-34 years	335	14,236	299	12,614	28	1,168
35-44 years	264	10,874	239	9,660	21	987
45-54 years	294	11,214	266	10,126	26	1,042
55-64 years	257	9,264	237	8,325	18	854
65-74 years	182	5,852	162	5,290	20	562
<u>Female</u>						
25-74 years	1,727	57,054	1,557	50,390	148	5,982
25-34 years	504	15,288	454	13,254	38	1,597
35-44 years	354	11,536	312	9,983	35	1,394
45-54 years	388	12,326	349	10,957	36	1,282
55-64 years	284	10,286	260	9,281	24	1,006
65-74 years	197	7,618	182	6,916	15	702

¹As of the midpoint of the survey.

²Includes other racial groups in addition to white and black.

Table IV. Number of examined persons and estimated population¹ by age, sex, and race: United States,
1971-75

Age at examination and sex	All races ²		White		Black	
	Examined persons	Population in thousands	Examined persons	Population in thousands	Examined persons	Population in thousands
<u>Both sexes</u>						
25-74 years	6,913	106,639	5,968	94,886	873	10,656
25-34 years	1,563	28,297	1,362	24,835	175	3,039
35-44 years	1,216	22,302	1,048	19,582	149	2,415
45-54 years	1,613	23,549	1,396	21,053	206	2,358
55-64 years	1,288	19,346	1,118	17,500	161	1,674
65-74 years	1,233	13,145	1,044	11,915	182	1,170
<u>Male</u>						
25-74 years	3,171	50,587	2,744	45,303	390	4,693
25-34 years	672	13,663	587	12,123	72	1,303
35-44 years	528	10,761	469	9,579	52	1,024
45-54 years	746	11,288	642	10,131	99	1,095
55-64 years	626	9,192	544	8,336	76	768
65-74 years	599	5,682	502	5,134	91	504
<u>Female</u>						
25-74 years	3,742	56,052	3,224	49,583	483	5,963
25-34 years	891	14,634	775	12,713	103	1,736
35-44 years	688	11,541	579	10,003	97	1,392
45-54 years	867	12,260	754	10,922	107	1,263
55-64 years	662	10,154	574	9,164	85	906
65-74 years	634	7,463	542	6,781	91	667

¹As of the midpoint of the survey.

²Includes other racial groups in addition to white and black.



APPENDIX II

DEMOGRAPHIC TERMS

Age.—Two ages were recorded for each examinee: the age at last birthday at the time of examination and at the time of the census interview. The age criterion for inclusion in the sample used in this survey was defined as age at time of census interview. The adjustment and weighting procedures used to produce national estimates were based on the age at interview. Data in the detailed tables and text of this report are shown by age at the time of the examination, with the exception that those who became 75 years by the time of examination are included in the 65-74-year age group.

Race.—Observed race was recorded as "white," "black," or "other." "Other" includes Japanese, Chinese, American Indian, Korean, Eskimo, and all races other than white and black. Mexicans were included with white unless known to be American Indian or of a race other than white. Black persons and those of mixed black and other parentage were recorded as "black." When a person of mixed racial background was uncertain about his or her race, the race of the father was recorded.



APPENDIX III

RECORDING FORMS

Pure Tone Air Conduction and Bone Conduction Tests

HSM-425-10 <small>REV. 11/71</small>										Form Approved O.M.B. No. 68-R1184 ASSURANCE OF CONFIDENTIALITY All information which would permit identification of the individual will be held strictly confidential, will be used only by persons engaged in and for the purposes of the survey, and will not be disclosed or released to others for any other purposes (22 FR 1687).		
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE <small>PUBLIC HEALTH SERVICE HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION NATIONAL CENTER FOR HEALTH STATISTICS HEALTH AND NUTRITION EXAMINATION SURVEY</small>												
AUDIOLOGY												
Deck No. 241			Audio No. (001) _____			Examiner No. (002) _____						
START HERE IF SAMPLE NO. EVEN												
AIR CONDUCTION - RIGHT EAR					BONE CONDUCTION - LEFT EAR							
Retest R with masking on L*	Frequency (Hz)	Hearing level	MASKING on R for B/C						Hearing levels (L) - If tone heard in R but not in L, record and circle R - level in space; if tone not heard in R or L, record 55 +			
			HL + 30 (a)	HL + 40 (b)	HL + 50 (c)	(a)	(b)	(c)				
(003)	1000	(004)	(005)	(006)	(007)	(008)						
(009)	2000	(010)	(011)	(012)	(013)	(014)						
(015)	4000	(016)	(017)	(018)	(019)	(020)						
(021)	500	(022)	(023)	(024)	(025)	(026)						
(027)	1000	(028)	(029)	(030)								
START HERE IF SAMPLE NO. ODD												
AIR CONDUCTION - LEFT EAR					BONE CONDUCTION - RIGHT EAR							
Retest L with masking on R*	Frequency (Hz)	Hearing level	MASKING on L for B/C						Hearing levels (R) - If tone heard in L but not R, record and circle L - level in space; if tone not heard in L or R, record 55 +			
			HL + 30 (a)	HL + 40 (b)	HL + 50 (c)	(a)	(b)	(c)				
(031)	1000	(032)	(033)	(034)	(035)	(036)						
(037)	2000	(038)	(039)	(040)	(041)	(042)						
(043)	4000	(044)	(045)	(046)	(047)	(048)						
(049)	500	(050)	(051)	(052)	(053)	(054)						
(055)	1000	(056)	(057)	(058)								
Condition affecting test results (Check only one) (059) 1 <input type="checkbox"/> None 2 <input type="checkbox"/> Cold or sinusitis now 3 <input type="checkbox"/> Ear discharge 4 <input type="checkbox"/> Ringing or other noises in ears 5 <input type="checkbox"/> Equipment defect ** 6 <input type="checkbox"/> Cold or sinusitis within one week 7 <input type="checkbox"/> Earache within week 8 <input type="checkbox"/> Other - Describe **					* Retest poorer ear with A/C masking on better ear only if differences in A/C-HL between the two ears is 40 dB or more ** Specify frequencies affected and describe _____ _____ _____ _____							
					Sample Number							

Speech Reception Test (20-60 dB)

HRA-12-2A 17 74		DEPARTMENT OF HEALTH, EDUCATION AND WELFARE PUBLIC HEALTH SERVICE HEALTH RESOURCES ADMINISTRATION NATIONAL CENTER FOR HEALTH STATISTICS										ASSURANCE OF CONFIDENTIALITY All information which would permit identification of the individual will be held strictly confidential, will be used only by persons engaged in and for the purposes of this survey, and will not be disclosed or released to others for any other purposes (22 FR 1687).											
SPEECH TEST HEALTH EXAMINATION SURVEY																							
a. Name (Last, first, middle)						b. Deck No.		INSTRUCTIONS Draw a horizontal line through all correct words. If after completing a list six or more words are missed, proceed to next list and increase decibel level by 10 until level 70 is reached. When 70 is reached go to Deck 243 (Blue paper).															
						242																	
c. Sample No.			d. Segment No.		e. Serial No.		f. Column No.																
g. List No.		h. Decibels - Mark (X) one						i. Ear tested		j. List No.		k. Decibels - Mark (X) one						l. Ear tested					
(101) 01		(102) 1 20 3 40 5 160						(103) 1 <input type="checkbox"/> Right 2 <input type="checkbox"/> Left		(115) 02		(116) 1 20 3 40 5 160						(117) 1 <input type="checkbox"/> Right 2 <input type="checkbox"/> Left					
1. WALKING'S MY FAVORITE EXERCISE.														1. the WATER'S TOO COLD for SWIMMING. 2. WHY SHOULD I GET up SO EARLY? 3. SHINE YOUR own SHOES THIS TIME. 4. IT'S RAINING right HERE in the ROOM. 5. WHERE ARE you GOING this MORNING? 6. YOU SHOULD COME HERE WHEN i CALL. 7. DON'T TRY to GET OUT OF IT. 8. WE LET LITTLE CHILDREN GO to the MOVIES. 9. THERE ISN'T ENOUGH PAINT to FINISH. 10. DO you WANT EGGS for BREAKFAST?									
(104) 1 2 3 4 (105)* 1 2 3 4 5 2. HERE'S a NICE QUIET PLACE to REST. (106)* 1 2 3 4 5 6 3. OUR JANITOR SWEEPS the FLOORS EVERY NIGHT. (107) 1 2 3 4 5 6 4. it WOULD be MUCH EASIER IF EVERYONE would HELP. (108)* 1 2 3 4 5 5. WE say GOOD MORNING and BEGIN to WORK. (109)* 1 2 3 4 5 6. OPEN the WINDOW BEFORE you GO to BED. (110)* 1 2 3 4 5 6 7. DO you THINK SHE SHOULD STAY HERE? (111)* 1 2 3 4 8. HOW DO you FEEL about CHANGING? (112)* 1 2 3 4 9. WHEN the TIME comes WE will GO. (113)* 1 2 3 4 5 10. IT'S too LATE to MOVE OUT of the WAY.																							
RECODER: Mark (X) only if this is the final level given.						Enter number of words missed →		RECODER: Mark (X) only if this is the final level given.						Enter number of words missed →									

m. List No.	n. Decibels - Mark (X) one	o. Ear tested	p. List No.	q. Decibels - Mark (X) one	r. Ear tested
(129) 03	(130) 1 20 3 40 5 60 2 30 4 50	(131) 1 <input type="checkbox"/> Right 2 <input type="checkbox"/> Left	(143) 04	(144) 1 <input type="checkbox"/> 20 3 <input type="checkbox"/> 40 5 <input type="checkbox"/> 60 2 <input type="checkbox"/> 30 4 <input type="checkbox"/> 50	(145) 1 <input type="checkbox"/> Right 2 <input type="checkbox"/> Left
(132)	1 2 3 4 5		(146)*	1 2 3 4 5 6	
1. EVERYBODY should BRUSH TEETH BEFORE MEALS.					
(133)	1 2 3 4		(147)*	1 2 3 4 5 6	
2. ONCE a YEAR EVERYTHING'S all RIGHT.					
(134)	1 2 3 4 5 6		(148)*	1 2 3 4 5 6	
3. DON'T USE UP ALL the LETTER PAPER.					
(135)	1 2 3		(149)*	1 2 3 4 5 6	
4. ANYTHING like THAT'S all RIGHT with me.					
(136)	1 2 3 4 5 6		(150)*	1 2 3 4 5 6	
5. THOSE PEOPLE OUTSIDE OUGHT to SEE a DOCTOR.					
(137)	1 2 3 4 5 6		(151)*	1 2 3 4 5 6	
6. the WINDOWS are SO DIRTY this MONTH I CAN'T see.					
(138)	1 2 3 4 5		(152)*	1 2 3 4 5	
7. PLEASE PASS the BREAD and BUTTER FIRST.					
(139)	1 2 3 4 5 6		(153)*	1 2 3 4 5	
8. DON'T FORGET to WRITE and PAY YOUR BILL.					
(140)	1 2 3 4 5		(154)*	1 2 3 4 5	
9. DON'T LET the DOG OUT of the HOUSE.					
(141)	1 2 3 4		(155)*	1 2 3 4 5	
10. THERE'S a GOOD BALLGAME this AFTERNOON.					
RECODER: (142) <input type="checkbox"/> ← Mark (X) only if this is the final level given.			RECODER: (156) <input type="checkbox"/> ← Mark (X) only if this is the final level given.		
Enter number of words missed →			Enter number of words missed →		

s. List No.	t. Decibels - Mark (X) one	u. Ear tested	v. List No.	w. Decibels - Mark (X) one	x. Ear tested
(157) 05	(158) 1 20 3 40 5 60 2 30 4 50	(159) 1 <input type="checkbox"/> Right 2 <input type="checkbox"/> Left	(171) 06	(172) 1 <input type="checkbox"/> 20 3 40 5 60 2 <input type="checkbox"/> 30 4 50	(173) 1 <input type="checkbox"/> Right 2 <input type="checkbox"/> Left
(160)	1 2 3 4 5 6		(174) *	1 2 3 4 5	
	1. YOU CAN CATCH the BUS ACROSS the STREET.			1. MUSIC ALWAYS MAKES me CHEER UP.	
(161) *	1 2 3 4		(175) *	1 2 3 4	
	2. TELL HER the NEWS on the PHONE.			2. my BROTHER'S in TOWN for a SHORT WHILE.	
(162) *	1 2 3 4 5		(176) *	1 2 3 4 5 6	
	3. I'LL CATCH UP with YOU LATER.			3. WE LIVE a FEW MILES off the MAIN ROAD.	
(163) *	1 2 3 4 5 6		(177) *	1 2 3 4 5	
	4. I'LL THINK it OVER AND CALL HER.			4. THIS SUIT NEEDS to GO to the CLEANERS.	
(164) *	1 2 3 4 5		(178) *	1 2 3 4 5	
	5. I DON'T WANT to GO to the MOVIES.			5. THEY ATE ENOUGH GREEN APPLES.	
(165) *	1 2 3 4 5 6		(179) *	1 2 3 4 5 6	
	6. SEE a DENTIST IF YOUR TOOTH HURTS.			6. have YOU BEEN SICK ALL THIS WEEK?	
(166) *	1 2 3 4 5		(180) *	1 2 3 4 5	
	7. PUT THAT COOKIE BACK in the BOX.			7. WHERE HAVE YOU been WORKING LATELY?	
(167) *	1 2 3 4 5		(181) *	1 2 3 4 5	
	8. you OUGHT to STOP FOOLING AROUND so MUCH.			8. there's NOT ENOUGH TABLE ROOM in the KITCHEN?	
(168) *	1 2 3 4		(182) *	1 2 3 4	
	9. TONIGHT THAT extra TIME'S UP.			9. it's HARD to see WHERE HE IS.	
(169) *	1 2 3 4		(183) *	1 2 3 4 5	
	10. HOW do you SPELL YOUR NAME?			10. LOOK OUT FOR NEW BUSINESS.	
RECORDER:		RECORDER:		RECORDER:	
(170) 1 ← final level given.	Enter number of words missed →	(184) 1 <input type="checkbox"/> ← final level given.	Enter number of words missed →		

y. List No.	z. Decibels - Mark (X) one	aa. Ear tested	bb. List No.	cc. Decibels - Mark (X) one	dd. Ear tested
(185) 07	(186) 1 <input type="checkbox"/> 20 3 <input type="checkbox"/> 40 5 <input type="checkbox"/> 60 2 <input type="checkbox"/> 30 4 <input type="checkbox"/> 50	(187) 1 <input type="checkbox"/> Right 2 <input type="checkbox"/> Left	(199) 08	(200) 1 <input type="checkbox"/> 20 3 <input type="checkbox"/> 40 5 <input type="checkbox"/> 60 2 <input type="checkbox"/> 30 4 <input type="checkbox"/> 50	(201) 1 <input type="checkbox"/> Right 2 <input type="checkbox"/> Left
(188)*	1 2 3 4 5		(202)*	1 2 3 4	
	1. I'LL SEE YOU RIGHT AFTER LUNCH.			1. BELIEVE ME it's TOO LATE.	
(189)*	1 2 3 4		(203)*	1 2 3 4 5	
	2. I'LL SEE YOU LATER this AFTERNOON.			2. LET'S GET THAT CUP of COFFEE.	
(190)*	1 2 3 4 5		(204)*	1 2 3 4 5	
	3. WHITE SHOES are AWFUL to KEEP CLEAN.			3. LET'S get OUT of HERE BEFORE long.	
(191)*	1 2 3 4 5 6		(205)*	1 2 3 4 5	
	4. YOU STAND OVER THERE UNTIL I MOVE.			4. I HATE DRIVING IF IT'S at NIGHT.	
(192)*	1 2 3 4 5 6		(206)*	1 2 3 4 5	
	5. THERE'S a PIECE of CAKE LEFT for DINNER TONIGHT.			5. THERE WAS WATER in the CELLAR YESTERDAY.	
(193)*	1 2 3 4 5 6		(207)*	1 2 3 4 5	
	6. DON'T WAIT for ME AT the FRONT CORNER.			6. SHE'LL ONLY be GONE a FEW MINUTES	
(194)*	1 2 3 4 5		(208)*	1 2 3 4 5 6	
	7. IT'S NO TROUBLE at ALL to TELL.			7. HOW do YOU KNOW WE'LL HAVE it SOON?	
(195)*	1 2 3 4		(209)*	1 2 3 4 5	
	8. HURRY UP with the MORNING PAPER.			8. CHILDREN LIKE CANDY AFTER HEAVY meals.	
(196)*	1 2 3 4 5		(210)*	1 2 3 4 5	
	9. it DIDN'T SAY ANYTHING about a BIG RAIN.			9. NO GRASS grows when we DON'T GET RAIN.	
(197)*	1 2 3 4		(211)*	1 2 3 4 5 6	
	10. that DRUGSTORE PHONE CALL'S for YOU.			10. THEY'RE NOT LISTED in the NEW PHONE BOOK.	
RECORDER:			RECORDER:		
(198) 1 <input type="checkbox"/> ← final level given.	Enter number of words missed →		(212) 1 <input type="checkbox"/> ← final level given.	Enter number of words missed →	

ee. List No.	ff. Decibels — Mark (X) one	gg. Ear tested	hh. List No.	ii. Decibels — Mark (X) one	jj. Ear tested
(213) 09	(214) 1 <input type="checkbox"/> 20 3 <input type="checkbox"/> 40 5 <input type="checkbox"/> 60 2 <input type="checkbox"/> 30 4 <input type="checkbox"/> 50	(215) 1 <input type="checkbox"/> Right 2 <input type="checkbox"/> Left	(227) 10	(228) 1 <input type="checkbox"/> 20 3 <input type="checkbox"/> 40 5 <input type="checkbox"/> 60 2 <input type="checkbox"/> 30 4 <input type="checkbox"/> 50	(229) 1 <input type="checkbox"/> Right 2 <input type="checkbox"/> Left
(216)*	1 2 3 4 5 6		(230)*	1 2 3 4	
1. WHERE CAN I FIND a PLACE to PARK?			1. BUT we WON'T be READY to START.		
(217)*	1 2 3 4 5 6		(231)*	1 2 3 4 5	
2. I LIKE THOSE BIG RED APPLES.			2. i DON'T KNOW what's WRONG WITH the CAR.		
(218)*	1 2 3 4		(232)*	1 2 3 4 5 6	
3. YOU'LL get FAT by EATING CANDY.			3. it SURE TAKES a SHARP KNIFE to CUT MEAT.		
(219)*	1 2 3 4		(233)*	1 2 3 4 5	
4. the COLOR SHOW'S OVER in the FALL.			4. i HAVEN'T READ a NEWSPAPER SINCE we got TELEVISION.		
(220)*	1 2 3 4 5 6		(234)*	1 2 3 4 5	
5. WHY DON'T they PAINT THEIR OTHER WALLS?			5. the WEEDS ARE SPOILING THIS YARD.		
(221)*	1 2 3 4 5 6		(235)*	1 2 3 4 5	
6. HOW COME you ALWAYS GET to GO FIRST?			6. CALL ME a LITTLE LATER for BREAKFAST.		
(222)*	1 2 3 4 5		(236)*	1 2 3 4 5	
7. WHAT ARE you HIDING UNDER your COAT?			7. DO you HAVE CHANGE for a FIVE-DOLLAR BILL?		
(223)*	1 2 3 4		(237)*	1 2 3 4	
8. I SHOULD ALWAYS buy NEW cars.			8. HOW ARE the things WE BOUGHT?		
(224)*	1 2 3 4		(238)*	1 2 3 4 5 6	
9. WHAT'S wrong with SUGAR and CREAM in my COFFEE?			9. i'd LIKE SOME ICE cream WITH MY PIE.		
(225)*	1 2 3 4 5		(239)*	1 2 3 4 5	
10. I'LL WAIT JUST ONE MINUTE.			10. i DON'T THINK I'LL HAVE DESSERT.		
RECORDER:			RECORDER:		
(226) 1 <input type="checkbox"/> ← final level given.	Enter number of words missed →		(240) 1 <input type="checkbox"/> ← final level given.	Enter number of words missed →	

Speech Reception Test (70-80 dB)

HRA-12-23B <small>(7-74)</small>												DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE HEALTH RESOURCES ADMINISTRATION NATIONAL CENTER FOR HEALTH STATISTICS						ASSURANCE OF CONFIDENTIALITY All information which would permit identification of the individual will be held strictly confidential, will be used only by persons engaged in and for the purposes of the survey, and will not be disclosed or released to others for any other purposes (22 FR 1687).					
SPEECH TEST HEALTH EXAMINATION SURVEY																							
a. Name (Last, first, middle)						b. Deck No. 243						INSTRUCTIONS Draw a horizontal line through all correct words. If after completing a list six or more words are missed, proceed to next list and increase decibel level by 10 until level 80 is reached. After 80 is complete (END TEST).											
c. Sample No.			d. Segment No.			e. Serial No.			f. Column No.														
g. List No.		h. Decibels – Mark (X) one				i. Ear tested		j. List No.		k. Decibels – Mark (X) one				l. Ear tested									
(301)		01				(302) 1 <input type="checkbox"/> 70 2 <input type="checkbox"/> 80		(303)		1 <input type="checkbox"/> Right 2 <input type="checkbox"/> Left				(315)		02				(316) 1 <input type="checkbox"/> 70 2 <input type="checkbox"/> 80		(317) 1 <input type="checkbox"/> Right 2 <input type="checkbox"/> Left	
(304)* 1 2 3 4 1. WALKING'S MY FAVORITE EXERCISE.												(318)* 1 2 3 4 1. the WATER'S TOO COLD for SWIMMING.											
(305)* 1 2 3 4 5 2. HERE'S a NICE QUIET PLACE to REST.												(319)* 1 2 3 4 5 6 2. WHY SHOULD I GET up SO EARLY?											
(306)* 1 2 3 4 5 6 3. OUR JANITOR SWEEPS the FLOORS EVERY NIGHT.												(320)* 1 2 3 4 5 3. SHINE YOUR own SHOES THIS TIME.											
(307)* 1 2 3 4 5 6 4. it WOULD be MUCH EASIER IF EVERYONE would HELP.												(321)* 1 2 3 4 4. IT'S RAINING right HERE in the ROOM.											
(308)* 1 2 3 4 5 5. WE say GOOD MORNING and BEGIN to WORK.												(322)* 1 2 3 4 5. WHERE ARE you GOING this MORNING?											
(309)* 1 2 3 4 5 6. OPEN the WINDOW BEFORE you GO to BED.												(323)* 1 2 3 4 5 6 6. YOU SHOULD COME HERE WHEN i CALL.											
(310)* 1 2 3 4 5 6 7. DO you THINK SHE SHOULD STAY HERE?												(324)* 1 2 3 4 5 6 7. DON'T TRY to GET OUT OF IT.											
(311)* 1 2 3 4 8. HOW DO you FEEL about CHANGING?												(325)* 1 2 3 4 5 6 8. WE LET LITTLE CHILDREN GO to the MOVIES.											
(312)* 1 2 3 4 9. WHEN the TIME comes WE will GO.												(326)* 1 2 3 4 5 9. THERE ISN'T ENOUGH PAINT to FINISH.											
(313)* 1 2 3 4 5 10. IT'S too LATE to MOVE OUT of the WAY.												(327)* 1 2 3 4 10. DO you WANT EGGS for BREAKFAST?											
RECORDER: <i>Mark (X) only if this is the final level given.</i> (314) 1 <input type="checkbox"/> ← final level given.						Enter number of words missed →						RECORDER: <i>Mark (X) only if this is the final level given.</i> (328) 1 <input type="checkbox"/> ← final level given.						Enter number of words missed →					

m. List No.	n. Decibels - Mark (X) one	o. Ear tested	p. List No.	q. Decibels - Mark (X) one	r. Ear tested
(329) 03	(330) 1 <input type="checkbox"/> 70 2 <input type="checkbox"/> 80	(331) 1 <input type="checkbox"/> Right 2 <input type="checkbox"/> Left	(343) 04	(344) 1 <input type="checkbox"/> 70 2 <input type="checkbox"/> 80	(345) 1 <input type="checkbox"/> Right 2 <input type="checkbox"/> Left
(332)*	1 2 3 4 5		(346)*	1 2 3 4 5	
1. EVERYBODY should BRUSH TEETH BEFORE MEALS.			1. IF you WANT to GO IT'S all right.		
(333)*	1 2 3 4		(347)*	1 2 3 4 5 6	
2. ONCE a YEAR EVERYTHING'S all RIGHT.			2. THROW THESE OLD TIME MAGAZINES OUT.		
(334)*	1 2 3 4 5 6		(348)*	1 2 3 4 5	
3. DON'T USE UP ALL the LETTER PAPER.			3. DO you WANT to WASH UP in the STREAM?		
(335)*	1 2 3		(349)*	1 2 3 4 5	
4. ANYTHING like THAT'S all RIGHT with me.			4. it's a REAL DARK NIGHT SO WATCH your DRIVING.		
(336)*	1 2 3 4 5 6		(350)*	1 2 3 4 5	
5. THOSE PEOPLE OUTSIDE OUGHT to SEE a DOCTOR.			5. I'LL CARRY YOUR PACKAGE for YOU.		
(337)*	1 2 3 4 5 6		(351)*	1 2 3 4 5 6	
6. the WINDOWS are SO DIRTY this MONTH I CAN'T see.			6. DON'T YOU FORGET to SHUT OFF the WATER.		
(338)*	1 2 3 4 5		(352)*	1 2 3 4 5	
7. PLEASE PASS the BREAD and BUTTER FIRST.			7. MOUNTAIN FISHING is my IDEA of a GOOD TIME.		
(339)*	1 2 3 4 5 6		(353)*	1 2 3 4 5	
8. DON'T FORGET to WRITE and PAY YOUR BILL.			8. FATHERS USED to SPEND more TIME with their CHILDREN.		
(340)*	1 2 3 4 5		(354)*	1 2 3 4 5	
9. DON'T LET the DOG OUT of the HOUSE.			9. BE CAREFUL NOT to BREAK the GLASSES.		
(341)*	1 2 3 4		(355)*	1 2 3	
10. THERE'S a GOOD BALLGAME this AFTERNOON.			10. I'M SORRIER THAN you for the mistake.		
RECORDER:			RECORDER:		
(342) 1 <input type="checkbox"/> ← final level given.	Enter number of words missed →		(356) 1 <input type="checkbox"/> ← final level given.	Enter number of words missed →	

s. List No.	t. Decibels - Mark (X) one	u. Ear tested	v. List No.	w. Decibels - Mark (X) one	x. Ear tested
(357) 05	(358) 1 <input type="checkbox"/> 70 2 <input type="checkbox"/> 80	(359) 1 <input type="checkbox"/> Right 2 <input type="checkbox"/> Left	(371) 06	(372) 1 <input type="checkbox"/> 70 2 <input type="checkbox"/> 80	(373) 1 <input type="checkbox"/> Right 2 <input type="checkbox"/> Left
(360) *	1 2 3 4 5 6		(374) *	1 2 3 4 5	
	1. YOU CAN CATCH the BUS ACROSS the STREET.			1. MUSIC ALWAYS MAKES me CHEER UP.	
(361) *	1 2 3 4		(375) *	1 2 3 4	
	2. TELL HER the NEWS on the PHONE.			2. my BROTHER'S in TOWN for a SHORT WHILE.	
(362) *	1 2 3 4 5		(376) *	1 2 3 4 5 6	
	3. I'LL CATCH UP with YOU LATER.			3. WE LIVE a FEW MILES off the MAIN ROAD.	
(363) *	1 2 3 4 5 6		(377) *	1 2 3 4 5	
	4. I'LL THINK it OVER AND CALL HER.			4. THIS SUIT NEEDS to GO to the CLEANERS.	
(364) *	1 2 3 4 5		(378) *	1 2 3 4 5	
	5. I DON'T WANT to GO to the MOVIES.			5. THEY ATE ENOUGH GREEN APPLES.	
(365) *	1 2 3 4 5 6		(379) *	1 2 3 4 5 6	
	6. SEE a DENTIST IF YOUR TOOTH HURTS.			6. have YOU BEEN SICK ALL THIS WEEK?	
(366) *	1 2 3 4 5		(380) *	1 2 3 4 5	
	7. PUT THAT COOKIE BACK in the BOX.			7. WHERE HAVE YOU been WORKING LATELY?	
(367) *	1 2 3 4 5		(381) *	1 2 3 4 5	
	8. you OUGHT to STOP FOOLING AROUND so MUCH.			8. there's NOT ENOUGH TABLE ROOM in the KITCHEN.	
(368) *	1 2 3 4		(382) *	1 2 3 4	
	9. TONIGHT THAT extra TIME'S UP.			9. it's HARD to see WHERE HE IS.	
(369) *	1 2 3 4		(383) *	1 2 3 4 5	
	10. HOW do you SPELL YOUR NAME?			10. LOOK OUT FOR NEW BUSINESS.	
RECORDER:		RECORDER:			
(370) <input type="checkbox"/> ← Mark (X) only if this is the final level given.		Enter number of words missed → 		(384) <input type="checkbox"/> ← Mark (X) only if this is the final level given.	
				Enter number of words missed → 	

y. List No. 385 07	z. Decibels — Mark (X) one 386 1 <input type="checkbox"/> 70 2 <input type="checkbox"/> 80	aa. Ear tested 387 1 <input type="checkbox"/> Right 2 <input type="checkbox"/> Left	bb. List No. 399 08	cc. Decibels — Mark (X) one 400 1 <input type="checkbox"/> 70 2 <input type="checkbox"/> 80	dd. Ear tested 401 1 <input type="checkbox"/> Right 2 <input type="checkbox"/> Left
388* 1. I'LL SEE YOU RIGHT AFTER LUNCH.	1 2 3 4 5		402* 1. BELIEVE ME it's TOO LATE.	1 2 3 4	
389* 2. I'LL SEE YOU LATER this AFTERNOON.	1 2 3 4		403* 2. LET'S GET THAT CUP of COFFEE.	1 2 3 4 5	
390* 3. WHITE SHOES are AWFUL to KEEP CLEAN.	1 2 3 4 5		404* 3. LET'S get OUT of HERE BEFORE long.	1 2 3 4 5	
391* 4. YOU STAND OVER THERE UNTIL i MOVE.	1 2 3 4 5 6		405* 4. i HATE DRIVING IF IT'S at NIGHT.	1 2 3 4 5	
392* 5. THERE'S a PIECE of CAKE LEFT for DINNER TONIGHT.	1 2 3 4 5 6		406* 5. THERE WAS WATER in the CELLAR YESTERDAY.	1 2 3 4 5	
393* 6. DON'T WAIT for ME AT the FRONT CORNER.	1 2 3 4 5 6		407* 6. SHE'LL ONLY be GONE a FEW MINUTES.	1 2 3 4 5	
394* 7. IT'S NO TROUBLE at ALL to TELL.	1 2 3 4 5		408* 7. HOW do YOU KNOW WE'LL HAVE it SOON?	1 2 3 4 5 6	
395* 8. HURRY UP with the MORNING PAPER.	1 2 3 4		409* 8. CHILDREN LIKE CANDY AFTER HEAVY meals.	1 2 3 4 5	
396* 9. it DIDN'T SAY ANYTHING about a BIG RAIN.	1 2 3 4 5		410* 9. NO GRASS grows when we DON'T GET RAIN.	1 2 3 4 5	
397* 10. that DRUGSTORE PHONE CALL'S for YOU.	1 2 3 4		411* 10. THEY'RE NOT LISTED in the NEW PHONE BOOK.	1 2 3 4 5 6	
RECODER: 398 1 <input type="checkbox"/> ← final level given.	Enter number of words missed →		RECODER: 412 1 <input type="checkbox"/> ← final level given.	Enter number of words missed →	

ee. List No. 413 09	ff. Decibels – Mark (X) one 414 1 <input type="checkbox"/> 70 2 <input type="checkbox"/> 80	gg. Ear tested 415 1 <input type="checkbox"/> Right 2 <input type="checkbox"/> Left	hh. List No. 427 10	ii. Decibels – Mark (X) one 428 1 <input type="checkbox"/> 70 2 <input type="checkbox"/> 80	jj. Ear tested 429 1 <input type="checkbox"/> Right 2 <input type="checkbox"/> Left
<p>416* 1. WHERE CAN I FIND a PLACE to PARK?</p>			<p>430* 1. BUT we WON'T be READY to START.</p>		
<p>417* 2. I LIKE THOSE BIG RED APPLES.</p>			<p>431* 2. i DON'T KNOW what's WRONG WITH the CAR.</p>		
<p>418* 3. YOU'LL get FAT by EATING CANDY.</p>			<p>432* 3. it SURE TAKES a SHARP KNIFE to CUT MEAT.</p>		
<p>419* 4. the COLOR SHOW'S OVER in the FALL.</p>			<p>433* 4. i HAVEN'T READ a NEWSPAPER SINCE we got TELEVISION.</p>		
<p>420* 5. WHY DON'T they PAINT THEIR OTHER WALLS?</p>			<p>434* 5. the WEEDS ARE SPOILING THIS YARD.</p>		
<p>421* 6. HOW COME you ALWAYS GET to GO FIRST?</p>			<p>435* 6. CALL ME a LITTLE LATER for BREAKFAST.</p>		
<p>422* 7. WHAT ARE you HIDING UNDER your COAT?</p>			<p>436* 7. DO you HAVE CHANGE for a FIVE-DOLLAR BILL?</p>		
<p>423* 8. I SHOULD ALWAYS buy NEW cars.</p>			<p>437* 8. HOW ARE the things WE BOUGHT?</p>		
<p>424* 9. WHAT'S wrong with SUGAR and CREAM in my COFFEE?</p>			<p>438* 9. i'd LIKE SOME ICE cream WITH MY PIE.</p>		
<p>425* 10. I'LL WAIT JUST ONE MINUTE.</p>			<p>439* 10. i DON'T THINK I'LL HAVE DESSERT.</p>		
RECORDER: 426 1 <input type="checkbox"/> ← final level given.		Enter number of words missed →	RECORDER: 440 1 <input type="checkbox"/> ← final level given.		Enter number of words missed →

APPENDIX IV
AUDIOMETRIC TEST DATA TAPE (AIR, BONE, SPEECH RECEPTION)
SUMMARY—HANES I

	<u>Tape Position</u>
CATALOG NUMBER—4241.....	201
AUDIOMETRY	
Audiometer Number	225
Examiner Number	230
1000 Hz—Right Ear	
Air Conduction—Right Ear	232
Air Conduction Hearing Level—Right ear without masking.....	234
Masking on Right Ear	237
Bone Conduction Hearing Level on Left Ear.....	239
Bone Conduction Hearing Level on Left Ear.....	242
Bone Conduction Hearing Level on Left Ear.....	245
2000 Hz—Right Ear	
Air Conduction—Right Ear.....	248
Air Conduction Hearing Level—Right ear without masking.....	250
Masking on Right Ear	253
Bone Conduction Hearing Level on Left Ear	255
Bone Conduction Hearing Level on Left Ear	258
Bone Conduction Hearing Level on Left Ear	261
4000 Hz—Right Ear	
Air Conduction—Right Ear.....	264
Air Conduction Hearing Level—Right ear without masking.....	266
Masking on Right Ear	269
Bone Conduction Hearing Level on Left Ear	271
Bone Conduction Hearing Level on Left Ear	274
Bone Conduction Hearing Level on Left Ear	277
500 Hz—Right Ear	
Air Conduction—Right Ear.....	280
Air Conduction Hearing Level—Right ear without masking.....	282
Masking on Right Ear	285
Bone Conduction Hearing Level on Left Ear	287
Bone Conduction Hearing Level on Left Ear	290
Bone Conduction Hearing Level on Left Ear	293
1000 Hz—Right Ear	
Air Conduction—Right Ear.....	296
Air Conduction Hearing Level—Right ear without masking.....	298
Masking on Right Ear	301
Bone Conduction Hearing Level on Left Ear	303

1000 Hz—Left Ear	
Air Conduction—Left Ear.....	306
Air Conduction Hearing Level—Left ear without masking.....	308
Masking on Left Ear	311
Bone Conduction Hearing Level on Right Ear	313
Bone Conduction Hearing Level on Right Ear	316
Bone Conduction Hearing Level on Right Ear	319
2000 Hz—Left Ear	
Air Conduction—Left Ear.....	322
Air Conduction Hearing Level—Left ear without masking.....	324
Masking on Left Ear	327
Bone Conduction Hearing Level on Right Ear	329
Bone Conduction Hearing Level on Right Ear	332
Bone Conduction Hearing Level on Right Ear	335
4000 Hz—Left Ear	
Air Conduction—Left Ear.....	338
Air Conduction Hearing Level—Left ear without masking.....	340
Masking on Left Ear	343
Bone Conduction Hearing Level on Right Ear	345
Bone Conduction Hearing Level on Right Ear	348
Bone Conduction Hearing Level on Right Ear	351
500 Hz—Left Ear	
Air Conduction—Left Ear.....	354
Air Conduction Hearing Level—Left ear without masking.....	356
Masking on Left Ear	359
Bone Conduction Hearing Level on Right Ear	361
Bone Conduction Hearing Level on Right Ear	364
Bone Conduction Hearing Level on Right Ear	367
1000 Hz—Left Ear	
Air Conduction—Left Ear.....	370
Air Conduction Hearing Level—Left ear without masking.....	372
Masking on Left Ear	375
Bone Conduction Hearing Level on Right Ear	377
Conditions Affecting Test Results	380
Speech Test (Reception)	
List Number (01)	425
Decibel Level (20-60).....	427
Ear Tested	428
Key Words Missed—Sentence 1.....	429
Key Words Missed—Sentence 2.....	433
Key Words Missed—Sentence 3.....	438
Key Words Missed—Sentence 4.....	444
Key Words Missed—Sentence 5.....	450
Key Words Missed—Sentence 6.....	455
Key Words Missed—Sentence 7.....	460
Key Words Missed—Sentence 8.....	466
Key Words Missed—Sentence 9.....	470
Key Words Missed—Sentence 10.....	474
Recorder—Final Level Given.....	479
List Number (02)	480
Decibel Level (20-60).....	482
Ear Tested	483
Key Words Missed—Sentence 1.....	484
Key Words Missed—Sentence 2.....	488
Key Words Missed—Sentence 3.....	494
Key Words Missed—Sentence 4.....	499

Tape
Position

Key Words Missed—Sentence 5.....	503
Key Words Missed—Sentence 6.....	507
Key Words Missed—Sentence 7.....	513
Key Words Missed—Sentence 8.....	519
Key Words Missed—Sentence 9.....	525
Key Words Missed—Sentence 10.....	530
Recorder—Final Level Given	534
 List Number (03)	535
Decibel Level (20-60)	537
Ear Tested.....	538
Key Words Missed—Sentence 1.....	539
Key Words Missed—Sentence 2.....	544
Key Words Missed—Sentence 3.....	548
Key Words Missed—Sentence 4.....	554
Key Words Missed—Sentence 5.....	557
Key Words Missed—Sentence 6.....	563
Key Words Missed—Sentence 7.....	569
Key Words Missed—Sentence 8.....	574
Key Words Missed—Sentence 9.....	580
Key Words Missed—Sentence 10.....	585
Recorder—Final Level Given	589
 List Number (04)	590
Decibel Level (20-60)	592
Ear Tested.....	593
Key Words Missed—Sentence 1.....	594
Key Words Missed—Sentence 2.....	598
Key Words Missed—Sentence 3.....	604
Key Words Missed—Sentence 4.....	609
Key Words Missed—Sentence 5.....	615
Key Words Missed—Sentence 6.....	620
Key Words Missed—Sentence 7.....	626
Key Words Missed—Sentence 8.....	631
Key Words Missed—Sentence 9.....	636
Key Words Missed—Sentence 10.....	641
Recorder—Final Level Given	644
 List Number (05)	645
Decibel Level (20-60)	647
Ear Tested.....	648
Key Words Missed—Sentence 1.....	649
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Key Words Missed—Sentence 3.....	713
Key Words Missed—Sentence 4.....	719
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Key Words Missed—Sentence 6.....	729
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Key Words Missed—Sentence 2.....	764
Key Words Missed—Sentence 3.....	768
Key Words Missed—Sentence 4.....	773
Key Words Missed—Sentence 5.....	779
Key Words Missed—Sentence 6.....	785
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Key Words Missed—Sentence 2.....	818
Key Words Missed—Sentence 3.....	823
Key Words Missed—Sentence 4.....	827
Key Words Missed—Sentence 5.....	832
Key Words Missed—Sentence 6.....	837
Key Words Missed—Sentence 7.....	842
Key Words Missed—Sentence 8.....	848
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Key Words Missed—Sentence 2.....	928
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Key Words Missed—Sentence 2.....	1033
Key Words Missed—Sentence 3.....	1038
Key Words Missed—Sentence 4.....	1044
Key Words Missed—Sentence 5.....	1050
Key Words Missed—Sentence 6.....	1055
Key Words Missed—Sentence 7.....	1060
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Key Words Missed—Sentence 3.....	1094
Key Words Missed—Sentence 4.....	1099
Key Words Missed—Sentence 5.....	1103
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Key Words Missed—Sentence 2.....	1144
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Key Words Missed—Sentence 7.....	1281
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Key Words Missed—Sentence 1.....	1304
Key Words Missed—Sentence 2.....	1309
Key Words Missed—Sentence 3.....	1313
Key Words Missed—Sentence 4.....	1319
Key Words Missed—Sentence 5.....	1324
Key Words Missed—Sentence 6.....	1329
Key Words Missed—Sentence 7.....	1335
Key Words Missed—Sentence 8.....	1340
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Key Words Missed—Sentence 2.....	1418
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Key Words Missed—Sentence 5.....	1432
Key Words Missed—Sentence 6.....	1437
Key Words Missed—Sentence 7.....	1442
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Key Words Missed—Sentence 2.....	1475
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Key Words Missed—Sentence 2.....	1528
Key Words Missed—Sentence 3.....	1533
Key Words Missed—Sentence 4.....	1539
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