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PHYSICAL IMPAIRMENTS OF MEMBERS OF LOW-INCOME FARM FAMILIES—11,490 PERSONS IN 2,477 FARM SECURITY ADMINISTRATION BORROWER FAMILIES, 1940 ¹

I. CHARACTERISTICS OF THE EXAMINED POPULATION. II. DEFECTIVE VISION AS DETERMINED BY THE SNELLEN TEST AND OTHER CHRONIC EYE CONDITIONS

By Mary Gover, Associate Statistician, and Jesse B. Yaukey, 1 Statistician, United States Public Health Service

During the past 9 years the Farm Security Administration has been engaged in the rehabilitation of low-income farmers who have insufficient collateral to obtain loans from banks. It was found in the course of the operation of this service that successful rehabilitation of these families in the field of farm operation required that attention also be given to their health and physical condition as well as to their more strictly occupational interests as farmers. To meet this need a health program has been developed under the direction of a medical officer of the Public Health Service who is loaned to the Farm Security Administration for this purpose. As a part of the activities of this program, in 1939-40. Dr. R. C. Williams, who was then in charge of the program, secured the physical examination of selected groups of the low-income farm families who were then participating in the The purpose of these examinations was to secure important information of value in planning the rehabilitation of these families and also to provide a source of data on the physical status of low-income farm families which would supplement the existing limited fund of information of this kind concerning the various social and economic groups that make up our population.

Available data dealing with the age-specific prevalence of physical impairments and chronic diseases among all members of selected groups of the population are limited, mainly, to two studies made from general physical examinations, namely, (1) examinations of 10,000

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¹ From the Division of Public Health Methods, U. S. Public Health Service, in cooperation with the Farm Security Administration, Department of Agriculture. Mr. Yaukey is detailed to the Farm Security Administration.

male industrial workers in 10 surveyed industries (3); and (2) periodic examinations by the Life Extension Institute of 100,000 male and 12,000 female life insurance policyholders (9). Reports of the examinations of draftees and of youths employed or seeking employment on out-of-school work programs of the National Youth Administration are also available for limited age groups. Numerous other studies from which the age prevalence of specific impairments can be obtained are, of course, available.

The industrial examinations referred to (3) were made by medical officers of the United States Public Health Service (1914–21) in approximately 150 plants in 10 surveyed industries located in cities in the Middle Atlantic, East North Central, and South Atlantic sections of the country. The examined male population was 51 percent foreign-born white, 46 percent native white, and 3 percent Negro; 69 percent of occupations were classified as skilled, 19 percent as unskilled labor, and 12 percent as executive, supervisory, or clerical.

The Life Extension Institute examinations (9) were of native-born white persons who applied for first check-up periodic health examination after their insurance policies were in force. Examinations at the "head" office (chiefly New York City) were made by a relatively small group of physicians working under close supervision for the purpose of uniformity of results; examinations in the field were made by some 9,000 physicians who "by reason of their much larger numbers have a diversity of training and technique and can receive very little supervision." The authors state that there was probably a tendency to miss an increasing number of impairments at ages over 60 years since the examinations were of a population able to come for health examination and therefore excluded disabled persons. An occupational classification of the examined groups shows "a disproportionately small number of individuals of the lower economic and social grades": professional workers were overrepresented and semiskilled and unskilled laborers underrepresented as compared with the general population. Among those examined in the "field" is a group of some 4,000 farmers. Although no data are available by income it seems reasonable to conclude that, in view of the weighting of the total examined groups by the higher economic grades, the farmers examined were at least not markedly below, and might well have been above, an average economic level of farmers. Insofar as is known, no studies on the frequency of physical impairments among members of lowincome farm families have been made elsewhere.

Source of the data.—During the period November 1939 through November 1940 the Farm Security Administration made physical examinations of all farmers and their families within selected areas

² The industries surveyed were: pottery, post office, glass, gas, foundry, steel, chemical, cement, cigar, and garment.

to whom loans had been extended. The examinations were made by local physicians; and nearby university, hospital, and teaching centers cooperated in assembling competent teams. The examining staffs included an internist, a gynecologist, a pediatrician, an eye, ear, nose, and throat specialist, a pathologist, a dentist, psychologists, nurses, and technicians. Although different professional staffs were engaged in the several areas there was considerable overlapping of professional personnel and an effort was made to obtain uniform examinations including the use of standard forms. Routine laboratory work included urinalysis, hemoglobin determination, a test for syphilis, and, in some areas, fecal examinations for intestinal parasites and blood examinations for malaria, in which the various State and county health departments cooperated. Special studies of tuberculosis and vitamin deficiency were conducted in a few selected areas.³

The data were collected and transferred to punch cards under the supervision of the Farm Security Administration and subsequently made available to the United States Public Health Service. The punch cards contain special fields for routine examinations, tests, or measurements of the following: height, weight, mental age, distance vision, hearing, nasal septum, tonsils and adenoids, teeth, blood pressure, appendix, perineum, uterus, hernia, varicose veins, hemorrhoids, and lost or impaired parts of the body. Other physical defects found to be present on examination are recorded on the punch card according to an illness diagnosis code. Results of laboratory tests for the presence of malaria, syphilis, intestinal parasites, and hemoglobin in the blood were recorded in certain areas.

The physical examination findings for this group of low-income farm families will be presented in a series of short reports; the present report will include (1) characteristics of the examined population, and (2) prevalence of defective vision and other chronic eye conditions.

I. Characteristics of the Examined Population

The 21 counties selected for physical examination of members of all Farm Security Administration borrower families residing in those

Tests for intestinal parasites were made in the above nine areas with the addition of Spotsylvania County, Va., and Avery County, N. C.

³ X-ray films of the chests of all persons 6 years of age and over were made by a field unit of the U. S. Public Health Service in four localities—Spotsylvania County, Va., Kershaw County, S. C., Levy County, Fla., and Henderson County, Tenn.; and a determination of riboflavin deficiency in two localities, Aroostook County, Maine, and Spotsylvania County, Va.

⁴ Owing to lack of time the coding of miscellaneous other defects was completed for the examined population of only 11 of the 19 areas (table 1), namely, Aroostook County, Maine; Champaign County, Ohio; Montgomery County, Ind.; Callaway County, Mo; Spotsylvania County, Va.; Avery County, N. C.; Kershaw County, S. C.; Levy County, Fla.; Henderson County, Tenn.; Pope County, Ark.; and Okfuskee County, Okla.

⁵ Tests for malaria were made in the following nine areas: Hershaw County, S. C.; Worth County, Ga.; Henderson County, Tenn.; parts of Carroll, Leftore, and Humphreys Counties, Miss.; Pope County, Ark.; Okfuskee County, Okla.; Franklin Parish, La.; Panola County, Tex.; and Williamson County, Tex.

Tests for syphilis and hemoglobin were made in all areas.

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counties are listed in table 2.6 The major portion of the examined population, 71 percent, was living in the South; 29 percent resided in the Northeast and North Central sections. According to the population enumeration of 1940 (table 1), the population of the 21 selected counties was 57 percent rural farm, the individual counties varying from 34 to 89 percent. The total rural farm population of the selected counties (table 1) was almost entirely native white and Negro; in the 15 southern counties the rural farm population was 43 percent Negro. The foreign-born white population of Aroostook County, Maine (8 percent) was largely Canadian; of Howard County, Nebr. (7 percent), it was Danish, Czechoslovakian, German, and Polish; of Phillips County, Colo. (3 percent), German and Swedish; of Williamson County, Tex. (7 percent), Mexican, Czechoslovakian, Swedish, and German; of Runnels County, Tex. (2 percent), Mexican, German, and Czechoslovakian (see note 4 to table 1). The population of Okfuskee County, Okla., was 6 percent Indian.

Farms operated by Farm Security Administration borrowers are average or somewhat larger than average size except in Florida; and also in Nebraska, Colorado, and Texas where the average farm is 300 acres or more (table 1).

The percentage of farms owned by Farm Security Administration borrowers is somewhat below the average (table 1).

The Farm Security Administration has made a tabulation (12) of the enterprises furnishing one quarter or more of the cash income of borrower families by States. Figure 1 has been made from these data. Dairy products, particularly in the Northeast and North Central areas, and poultry and labor-off-farm in all areas are the source of one quarter or more of cash farm income in a disproportionately large percentage of borrower farms (fig. 1).

The rural rehabilitation borrower families are of a lower than average income level for farmers. Estimates made by the Bureau of Agricultural Economics, Department of Agriculture (11), give an average annual net income of \$767 per farm in 1940. A comparable estimate of average annual net income for all rural rehabilitation farms made by the Farm Security Administration is \$500 in 1940,7 or approximately 35 percent less than that for all farms. The rural rehabilitation farmers and their families given physical examinations by the Farm Security Administration resided largely in the South which is a relatively low income area. The estimated average annual net income for 1941 of all borrowers in the States represented in the examined sample (table 2) was 17 percent lower than that for Farm Security Administration borrowers in all States.

⁶ The locality "Aroostook County, Maine" includes two sections of Aroostook County only; "Carroll, Leflore, and Humphreys Counties, Miss." includes adjacent sections of the three counties.

⁷ Estimates of income are of net income of farm operators exclusive of labor-off-farm.

Table 1.—Nativity of the rural farm population, size of farm and tenure of farm for total States and for counties, selected for physical examination of members of Farm Security Administration borrower families

Percent of rural farm	county examined as FSA borrowers	2.6	4.6; 4.8	10.2	15.1		16.4		6.	6.11	3:15	3.6
Percent of farms owned	FSA borrowers in total States	74	128	37	34	242	88	94	57	\$2 %	83	639
Percen ov	Total State	2	72	24	8	584	3 12	8	\$	744	51	82
Average acres per farm	FSA borrowers in total State	118	139	163 235	378	136 92 84	2212	112	58	98 161 59	152	6 137
Averag	Total State	108	94 107	136 391	613	%8%	134	75	8	88 194 79	339	6 162
ulation	Other races 1	0.0	88	88	8.	888	88	8.8	388	48.14 00.	888	. 42
arm pop hat was-	Negro 1	0.1	1.7	6.5	0.	31.1 1.3 59.0	26.0 26.0	8.6	77.8	27.0 39.7	11.7	33.6
Percent of rural farm population of county that was—	Foreign- born white ¹	1.8.1	60	4 6.6	42.7	6-19.	5.8	10.0		ö	46.5 42.0	1.6
Percent of	Native white 1	91.7	97.7 99.8	93. 1 93. 4	97.3	88.83 8.83 8.00 8.00	73.52 4.80	93.2	14.0 22.1	98.98 90.48 90.88	51.8 81.8 97.3	4.4
Percent of total county	population that was rural farm	35.6	38.4	49.2 64.5	52.6	6.08 4.09 4.09	79.9 35.9	64.2	. 4.65 4.62 4.62	2.38 2.4.8	77.1 63.2 52.9	57.3
Rural farm population	for county: Number of persons 1	33, 607	9, 688	11, 370 5, 429	2,602	6, 479 9, 346 19, 885	17, 072 4, 506	12,340	33,848 20,807	13,656 15,871 27,296	17, 354 22, 173 9, 997	321, 097
	County	Aroostook	Champaign	Callaway Howard	Phillips	Spotsylvania Avery Kershaw	Worth	Henderson	Leflore	Pope. Okiuskee Franklin	Panola Williamson Runnels	
	State	Maine	Ohio Indiana	Missouri	Colorado	Virginia North Carolina South Carolina	GeorgiaFlorida	Tennessee	Mississippi	Arkansas Oklahoma Louisiana	Texas	
	Geographic area	New England	East North Central.	West North Central Missouri	Mountain	South Atlantic		East South Central		West South Central Oklahoma		All counties

1 From Census of Population, 1940.
2 From Census at Agriculture, 1940.
3 From Census at Agriculture, 1841.
4 From U. S. Dept. of Agriculture, Farm Security Administration (12).
4 The foreign-born population of Aroostook Co., Maine, was 92 percent Canadian; of Howard Co., Nebr., 42 percent Danish, 17 percent Cacadiovakian, 15 percent German, 10 percent Polish, 7 percent Swedish; of Phillips Co., Colo., 41 percent German, 31 percent Swedish, 7 percent British, 7 percent Danish, 5 percent Canadian, 5 percent

Russian; of Williamson Co., Tex., 36 percent Mexican, 24 percent Czechoslovakian, 15 percent Swedish, 13 percent German: of Runnels Co., Tex., 46 percent Mexican, Se percent derman, 14 percent Czechoslovakian. The population of Oktuskee Co., Okla, was 6 percent Indian.

Average of 17 States.

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Practically all Farm Security Administration borrower families residing in the selected areas came to the clinics for examination—2,167 white and 310 Negro families or 9,776 white persons and 1,714 Negroes (table 2). In all counties combined, this included 4 percent of the tetal county rural farm population (table 1). Based on families of known size, 91 percent of the members of white and 94 percent of those of Negro borrower families were examined. The average size of family

ENTERPRISE FURNISHING A OR MORE OF CASH FARM INCOME FRACTIFY OF BORROWERS REPORTING FRACTIFY OF B

FIGURE 1.—Percentage of borrowers reporting specified enterprises as furnishing one-quarter or more of cash farm income—Farm Security Administration borrowers in 17 States, 1941 (12).

of the examined population is relatively large, 5.0 persons per family for white and 5.6 for Negro. Since relatively young heads of families were selected for Farm Security Administration loans, the mean age of the population is low, 23.5 years for whites and 22.6 for Negroes (table 2). The percentage age distribution of the white and Negro persons examined is given in table 3 and figure 2, and compared with the enumerated rural farm population (1940) of the 17 States represented and with the total population of the United States (1940). In both the white and Negro examined populations, the percentage of children under 15 years of age is relatively high, as is also the group 35 to 45 years.

Table 2.—Number of persons receiving physical examination—members of Farm Security Administration borrower families in 19 localities, 1940

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	State	County	Number of families examined	r of fam-	Number of persons examined	r of per-	Perœnt exam- ined 1		Number of per- sons per family 1	of per-	Mean age population	Mean age of examined population with prob- able error
			White	Negro	White	Negre	White	Negro	White	Negro	White	Negro
New England		Aroestook	156		35		92.3		89		21.8±0.40	
East North Central Indiana		Champaign Montgemery	122		355		91.9		4; t.		24.0± .55	
West North CentralNebraska		Callaway Howard	165		575		8.3		44		25.2± .48 23.8± .50	
Mountain Colorado Colorado		Phillips	100		306		92.3		4		24.6± .61	
South Atlantic North Oarolin	ine	Spetsylvania	88	39	172	158	94.2	93.2	5.1	4.9	25.54.99	24. 2±1. 10
South Carolina		Kershaw Worth	105	2888	679	388	95.0	98.0 0.0 0.0 0.0	4.70	9.6	2888 1148 2148	21. 2± .58 21. 5± .81
East South Central Tennessee	•	Henderson	113	8	888	2	93.0	3	 	7	22.3± .40	07 -1∓1. TO
Mississippi		Carroll Leftore Humphreys	84	#	421	216	90.3	92.7	7Q 7C	8	22.7±.55	23.3±.70
West South CentralOklahoma		Pope Okfuskee Franklin	130 130 130 130	35 13 18	745 601 1,008	213	9.9.9. 9.4.7.	98.2 7.29.1 7.24	54.50 101	0 0 0 0 0	22.3± .40 21.3± .40 21.1± .34	20. 4±1. 20 20. 6± . 76 20. 5±1. 10
Texas		Fanola Williamson Runnels	485		288 188 188 188 188 188 188 188 188 188	183	2.8.8 2.6.4	86	4 4 4 0 60 60	9.1	222 222 444 563 88.	23. 8± .85
19 localities	-		2, 167	310	9,776	1, 714	91.2	2.1	8.0	5.6	23.5± .12	22.6±.20

1 Percent of individuals examined and number of persons per family are for examined families of known size.

Table 3.—Percentage age distribution of members of Farm Security Administration borrower families, and of the total rural farm population of 17 States

				Populati	ion examin	Population examined by Farm Security Administration	n Security	Administr	ation 1						
		White			Negro			White	•		Negro	-	Kuran	kurai iarin population •	ation .
Age	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female
			Nr	Number						Percenta	Percentage age distribution	ribution			
All ages	9, 776	4, 993	4, 783	1,714	851	863	100.0	100.0	100.0	100.0	100.1	100.0	100.2	80.0	100.2
Under 5 15-9 10-14 116-19 23-23 23-23 23-33 40-44 50-54 60-64 65 and over	1, 229 1, 484 1, 653 1, 653 528 631 631 642 642 642 642 642 643 644 644 644 644 644 644 644 644 644	595 7711 8471 8877 288 3308 3308 259 1127 1127	482 482 482 483 483 483 483 483 483 483 483 483 483	22 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	812518888888888	112224488848882111122283458834111	ぱぱぱぴらららららよるユニ のるてのののもののよるよこ		ಪ್ಪಪ್ಪೆಪ್ಪಿ ಕ್ರಿಸ್ ಕ್ಟ	2351.22.22.44.22.42.11. 287.22.22.44.22.11.		はいいはよららまできまましまった。まりまりものここのままままままままままままままままままままままままままままままま		011111855656446665 011111855656446665	

Population examined in 19 localities (table 2).
 Enumerated rural farm population of 17 States, 1940 (table 1).

The mean age of the examined population in separate localities (table 2) varies significantly from the average in two counties only, Montgomery County, Ind., and Levy County, Fla. In these areas there were relatively fewer children under 20 years of age. On the whole, however, the age distributions of the examined populations in the several localities are similar enough that age correction for inter-State comparisons of prevalence rates is not essential.

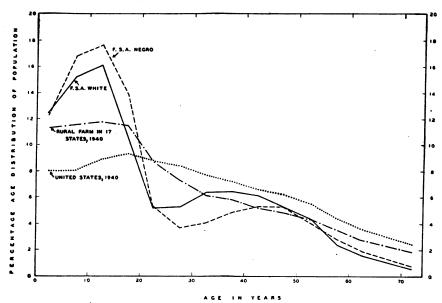


FIGURE 2.—The percentage age distribution of members of borrower families, given physical examinations by the Farm Security Administration, 1940, in a total of 19 and 9 localities for whites and Negroes, respectively; compared with the percentage age distribution of the rural farm population in a total of 17 States, and of the total population of the United States, 1940.

II. Defective Vision and Other Chronic Eye Conditions

PREVALENCE OF DEFECTIVE VISION AS DETERMINED BY THE SNELLEN TEST FOR SPECIFIC AGES

The visual acuity of 7,932 white and 1,366 Negro persons of 5 years of age and over was tested with the Snellen test chart. This test reveals practically all cases of myopia but does not discover a large percentage of the hyperopic or astigmatic eye conditions (7). The Snellen test chart consists of rows of letters of increasing size; the size of the letters being such that vision is normal when the chart can be read at the specified distance for each row of letters. Results of the test are recorded as a fraction; that is, the numerator of the fraction is the number of feet at which the chart is placed, the denominator of the fraction designates the minimum size of letter which can be read expressed as the number of feet at which vision is normal for the spe-

cified size of letter. Normal vision is defined as 20/20. Observations were recorded as of the "better" and "poorer" eye. They have been assembled into 5 groups; namely, 20/20 (normal vision) in both eyes; 20/20 (normal vision) in one eye only and 20/25 or worse in the poorer eye; 20/25 or 20/30 in the better eye and 20/25 or worse in the poorer eye; 20/40 or 20/50 in the better eye and 20/40 or worse in the poorer eye; and 20/70 or worse in both eyes.

The Snellen test is relatively objective; the results of the test vary somewhat, however, when done by different examiners and under different environmental conditions such as lighting and different subjective conditions such as the general fatigue of those examined. The observed prevalence of defective vision in different localities shows some inconsistencies when the rates specific for age and extent of defective vision are examined and, therefore, indicates some variability in the method of recording results in these data in addition to a sampling variability as measured by the probable error. Variation in the recording of Snellen test results, however, is relatively slight compared with less objective observations such as the prevalence of enlarged or diseased tonsils, for example. In these data there was also a language difficulty particularly among the French Canadians examined in Maine. A high prevalence of granular lids among the children in Arkansas made visual testing difficult in that area.

Table 4 shows the result of the Snellen test made on white persons of 5-14, 15-44, and 45 or more years of age for each of the 19 localities in which members of Farm Security Administration borrower families were examined. The range of variability in the percentage with defective vision in different localities is considerable—from 17 to 59 percent for 15-44 years of age and from 61 to 97 percent at 45 years and over. As determined by the probable error, the number of localities in which the examined population was recorded to have a consistently and significantly better or poorer vision than the average is comparatively few. A low percentage with defective vision was recorded in Callaway County, Mo., Worth County, Ga., and Carroll, Leflore, and Humphreys Counties, Miss., for all age groups and in Panola, Williamson, and Runnels Counties, Tex., for 15-44 years; a high percentage was recorded in Phillips County, Colo., and Levy County, Fla., for all age groups over 5 years, and in Pope County, Ark., and Aroostook County, Maine, for children 5-14 years. The majority of the localities, however, record an average prevalence of defective vision.

The results of the Snellen test for specific ages in all localities combined are shown in table 5 for whites and in table 6 for Negroes and whites in the areas in which Negro families were examined. Figure 3 is an over-all representation of the cumulative prevalence of poor, moderate, slightly defective, and normal vision in specific age

Table 4.—Percentage of white persons in three age groups with the specified vision as determined by the Snellen test—members of Farm Security.

Administration borrower families in 19 localities, 1940

				5-14 years		1	15-44 years		45 y	45 years and over	ver
Geographic area	State	County	Number examined for vision	20/25 or worse in either eye ¹ (percent)	20/40 or worse in better eye (percent)	Number examined for vision	20/25 or worse in either eye i (percent)	20/40 or worse in better eye (percent)	Number examined for vision	20/25 or worse in either eye i (percent)	20/40 or worse in better eye (percent)
	Maine	Aroostook	297	46.1	6.1	360	43.8	5.8	109	78.0	23.9
	Obio Indiana	ChampaignMontgomery	<u> </u>	37.3	4.8 2.4	147	31.3	. 69 . 73	75	67.7 82.7	82. 40.0
West North Central	Missouri Nebraska	CallawayHoward	196	27.7	1.0	22.2	38.7	 	38	81.7	21.9 30.5
Mountain	Colorado	Phillips	8	46.9	10.4	164	59.1	17.1	8	87.8	47.6
South Atlantic	Virginia North Carolina	Spotsylvania Avery	828	22.23	80.0	888	4:40 4:40	9.18	888	5.29.8 0 44 6	38.5 52.6
	Georgia Florida	North Levy	88 88		4 44 70 44 80	888	24.3 57.6	7.0	888	8.08 2.7.5	888 300 400
East South Central		Henderson Carroll Leflore	120	30.0	1.5	228	41.6	3.7	윤 정	88.9 61.8	57.1 28.6
West South Central	Arkansas Oklahoma Louisiana Texas	(Humpineys Pope Oktuskee Franklin Panola Williamson	18218	40.0 19.8 19.5 19.5 19.5		317 396 127 127	488894 48804	0000ididid	200 107 107 108 108	25.77 26.88 26.06 26.06 26.06 26.06	88.883. 88.893.
10 localities			2, 685	28.9	4.2	3,819	36.4	9.1	1, 428	78.2	37.6

The range of the probable error of the percentage with defective vision (20/25 or worse in either eye) is from 1.4 to 3.9 percent for the age group 5-14 years; and from 1.1 to 5.6 percent for the age group 15-44 years; and from 1.1 to 5.6 percent for the age group 45 years and over.

Table 5.—Percentage of white persons in specific age groups with the specified vision as determined by the Snellen test—members of Farm Security Administration borrower families in a total of 19 localities, 1940

Age	Number examined for vision	20/20 or better in both eyes (percent)	20/20 or better in one eye only (percent)	20/25 or 20/30 in better eye (percent)	20/40 or 20/50 in better eye (percent)	20/70 or worse in better eye (percent)
		'	Both	sexes		·—————
5 years and over	7, 932	59. 7	11.7	17. 4	5. 9	5.
5–9	1, 101	70. 6	8.9	16.3	3, 0	1. 1
10–14	1, 584	74.6	9. 1	12. 1	2. 5	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
15–19	1,008	73.0	10.9	11.6	2.6	1.9
20-24	494	68.0	13. 2	14.0	2.8	2. (
25-29 30-34	510 615	68.8	13. 3 13. 3	13. 9	2.5	1.4
35–39	615	64. 2 58. 2	14.0	15. 9 19. 3	3. 6 4. 4	2.9 4. 1
0-44	577	50.6	14.9	25.6	4.9	4. (
5-49	501	32.9	18.0	27.5	10.0	11.6
0-54	412	21.6	12. 1	28. 2	19.7	18.
55-59	234	16.7	12.0	23. 1	24.8	23. 5
0-645 and over	150	7.3	10.7	30.7	23.3	28.0
and over	131	5. 3	6. 1	25. 2	29.8	.33.6
			Ma	le		
years and over	4, 100	63. 2	11.9	15. 8	5. 3	3. 8
;-9l	567	71.4	9. 2	15. 5	2.8	1. 1
0–14	819	77.0	8.8	10.7	1.6	1.8
5–19	530	78.3	10. 2	7.9	2.1	1. 5
0-24	199	73.9	12.1	10. 1	2.5	1. 5
5–29 0–34	242 281	75. 6 70. 1	13. 2	8.7	1.2	1. 2
5-39	301	67.8	12. 1 13. 0	12.8 13.3	1.8 2.7	3. 2 3. 3
0-44	302	59.3	13.6	20.9	4.3	3. 3 2. (
5-49	257	40. 5	23.3	24. 1	7.0	5. 1
0–54	255	31.0	14.9	30.6	16. 5	7. 1
5-59	144	22. 2	14.6	29. 2	22.9	11. 1
0-64 5 and over	110 93	8. 2 7. 5	12. 7 6. 5	38. 2 28. 0	19. 1 30. 1	21. 8 28. 0
			Fem	ale		
	0.000					
years and over	3, 832	56.0	11.6	19. 1	6.5	6.8
-9	534	69. 7	8.6	17. 2	3. 2	1.3
0-14	765	72.0	9.4	13. 5	3.5	1.6
5–19 0–24	478	67. 2	11.7	15. 7	3.1	2.3
5-29	295 268	64. 1 62. 7	13. 9 13. 4	16. 6 18. 7	3. 1 3. 7	2.4
)–34	334	59.3	13.4	18.6	5.1	1. 5 2. 7
5-39	314	49.0	15.0	25. 2	6.1	4.8
)-44	275	41.1	16.4	30. 9	5. 5	6. 2
5–49	244	25.0	12.3	31.1	13. 1	18. 4
)-54	157	6.4	7.6	24. 2	24.8	36. 9
5-59	90	7.8	7.8	13. 3	27.8	43.3
)-64	40	5. 0	5.0	10.0	35.0	45.0
and over	38 .		5.3	18.4	28.9	47. 4

groups of the white examined population. From 30 to 70 years of age the percentage with defective vision increases from approximately 30 to 95 percent; from 45 to 70 years of age the percentage with moderate and markedly defective vision (20/40 or worse in better eye) increases from approximately 10 to 60 percent.

The data of table 7 are taken from studies of defective vision among other population groups and are reproduced here for comparison with low-income farm families. The age specific prevalence of defective vision from various sources is plotted on semi-logarithmic paper in figure 4. Although rough comparisons can be made in the actual results of the Snellen test conducted by different groups of examiners the relative age prevalence furnishes more valid comparisons.

The general agreement among the various data shown in figure 4 is striking. Both the Farm Security Administration data and schoolboys examined in eastern counties of the United States (5) show a decline in the percentage with defective vision as indicated by the Snellen

Table 6.—Percentage of Negro and white persons in specific age groups with the specified vision as determined by the Snellen test—members of Farm Security Administration borrower families in a total of nine localities, 1 1940

			Negro					White		
Age	Num- ber exam- ined for vision	20/20 or better in both eyes (per- cent)	20/20, 20/25 or 20/30 in better eye (per- cent)	20/40 or worse in better eye (per- cent)	Defective vision: 20/25 or worse in either eye (percent)	Num- ber exam- ined for vision	20/20 or better in both eyes (per- cent)	20/20, 20/25 or 20/30 in better eye (per- cent)	20/40 or worse in better eye (per- cent)	Defective vision: 20/25 or worse in either eye (per- cent)
		·	'		Both	sexes		'	` 	·
5 years and over	1, 366	74.7	17.8	7. 6	25. 3	4, 122	61.4	27.8	10.9	38 6
5-9. 10-14. 15-19. 20-24. 25-34. 35-44. 45-54. 55-64. 65 and over.	190 292 232 89 130 171 153 81 28	87. 9 91. 1 82. 3 78. 7 83. 1 71. 9 45. 1 27. 2 14. 3	9. 4 8. 6 15. 6 18. 0 14. 7 22. 2 32. 7 40. 7 28. 5	2. 7 .3 2. 2 3. 4 2. 3 5. 9 22. 2 32. 1 57. 2	12. 1 8. 9 17. 7 21. 3 16. 9 28. 1 54. 9 72. 8 85. 7	554 832 559 278 591 611 450 188 59	75. 5 75. 8 73. 5 70. 9 66. 5 54. 3 26. 9 12. 2 5. 1	21. 0 20. 6 22. 3 24. 1 28. 8 37. 2 40. 2 37. 7 28. 8	3. 6 3. 6 4. 1 5. 0 4. 7 8. 5 32. 9 50. 0 66. 1	24. 5 24. 2 26. 5 29. 1 33. 5 45. 7 73. 1 87. 8 94. 9
					M	ale				
5 years and over	683	74. 2	18.6	7.1	25.8	2, 133	63. 5	26.6	9. 9	36. 5
5-9 10-14 15-19 20-24 25-34 35-44 45-54 55-64 65 and over	87 153 113 44 54 64 91 57 20	86. 2 90. 2 81. 4 77. 3 85. 2 78. 1 56. 0 31. 6 15. 0	11. 4 9. 8 16. 8 18. 1 14. 9 18. 8 26. 4 40. 3 40. 0	2. 3 1. 8 4. 5 3. 2 17. 6 28. 0 45. 0	13. 8 9. 8 18. 6 22. 7 14. 8 21. 9 44. 0 68. 4 85. 0	280 437 287 109 283 304 263 126 44	77. 1 78. 3 78. 4 69. 7 69. 6 61. 2 34. 2 15. 9 6. 8	19. 3 18. 1 17. 8 25. 7 26. 5 31. 6 43. 7 45. 2 27. 2	3.6 3.7 3.8 4.6 3.9 7.2 22.0 38.9 65.9	22. 9 21. 7 21. 6 30. 3 30. 4 38. 8 65. 8 84. 1 93. 2
					Fen	nale				
5 years and over	683	75. 1	17. 0	7. 9	24. 9	1, 989	59. 0	29.0	11.9	41.0
5-9 10-14 15-19 20-24 25-34 35-44 45-54 55-64 65 and over	103 139 119 45 76 107 62 24 8	89. 3 92. 1 83. 2 80. 0 81. 6 68. 2 29. 0 16. 7 12. 5	7.8 7.2 14.3 17.8 14.5 24.3 41.9 41.7	2. 9 .7 2. 5 2. 2 3. 9 7. 4 29. 0 41. 6 87. 5	10. 7 7. 9 16. 8 20. 0 18. 4 31. 8 71. 0 83. 3 87. 5	274 395 272 169 308 307 187 62 15	73. 7 73. 2 68. 4 71. 6 63. 6 47. 6 16. 6 4. 8	22. 6 23. 3 27. 2 23. 1 30. 8 42. 6 35. 3 22. 5 33. 3	3. 7 3. 6 4. 4 5. 5 9. 8 48. 1 72. 6 66. 7	26. 3 26. 8 31. 6 28. 4 36. 4 52. 4 83. 4 95. 2 100. 0

¹ The localities included are those for which the number of persons examined is shown for Negroes in table 2.

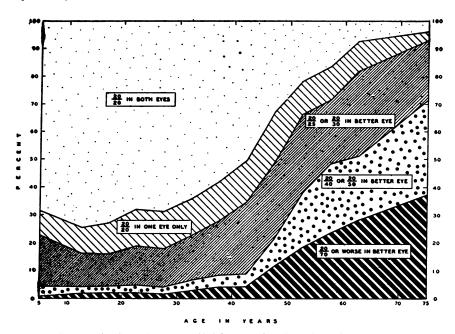


FIGURE 3.—The cumulated prevalence of specified degrees of defective vision as determined by the Snellen test for white persons in specific age groups—members of Farm Security Administration borrower families in 19 localities, 1940.

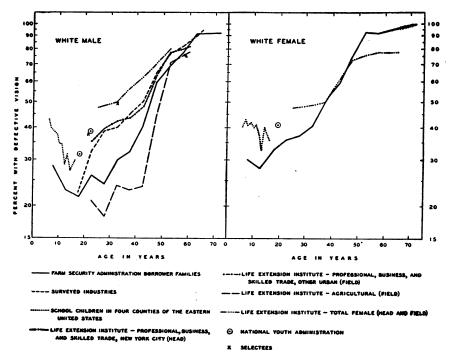


FIGURE 4.—Relative age prevalence of defective vision as determined by the Snellen test—members of Farm Security Administration borrower white families in 19 localities, 1940, compared with other available data.

Peorer than 20/20 in one or both eyes is defined as defective vision.

test at ages under 20 years; females show a decline at ages under 15 vears. This observation is in agreement with the fact that the anatomical development of the eye among males is not complete until about 20 years of age (5). After 20 years of age the percentage of males with defective vision increases in each successive age group; for industrial workers (3, 10) the increase is most rapid between 20 and 30 years of age, whereas for agricultural workers (10) the increase is most rapid from 45 to 55 years of age. From 20 to 50 years of age defective vision is more frequent among industrial workers than among farmers; after 50 years of age, however, there is little difference in the occurrence of defective vision among industrial and agricultural workers.

Table 7.—Percentage of white persons in specific age groups with defective vision as determined by the Snellen test-members of Farm Security Administration borrower families, 1940, and comparable data

						L	ife Ext	tension	Institu	ıte			1
	rity A	Secu-		chil	ocl dren coun-		Ma	ale				ional	Selec
Age	borr	ation ower ilies	in- dus- tries	ties o	of the tern S.		bus and s	ssional, iness, skilled ade	gricultural (field) s	ile •	min	istra- on ?	tees
	Male	Female	Male	Male 2	Female 3	Total 4	N.Y.city (head)	Other cities (ffeld) b	Agricultur	Total female	Male	Female	Male
					Perco	nt wit	h defe	ctive vi	sion 9				i
5-9 10-14 15-19 20-24 25-29 30-34 35-39 10-44 5-59 60-54	28. 6 23. 0 21. 7 26. 1 24. 4 29. 9 32. 2 40. 7 59. 5 69. 0 77. 8 91. 8	30. 3 28. 0 32. 8 35. 9 37. 3 40. 7 51. 0 58. 9 75. 0 93. 6 92. 2 95. 0	22. 6 32. 4 38. 7 39. 9 45. 1 50. 6 65. 3 77. 5 82. 2	39. 8 31. 4 30. 1	41. 6 38. 5 35. 7	36. 2 39. 5 42. 0 43. 8 48. 6 64. 5 77. 2 81. 7 (82. 9	\$47. 7 50. 2 56. 9 62. 6 80. 0	35. 5 39. 4 42. 6 43. 7 48. 6 63. 9 78. 0	21. 0 18. 2 23. 9 23. 2 23. 8 44. 7 71. 4	47. 6 48. 9 50. 8 60. 7 72. 9 75. 7 77. 9	31. 4 38. 6	40. 9	37. 0 49. 4

From Britten and Thompson (3), 1914-21. The Snellen test data are for 8 industries: pottery, post

Considering the two agricultural groups examined, defective vision is more frequent among the Farm Security Administration borrowers at every age group under 50 years than among the farmers examined

[|] From Britten and Thompson (3), 1914-21. The Snellen test data are for 8 industries: pottery, post office, glass, gas, foundry, steel, cement, and cigar.
| From Collins and Britten (5), 1915-17. The percentage with defective vision is given for single years of age. The percentage for the age group 15-19 years in this table is for boys 15-17 years of age.
| From Collins (4) 1915-17. The percentage with defective vision is given for single years of age. The percentage for the age group 15-19 years in this table is for girls 15-16 years of age.
| From Sydenstricker and Britten (9), 1922-25.
| From Britten (1), 1922-25.
| From Britten (1), 1922-25.
| From McDowell and Meroncy (8), 1941. The percentages for males are for the age groups 16-20 and 21-24 years; for females 16-24 years.
| From Karpinos (6), 1943. The percentages are for males, 18-24 and 25-39 years of age.
| Poorer than 20/20 in one or both eyes is defined as defective vision.

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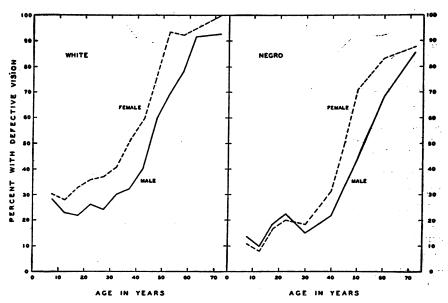
by the Life Extension Institute; from 20 to 50 years of age the percentages for the Farm Security Administration farmers are, on the average, approximately 30 percent higher. These two sets of agricultural data differ in several respects. The Farm Security Administration families are of a low income group, whereas the agricultural workers examined by the Life Extension Institute are probably of a betterthan-average income class. With respect to blindness as associated with income class the National Health Survey (2) shows a definite relationship between income and the prevalence of blindness in either one or both eyes for both males and females; in these data there is a marked increase in blindness as family income decreases, exclusive of those families receiving relief. Although this is probably due to greater accident and disease hazards among lower income groups, the reverse effect probably also operates, blindness causing a decline in income. With respect to the general standards of health of the two farm groups, it was stated earlier that the Life Extension Institute examinations were of persons who had passed a medical examination for life insurance and who had applied for a first check-up health examination. This would largely exclude definitely disabled persons. On the other hand, the Farm Security Administration data pertain to farmers and their families who have applied for rehabilitation loans. While illness may be wholly or in part responsible for a farmer's application for a loan, it seems unlikely that defects of vision alone could be a major cause of lowered farm income although defective vision might presumably be associated with other and more disabling kinds of defects.

Moreover, it is obvious that variations in examining standards lead to different recorded results. In the Farm Security Administration examinations 20/25 or worse in either eye is defined as a defect of vision. In the "10 surveyed industries" data defective vision is defined as 20/30 or worse in either eve. No subdivision of the total defective vision into slight and marked degree is made in the Life Extension Institute data and therefore it is impossible to say whether defective vision, in these data, is defined as 20/25 or worse or 20/30 or worse in either eye. Table 7 shows a comparison of the prevalence of defective vision for the group of professional, business, and skilled trade examined by the Life Extension Institute in New York City (head office) and in other urban areas (field offices). The authors' explanation of the high prevalence shown for those examined at the head office is the more careful and consistent examinations made there. Examinations of the agricultural group were made in field offices. Moreover, the recorded prevalence of defective vision for Farm Security Administration clients in separate States (table 4) showed variability in recorded results in spite of the relatively objective nature of the Snellen test. In view of the uncontrollable factors involved, therefore, it is difficult to make more than

rough comparisons between the actual prevalence rates of defective vision as obtained by different surveys upon diverse groups of the population.

Females among the Farm Security Administration borrower families (fig. 4) show a smaller percentage with defective vision than females of the Life Extension Institute data at ages 20 to 34 and identical percentages for ages 35 to 50 years.

Defective vision among males and females for specific age groups is compared in figure 5. Defective vision increases after 20 years for males and after 15 years for females. White females have more



FGURE 5.—Prevalence of defective vision as determined by the Snellen test among white and Negro males and females in specific age groups—members of Farm Security Administration borrower families in 19 and 9 localities, respectively, 1940.

defective vision than white males. The percentage difference between the curves of defective vision for white males and females is greatest at ages 15-44 years; at 60 years of age and over there is a slight difference only. Among the Negro population more females than males have defective vision after 25 years of age. Under 25 years and also at 65 years and over there is very little difference between the percentages for males and females. The observation that there is a higher percentage of defective vision among females than males is borne out by the Life Extension Institute data (table 7).

A comparison of the percentages of whites and Negroes with defective vision is shown in figure 6; the data for whites are based on those States in which Negroes were examined. Defective vision is less frequent among Negroes than whites in these data for every

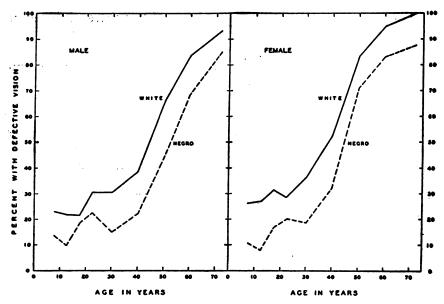


FIGURE 6.—Prevalence of defective vision as determined by the Snellen test among whites and Negroes for males and females in specific age groups—members of Farm Security Administration borrower families in 9 localities, 1940.

age group and for both males and females. Percentages of whites and Negroes with defective vision for individual areas have been computed and show that whites have a higher percentage than Negroes in practically every locality. The number of Negroes examined in separate areas is relatively small so that the differences between the white and Negro percentages are not always significant; the Negro percentages are consistently less than the white, however.

The National Youth Administration data (8) and examinations of selectees made in February 1943 (6) show more defects of vision among whites than Negroes as follows:

		al Youth istration	Sele	ctecs
Race	Male: 16-24	Female: 16-24	Male: 18-24	Male: 25-39
	years	years	years	years
	Percent with	defective vision	1 (20/25 or wors	e in either eye)
White	32. 9	40. 9	37. 6	49. 4
	29. 3	36. 7	31. 0	40. 6

These data, therefore, corroborate the observation that defective vision is less frequent among Negroes than whites. Both Negroes and whites were examined in the same Farm Security Administration clinics and by the same examining staffs. The economic status of Negroes and whites examined could not have been widely different,

and, therefore, the data seem to be favorable for a racial comparison. Since, however, a larger proportion of Negro than white agricultural workers are in all likelihood farm laborers rather than farm operators and since loans were made by the Farm Security Administration to farm operators only, it is likely that the Negroes examined represent a better social class among Negro farmers than the whites among all white farmers.

Table 8.—Percentage of white persons wearing glasses 1 among (a) members of Farm Security Administration borrower families in a total of 19 localities, 1940; (b) school children in 4 counties in the eastern United States; and (c) persons given medical examination by the Life Extension Institute

Color, sex, and source	perso	centag ns exa ring gl	mined	perso fect	centage ns wit ive vis ring gla	h de- sion	visio wors	centage sons v n of 20, e fh b earing	with /40 or etter
	5-19	20-39	40 and over	5-19	20-39	40 and over	5–19	20-39	40 and over
				P	ercent				
White male: Farm Security Administration	1.6 1.6	4.0	8.9	5. 8 4. 4	10.3	12.8	14. 5 9. 0	28. 3	24. 4
Life Extension Institute: total 3. Professional, business, and skilled trade: New York City (head) 4		20.9	39. 0 33. 0		50. 6 42. 7	60. 6 45. 0			
Other urban (field) 4		22. 4 11. 2	41. 4 32. 0		54. 1 50. 5	64. 6 62. 4			
Farm Security Administration	2. 7 2. 2	9. 2 26. 5	26. 7 39. 2	7. 9 5. 6	17. 9 54. 0	32. 9 56. 7	23. 6 13. 0	30.0	50. 5

¹ The percentage of persons wearing glasses includes persons wearing glasses for any visual defect.

² From Collins (4), 1915-17. School children, 6-16 years of age, in Spartanburg, S. C., and nearby villages, Frederick County, Md., New Castle County, Del., and Nassau County, N. Y.

³ From Sydenstricker and Britten (9), 1922-25.

⁴ From Sydenstricker and Britten (10), 1922-25.

From Britten (1), 1922-25.

The percentage of persons wearing glasses for any defect of vision among those examined by the Farm Security Administration is small compared with the percentage with defective vision. At 40 years and over. 9 percent of males and 27 percent of females examined were wearing glasses; 13 percent of males and 33 percent of females with any degree of defective vision were wearing glasses; and 24 percent of males and 51 percent of females with markedly defective vision (20/40 or worse in better eye) were wearing glasses for some defect of vision (table 8). For children 5-19 years of age the percentage wearing glasses is slightly more than that for school children examined in four rural localities of the eastern United States (1915-17). Among persons examined by the Life Extension Institute, however, glasses were worn much more frequently than among the low-income farm families, particularly among males.

PREVALENCE OF OTHER EYE DEFECTS AND CHRONIC DISEASES

The occurrence of other eye defects and chronic diseases found on physical examination has been coded and tabulated in these data for only 11 of the 19 localities, including 5 localities where Negroes were examined. Table 9 gives the recorded prevalence of specific eye conditions for white and Negro males and females per 100 persons examined for any defect. Among the defects included in table 9 the rate for pterygium only is significantly higher for males than females (white); other defects show no significant difference between the rates for the two sexes. Negroes have significantly higher rates than whites for cataract and pterygium; whites have significantly higher rates for strabismus and trachoma.

Table 9.—Prevalence of specific eye diseases among white and Negro males and females—members of Farm Security Administration borrower families, 1940

Race and sex	Num- ber of persons exam- ined	Glau- coma	Cata- ract	Strabis- mus	Tra- choma and sus- pected tra- choma	Inflam- matory diseases of eye and eyelid		Blind in one eye	Blind in both eyes
					Per	cent			
White male (11 localities) ³ . White female (11 localities) ³ Negro male (5 localities) ³ . Negro female (5 localities) ³ .	3, 000 2, 905 494 499	0. 13 . 10	1. 77 1. 20 3. 64 3. 01	2. 87 2. 48 . 61 . 60	1. 33 1. 03 . 20	0. 63 . 86 . 61 . 20	2. 87 1. 34 6. 68 6. 41	0. 50 . 34 1. 01 . 40	0, 03 . 07 . 40

¹ The total of 70 cases includes 14 diagnosed as definite trachoma; the remaining 56 cases were diagnosed as suspected trachoma recommended for observation.

The high prevalence of cataract in Florida and of trachoma and suspected trachoma in Arkansas is outstanding. Among 67 white cases reported in Pope County, Ark., 13 were diagnosed as trachoma and treatment recommended; 54 were recorded as suspected trachoma recommended for observation. In this connection, Veldee (14) records a high prevalence of folliculosis (30 percent of persons under 20 years of age) in Pinellas County, Fla. He states that folliculosis may be very widespread among children of school ages and is frequently diagnosed as trachoma; the disease is mild and runs a brief course compared with trachoma, disappearing spontaneously.

Table 10 gives the age-specific prevalence of cataract, strabismus, trachoma and suspected trachoma, and pterygium as found on physical examination. The highest prevalence of "trachoma and suspected trachoma" occurs at 5-14 years of age; of the 13 cases diagnosed as

suspected tracioma recommended for observation.

³ The 11 localities are: Arosstook County, Maine; Champaign County, Ohio; Montgomery County, Ind.; Callaway County, Mo.; Spotsylvania County, Va.; Avery County, N. C.; Kershaw County, S. C.; Levy County, Fig.; Henderson County, Tenn.; Pope County, Ark.; and Okfuskee County, Okla.

³ The 5 localities are: Spotsylvania County, Va.; Kershaw County, S. C.; Levy County, Fla.; Pope County, Ark.; and Okfuskee County, Okla.

Rates of cataract for Levy County, Fla., for both sexes are: white, 12.1, and Negro, 20.7 percent.

definite trachoma in Pope County, Ark., 7 occurred between the ages of 5 and 14 years. Veldee found the age of maximum prevalence of folliculosis to be 5-6 years of age with a rapid decline thereafter in contrast to trachoma which persists into adult life.

Table 10.—Prevalence of certain eye diseases among white persons in specific age groups—members of Farm Security Administration borrower families, 1940

	Number	of persons in	examined	Cataract (Levy	Stradis-	Trachoma and sus- pected	Peteryg- ium (11
Age	11 local- ities ¹	Florida ²	Arkan- sas ³	County Fla.) 2	mus (11 localities) ¹	(Pope County, Ark.)	local - ities) ¹
					Per	cent	
All ages	5, 905	593	745	12. 1	2.7	9. 0	2. 1
Under 5. 5-14. 15-24. 25-34. 35-44. 45-54. 55-64. 65 and over.	733 1, 837 991 663 726 581 268 106	71 136 112 75 73 68 42 16	88 246 131 87 107 58 23 5	.9 8.2 29.4 76.2 81.3	1.0 2.9 2.7 2.4 4.3 2.9 1.9	5.7 14.2 9.9 5.7 3.7 5.2 8.7	. 4 . 6 1. 1 4. 5 6. 7 6. 7

¹ The 11 localities are as given in table 9, note 2.

Of the total 88 cases of cataract 72, or 82 percent, occurred in Levy County, Fla.
 Of the total 87 cases of trachoma 67, or 93 percent, occurred in Pope County, Ark. The total of 67 cases includes 13 diagnosed as definite trachoma; the remaining 54 cases were diagnosed as suspected trachoma recommended for observation. The ages of the reported trachoma cases are: 2, under 5; 7, 5-14; 1, 15-24; 1, 25-34; and 2, 35-44.

SUMMARY

In connection with a rehabilitation program for borrower families the Farm Security Administration organized clinics and conducted general physical examinations of practically all members of borrower families in 19 selected localities from November 1939 through November 1940. The examinations were made by a staff of physicians and technicians. The examined population was almost entirely native white and Negro residing in 11 Southern States and 6 Northern or intermediate States. The families represent a low income farm population of the United States.

Curves of the age prevalence of defective vision as determined by the Snellen test are presented for this selected group and compared with other available data. The relative age prevalence of defective vision among rural rehabilitation farmers agrees with that of farmers examined by the Life Extension Institute, and differs from that of urban groups examined in a less rapid rate of increase in young adult ages and a more rapid rate of increase between 40 and 50 years of age. With respect to the actual value of recorded prevalence rates, the Farm Security Administration borrower families have less defective vision as determined by the Snellen test than available examined urban groups especially between the ages of 20 and 45 years; they also com-

pare somewhat unfavorably with another examined agricultural group but it is impossible to say how much of this difference might be due to differences in group selection and examining procedure.

Sex and color comparisons show that females have a higher percentage of defective vision than males for every age group; Negroes in these data have less defective vision than whites for all age groups.

Acknowledgment.—The authors wish to make acknowledgment to Dr. S. D. Collins for critical suggestions, advice, and guidance throughout the preparation of these studies; to Dr. R. C. Williams who was Chief Medical Officer of the Farm Security Administration in charge of the health program conducted among rural rehabilitation farmers; to Dr. F. D. Mott, Dr. B. A. Dyar, Dr. Thomas E. Morgan, Dr. F. V. Meriwether, and Dr. J. T. Googe who supervised the setting up of the physical examination procedure in the various localities; and to the members of the several professional staffs who made the physical examinations.

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PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

REPORTS FROM STATES FOR WEEK ENDED SEPTEMBER 2, 1944 Summary

The increase during the week in the incidence of poliomyelitis is less than that for either of the 2 preceding weeks. A total of 1,683 cases was reported, as compared with 1,529 and 1,254 for the preceding week and the next earlier week, respectively, and 1,370 for the corresponding week of 1931, which was the largest number reported for any week in prior years for which weekly records are available (i. e., since 1927).

The largest numbers, aggregating 1,423 cases, or approximately 85 percent of the total, were reported in the Middle Atlantic, East North Central, and South Atlantic areas. Sixteen States (6 showing decreases) reported 20 or more cases each, as follows (last week's figures in parentheses): Increases—Connecticut 20 (19), New York 666 (581), New Jersey 67 (36), Pennsylvania 162 (139), Ohio 105 (97), Indiana 27 (16), Michigan 120 (94), Wisconsin 32 (26), Maryland 47 (40), Virginia 65 (63); decreases—Massachusetts 35 (43), Illinois 37 (38), Minnesota 40 (57), District of Columbia 22 (27), North Carolina 42 (46), Kentucky 34 (38).

The total number of cases reported for the first 35 weeks of the year, ended September 2, is 9,472, as compared with 5,886 for the same period last year and a 5-year (1939-43) median of 3,301. In 14 of the past 17 years the peak of weekly incidence of poliomyelitis was reached earlier than September 20.

The number of cases of meningococcus meningitis reported for the week, 122, although more than 4 times the 5-year median of 29, is less than the number reported last week or for the corresponding week last year, 159 and 151, respectively. States reporting the largest numbers are New York (19), California (12), Pennsylvania (11), and Michigan (9).

Currently reported cases of diphtheria, smallpox, typhoid fever, and whooping cough are below both the reports for last week and the 5-year medians. The total of scarlet fever is below the 5-year median. While the figures for influenza and measles are less than for the preceding week, they are slightly above the medians.

A total of 7,591 deaths was recorded in 92 large cities of the United States, as compared with 7,446 last week and a 3-year (1941-43) average of 7,736. The total for the year to date is 318,961, as compared with 325,413 for the same period last year.

Telegraphic morbidity reports from State health officers for the week ended Sept. 2, 1944, and comparison with corresponding week of 1943 and 5-year median

In these tables a zero indicates a definite report, while leaders imply that, although none was reported, cases may have occurred.

cases may have occu	ırred.				·							
	I	Diphth	eria.	1	nfluen	za		Measle	3		eningi ningoco	
Division and State	end	eek led—	Me-	We ende		Me-	We end	eek ed—	Me-	w	eek ed	Me-
	Sept. 2, 1944	Sept. 4, 1943	dian 1939–43	Sept. 2, 1944	Sept. 4, 1943	dian 1939–43	Sept. 2, 1944	Sept. 4, 1943	dian 193 9-4 3	Sept. 2, 1944	Sept. 4, 1943	dian 1939- 43
NEW ENGLAND												
Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut	0 0 0 4 2 1	0 1 0	0 0 0 1 0	2	0 0 0 0		9 0 2 26 1 11	11 0 1 24 8 9	11 0 3 38 5 11	0 1 0 4 1 5	2 0 0 4 3 4	0
MIDDLE ATLANTIC New York New Jersey Pennsylvania	6 0 8	5 2 3	8 2 4	1 1 1	1 2 2 0	2	50 12 21	100 65 30	57 20 39	19 8 11	19 1 14	2 1 2
EAST NORTH CENTRAL												
Ohio	2 8 4 5 2	5 8 5 6 2	\$ 10 6 0	5 1 1 2	0 12 3 1 11	4 4 3 1 11	8 2 7 4 113	27 1 22 86 93	24 1 10 16 43	8 0 6 9 2	8 1 12 13 1	1 1 2 1 1
WEST NORTH CENTRAL				•					ĺ	İ		
Minnesota	0 2 1 3 2 2 2 5	3 5 0 1 2 4 2	2 2 3 1 2 0 3	5	0 0 1 13 0 0	1	3 4 3 0 1 4	16 2 9 13 7 0 5	5 10 4 3 3 2 8	1 0 5 3 0 1	2 1 5 1 0 0 1	0 0 2 0 0 0
BOUTH ATLANTIC Delaware. Maryland ² District of Columbia. Virginia. West Virginia. North Carolina. South Carolina. Georgia. Florida.	0 5 0 6 2 3 11 12 7	1 1 0 5 5 27 9 0 6	0 1 1 5 5 32 9 13	24 1 5 64 52	0 1 0 30 0 0 152 5	30 1 90 18 4	0 9 1 5 2 12 5 13 72	0 17 3 7 9 10 4 7	0 7 3 7 3 10 4 6	1 0 0 1 1 5 0 0 2	1 0 2 0 2 4 1 0 4	0 1 0 1 2 1 1 0 0
Kentucky Tennessee Alabama Mississippi 2	9 5 6 10	7 3 6 12	7 6 12 12	1 6 12	2 2 16 0	2 4 6	2 1 3	10 8 5	8 6 16	5 1 2 1	3 1 5 0	1 1 1 0
WEST SOUTH CENTRAL	l	İ			1							
Arkansas Louisiana Oklahoma Texas	4 4 5 15	0 2 1 18	7 2 5 22	10 7 216	1 1 11 226	2 1 5 108	6 0 10 28	6 0 11 46	4 1 2 29	1 1 0 2	1 2 2 6	0 1 0 2
MOUNTAIN Montana Idaho Wyoming Colorado New Mexico Arizona Utah Nevada PACIFIC	15 0 0 4 5 0 0	0 0 0 14 1 0 0	2 0 4 1 0 0	27 12	0 0 11 2 35 1	30 1 0	0 0 0 0 2 2 7 4	24 1 4 14 4 4 2 0	10 1 3 14 4 4 4 0	0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0
Washington Oregon California Total	5 0 15 205	1 6 18 198	1 1 10 243	1 5 28 491	1 2 10 565	3 11 388	32 18 150 668	17 12 54 808	17 12 54 666	3 1 12 123	5 5 14 151	0 1 0 29
		7, 696	8, 074 33	9, 669 82	2, 813 1.	52, 280 59	2, 322 53	39, 146 46	7, 858 13	3, 371 13	3, 845	1,470
1 Now York City on	·-			. D	7. 3	1. 1 1		~ .				

¹ New York City only.

² Period ended earlier than Saturday.

Telegraphic morbidity reports from State health officers for the week ended Sept. 2, 1944, and comparison with corresponding week of 1943 and 5-year median—Con.

	P	oliomy	elitis	8ca	arlet fe	ver		mallp	ox	para	`yphoid typhok	and d fever
Division and State		Veek ded—	Me- dian	ende	eek ed	Me- dian	w	eek ed	Me- dian	en	Veek ded	Me- dian
	Sept 2, 1944	Sept. 1943	1939- 43	Sept. 2 1944	Sept. 4, 1943	1000	Sept. 2, 1944	Sept. 1, 1943	1000	Sept 2, 1944		1000
NEW ENGLAND												
Maine. New Hampshire. Vermont. Massachusetts. Rhode Island Connecticut.	3	7 (7 5 20 1 11		0 0 3 32 2	2	2 1 47 3	0 0 0 0	0	0 0		0 1 0 1 1 0 2 2 1 0 2 1	0 0
MIDDLE ATLANTIC]						١.			
New York New Jersey Pennsylvania	.I 6*	7 8	10	15	66 14 41	19	0 0 0	0	Ó	8	3 5	4
EAST NORTH CENTRAL Ohio	10	5 18	, ,	50		امر ا	0		0	۱.,	, ,	١.,
Indiana	. 2	7 3	6	11	66 11	11	Ó	0	0	4	l 1	6
Illinois	. 120	18	26	26	53 42 35	41	0 0	6 0 0	1 0 0	3 2 2	8 6	9
WEST NORTH CENTRAL	"	1	1	"	30	30	١	U	ľ	•	1 '	1
Minnesota	40			11	22	15	0	0	0	g	0	0
Iowa Missouri	. 11	30	5	11	13 8		0	0	0	1 11	3	2 9 0
South Dakota	1 6) 0	1 1	2 0	2 11	2 9	0	0	0	1	0	0
Nebraska Kansas	1 7	17 90	5	7 23	3 18	3 20	0	0	0	0 5		1 4
SOUTH ATLANTIC	`	1		~	20	_~	ď	Ĭ	ď	٠		•
Delaware	4		o	2	.1	1	0	0	0	0	0	1
Maryland 2 District of Columbia	47 22	0	1 0	14 2	11 2	9	0	0	0	0	3	5 2
Virginia. West Virginia. North Carolina. South Carolina.	65 11	0	1 2	11 36	8 27	5 11	0	0	0	5 4 7	2 1	6
North Carolina South Carolina	42		3 1	27 2	56 9	23 4	0	0	0	7 2	1 4	11 6
Georgia Florida	8 2	1	2 3	6	12	12 2	2	ŏ	0	6 2	8	18
EAST SOUTH CENTRAL	_	"	°	1	1	1	٩	٩	0	Z	0	3
Kentucky	34	10	10	13	14	17	o	0	0	7	8 7	16
TennesseeAlabama	5 2 7	2 0	4	9	23 21	10 20	0	0	0	1 1	7 5	15 6
Mississippi 3	7	2	2	7	6	6	0	Ó	0	3	11	11
WEST SOUTH CENTRAL Arkansas	3	1	2	3	3	4	o	0	o	9	7	9
Louisiana Oklahoma	1	1 17	2	1 3	0	2	ŏ	ŏ	0	1 3	4	13
Texas	8	62	2 8	20	5 17	18	ŏ	ŏ	0	17	5 11	13 26
MOUNTAIN				İ	ı		1				ŀ	
Montana Idaho	0 1	9	3	3	11 2	9 2	0	0	0	0	0 1	2 1
Wyoming Colorado	0 5	5 20	0	0 10	6 10	2 1 7	0	0	0	0	0 2	1 2
New Mexico	1	12	2	3	4 2	1 1	0	Ŏ	Ŏ	2 3	0	4 2
Utah ² Nevada	2 2	76	3	4	9 2	2	0	0	0	0	0	1
PACIFIC	4	0	0	Ï	2	0	0	0	0	0	0	0
Washington	12	19	2	21	14	8	o	o	0	o	5	3
Oregon California	11 10	16 114	3 13	87 87	7 58	39	0	0	1	2	1	1 7
Total	1, 682	956	606	654	821	683	2	7	7	149	169	345
35 weeks	9, 474			48, 893 96			305					5, 181
		,	, -	-,	,	-,	المحد	520	-,	-, 550	3, 300	., 101

 ² Period ended earlier than Saturday.
 ³ Including paratyphoid fever reported separately, as follows: Massachusetts 1, Rhode Island 1, Connecticut 2, New York 6, Illinois 1, Georgia 1, Arkansas 2, Texas 2.

Telegraphic morbidity reports from State health officers for the week ended Sept. 2, 1944, and comparison with corresponding week of 1943 and 5-year median—Con.

1944, and compo		ooping		104671	y wee			Septe:				JUII.
Division and State	Wend	ek ed—	N - 3'-	A	T	ysente		En-		Rocky Mt.	.	Ту-
	Sept. 2, 1944	Sept. 4, 1943	Median 1939–43	An- thrax	A me-	Bacil- lary	Un- speci- fied	alitis, infec-	Lep- rosy	spot- ted fever	Tula- remia	mhne
NEW ENGLAND												
Maine. New Hampshire. Vermont. Massachusetts. Rhode Island. Connecticut.	- 69 - 69	23 37 6	0 23 110	0 0 0 0	0	0 0	0 0	0	0 0 0 0	000	0	0 0 0 0
MIDDLE ATLANTIC	- 30	'	38	0	0	4	0	0	0	0	0	0
New York. New Jersey Pennsylvania EAST NORTH CENTRAL	61	258 127 133	264 96 192	0 1 0	3 0 0	3	0	5 1 0	0 0 0	1 0 0	0 0 0	1 0 0
Ohio Indiana Illinois Michigan ³ Wisconsin	68 61	123 27 156 221 208	209 27 201 221 208	0 0 0 0	0 0 0 2 0	0 0 5 7 0	0	0 0 2 0 0	0 0 0 0	0 1 0 0	0 1 0 0 0	0 0 0 0
WEST NORTH CENTRAL Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas	10 16 39 4	50 73 13 42 12 9 31	35 23 8 13 6 3 32	. 0000	3 0 0 0 0	0 0 0 0 0	0 0 1 0 0	2 0 0 17 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 2 0 0 0	0 0 0 0 0
BOUTH ATLANTIC Delaware Maryland ³ District of Columbia Virginia West Virginia North Carolina South Carolina Georgia Florida	.l ol	7 55 24 23 57 100 58 13 19	4 56 15 22 17 100 18 17	0 0 0 0 0 0	000000000000000000000000000000000000000	0 0 0 0 8 6 0	0 8 0 150 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0	0 1 0 3 0 2 0	0 0 0 0 1 0	0 0 0 1 0 7 5 25
EAST SOUTH CENTRAL Kentucky Tennessee Alabama Mississippi 3	34 15 6	23 27 18	27 27 18	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 1 17 7
WEST SOUTH CENTRAL Arkansas Louisiana Oklahoma Texas	8 1 7 170	14 6 2 139	13 6 4 139	0 0 0	1 0 0 21	70 0 0 426	0 0 8 16	0 0 0 3	0 0 0 0	0 0	0 0 0 1	0 7 0 65
MOUNTAIN Montana Idaho. Wyoming Colorado. New Mexico Arizona Utah 2. Nevada.	21 1 1 34 0 26 24	17 0 1 32 9 13 60 2	17 1 3 20 8 7 39 0	000000000000000000000000000000000000000	0 0 0 1 0 0	0 0 0 0 3 0 0	0 0 0 0 2 33 0	1 1 0 5 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 2 0 0 0 1	0 0 0 0 0 0
PACIFIC Washington	19 4 74 1,690	64 46 135 2, 536	36 19 135 2, 536	0 0 0	0 0 8 39	0 0 8 617	0 0 0 218	0 0 3 41	0 0 0	0 0 0	0 0 0	0 0 2 157
Same week 1943. Same week 1942. 35 Weeks 1944. 35 Weeks 1943. 35 Weeks 1942.	128.043		131, 769	2 2 31 44 60	1, 435 1	447 217 5, 160 1, 096 6, 059	5, 230	25 21 442 475 361	1 0 20 19 35	16 10 389 381 4 399	6 8 397 615 676	2, 469

² Period ended earlier than Saturday.

^{4 5-}year median.

WEEKLY REPORTS FROM CITIES

City reports for week ended August 19, 1944

This table lists the reports from 87 cities of more than 10,000 population distributed throughout the United States, and represents a cross section of the current urban incidence of the diseases included in the table.

		infec-	Influ	ienza		meningo- cases	şq	8	88		para-	cough
	Diphtheria cases	Encephalitis, in tious, cases	Cases	Deaths	Measles cases	Meningitis, menir coccus, cases	Pneumonia deaths	Poliomyelitis cases	Scarlet fever cases	Smallpox cases	Typhoid and typhoid fever c	Whooping cases
NEW ENGLAND												
Maine: Portland	0	0		0	0	o	0	0	0	0	0	0
New Hampshire: Concord	0	0		0	1	0	2	0	0	0	0	0
Massachusetts:	1	0		0	26	6	9	3	13	0	0	ł
Fall River Springfield Worcester	0	0	<u>i</u>	0	0	0 3	0 2	0 2	0	0	0	6 5 0
Worcester Rhode Island:	ŏ	Ō		Ô	ŏ	0	2	ō	5	ŏ	i	ì
Providence	0	0		0	e	e	1	0	1	0	0	
BridgeportHartford	0	0		0	0	0	2	3 1	0	0	0	3 4 5
New Haven	ŏ	ŏ	1	ŏ	ŏ	ŏ	ŏ	i	ō	ŏ	ŏ	5
MIDDLE ATLANTIC												
New York: Buffalo	0	0		0	0	1	3	79	1	0	2	0
New York Rochester	4	0	2	3	15 6	16 1	66 0	129 8	18 0	0	13 0	59 5
Rochester Syracuse New Jersey:	0	0		0	1	2	0	11	0	0	0	12
Camden Newark Trenton	0	0	<u>-</u> -	0	1 5	0	0	ր 6	1	0	0	0 7 0
TrentonPennsylvania:	ŏ	Ō		ŏ	Õ	0	4	Õ	Ŏ	Ŏ	Ü	0
Philadelphia Pittsburgh	1 0	0	3	2 0	3	2 6	11 5	31 10	8	9	1 0	8 5 0
Reading	ŏ	ŏ		ŏ	ŏ	ŏ	ŏ	. 0	ŏ	ŏ	ŏ	Ŏ
EAST NORTH CENTRAL						l						
Ohio: Cincinnati	2	0		0	0	2	2	7	8	0	0	10
Cleveland Columbus	0	0		0	0 3	0	4	25 0	2 2	0	0	35 17
Fort Wayne	0	0		0	0	0	1	1	1	0	0	0
Indianapolis South Bend	1 0	0		0	1 0	0	2 0	2 0	2 0	0	0	4 0
Terre Haute	0	0		0	0	0	0	0	0	0	0	0
Chicago	1 0	0	1	1 0	9	3	24	12	10	0	2 0	47 0
Michigan: Detroit	3	0	1	0	8	0	11	33	5	0	1	38
FlintGrand Rapids	0	0		0	0	0	6	1 0	0	0	0	4 6
Wisconsin: Kenosha	1	0		0	0	0	0	0	0	0	0	11
Milwaukee	0	0		ŏ	12 5	1 0	Ŏ 1	3 0	1 0	ŏ	0	31 6
RacineSuperior	ŏ	ŏ		ŏ	5	ő	Õ	ŏ	ĭ	ŏ	ŏ	Ō
WEST NORTH CENTRAL			İ	ŀ					l			
Minnesota: Duluth	o l	0		o	o l	0	1	6	o l	0	o l	9
Minneapolis	1 1	0		0	0	0	2 2	11 8	0	0	0	3 26
Missouri: Kansas City	o	0		0	1	1	4	1	1	0	1	0
St. Joseph St. Louis	0	0	····i	0	18	0	8	3	2	0	0	0 12

City reports for week ended August 19, 1944—Continued

	_	infec-	Influ	enza		meningo-	sq.	3	88		para-	cough
	Diphtheria cases	Encephalitis, in tious, cases	Cases	Deaths	Measles cases	Meningitis, menir coccus, cases	Pneumonis desths	Poliomyelitis cases	Scarlet fever cases	Smallpox cases	Typhoid and paratyphoid fever cases	Whooping co
WEST NORTH CENTRAL— continued												
North Dakota: Fargo	0	0		0	0	0	1	4	0	0	0	0
Kansas: Topeka	0	0		0	ŏ	0	0	0	0	0	0	l
Wichita	ŏ	ŏ		ŏ	ŏ	ŏ	ă	ŏ	ŏ	ŏ	ŏ	8
SOUTH ATLANTIC												
Delaware: Wilmington	0	0		o	0	o	1	4	o	0	0	1
Maryland: Baltimore	4	0		0	1	2	10	14	6	0	0	54
Frederick	0	0		0	0	0	0	0	0	0	0	0
Washington	0	0		0	4	0	6	19	4	0	0	7
Virginia:	0	0		0	0	o	0	13	1	Q	Q	1
Richmond	0	0		0	2 0	0	0	1 5	1 0	0	0	1 2 2
West Virginia: Charleston	· o	o		o	o	0	0	0	1	0	0	, o
Wheeling North Carolina:	0	0		0	1	0	2	1	1	0	0	5
Raleigh. Wilmington. Winston-Salem	0	0		0	0	0	0 3	0	0	0	0 <u>-</u> -	13 7
COULD CAPOIDA.	0	0		0	0	0	0	3	0	0	0	
Charleston	0	0		0	0	0	1	0	0 2	0	1	0
Atlanta Brunswick	0	.0	5	0	2 0 0	1 0 0	3 0 1	0	0	ŏ	1 0 1	3 0 0
Savannah EAST SOUTH CENTRAL	0	١		0	ان	١	•	١	١	١	•	U
Tennessee:												
Memphis Nashville	0	0		0	1 4	0	8	1 0	0	0	1	14 0
Alabama: Birmingham	1	0	1	0	0	1	2	2	1	0	0	0
Mobile	Õ	ŏ		ŏ	ĭ	Ō	2	Ō	0	Ŏ	Ō	Ŏ
WEST SOUTH CENTRAL												
Arkansas: Little Rock	0	0		o	0	o	o	0	0	0	0	9
Louisiana: New Orleans	0	0	1	0	o	o l	5	4	0	o	o l	Q
Shreveport Texas:	0	0		0	0	0	5	0	0	0	1	0
Dallas Galveston	1 0	0		0	0	0	0	0	0	0	0	8
Houston San Antonio	2 1	0	i	0	0	0	3 2	0	0	8	6	1 1
MOUNTAIN				l						İ		
Montana:	0	0	•	0	0	اه	1	0	0	٥	0	3
Billings	0	Ŏ.		0	0	ŏ	1 0	0	ŏ	ő	0	0 3
Helena	ő	ő		8	ő	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ő
Boise	0	0		0	0	0	0	0	0	0	0	0
DenverPueblo	1 0	0		0	0	1 0	7 3	1 0	3 0	0	0	16 0
Utah: Salt Lake City	0	0		0	6	١	1	0	2	٥	0	3

City reports for week ended August 19, 1944—Continued

		infec-	Influ	ienza		meningo-	ps	SS	8		para-	cough
	Diphtheria cases	Encephalitis, in tious, cases	Cases	Deaths	Measles cases	Meningitis, menir coccus, cases	Pneumonia deaths	Poliomyelitis cases	Scarlet fever cases	Smallpox cases.	Typhoid and typhoid fever c	Whooping co
PACIFIC												
Washington:					2						. 0	0
Seattle Spokane	0	0		0	0	0	3 0 2	5 1 2	1 2 0	0	0	0
Tacoma California:	0	0		0	4	1			•			
Los Angeles Sacramento	5 1	0 2	3	0	15	4 0	0 3	2 0	5 3 8	0	0	5 3 0
San Francisco	0	0		0	24	1	4	0	8	0	0	0
Total	34	3	21	8	199	61	268	481	137	0	34	562
Corresponding week, 1943. Average, 1939-43	38 44		21 27	5 18	367 2 270		222 1 216		285 188	0	34 43	1033 1123

^{1 3} year average, 1941-43.

Dyseries y, this period. — Cases: New Orleans 2.

Rocky Mountain spotted ferer. — Cases: St. Louis, 1; Richmond, 1.

Tularemia. — Cases: Richmond, 1.

Typhus fever, endemic. — Cases: Atlanta, 2; Savannah, 12; Nashville, 5; Birmingham, 4; Mobile, 10; New Orleans, 10; Houston, 11; San Antonio, 9; Wilmington, N. C. 10.

Rates (annual basis) per 100,000 population, by geographic groups, for the 87 cities in the preceding table (estimated population, 1943, 34,052,500)

	Diphtheria case rates	Encephalitis, infec- tious, case rates	Case rates	Death rates	Measles case rates	Meningitis, menin- gococcus, case rates	Pneumonia death	Poliomyelitis case rates	Scarlet fever case rates	Smallpox case rates	Typhoid and paratyphoid fever case rates	Whooping cough case rates
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific Total	2.6 2.3 5.5 6.5 6.8 6.0 11.5 7.9 9.5	2.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 3.2	2. 6 2. 8 1. 2 2. 2 8. 5 6. 0 5. 7 0. 0 4. 8	2.6 2.3 0.6 2.2 0.0 0.0 0.0 0.0 0.0	79 14 26 43 17 35 3 48 82	23. 6 13. 0 5. 5 10. 8 5. 1 6. 0 0. 0 7. 9 7. 9	47. 3 41. 7 33. 4 47. 7 45. 8 88. 5 45. 9 103. 3 19. 0	26. 3 126. 8 51. 1 71. 5 105. 2 17. 7 11. 5 7. 9 15. 8	55 14 21 13 29 6 6 40 30	0. 0 0. 0 0. 0 0. 0 0. 0 0. 0 0. 0 0. 0	2.6 7.4 2.4 2.2 5.1 6.0 23.0 0.0 0.0	76 44 127 128 168 83 55 199 19

TERRITORIES AND POSSESSIONS

Hawaii Territory

Plague (rodent). -Two rats found in Honokaa, Hamakua District, Island of Hawaii, T. H., have been proved positive for plague on July 11, 1944 and August 2, 1944, respectively. One mouse found in the same place was proved positive for plague on July 18, 1944.

³ 5 year median.

Anthrax.—Cases: Houston, 1.

Dysentery, amebic.—Cases: Boston, 1; Chicago, 1; Houston, 1.

Dysentery, bacillary.—Cases: Providence, 3; New Haven, 2; New York, 1; Syracuse, 2; Philadelphia, 1; Pittsburgh, 1; Chicago, 1; Detroit, 6; Baltimore, 1; Richmond, 1; Charleston, S. C., 1; Memphis, 1; Nashville, 2; Los Angeles, 6.

Dysentery, unspecified.—Cases: Cleveland, 1; Baltimore, 1; Richmond, 3; Sacramento, 2.

Leprosy.—Cases: New Orleans 2.

Determine the defended of Cases of Louis 1; Bichmond, 1.

FOREIGN REPORTS

CANADA

Provinces – Communicable diseases – Week ended August 5, 1944. — During the week ended August 5, 1944, cases of certain communicable diseases were reported by the Dominion Bureau of Statistics of Canada as follows:

Disease	Prince Edward Island	Nova Scotia	New Bruns- wick	Que- bec	On- tario	Mani- toba	Sas- katch- ewan	Al- berta	British Colum- bia	Total
ChickenpoxDiphtheria		11 8	1 4	6 16 2	64 2	11 1	10 1	24 17	20	147 49 2
German measles				3	16 3		2	4	14 3	39 6
Influenza Measles		5	i	53	70	18	16	60	9	232
Meningitis, meningococ-				3	3				1	7
Mumps				35 2	26 1 12	7 2	10	27	5	110 1 28
Poliomyelitis Scarlet fever		3	4 5	16	38	17	8	28	6	121
Tuberculosis (all forms)		1	11	141	54	10			24	241
Typhoid and paratyphoid fever				3	6		1			10
Undulant fever				4	i				1	6
Whooping cough		21		69	39	8	3	8	25	173

¹ Includes 3 cases in delayed reports.

REPORTS OF CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER RECEIVED DURING THE CURRENT WEEK

Note.—Except in cases of unusual incidence, only those places are included which had not previously reported any of the above-mentioned diseases, except yellow fever, during the current year. All reports of yellow fever are published currently.

A table showing the accumulated figures for these diseases for the year to date is published in the Public Health Reports for the last Friday in each month.

(Few reports are available from the invaded countries of Europe and other nations in war zones.)

Cholera

India—Bihar Province.—Information dated August 10, 1944, states that according to newspaper reports a serious outbreak of cholera has appeared in Bihar Province, India. No reliable statistics are available.

Plague

Egypt—Port Said.—For the week ended August 12, 1944, 5 cases of plague with 2 deaths were reported in Port Said, Egypt.

French West Africa—Dakar.—For the period August 1-7, 1944, 38 cases of plague with 27 deaths were reported in Dakar, French West Africa.

Senegal.—For the period July 11-20, 1944, 8 deaths from plague were reported in Senegal.

Smallpox

Brazil—Sao Paulo State—Santos.—Smallpox has been reported in Santos, Sao Paulo State, Brazil, as follows: Weeks ended—July 1, 1944, 7 cases, July 8, 9 cases, July 15, 2 cases, July 22, 23 cases, July 29, 58 cases, August 5, 32 cases, August 12, 19 cases.

British East Africa.—For the week ended July 22, 1944, smallpox was reported in British East Africa, as follows: Tanganyika Territory, 305 cases; Uganda, 116 cases, 1 death.

Nigeria.—For the week ended July 22, 1944, 113 cases of smallpox with 15 deaths were reported in Nigeria.

Peru.—For the month of June 1944, 25 cases of smallpox were reported in Peru, including 11 cases in Huancavelica Department and 5 cases in Puno Department.

Venezuela.—For the month of July 1944, 41 cases of smallpox with 2 deaths were reported in Venezuela including 37 cases with 2 deaths reported in Caracas. For the week ended August 19, 1944, 7 cases of smallpox were reported in Falcon State and 7 cases in Miranda State, Venezuela.

Typhus Fever

Chile:—For the 4 weeks ended July 15, 1944, 90 cases of typhus fever with 12 deaths were reported in Chile, including 63 cases with 11 deaths reported in Chiloe Province, 2 cases in Antofagasta, 8 cases in Santiago, 9 cases in Talcahuano, and 5 cases in Valparaiso.

Colombia.—Typhus fever has been reported in Sonson, Antioquia Department, Colombia, by months, as follows: January 1944, 7 cases, 1 death; February, 21 cases, 1 death; March, 54 cases, 2 deaths; April, 70 cases, 4 deaths; May, 72 cases, 1 death; June, 26 cases, 1 death; July, 7 cases.

Egypt.—For the week ended July 22, 1944, 172 cases of typhus fever with 34 deaths were reported in Egypt.

Guatemala.—For the month of July 1944, 175 cases of typhus fever with 17 deaths were reported in Guatemala, including 21 cases in El Quiche Department, 40 cases in Alta Verapaz Department, 29 cases with 5 deaths in Quezaltenango Department, and 27 cases with 4 deaths in San Marcos Department.

Hungary.—For the week ended July 29, 1944, 56 cases of typhus fever (22 in Subcarpathia) were reported in Hungary.

Peru.—For the month of June 1944, 170 cases of typhus fever were reported in Peru, including 30 cases in Ancash Department, 18 cases in Cuzco Department, and 27 cases in Huanuco Department.

Rumania. -- For the period April 24-30, 1944, 381 cases of typhus

fever were reported in Rumania; for the period May 1-7, 1944, 441 cases were reported.

Venezuela.—For the month of July 1944, 11 cases of typhus fever were reported in Venezuela.

Yugoslavia.—For the period July 1-14, 1944, 348 cases of typhus fever (43 cases in Brod, 99 cases in Travnik, and 99 cases in Tuzia) were reported in Yugoslavia.

Yellow Fever

Belgian Congo—Coquilhatville Province—Banzyville.—On June 26, 1944, 1 death from yellow fever was reported in Banzyville, Coquilhatville Province, Belgian Congo. For the period August 12–17, 1944, 10 cases of suspected yellow fever were reported in the same locality.

INCIDENCE OF HOSPITALIZATION, JULY 1944

Through the cooperation of the Hospital Service Plan Commission of the American Hospital Association, data on hospital admissions among about 10,000,000 members of Blue Cross Hospital Service Plans are presented monthly. These plans provide prepaid hospital service. The data cover about 60 hospital service plans scattered throughout the country, mostly in large cities.

Item	Ju	ıly
item	1943	1944
1. Number of plans supplying data. 2. Number of persons eligible for hospital care. 3. Number of persons admitted for hospital care. 4. Incidence per 1,000 persons, annual rate, during current month (daily rate × 365). 5. Incidence per 1,000 persons, annual rate for the 12 months ended July 31	72 11, 076, 738 107, 693 114. 4 105. 5	73 13, 664, 738 129, 769 112. 2 104. 8

DEATHS DURING WEEK ENDED AUGUST 26, 1944

[From the Weekly Mortality Index, issued by the Bureau of the Census, Department of Commerce]

	Week ended Aug. 26, 1944	Corresponding week,
Data for 93 large cities of the United States: Total deaths Average for 3 prior years Total deaths, first 34 weeks of year Deaths under 1 year of age Average for 3 prior years Deaths under 1 year of age, first 34 weeks of year Data from industrial insurance companies: Policies in force Number of death claims Death claims per 1,000 policies in force, annual rate. Death claims per 1,000 policies. first 34 weeks of year, annual rate.	7, 472 7, 509 312, 399 601 610 21, 073 66, 705, 582 12, 097 9. 5	7, 856 318, 561 657 22, 876 65, 764, 051 10, 974 8, 7 10, 0