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## ABSTRACT

Presented in the form of 30 tables are statistics on blindness in 16 states which have agreed to uniform definitions and procedures to improve reliability of data regarding blind persons. The data indicates that rates of blindness were generally higher for nonwhites than for whites with the ratio ranging from almost 10 for glaucoma to minimal for "other retinal disease", and that nonwhite females were most likely to become blind due to optic nerve disease. Presented in tables are data concerning trends, additions to registers in 1969 and 1970, first additions to registers, cause of blindness for first additions to registers as determined by physicians, removals from registers, demographic information on persons on registers, estimated midyear population, simplified cause of blindness for all additions to registers, and simplified cause of blindness for all persons on registers. (DB)

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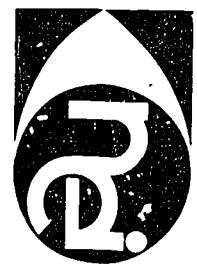
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**STATISTICS ON  
BLINDNESS  
IN THE  
MODEL  
REPORTING AREA**

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**1969-1970**



**Harold A. Kahn**

Chief, Office of Biometry and Epidemiology

**Helen B. Moorhead**

Medical Record Administrator

Office of Biometry and Epidemiology  
National Eye Institute

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## Introduction

The Model Reporting Area for Blindness Statistics (MRA) is a voluntary association of states that have agreed to uniform definitions and procedures so as to improve the uniformity and reliability of data regarding blind persons.

The basic source of data is the registration of blind persons with the appropriate state agency in accordance with state law. The 16 states in the MRA for 1969 and 1970 are listed in Table 1. States were admitted to the MRA if they coded cause of blindness according to established rules; maintained a register review so as to remove cases that had recovered sight, died, or left the area; collected and reported various associated data according to established procedures; and defined blindness as: distance vision of 20/200 or worse with best correction using ordinary lenses or a visual field limited to 20 degrees or less at the widest point. Additional details regarding MRA definitions and objectives have been presented previously [1,2].

Tables 1-28 present data in the same general format as that used in the three preceding reports in this statistical series on Blindness in the Model Reporting Area [3-5]. In addition, data are presented for the first time on register prevalence for causes of blindness, and age-standardized rates are used to eliminate the effect of

varying age composition in comparing rates for different color and sex groups. The age-standardized rates were computed according to the

direct method using the age distribution of the total 1970 census population of the 14 states. With respect to color, the population has been divided into two groups: "white" and "other."

The "other" group includes such people as Negro, American Indian, Chinese, Japanese, and any other race. Wherever Mexican persons were separately reported they are included with white. In rate or percentage tables 0 signifies zero with 0.0 used to signify more than zero but not more than 0.05. Percentages or rates of components may not always add up to totals because of rounding.

## Historical Series Tabulations

TABLE 1. Although quite variable from state to state, the 1970 total MRA annual rate of additions (15 per 100,000 population) and rate of persons on the register (162 per 100,000 population) are very similar to those reported eight years earlier when data for only nine states were available (16 and 161 per 100,000 respectively).

As an illustration of year-to-year variability reflecting administrative rather than real changes, the 1969 and 1970 decrease in rate of persons on the register in New Mexico follows a program initiated in 1968 of intensively investi-

gating registered persons to identify and remove those who have recovered sight, died, cannot be located, etc.

TABLE 2. Addition rates for males and females are approximately equal. For the age groups 20-64, addition rates for nonwhites are about triple the rates for whites. After age 44 addition rates increase sharply with age.

TABLE 3. Approximate equality of male and female addition rates is observed in almost all states with exceptions limited to only one of the two years currently being reported or to sex groups with fewer than 25 cases. Addition rates for nonwhites are higher than those for whites.

TABLE 4. Except for Georgia, where administrative procedures discourage referral of persons over age 65 to the Aid to the Blind pro-

gram, all states show marked increases in addition rates with age, beginning at age 45-64.

TABLE 5. Less than 10% of the registered blind are absolutely blind. About 10% have vision limited to light perception or light projection, and about 10% have severely restricted visual fields. Thus, for the great majority of persons added to registers for the legally blind, the problem is inadequate visual acuity after best correction. About 25% are reported to be in the borderline category of 20/200. Due to the nature of usual examination materials for visual

acuity, the reported category of 20/200 includes persons with visual acuity better than 20/200 but worse than 20/100.

TABLE 6. Nonwhites have a slightly larger proportion in the more severe visual acuity categories than do whites.

TABLE 7. The proportion of new additions with absolute blindness or vision limited to light perception or light projection is much higher under age 5 than at older ages.

TABLE 8. For the total MRA, age when blinded was reported as unknown for almost half the new additions. Pooling the annual data from states reporting less than 10% unknown in a specific year (3 in 1969 and 6 in 1970) suggests that slightly over one-quarter of all persons added to state blindness registers became blind between ages 45 and 64. Over 15% became blind in each of the age periods 65-74 and 75-84, and over 10% were born blind.

TABLE 9. Over 90% of first additions were examined by an ophthalmologist or an eye-ear-nose-throat specialist at the time of registration. TABLE 10. Although physicians other than ophthalmologists or eye-ear-nose-throat specialists are the reported examiners in less than 3% of all first additions to registers, they are the examiners for almost 10% of the first additions who are absolutely blind.

TABLE 11. The most common afflictions overall are retinal degeneration, other retinal affection, cataract and glaucoma. These same four afflictions are the commonest in 24 of the 32 sets of state data for 1969 and 1970. At least three of these afflictions are among the four

most common in every one of the individual state reports for 1969 and 1970.

TABLE 12. Among nonwhites blindness is more commonly due to glaucoma and less commonly due to retinal degeneration than among whites. Nonwhite males also seem to be less commonly blinded by "other retinal afflictions" than other groups. Proportionately more males than females are blinded by optic nerve atrophy.

TABLE 13. At age 45 and over the most frequent afflictions in each age group are those mentioned above as commonest overall. They are retinal degeneration, other retinal affection, cataract and glaucoma. In all age groups below 45 optic nerve atrophy appears as one of the four principal afflictions.

TABLE 14. Retrolental fibroplasia is the most severe affliction reported, with over half the cases absolutely blind or having light perception only. The data regarding visual acuity for those blinded as a result of glaucoma are not altogether in agreement with a commonly held opinion [6,7] that macular vision is retained until the disease is far advanced, with patients frequently being unaware of visual loss until they are practically blind. In the MRA data the number of glaucoma blind due to inadequate visual acuity exceeds the number of glaucoma blind due to restricted visual field.

TABLE 15. The etiological classifications reported in these data are undoubtedly useful, but the reader should appreciate that some categories derive from accepted conventions. For example, in these data glaucoma is uniformly coded to the etiology category "unknown to science" but blindness associated with neoplasms or nonhereditary senile macular degeneration is coded to the etiological categories "neoplasm" and "senile degeneration" even though no more may be known about the etiology of the neoplasms or senile macular degeneration than about the etiology of glaucoma. With trivial exceptions related to very small numbers, all states report senile degeneration, prenatal influence, diabetes and unknown to science as the most common etiological categories.

TABLE 16. The etiological category "unknown to science" (principally glaucoma) is proportionately more common for nonwhites than whites while the reverse is true for senile degeneration. Senile degeneration is proportionately more common among females than males, while the reverse is true for injury or poisoning. Nonwhite males seem particularly resistant to the blinding effects of diabetes.

TABLE 17. Some etiological categories are represented principally by additions under age 45, others by additions over age 45. None show an approximately uniform distribution by age.

TABLE 18. The different etiological groups are associated with different distributions of visual acuity. Over 40% of those blind as a result of injury or poisoning are absolutely blind or are limited to light perception or light projection only. At the other extreme, less than 10% of those blind due to senile degeneration are that severely afflicted.

TABLE 19. The cross-classification of affection with etiology reveals that retinal degeneration is almost entirely attributed to either senile de-

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TABLE 19. The cross-classification of affection with etiology reveals that retinal degeneration is almost entirely attributed to either senile de-

generation or prenatal influence and that other retinal affection is principally attributed to diabetes. The four largest cross-classification categories with each accounting for about 10% of all additions to blindness registers are: senile retinal degeneration, glaucoma, diabetic retinopathy, and senile cataract.

TABLE 20. Multiple affections reported herein exclude cases for which it was possible to establish which affection first caused blindness. About 75% of the multiple affections include cataract, about 60% include retinal affections, and about 40% include glaucoma.

TABLE 21. A comparison with Table 1 shows that additions to blindness registers in the MRA States exceeded removals by about 6,000 cases during the two-year period 1969-70. The principal reason for removal is death.

TABLE 22. Register prevalence rates are much higher for nonwhites than for whites and, as can be observed by looking at age-specific rates, are slightly higher for males than for females. All sex-color groups show steep increases in registered prevalence by age to over 2% prevalence at age 85+. The ratio of nonwhite to white prevalence rates increases with age to a maximum at age 45-64 and decreases thereafter.

TABLE 23. In general, register prevalence rates are approximately equal for males and females both overall and for each state. However, Louisiana shows a substantially higher rate for males than for females both among whites and nonwhites that is clearly greater than can reasonably be ascribed to chance. As was noted previously with respect to new additions, register

prevalence rates are higher for nonwhites than for whites.

TABLE 24. Register prevalence rates increase sharply with age in all states except Georgia where, as noted above, administrative procedures operate against referral of needy blind persons over age 65 to the Aid to the Blind program.

TABLE 25. A comparison of the distribution of register prevalence cases by visual acuity with the distribution of register incidence cases by visual acuity (Table 5) shows that those in the most seriously disabled group (absolute blindness, light perception or light projection) are about  $\frac{1}{4}$  of those on the register but only  $\frac{1}{6}$  of the additions to the register. The increased proportion on the register as compared to additions is at least in part a reflection of the younger age of the more seriously blinded group.

TABLE 26. The distribution of register prevalence cases into visual acuity categories for color-sex groups shows a larger proportion of nonwhites than whites are in the most disabled categories, with very little difference between males and females.

TABLE 27. As previously noted for additions, the youngest persons on the blindness registers have the highest proportion of absolute blindness and light perception only.

TABLE 28. Population data for the years 1962-1968 are not provided. The cases and rates given in this report for years before 1969 are taken from the previous publications in this series on Statistics on Blindness in the Model Reporting Area [3-5, 8-11].

#### New Tabulations

The last two tables in this publication do not have any close analogues in the 1962-68 series of MRA Statistical Reports on Blindness. The cause categories in Tables 29 and 30 are a simplified combination of the affection and etiology groupings previously reported. For this simplified cause grouping, it did not seem necessary to exclude cases not examined by an ophthalmologist or an eye-ear-nose-throat specialist, and they were included. Past MRA tabulations relating to affection or etiology excluded such cases and also excluded readmissions.\* Tables 29 and 30 relate to only 14 states instead of the 16 in the MRA. New York and Massachusetts have been excluded, New York because the data are not reported by color and Massachusetts because it was technically impossible for us to tabulate the data in the revised format. Cases of unknown color have been allocated in proportion to known color within specific state-age-sex diagnostic categories. Similarly, cases of unknown age were allocated in proportion to known ages within specific state-color-sex diagnostic groups. After summing the allocated and previously known cases for all 14 states, totals were rounded to the nearest integer. Because the specific categories were sometimes empty except for the unknown(s) to be allocated, and

\* We have prepared a 1969-1970 tabulation in the format of Table 29 but limited to first additions with diagnosis reported by an ophthalmologist or ENT specialist. The comparative findings reported in this paper would not be changed if we were to base them on these more limited data.

thus no allocation according to knowns was possible, the totals for the 14 states are short of the true totals by 91 cases (1.68%) for additions in Table 29 and by 25 cases (0.05%) for register prevalence in Table 30.

Much of the information about register additions shown by Table 29 has been noted previously in the traditional MRA tabulations. These include generally higher addition rates for nonwhites than whites, generally equivalent rates for males and females and identification of other retinal disease, glaucoma, diabetic retinopathy and acquired cataract as the four most common diagnostic categories. However, these findings are sharpened and made more definitive by the use of age-sex-color specific rates and also by age standardization. Thus, an earlier comment based on Table 16 to the effect that nonwhite males seem particularly resistant to the blinding effects of diabetes can now be seen as less accurate than the somewhat complementary statement that nonwhite females seem especially vulnerable to the blinding effects of diabetes. Nonwhite males seemed resistant (and in a way perhaps they are) because they have higher rates in almost all other diagnostic categories but "ordinary" rates for diabetic retinopathy. The previous observation that the ratio of nonwhite age-specific rates to white age-specific rates increases with age for younger ages and decreases with age for older ages is confirmed in Tables 29 and 30 for males and females separately and for every diagnostic category.

Nonwhite addition rates for blindness attributed to glaucoma are 8 to 10 times the rates

for whites. Nonwhite rates for blindness attributed to corneal or scleral disease are 5 to 6 times the rates for whites. Except for the already mentioned nonwhite females' high risk of blindness from diabetic retinopathy, nonwhites have approximately equal rates to whites for retinal disease. The only sizeable and significant male-female difference observed for both whites and nonwhites is the increased risk of blindness attributed to optic nerve disease for males.

The age-standardized nonwhite female addition rate for blindness due to diabetic retinopathy is about triple the corresponding rates for each of the other three color-sex groups.

Table 30 presents age-sex-color diagnosis specific rates and age-standardized rates for persons on the blindness registers in the MRA States (excluding New York and Massachusetts) as of December 31, 1970. Almost all of the observations made about additions to registers for 1969 and 1970 can be repeated for these prevalence data. The only exceptions are that males have higher prevalence rates than females for congenital retinal disease, and optic nerve disease replaces diabetic retinopathy as one of the four most common diseases. The lesser importance of diabetic retinopathy in "prevalence" cases as compared with "incidence" cases is undoubtedly a reflection of the high mortality associated with diabetes of a duration and severity sufficient to cause blindness.

#### Discussion

The strength of the MRA data lies in their uniformity; their weakness principally relates to incomplete registration of blind persons and

probable variability in degree of completeness among states, racial groups, age classes, diagnostic categories, etc.

No estimates of MRA registration completeness are available, but some data exist to suggest that unregistered cases may be a very substantial fraction of the total: Cleveland, Ohio —among 14 legally blind persons located during a household survey fewer than half were known to the Cleveland Society for the Blind [12]; New York City—153 out of 203 legally blind persons identified in a survey of hospital records from five New York City hospitals were not included in the New York State Register [13]; Glamorgan, Wales—nine out of 31 registrable blind persons identified in a group practice list of patients aged 65 and over were not in the blind register for the area [14]. The applicability of these findings to the MRA is not known but they suggest that blindness registers in the MRA may be incomplete to an important degree.

Although data handling procedures within the MRA are undoubtedly more uniform than would be the case among a comparable group of non-MRA states, it would be unrealistic to presume that observed differences among states in all matters other than overall completeness of reporting are real rather than due to artifacts.

If, for example, one state has administrative rules which result in more complete registration under age 65 than over age 65, this would affect not only the age pattern but also the diagnostic distribution of the registered blind. Those interested in data for a particular state should try to learn as much as possible about the details

of registration completeness and data processing procedures for that state and use the state information herein in conjunction with such knowledge. Those interested in the overall data for the MRA should give more weight and attention to findings that are common to many states rather than to one or two. All readers are cautioned that the data herein arise under varying administrative and clerical procedures that differ from state to state. The data in this report are informative and valuable, but they do not necessarily agree with the actual distribution of the blind population for the variables tabulated.

The data in Table 29, and to a lesser extent in Table 28, overlap somewhat the data reported in Table 27. The reason for the redundancy is that it affords by age-sex-race strata the unpaired to proportionate distribution. In addition, the use of average annual 5-year period reduces erratic change. From chance variation of small numbers, age-standardization further simplifies comparisons between groups by eliminating differences due to differing age structures. Another reason is that percentage distribution tables are not easy to interpret. As an illustration, consider tabulations of the percentage of blindness attributed to glaucoma for several population groups. One of the groups shows a higher percentage of glaucoma than the others. This may be due to the fact that the population with the highest percentage for glaucoma does in fact have many glaucoma cases or it may

follow from the fact that other causes of blindness in that group are quite rare, thus even a moderate or small number of glaucoma cases would account for a large proportion of the total in that population. Percentage distribution tables have been included in this present report in order to maintain continuity with the series of tabulations in previous MRA reports.

Although it seems certain that additions to blindness registers underestimate the true incidence of blindness, the situation with respect to prevalence of blindness is not so definite. Because blindness registers are updated with uneven thoroughness and accuracy in the different MRA States and even from year to year within the same state, it is possible that errors of overstatement resulting from the failure to remove persons who have died, been cured, or otherwise no longer qualify for inclusion, may offset to a significant degree the errors of understatement flowing from failure of blind persons to be registered. Thus, the rate of cases on the register cannot be so clearly designated as an understatement of the true prevalence rate—at least, not in all states and for all years.

Although registration of blind persons with state agencies is incomplete, some aspects of our interpretation of MRA data do not rest heavily on the overall level of completeness. For example, we are interested in questions such as: "Do whites and nonwhites differ in blindness rates?" We would have no difficulty in answering this question even if only half the whites who became blind and half the nonwhites who became blind were registered. However, if the

fraction of the blind whites who were registered differed from the fraction of blind nonwhites who were registered, and these fractions were unknown (as of course they are), then we might not know how to use the observed data to estimate the real situation.

In our society it can be considered axiomatic that poor blind persons are more likely to be registered with the state agency for the blind than are persons who are rich or perhaps even middle-class. Because the nonwhites include a larger proportion of poor than the whites, it follows that, in general, registration of blind nonwhites is more complete than registration of blind whites.

The preceding argument does not lead to any estimate of the size of this reporting differential but only to its direction. However, there is some internal evidence in these data that can be used for further exploration of this point. A very rough indicator is the fact that Tables 6 and 26 both show a larger proportion of nonwhites than of whites in the most severe vision loss categories. It is reasonable to suppose that, other things being equal, the group with the more complete reporting would have the smaller proportion of most seriously disabled persons. The fact that the nonwhites have the higher proportion of severely affected cases is thus a rough pointer away from the notion that nonwhite registration completeness is very much greater than that for whites. Another indicator of reporting completeness comes from Table 29, which shows that the age-standardized rate of additions to the blindness register because of diabetic retino-

pathy for nonwhite females is about triple that for any other sex-race group. One possibility is that the rates are really about equal but that registration is three times more complete for nonwhite females than for the other groups. Evidence against this is the fact that the U.S. nonwhite female rate for diagnosed diabetes\* at age 45 and over is double that for any other color-sex group [15]. In addition, the proportion of nonwhite females with elevated systolic blood pressure is higher than the proportion observed for any other color-sex group in the U.S. [16] and hypertension has been implicated in raising the risk of retinopathy among diabetics [17-18]. Taken altogether, these findings suggest that while nonwhite reporting may be more nearly complete than that for whites, the difference is probably not very great.

A curious feature of the ratio of nonwhite to white rates of register incidence and prevalence is its tendency to increase with age up to a maximum generally at about age 45-64 and thereafter to decrease with age. No explanation for this is known, but the pervasiveness of this

finding for both sexes and various diagnostic categories points to some administrative aspect of reporting or case-finding that affects whites and nonwhites differently, rather than to a biological explanation.

The ratio of age-standardized nonwhite to white blindness rates for glaucoma is at the level of 8-10 for both register incidence and register prevalence data. Although nonwhites are reported to suffer more from glaucoma and/or blindness due to glaucoma than whites [19-20], we have not located any reports of a relative risk of the order of eight or more.\* Of course, part of the apparent increase in risk may reflect more complete reporting for nonwhites than whites, but as noted above, there are rough indications in these data to suggest that the reporting differential is not extreme. Clearly, research directed toward explaining this strong relationship between race and blindness from glaucoma should be encouraged. A most interesting finding is that, while the age-adjusted blindness rates for nonwhites are double or more the corresponding rates for whites for every other diagnostic category, the rates for the retinal disease categories (excepting only higher diabetic

\* Estimated rates for undiagnosed diabetes are not available for color-sex groups.

retinopathy rates for nonwhite females) are approximately equal for whites and nonwhites. Equivalent rates for retinal disease but higher rates for all other categories suggest that nonwhites have either special protection against retinal problems or special susceptibility to all other blinding eye diseases. The observation that retinal detachments heal spontaneously in Africans [19] is compatible with the first alternative.

#### Summary

Subject to important qualifications principally related to reporting completeness, the 1969-1970 MRA data indicate: rates for nonwhites are generally higher than those for whites with the ratio ranging from almost ten for glaucoma to almost unity for "other retinal disease"; the existence of a special hazard of blindness from diabetic retinopathy for nonwhite females and higher rates for males than females for blindness attributed to optic nerve disease. If these findings serve to stimulate research directed toward their explanation, the efforts in collecting and processing these data will be amply justified.

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**Table 1a.—Number of All Additions to Registers, MRA and Each MRA State, 1962–1970**

State	1962	1963	1964	1965	1966	1967	1968	1969	1970
MRA total.....	4,303	4,496	5,521	5,708	5,684	6,337	7,334	9,916	9,328
Connecticut.....	288	346	373	333	403	431	360	494	274
Georgia.....	(1)	(1)	(1)	(1)	(2)	553	574	508	20
Kansas.....	437	399	395	376	379	386	337	395	397
Louisiana.....	499	433	806	422	380	531	572	494	548
Massachusetts.....	947	1,001	957	989	1,011	1,045	1,144	1,175	1,307
New Hampshire.....	135	133	126	133	143	141	105	123	105
New Jersey.....	745	593	579	691	636	422	1,197	984	874
New Mexico.....	(1)	(1)	(2)	178	67	80	149	52	76
New York.....	(1)	(1)	(1)	(1)	(1)	(1)	(2)	3,143	2,781
North Carolina.....	1,036	1,103	1,243	1,264	1,157	1,187	1,326	1,063	974
Oregon.....	(1)	269	461	472	453	375	394	411	419
Rhode Island.....	99	117	99	94	79	132	144	138	155
South Dakota.....	(1)	(1)	(1)	(2)	116	71	86	79	106
Utah.....	(1)	(1)	(1)	151	149	155	148	112	120
Vermont.....	117	102	80	79	94	86	46	68	
Virginia.....	(1)	(1)	398	525	632	634	719	699	704

<sup>1</sup> Not a member of MRA in this year.

<sup>2</sup> Not available.

**Table 1b.—Rate of All Additions to Registers, MRA and Each MRA State, 1962–1970**

State	[Rate per 100,000 population]									
	1962	1963	1964	1965	1966	1967	1968	1969	1970	
MRA total . . . . .	16.3	15.6	16.5	15.8	15.3	15.1	17.2	16.3	15.2	
Connecticut . . . . .	11.0	12.7	13.5	11.8	14.0	14.8	12.2	16.5	9.0	
Georgia . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	12.3	12.5	11.2	9.1
Kansas . . . . .	19.7	18.0	17.9	16.7	16.7	16.9	14.7	17.7	17.7	
Louisiana . . . . .	14.8	12.7	23.2	11.9	10.5	17.2	15.4	13.7	15.0	
Massachusetts . . . . .	18.3	18.9	17.9	18.4	18.7	19.2	21.0	20.8	22.9	
New Hampshire . . . . .	21.7	20.7	19.3	19.8	21.2	20.4	14.9	17.0	14.2	
New Jersey . . . . .	11.7	9.0	8.7	10.2	9.2	6.0	16.8	13.9	12.1	
New Mexico . . . . .	(1)	(1)	(1)	17.6	6.7	8.0	15.0	5.1	7.5	
New York . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	17.4	15.2	
North Carolina . . . . .	22.0	23.0	25.6	25.6	23.3	23.5	25.8	21.1	19.1	
Oregon . . . . .	(1)	14.5	24.6	24.4	23.0	18.9	19.7	19.9	19.9	
Rhode Island . . . . .	11.3	13.1	10.8	10.5	8.8	14.7	15.9	14.8	16.3	
South Dakota . . . . .	(1)	(1)	(1)	(2)	17.1	10.6	12.9	11.8	15.9	
Utah . . . . .	(1)	(1)	(1)	15.2	14.8	15.2	14.4	10.7	11.2	
Vermont . . . . .	30.2	25.2	19.6	19.8	19.2	22.4	20.0	10.5	15.2	
Virginia . . . . .	(1)	(1)	9.1	11.9	14.2	14.0	15.6	15.1	15.1	

<sup>1</sup> Not a member of MRA in this year.  
<sup>2</sup> Not available.

**Table 1c.—Number of Persons on Registers, MRA and Each MRA State, as of December 31, 1962–1970**

State	1962	1963	1964	1965	1966	1967	1968	1969	1970
MRA total.....	42,474	43,362	51,910	54,892	61,037	61,548	93,341	95,553	99,347
Connecticut.....	3,168	3,346	3,199	3,256	3,402	3,522	3,523	3,741	3,766
Georgia.....	(1)	(1)	(1)	(1)	5,055	5,312	5,504	5,809	6,075
Kansas.....	3,076	3,158	3,231	3,263	3,299	3,031	2,955	2,930	3,056
Louisiana.....	7,477	5,673	6,219	6,027	6,110	6,306	6,446	6,572	6,811
Massachusetts.....	9,031	9,435	9,453	9,713	9,741	10,120	10,754	10,660	11,193
New Hampshire.....	1,065	1,128	1,084	1,039	1,048	1,096	1,122	1,152	1,199
New Jersey.....	6,535	6,773	6,887	7,408	7,295	7,441	8,186	8,088	8,201
New Mexico.....	(1)	(1)	2,873	2,606	2,532	2,561	2,540	1,822	1,576
New York.....	(1)	(1)	(1)	(1)	(1)	(1)	29,478	31,457	33,246
North Carolina.....	10,388	10,057	10,284	10,114	10,383	10,514	10,595	10,532	10,997
Oregon.....	(1)	2,088	2,169	2,331	2,489	2,577	2,671	2,799	2,953
Rhode Island.....	1,005	1,034	1,065	1,097	1,086	1,146	1,128	1,175	1,248
South Dakota.....	(1)	(1)	(1)	859	921	899	898	923	971
Utah.....	(1)	(1)	(1)	1,200	1,250	1,300	1,354	1,353	1,340
Vermont.....	729	670	691	676	695	719	727	690	701
Virginia.....	(1)	4,755	5,303	5,731	5,004	5,460	5,800	6,014	

<sup>1</sup> Not a member of MRA in this year.

**Table 1d.—Rate of Persons on Registers, MRA<sup>a</sup> and Each MRA State, as of December 31, 1962–1970**

[Rate per 100,000 population]

State	1962	1963	1964	1965	1966	1967	1968	1969	1970
MRA total	161.2	150.7	150.2	149.4	146.7	146.4	153.8	157.2	161.7
Connecticut	120.7	123.2	115.7	115.1	118.2	120.7	119.0	124.7	123.9
Georgia	(1)	(1)	(1)	(1)	113.7	118.3	120.2	127.6	132.0
Kansas	138.9	142.4	145.2	145.2	145.0	132.9	129.0	133.3	135.9
Louisiana	221.8	166.1	179.3	169.3	168.9	172.2	173.7	181.6	186.9
Massachusetts	174.1	178.2	177.1	181.2	180.3	186.2	197.8	188.7	196.4
New Hampshire	171.2	175.2	165.7	154.4	155.0	158.6	159.6	159.1	161.6
New Jersey	102.8	103.3	103.1	109.2	105.7	106.6	115.8	114.0	114.0
New Mexico	(1)	(1)	285.0	257.0	252.7	255.6	255.5	180.2	154.8
New York	(1)	(1)	(1)	(1)	(1)	162.1	173.7	182.1	
North Carolina	220.8	210.1	212.0	204.9	208.7	207.8	206.5	209.3	216.0
Oregon	(1)	112.7	115.9	120.3	126.2	130.1	133.3	135.7	140.5
Rhode Island	114.5	115.9	116.5	123.1	120.9	127.2	124.2	126.1	131.2
South Dakota	(1)	(1)	(1)	125.2	135.6	134.6	135.0	138.2	145.8
Utah	(1)	(1)	(1)	120.7	124.1	127.2	131.3	129.2	125.4
Vermont	188.4	165.4	168.9	167.3	169.1	171.2	169.5	157.9	156.8
Virginia	(1)	(1)	108.6	120.0	128.4	110.2	118.6	125.7	129.2

<sup>a</sup> Not a member of MRA in this year.

**Table 2a.—Number of All Additions to Registers by Age, Color, and Sex, MRA, 1969**

Color and sex	Age						Unknown		
	Total	Under 5	5-19	20-44	45-64	65-74			
MRA total.....	9,916	223	965	1,326	2,718	1,449	1,865	907	463
Male.....	4,627	121	554	765	1,392	50	771	272	172
Female.....	5,289	102	411	561	1,326	869	1,094	635	291
White.....	4,569	106	457	573	1,188	634	993	514	104
Male.....	2,110	59	268	315	648	258	379	152	31
Female.....	2,459	47	189	258	540	376	614	362	73
Other.....	1,350	35	142	232	516	197	141	66	21
Male.....	617	19	73	127	228	74	68	21	7
Female.....	733	16	69	105	288	123	73	45	14
Unknown.....	3,997	82	366	521	1,014	618	731	327	338
Male.....	1,900	43	213	323	516	248	324	99	134
Female.....	2,097	39	153	198	498	370	407	228	204

**Table 2b.—Number of All Additions to Registers by Age, Color, and Sex, MRA, 1970**

Color and sex	Age								
	Total	Under 5	5-19	20-44	45-64	65-74	75-84	85 and over	
MRA total.....	9,328	206	898	1,203	2,626	1,383	1,707	893	412
Male.....	4,271	95	502	699	1,284	556	660	303	172
Female.....	5,057	111	396	504	1,342	827	1,047	590	240
White.....	4,288	95	403	563	1,116	590	858	515	148
Male.....	1,941	45	229	337	558	242	299	163	67
Female.....	2,347	50	174	226	557	348	559	352	81
Other.....	1,299	41	122	199	545	184	145	45	18
Male.....	606	19	63	105	250	75	55	23	6
Female.....	693	22	59	94	295	109	80	22	12
Unknown.....	3,741	70	373	441	965	609	704	333	246
Male.....	1,724	31	210	257	475	239	296	117	99
Female.....	2,017	39	163	184	490	370	403	216	147

**Table 2c.—Rate of All Additions to Registers by Age, Color, and Sex, MRA, 1969**

[Rate per 100,000 population. Rates for white and other exclude New York State]

Color and sex	Age							
	Total	Under 5	5-19	20-44	45-64	65-74	75-84	85 and over
MRA total.....	16.3	4.3	5.5	6.8	21.4	39.0	104.3	208.0
Male.....	15.7	4.6	6.2	8.1	23.1	36.5	111.4	178.9
Female.....	16.9	4.0	4.8	5.6	19.9	40.8	99.8	223.6
White.....	(1)	(1)	(1)	4.8	15.3	(1)	(1)	(1)
Male.....	(1)	(1)	(1)	5.4	17.4	(1)	(1)	(1)
Female.....	(1)	(1)	(1)	4.3	13.4	(1)	(1)	(1)
Other.....	(1)	(1)	(1)	13.0	54.7	(1)	(1)	(1)
Male.....	(1)	(1)	(1)	15.3	52.2	(1)	(1)	(1)
Female.....	(1)	(1)	(1)	10.9	56.8	(1)	(1)	(1)

<sup>1</sup> Not computed because color was unknown for more than 10 percent of additions for this age.

**Table 2d.—Rate of All Additions to Registers by Age, Color, and Sex, MRA, 1970**

[Rate per 100,000 population. Rates for white and other exclude New York State]

Color and sex	Age							
	Total	Under 5	5-19	20-44	45-64	65-74		
MRA total	15.2	4.0	5.1	6.1	20.4	36.8	94.5	203.0
Male	14.4	3.6	5.6	7.3	21.1	34.7	94.4	198.0
Female	16.0	4.4	4.5	5.0	19.9	38.4	94.6	205.6
White	(1)	(1)	(1)	4.7	14.2	(1)	(1)	(1)
Male	(1)	(1)	(1)	5.7	14.9	(1)	(1)	(1)
Female	(1)	(1)	(1)	3.7	13.6	(1)	(1)	(1)
Other	(1)	(1)	(1)	11.0	57.1	(1)	(1)	(1)
Male	(1)	(1)	(1)	12.5	56.6	(1)	(1)	(1)
Female	(1)	(1)	(1)	9.7	57.5	(1)	(1)	(1)

<sup>1</sup>Not computed because color was unknown for more than 10 percent of additions for this age.

**Table 3a.—Number of All Additions to Registers by Color and Sex, MRA and Each MRA State, 1969**

State	MRA total						Color and sex					
	Total		Male		Female		White		Other		Unknown	
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
MRA total.....	9,916	4,627	5,289	4,569	2,110	2,459	1,350	617	733	3,997	1,900	2,097
Connecticut.....	494	217	277	446	189	257	47	28	19	1	0	1
Georgia.....	508	265	243	183	107	76	207	92	115	118	66	52
Kansas.....	395	184	211	322	147	175	36	19	17	37	18	19
Louisiana.....	494	259	235	267	144	123	203	110	93	24	5	19
Massachusetts.....	1,175	533	642	848	385	463	38	21	17	289	127	162
New Hampshire.....	123	55	68	123	55	68	0	0	0	0	0	0
New Jersey.....	984	440	544	632	282	350	113	49	64	239	109	130
New Mexico.....	52	35	17	44	30	14	5	3	2	3	2	1
New York.....	3,143	1,522	1,621	0	0	0	0	0	0	3,143	1,522	1,621
North Carolina.....	1,063	457	606	633	280	353	424	174	250	6	3	3
Oregon.....	411	182	229	331	153	178	11	6	5	69	23	46
Rhode Island.....	138	64	74	126	58	68	7	4	3	5	2	3
South Dakota.....	79	37	42	76	34	42	1	1	0	2	2	0
Utah.....	112	49	63	108	47	61	4	2	2	0	0	0
Vermont.....	46	16	30	46	16	30	0	0	0	0	0	0
Virginia.....	699	312	387	384	183	201	254	108	146	61	21	40

**Table 3b.—Number of All Additions to Registers by Color and Sex, MRA and Each MRA State, 1970**

State	MRA total						Color and sex					
	MRA total		White		Other		Unknown		Male		Female	
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
MRA total	9,328	4,271	5,057	4,288	1,941	2,347	1,299	606	693	3,741	1,724	2,017
Connecticut	274	114	160	230	93	137	44	21	23	0	0	0
Georgia	420	200	220	174	90	84	193	81	112	53	29	24
Kansas	397	178	219	324	141	183	37	20	17	36	17	19
Louisiana	548	292	256	284	143	141	243	139	104	21	10	11
Massachusetts	1,307	588	719	826	390	436	43	16	27	438	182	256
New Hampshire	105	51	54	105	51	54	0	0	0	0	0	0
New Jersey	874	408	466	541	252	289	112	60	52	221	96	125
New Mexico	76	38	38	64	32	32	4	3	1	8	3	5
New York	2,784	1,304	1,477	0	0	0	0	0	0	2,781	1,304	1,477
North Carolina	974	409	565	586	255	331	386	154	232	2	0	2
Oregon	419	197	222	278	128	150	15	7	8	126	62	64
Rhode Island	155	60	95	145	55	90	7	3	4	3	2	1
South Dakota	106	43	63	97	37	60	4	3	1	5	3	2
Utah	120	57	63	115	53	62	5	4	1	0	0	0
Vermont	68	24	44	67	23	44	1	1	0	0	0	0
Virginia	704	303	396	452	198	254	205	94	111	47	16	31

**Table 3c.—Rate of All Additions to Registers by Color and Sex, MRA and Each MRA State, 1969**

[Rate per 100,000 population. MRA total rates for white and other exclude New York State.]

State	MRA total			Color and sex			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
				(1)	(1)	(1)	(1)	(1)	(1)
MRA total.....	16.3	15.7	16.9	(1)	(1)	(1)	(1)	(1)	(1)
Connecticut.....	16.5	14.9	17.9	15.9	13.9	17.8	24.2	30.4	18.6
Georgia.....	11.2	12.0	10.4	(1)	(1)	(1)	(1)	(1)	(1)
Kansas.....	17.7	16.8	18.5	15.2	14.2	16.2	29.0	31.1	27.4
Louisiana.....	13.7	14.7	12.6	10.6	11.6	9.6	18.6	21.2	16.2
Massachusetts.....	20.8	19.7	21.8	(1)	(1)	(1)	(1)	(1)	(1)
New Hampshire.....	17.0	15.5	18.4	17.1	15.6	18.5	(2)	(2)	(2)
New Jersey.....	13.9	12.8	14.9	(1)	(1)	(1)	(1)	(1)	(1)
New Mexico.....	5.1	7.0	3.3	4.8	6.7	3.0	5.0	6.3	3.9
New York.....	17.4	17.6	17.1	(1)	(1)	(1)	(1)	(1)	(1)
North Carolina.....	21.1	18.6	23.6	16.4	14.7	18.0	36.3	31.0	41.2
Oregon.....	19.9	18.0	21.8	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island.....	14.8	14.0	15.6	14.0	13.2	14.8	22.6	(2)	(2)
South Dakota.....	11.8	11.2	12.5	12.0	10.8	13.2	2.9	(2)	(2)
Utah.....	10.7	9.5	11.9	10.6	9.3	11.8	14.8	(2)	(2)
Vermont.....	10.5	7.5	13.5	10.6	7.5	13.5	(2)	(2)	(2)
Virginia.....	15.1	13.7	16.6	10.3	9.9	10.7	28.9	25.2	32.4

<sup>1</sup> Not computed because color was unknown for more than 10 percent of additions.

<sup>2</sup> Not computed because the estimated State population in 1969 was less than 25,000 for this color and sex.

**Table 3d.—Rate of All Additions to Registers by Color and Sex, MRA and Each MRA State, 1970**

[Rate per 100,000 population. MRA total rates for white and other exclude New York State]

State	Color and sex								
	MRA total			White			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
MRA total	15.2	14.4	16.0	(1)	(1)	(1)	(1)	(1)	(1)
Connecticut	9.0	7.7	10.2	8.1	6.7	9.4	22.3	22.3	22.3
Georgia	9.1	8.9	9.3	(1)	(1)	(1)	(1)	(1)	(1)
Kansas	17.7	16.2	19.1	15.3	13.6	16.9	29.6	32.3	27.0
Louisiana	15.0	16.5	13.7	11.2	11.4	10.9	22.1	26.6	18.9
Massachusetts	22.9	21.6	24.2	(1)	(1)	(1)	(1)	(1)	(1)
New Hampshire	14.2	14.0	14.2	14.2	14.2	14.3	(7)	(7)	(7)
New Jersey	12.1	11.7	12.5	(1)	(1)	(1)	(1)	(1)	(1)
New Mexico	7.5	7.6	7.4	(1)	(1)	(1)	(1)	(1)	(1)
New York	15.2	14.9	15.5	(1)	(1)	(1)	(1)	(1)	(1)
North Carolina	19.1	16.4	21.7	15.0	13.3	16.7	32.7	27.1	37.8
Oregon	19.9	19.1	20.7	(1)	(1)	(1)	(1)	(1)	(1)
Rhode Island	16.3	12.9	19.6	15.8	12.2	19.2	21.9	(2)	(2)
South Dakota	15.9	13.0	18.8	15.4	11.8	18.9	11.4	(2)	(2)
Utah	11.2	10.8	11.6	11.0	10.3	11.7	17.9	(2)	(2)
Vermont	15.2	11.0	19.2	15.1	10.6	19.3	(2)	(2)	(2)
Virginia	15.1	13.4	16.8	12.0	10.6	13.4	23.1	21.7	24.4

<sup>1</sup> Not computed because color was unknown for more than 10 percent of additions.

<sup>2</sup> Not computed because the estimated State population in 1970 was less than 25,000 for this color and sex.

**Table 4a.—Number of All Additions to Registers by Age, MRA and Each MRA State, 1969**

State	Age							Unknown
	Total	Under 5	5-14	20-44	45-64	65-74	75-84	
MRA total.....	9,916	223	965	1,326	2,718	1,449	1,865	907
Connecticut.....	494	21	68	52	98	67	100	81
Georgia.....	508	0	43	163	285	31	10	7
Kansas.....	395	9	22	46	82	64	104	49
Louisiana.....	494	18	73	78	192	40	50	27
Massachusetts.....	1,175	18	84	99	266	209	314	146
New Hampshire.....	123	6	11	11	29	13	29	16
New Jersey.....	984	42	129	139	253	132	167	72
New Mexico.....	52	2	5	9	17	3	3	7
New York.....	3,143	50	268	454	835	502	569	247
North Carolina.....	1,063	14	79	116	272	202	237	135
Oregon.....	411	16	43	55	87	54	107	43
Rhode Island.....	138	8	22	10	38	20	24	7
South Dakota.....	79	0	1	9	21	7	22	18
Utah.....	112	2	6	18	18	16	33	18
Vermont.....	46	1	3	q	12	7	10	4
Virginia.....	699	16	108	119	213	82	86	30
								45

**Table 4b.—Number of All Additions to Registers by Age, MRA and Each MRA State, 1970**

State	Age								Unknown
	Total	Under 5	5-19	20-44	45-64	65-74	75-84	85 and over	
MRA total.....	9,328	206	898	1,203	2,626	1,383	1,707	893	412
Connecticut.....	274	8	40	44	73	41	45	23	0
Georgia.....	420	0	37	83	238	28	11	7	16
Kansas.....	397	12	28	47	78	69	90	55	18
Louisiana.....	548	28	80	92	217	47	47	22	15
Massachusetts.....	1,307	24	81	117	232	198	301	163	191
New Hampshire.....	105	6	9	16	22	16	9	15	12
New Jersey.....	874	43	112	113	228	129	129	67	53
New Mexico.....	75	1	3	11	25	7	11	5	13
New York.....	2,781	33	252	364	822	483	535	241	51
North Carolina.....	974	22	77	113	261	172	211	113	0
Oregon.....	419	8	57	64	93	46	92	55	4
Rhode Island.....	155	5	12	13	42	22	42	18	1
South Dakota.....	106	6	3	9	19	11	30	32	2
Utah.....	120	1	5	19	15	21	40	19	0
Vermont.....	68	3	6	10	13	8	15	10	3
Virginia.....	704	12	96	88	248	85	99	43	33

**Table 4c.—Rate of All Additions to Registers by Age, MRA and Each MRA State, 1969**

[Rate per 100,000 population]

State	Tot	Age						85 and over
		Under 5	5-19	20-44	45-64	65-74	75-84	
<b>MRA total . . . . .</b>								
Connecticut . . . . .	16.5	8.4	8.0	5.5	14.9	38.7	109.9	(1)
Georgia . . . . .	11.2	0	3.1	6.7	33.1	13.3	9.6	25.9
Kansas . . . . .	17.7	5.2	3.4	6.7	17.9	41.6	119.5	(1)
Louisiana . . . . .	13.7	5.2	6.2	7.0	28.5	20.2	59.5	(1)
Massachusetts . . . . .	20.8	3.9	5.2	5.7	22.1	55.3	155.4	286.3
New Hampshire . . . . .	17.0	9.4	5.2	4.9	19.9	27.7	(1)	(1)
New Jersey . . . . .	13.9	7.2	6.5	6.2	15.9	30.3	80.7	153.2
New Mexico . . . . .	5.1	(2)	(2)	(2)	(2)	(2)	(2)	(2)
New York . . . . .	17.4	3.4	5.4	7.9	20.8	40.6	98.4	185.7
North Carolina . . . . .	21.1	3.2	5.2	6.9	27.5	75.9	204.3	482.1
Oregon . . . . .	19.9	9.9	7.2	8.7	19.7	40.3	150.7	(1)
Rhode Island . . . . .	14.8	10.7	3.6	3.4	18.5	31.7	75.0	(1)
South Dakota . . . . .	11.8	0	.5	4.9	15.7	14.9	81.5	(1)
Utah . . . . .	10.7	1.8	1.7	5.4	10.3	33.3	(1)	(1)
Vermont . . . . .	10.5	2.6	2.2	6.0	14.3	25.0	(1)	(1)
Virginia . . . . .	15.1	4.1	7.9	7.5	23.5	35.5	81.9	111.1

<sup>1</sup> Not computed because the estimated State population in 1969 was less than 25,000 for this age.

**Table 4d.—Rate of All Additions to Registers by Age, MRA and Each MRA State, 1970**

[Rate per 100,000 population]

State	Age							85 and over
	Total	Under 5	5-19	20-44	45-64	65-74	75-84	
MRA total . . . . .	15.2	4.0	5.1	6.1	20.4	36.8	94.5	203.0
Connecticut . . . . .	9.0	3.1	4.6	4.6	11.0	23.4	48.9	(1)
Georgia . . . . .	9.1	0	2.6	5.4	27.4	11.9	10.4	25.9
Kansas . . . . .	17.7	6.9	4.3	6.8	17.0	44.5	102.3	(1)
Louisiana . . . . .	15.0	8.0	6.3	8.2	32.1	23.5	55.3	(1)
Massachusetts . . . . .	22.9	(2)	(2)	(2)	(2)	(2)	(2)	(2)
New Hampshire . . . . .	14.2	(2)	(2)	(2)	(2)	(2)	(2)	(2)
New Jersey . . . . .	12.1	7.3	5.5	5.0	14.1	29.2	61.4	139.6
New Mexico . . . . .	7.5	(2)	(2)	(2)	(2)	(2)	(2)	(2)
New York . . . . .	15.2	2.2	5.1	6.3	20.3	38.8	91.8	179.9
North Carolina . . . . .	19.1	5.0	5.0	6.6	26.1	63.9	180.3	406.9
Oregon . . . . .	19.9	4.8	9.3	9.9	20.6	33.6	126.0	(1)
Rhode Island . . . . .	16.3	6.6	4.6	4.3	20.0	34.4	131.3	(1)
South Dakota . . . . .	15.9	0	1.4	4.9	14.3	23.4	111.1	(1)
Utah . . . . .	11.2	.9	1.4	5.6	8.4	42.9	(1)	(1)
Vermont . . . . .	15.2	7.5	4.4	7.4	15.1	27.6	(1)	(1)
Virginia . . . . .	15.1	3.1	7.0	5.5	27.1	36.5	93.4	159.3

<sup>1</sup> Not computed because the estimated State population in 1970 was less than 25,000 for this age.

<sup>2</sup> Not computed because age was unknown for more than 10 percent of additions.

**Table 5a.—Number of All Additions to Registers by Visual Acuity, MRA and Each MRA State, 1969**

State	Total	Visual acuity						Restricted field	Unknown
		Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200		
MRA total.....	9,916	729	911	94	1,573	1,201	1,429	2,573	885
Connecticut.....	494	37	38	8	69	45	72	115	28
Georgia.....	508	30	35	2	77	57	87	141	58
Kansas.....	395	26	37	2	75	32	55	121	25
Louisiana.....	494	40	40	5	90	15	89	151	39
Massachusetts.....	1,175	49	74	11	162	162	357	275	82
New Hampshire.....	123	10	11	1	20	12	23	30	14
New Jersey.....	984	54	94	17	109	131	153	257	61
New Mexico.....	52	3	3	1	4	3	16	15	3
New York.....	3,143	322	326	30	586	527	190	702	386
North Carolina.....	1,063	42	108	1	188	62	157	324	71
Oregon.....	411	28	28	4	56	69	78	110	37
Rhode Island.....	138	10	14	4	30	10	24	36	4
South Dakota.....	79	5	8	0	3	10	10	16	5
Utah.....	112	7	10	6	15	11	19	39	4
Vermont.....	46	4	4	1	7	7	8	11	1
Virginia.....	699	62	81	1	82	48	91	230	67
									37

**Table 5b.—Number of All Additions to Registers by Visual Acuity, MRA and Each MRA State, 1970**

State	Visual acuity							Restricted field	Unknown
	Total	Absolute bluntness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200		
MRA total.....	9,328	560	798	98	1,366	1,180	1,564	2,590	826
Connecticut.....	274	17	22	4	33	30	45	97	13
Georgia.....	420	34	47	3	50	47	52	101	67
Kansas.....	397	29	36	4	75	25	65	107	28
Louisiana.....	548	32	50	5	81	37	102	151	57
Massachusetts.....	1,367	44	72	20	206	189	346	335	78
New Hampshire.....	105	5	10	3	8	5	27	37	7
New Jersey.....	874	47	83	10	100	110	156	246	51
New Mexico.....	76	10	8	0	12	3	16	21	2
New York.....	2,781	189	259	24	417	517	300	704	342
North Carolina.....	974	50	84	1	166	61	154	307	68
Oregon.....	419	23	22	7	66	57	82	119	43
Rhode Island.....	155	9	15	7	23	24	27	39	5
South Dakota.....	106	11	6	3	13	13	20	31	0
Utah.....	120	6	3	3	18	8	31	46	5
Vermont.....	68	4	3	1	13	7	7	23	6
Virginia.....	704	50	78	3	85	47	134	226	54
									27

**Table 5c.—Percent Distribution of All Additions to Registers by Visual Acuity, According to MRA and Each MRA State, 1969**

State	Total	Absolute blindness	Light perception	Light projection	Visual acuity				
					Less than 5/7200	5/7200 to less than 10/200	10/200 to less than 20/200	20/200	Restricted field
MRA total.....	100.0	7.4	9.2	.9	15.9	12.1	14.4	25.9	8.9
Connecticut.....	100.0	7.5	7.7	1.6	14.0	9.1	14.6	23.3	5.7
Georgia.....	100.0	5.9	6.9	.4	15.2	11.2	17.1	27.8	11.4
Kansas.....	100.0	6.6	9.4	.5	19.0	8.1	13.9	30.6	6.3
Louisiana.....	100.0	8.1	8.1	1.0	18.2	.0	18.0	30.6	7.9
Massachusetts.....	100.0	4.2	6.3	.9	13.8	13.8	30.4	23.4	7.0
New Hampshire.....	100.0	8.1	8.9	.8	16.3	9.8	18.7	24.4	11.4
New Jersey.....	100.0	5.5	9.6	1.7	11.1	13.3	15.5	26.1	6.2
New Mexico.....	100.0	5.8	5.8	1.9	7.7	5.8	30.8	28.8	5.8
New York.....	100.0	10.2	10.4	1.0	18.6	16.8	6.9	22.3	12.3
North Carolina.....	100.0	4.0	10.2	.1	17.7	5.8	14.8	30.5	6.7
Oregon.....	100.0	6.8	6.8	1.0	13.6	16.8	19.0	26.8	9.0
Rhode Island.....	100.0	7.2	10.1	2.9	21.7	7.2	17.4	26.1	2.9
South Dakota.....	100.0	6.3	10.1	0	3.8	12.7	12.7	20.3	6.3
Utah.....	100.0	6.2	8.9	5.4	13.4	9.8	17.0	34.8	3.6
Vermont.....	100.0	8.7	8.7	2.2	15.2	15.2	17.4	23.9	2.2
Virginia.....	100.0	8.9	11.6	.1	11.7	6.9	13.0	32.9	9.6

**Table 5d.—Percent Distribution of All Additions to Registers by Visual Acuity, According to MRA and Each MRA State, 1970**

State	Visual acuity							Restricted field	Unknown
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200		
MRA total.....	100.0	6.0	8.6	1.1	14.6	12.7	16.8	27.8	8.9
Connecticut.....	100.0	6.2	8.0	1.5	12.0	10.9	16.4	35.4	4.7
Georgia.....	100.0	8.1	11.2	.7	11.9	11.2	12.4	24.0	16.0
Kansas.....	100.0	7.3	9.1	1.0	18.9	6.3	16.4	27.0	7.1
Louisiana.....	100.0	5.8	9.1	.9	14.8	6.8	18.6	27.6	10.4
Massachusetts.....	100.0	3.4	5.5	1.5	15.8	14.5	26.5	25.6	6.0
New Hampshire.....	100.0	4.8	9.5	2.9	7.6	4.8	25.7	35.2	6.7
New Jersey.....	100.0	5.4	9.5	1.1	11.4	12.5	17.8	28.1	5.8
New Mexico.....	100.0	13.2	10.5	0	15.8	3.9	21.1	27.6	2.6
New York.....	100.0	6.8	9.3	.9	15.0	18.6	10.8	25.3	12.3
North Carolina.....	100.0	5.1	8.6	.1	17.0	6.3	15.8	31.5	7.0
Oregon.....	100.0	5.5	5.3	1.7	15.8	13.6	19.6	28.4	10.3
Rhode Island.....	100.0	5.8	9.7	4.5	14.8	15.5	17.4	25.2	3.2
South Dakota.....	100.0	10.4	5.7	2.8	12.3	12.3	18.9	29.2	0
Utah.....	100.0	5.0	2.5	2.5	15.0	6.7	25.8	38.3	4.2
Vermont.....	100.0	5.9	4.4	1.5	19.1	10.3	10.3	33.8	8.8
Virginia.....	100.0	7.1	11.1	.4	12.1	5.7	19.0	32.1	7.7
									3.8

**Table 6a.—Number of All Additions to Registers by Visual Acuity, Color, and Sex, MRA, 1969**

Color and sex	Total	Visual acuity				Restricted field	Unknown
		Absolute blindness	Light perception	Light projection	5/200 or less than 10/200		
MRA total.....	9,916	729	911	94	1,573	1,429	2,573
Male.....	4,627	363	424	53	682	555	885
Female.....	5,289	366	487	41	891	646	521
White.....	4,569	265	365	46	692	469	467
Male.....	2,110	128	175	30	302	214	250
Female.....	2,459	137	190	16	390	255	271
Other.....	1,350	95	153	13	201	103	139
Male.....	617	43	61	7	85	55	149
Female.....	733	52	92	6	116	48	139
Unknown.....	3,997	369	393	35	680	629	644
Male.....	1,900	192	188	16	295	286	236
Female.....	2,097	177	205	19	385	343	71
					20/200	20/200	64

**Table 6b.—Number of All Additions to Registers by Visual Acuity, Color, and Sex, MRA, 1970**

Color and sex	Visual acuity							Restricted field	Unknown
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200		
MRA, total	9,328	560	793	98	1,366	1,180	1,564	2,590	826
Male	4,271	281	353	40	595	504	693	1,198	451
Female	5,057	279	445	58	771	676	871	1,392	375
White	4,288	224	335	56	609	436	865	1,284	277
Male	1,941	110	144	23	271	191	368	586	157
Female	2,347	114	192	33	338	245	497	698	120
Other	1,299	99	150	10	212	110	163	339	146
Male	606	55	64	7	93	39	71	153	91
Female	693	44	86	3	119	71	92	188	55
Unknown	3,741	237	312	32	545	634	536	967	403
Male	1,724	116	145	10	231	274	254	459	203
Female	2,017	121	167	314	360	282	508	200	43

**Table 6c.—Percent Distribution of All Additions to Registers by Visual Acuity, According to Color and Sex, MRA, 1969**

Color and sex	Total	Absolute blindness	Light perception	Visual acuity				Restricted field	Unknown
				Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200		
MRA total.....	100.0	7.4	9.2	.9	15.9	12.1	14.4	25.9	8.9
Male.....	100.0	7.8	9.2	1.1	14.7	12.0	13.5	26.1	10.1
Female.....	100.0	6.9	9.2	.8	16.8	12.2	15.2	25.8	7.9
White.....	100.0	5.8	8.0	1.0	15.1	10.3	18.8	28.0	6.5
Male.....	100.0	6.1	8.3	1.4	14.3	10.1	17.5	28.6	7.1
Female.....	100.0	5.6	7.7	.7	15.9	10.4	19.8	27.5	6.1
Other.....	100.0	7.0	11.3	1.0	14.9	7.6	13.9	27.0	10.5
Male.....	100.0	7.0	9.9	1.1	13.8	8.9	12.8	26.7	13.3
Female.....	100.0	7.1	12.6	.8	15.8	6.5	14.9	27.3	8.2
Unknown.....	100.0	9.2	9.8	.9	17.0	15.7	9.6	23.2	11.1
Male.....	100.0	10.1	9.9	.8	15.5	15.1	9.2	23.2	12.4
Female.....	100.0	8.4	9.8	.9	18.4	16.4	10.0	23.2	9.9

**Table 6d.—Percent Distribution of All Additions to Registers by Visual Acuity, According to Color and Sex, MRA, 1970**

Color and sex	Total	Absolute blindness	Visual acuity					Restricted field	Unknown
			Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200		
MRA total	100.0	6.0	8.6	1.1	14.6	12.7	16.8	27.8	8.9
Male	100.0	6.6	8.3	.9	13.9	11.8	16.2	28.0	10.6
Female	100.0	5.5	8.8	1.1	15.2	13.4	17.2	27.5	7.4
White	100.0	5.2	7.8	1.3	14.2	10.2	20.2	29.9	6.5
Male	100.0	5.7	7.4	1.2	14.0	9.8	19.0	30.2	8.1
Female	100.0	4.9	8.2	1.4	14.4	10.4	21.2	29.7	5.1
Other	100.0	7.6	11.5	.8	16.3	8.5	12.5	26.1	11.2
Male	100.0	9.1	10.6	1.2	15.3	6.4	11.7	25.2	15.0
Female	100.0	6.3	12.4	.4	17.2	10.2	13.3	26.8	7.9
Unknown	100.0	6.3	8.3	.9	14.6	16.9	14.3	25.8	10.8
Male	100.0	6.7	8.4	.6	13.4	15.9	14.7	26.6	11.8
Female	100.0	6.0	8.3	1.1	15.6	17.8	14.0	25.2	9.9

**Table 7a.—Number of All Additions to Registers by Visual Acuity and Age, MRA, 1969**

Age	Total	Visual acuity						Restricted field	Unknown
		Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200		
MRA total.....	9,916	729	911	94	1,573	1,201	1,429	2,575	885
Under 5.....	223	51	47	3	15	2	12	12	0
5-19.....	965	82	70	7	70	94	127	383	52
20-44.....	1,326	151	129	14	166	129	167	357	152
45-64.....	2,718	172	252	27	432	307	404	685	362
65-74.....	1,449	98	136	11	267	167	204	379	131
75-84.....	1,865	87	155	17	370	285	310	443	117
85 and over.....	907	54	94	10	179	149	138	192	28
Unknown.....	463	34	28	5	74	68	67	122	43
									22

**Table 7b.—Number of All Additions to Registers by Visual Acuity and Age, MRA, 1970**

Age	Visual acuity						Restricted field	Unknown
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200		
MRA total.....	9,328	560	798	98	1,366	1,180	1,564	2,590
Under 5.....	206	45	31	5	10	4	10	8
5-19.....	898	73	70	6	73	73	124	367
20-44.....	1,203	112	99	12	151	128	169	369
45-64.....	2,626	144	210	24	399	351	410	686
65-74.....	1,383	62	132	15	216	176	240	386
75-84.....	1,707	63	144	17	284	260	337	456
85 and over.....	893	44	89	13	179	139	168	204
Unknown.....	412	17	23	6	54	49	106	114
							30	13

**Table 7c.—Percent Distribution of All Additions to Registers by Visual Acuity, According to Age, MRA, 1969**

Age	Total	Visual acuity						Restricted field	Unknown
		Absolute Blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200		
MRA total.....	100.0	7.4	9.2	.9	15.9	12.1	14.4	25.9	8.9
Under 5.....	100.0	22.9	21.1	1.3	6.7	.9	5.4	5.4	0
5-19.....	100.0	8.5	7.3	.7	7.3	9.7	13.2	39.7	5.4
20-44.....	100.0	11.4	9.7	1.1	12.5	9.7	12.6	26.9	11.5
45-64.....	100.0	6.3	9.3	1.0	15.9	11.3	14.9	25.2	13.3
65-74.....	100.0	6.8	9.4	.8	18.4	11.5	14.1	26.2	9.0
75-84.....	100.0	4.7	8.3	.9	19.8	15.3	16.6	23.8	6.3
85 and over.....	100.0	6.0	10.4	1.1	19.7	16.4	15.2	21.2	3.1
Unknown.....	100.0	7.3	6.0	1.1	16.0	14.7	14.5	26.3	9.3
									4.8

**Table 7d.—Percent Distribution of All Additions to Registers by Visual Acuity, According to Age, MRA, 1970**

Age	Visual acuity							Restricted field	Unknown
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200		
MRA total.....	106,3	6.0	8.6	1.1	14.6	12.7	16.8	27.8	8.9
Under 5.....	100.0	21.8	15.0	2.4	4.9	1.9	4.9	3.9	0
5-19.....	100.0	8.1	7.8	.7	8.1	3.1	13.8	40.9	5.3
20-44.....	100.0	9.3	8.2	1.0	12.6	10.6	14.0	30.7	10.2
45-64.....	100.0	5.5	8.0	.9	15.2	13.4	15.6	26.1	13.4
65-74.....	100.0	4.5	9.5	1.1	15.6	12.7	17.4	27.9	9.9
75-84.....	100.0	3.7	8.4	1.0	16.6	15.2	19.7	26.7	6.5
85 and over.....	100.0	4.9	10.0	1.5	20.0	15.6	18.8	22.8	2.8
Unknown.....	100.0	4.1	5.6	1.5	13.1	11.9	25.7	27.7	7.3
									3.2

**Table 8a.—Number of First Additions to Registers by Age When Blinded, MRA and Each MRA State, 1969**

State	Total	At birth	Under 5	5-15	20-44	45-64	65-74	75-84	85 and over	Age when blinded	
										Age when blinded	Unknown
MRA total.....	9,422	999	133	247	629	1,348	818	701	214	4,333	
Connecticut.....	482	82	9	22	40	94	79	89	43	24	
Georgia.....	499	25	5	8	27	37	1	0	0	0	396
Kansas.....	38*	29	2	10	29	73	58	64	20	96	
Louisiana.....	470	98	7	23	64	145	34	38	10	51	
Massachusetts.....	1,163	4	2	2	1	4	1	3	0	1,146	
New Hampshire.....	120	9	1	4	2	4	2	2	2	94	
New Jersey.....	927	135	29	45	92	171	94	68	12	281	
New Mexico.....	51	3	0	0	9	6	0	1	0	32	
New York.....	2,921	199	45	43	148	313	208	108	24	1,833	
North Carolina.....	971	87	11	34	91	265	213	186	67	17	
Oregon.....	403	156	5	18	18	39	40	42	10	75	
Rhode Island.....	132	23	3	6	17	35	15	17	0	16	
South Dakota.....	79	5	0	0	7	18	13	10	8	18	
Utah.....	111	12	2	5	11	22	15	35	8	1	
Vermont.....	45	4	0	2	9	12	7	5	1	5	
Virginia.....	667	128	12	25	64	110	38	33	9	248	

**Table 8b.—Number of First Additions to Registers by Age When Blinded, MRA and Each MRA State, 1970**

State	Age when blinded									Unknown
	Total	At birth	Under 5	5-19	20-44	45-64	65-74	75-84	85 and over	
MRA total	9,045	875	117	242	627	1,344	735	657	194	4,254
Connecticut	263	32	10	8	42	71	41	36	12	11
Georgia	418	26	3	7	14	44	0	0	0	324
Kansas	381	37	6	8	32	71	64	60	23	80
Louisiana	517	99	15	30	75	189	41	40	13	15
Massachusetts	1,297	26	4	6	4	8	7	9	2	1,231
New Hampshire	98	13	1	1	4	4	3	9	2	61
New Jersey	812	122	24	39	86	168	68	61	22	222
New Mexico	70	2	0	1	4	4	1	0	0	58
New York	2,779	174	22	51	158	290	199	120	30	1,735
North Carolina	917	78	13	38	106	271	179	173	54	5
Oregon	397	113	4	6	15	25	15	19	7	193
Rhode Island	152	18	4	5	13	38	29	28	7	10
South Dakota	106	5	0	1	9	10	16	14	3	48
Utah	115	12	2	4	9	19	18	36	10	5
Vermont	66	12	2	0	8	15	6	15	2	6
Virginia	657	106	7	37	48	117	48	37	7	250

**Table 8c.—Percent Distribution of First Additions to Registers by Age When Blinded, According to MRA and Each MRA State, 1969**

State	Total	At birth	Age when blinded							
			Under 5	5-19	20-44	45-64	65-74	75-84	85 and over	Unknown
MRA total.....	100.0	10.6	1.4	2.6	6.7	14.3	8.7	7.4	2.3	46.0
Connecticut.....	100.0	17.0	1.9	4.6	8.3	19.5	16.4	18.5	8.9	5.0
Georgia.....	100.0	5.0	1.0	1.6	5.4	7.4	.2	0	0	79.4
Kansas.....	100.0	7.6	.5	2.6	7.6	19.2	15.2	16.8	5.2	25.2
Louisiana.....	100.0	20.9	1.5	4.9	13.6	30.9	7.2	8.1	2.1	10.9
Massachusetts.....	100.0	.3	.2	.2	.1	.3	.1	.3	0	98.5
New Hampshire.....	100.0	7.5	.8	3.3	1.7	3.3	1.7	1.7	1.7	78.3
New Jersey.....	100.0	14.6	3.1	4.9	9.9	18.4	10.1	7.3	1.3	30.3
New Mexico.....	100.0	5.9	0	0	17.6	11.8	0	2.0	0	62.7
New York.....	100.0	6.8	1.5	1.5	5.1	10.7	7.1	3.7	.8	62.8
North Carolina.....	100.0	9.0	1.1	3.5	9.4	27.3	21.9	19.2	6.9	1.8
Oregon.....	100.0	38.7	1.2	4.5	4.5	9.7	9.9	10.4	2.5	18.6
Rhode Island.....	100.0	17.4	2.3	4.5	12.9	26.5	11.4	12.9	0	12.1
South Dakota.....	100.0	6.3	0	0	8.9	22.8	16.5	12.7	10.1	22.8
Utah.....	100.0	10.8	1.8	4.5	9.9	19.8	13.5	31.5	7.2	.9
Vermont.....	100.0	8.9	0	4.4	20.0	26.7	15.6	11.1	2.2	11.1
Virginia.....	100.0	19.2	1.8	3.7	9.6	16.5	5.7	4.9	1.3	37.2

**Table 8d.—Percent Distribution of First Additions to Registers by Age When Blinded, According to MRA and Each MRA State, 1970**

State	Age when blinded									
	Total	At birth	Under 5	5-19	20-44	45-64	65-74	75-84	85 and over	Unknown
MRA total.....	100.0	9.7	1.3	2.7	6.9	14.9	8.1	7.3	2.1	47.0
Connecticut.....	100.0	12.2	3.8	3.0	16.0	27.0	15.6	13.7	4.6	4.2
Georgia.....	100.0	6.2	.7	1.7	3.3	10.5	0	0	0	77.5
Kansas.....	100.0	9.7	1.6	2.1	8.4	18.6	16.8	15.7	6.0	21.0
Louisiana.....	100.0	19.1	2.9	5.8	14.5	36.6	7.9	7.7	2.5	2.9
Massachusetts.....	100.0	2.0	.3	.5	.3	.6	.5	.7	.2	94.9
New Hampshire.....	100.0	13.3	1.0	1.0	4.1	4.1	3.1	9.2	2.0	62.2
New Jersey.....	100.0	15.0	3.0	4.8	10.6	20.7	8.4	7.5	2.7	27.3
New Mexico.....	100.0	2.9	0	1.4	5.7	5.7	1.4	0	0	82.9
New York.....	100.0	6.3	.8	1.8	5.7	10.4	7.2	4.3	1.1	62.4
North Carolina.....	100.0	8.5	1.4	4.1	11.6	29.6	19.5	18.9	5.9	.5
Oregon.....	100.0	28.5	1.0	1.5	3.8	6.3	3.8	4.8	1.8	48.6
Rhode Island.....	100.0	11.8	2.6	3.3	8.6	25.0	19.1	18.4	4.6	6.6
South Dakota.....	100.0	4.7	0	.9	8.5	9.4	15.1	13.2	2.8	45.3
Utah.....	100.0	10.4	1.7	3.5	7.8	16.5	15.7	31.3	8.7	4.3
Vermont.....	100.0	18.2	3.0	0	12.1	22.7	9.1	22.7	3.0	9.1
Virginia.....	100.0	16.1	1.1	5.6	7.3	17.8	7.3	5.6	1.1	38.1

**Table 9a.—Number of First Additions to Registers by Discipline of Examiner, MRA and Each MRA State, 1969**

State	Discipline of examiner					Other	Unknown
	Total	Ophthalmologist or ENT M.D. <sup>1</sup>	Other M.D.	Optometrist	Other		
MRA total.....	9,422	8,545	247	321	150	159	
Connecticut.....	482	349	13	16	104	0	
Georgia.....	499	449	22	14	14	0	
Kansas.....	381	345	19	12	0	5	
Louisiana.....	470	428	15	19	4	4	
Massachusetts.....	1,163	1,040	16	103	0	4	
New Hampshire.....	120	93	7	17	1	2	
New Jersey.....	927	834	50	29	7	7	
New Mexico.....	51	47	3	0	0	1	
New York.....	2,921	2,765	30	14	5	107	
North Carolina.....	971	913	21	30	1	6	
Oregon.....	403	360	15	26	1	1	
Rhode Island.....	132	123	0	4	4	1	
South Dakota.....	79	50	8	5	0	16	
Utah.....	111	104	4	1	2	0	
Vermont.....	45	36	0	3	5	1	
Virginia.....	667	609	24	28	2	4	

<sup>1</sup> Eye-ear-nose-throat specialist.

**Table 9b.—Number of First Additions to Registers by Discipline of Examiner, MRA and Each MRA State, 1970**

State	Discipline of examiner					Unknown
	Total	Ophthalmologist or EENT M.D. <sup>1</sup>	Other M.D.	Optometrist	Other	
MRA total.....	9,045	8,353	184	405	63	40
Connecticut.....	263	224	9	13	17	0
Georgia.....	418	365	31	15	6	1
Kansas.....	381	338	10	29	1	3
Louisiana.....	517	481	13	21	2	0
Massachusetts.....	1,297	1,151	11	132	1	2
New Hampshire.....	98	85	5	7	0	1
New Jersey.....	812	744	33	27	4	4
New Mexico.....	70	67	1	0	2	0
New York.....	2,779	2,719	7	23	22	8
North Carolina.....	917	833	31	51	0	2
Oregon.....	397	363	15	17	0	2
Rhode Island.....	152	147	3	1	1	0
South Dakota.....	106	75	4	20	0	7
Utah.....	115	107	1	4	2	1
Vermont.....	66	55	2	7	2	0
Virginia.....	657	599	8	38	3	9

<sup>1</sup> Eye-ear-nose-throat specialist.

**Table 9c.—Percent Distribution of First Additions to Registers by Discipline of Examiner, According to MRA and Each MRA State, 1969**

State	Discipline of examiner					Unknown
	Total	Ophthalmologist or EENT M.D. <sup>1</sup>	Other M.D.	Optometrist	Other	
MRA total.....	100.0	90.7	2.6	3.4	1.6	1.7
Connecticut.....	100.0	72.4	2.7	3.3	21.6	0
Georgia.....	100.0	90.0	4.4	2.8	2.8	0
Kansas.....	100.0	90.6	5.0	3.1	0	1.3
Louisiana.....	100.0	91.1	3.2	4.0	.9	.9
Massachusetts.....	100.0	89.4	1.4	8.9	0	.3
New Hampshire.....	100.0	77.5	5.8	14.2	.8	1.7
New Jersey.....	100.0	90.0	5.4	3.1	.8	.8
New Mexico.....	100.0	92.2	5.9	0	0	2.0
New York.....	100.0	94.7	1.0	.5	.2	3.7
North Carolina.....	100.0	94.0	2.2	3.1	.1	.6
Oregon.....	100.0	89.3	3.7	6.5	.2	.2
Rhode Island.....	100.0	93.2	0	3.0	3.0	.8
South Dakota.....	100.0	63.3	10.1	6.3	0	20.3
Utah.....	100.0	93.7	3.6	.9	1.8	0
Vermont.....	100.0	80.0	0	6.7	11.1	2.2
Virginia.....	100.0	91.3	3.6	4.2	.3	.6

<sup>1</sup> Eye-ear-nose-throat specialist.

**Table 9d.—Percent Distribution of First Additions to Registers by Discipline of Examiner, According<sup>b</sup> to MRA and Each MRA State, 1970**

State	Discipline of Examiner				
	Total	Ophthalmologist or ENT M.D. <sup>a</sup>	Other M.D.	Optometrist	Other
MRA total	100.0	92.3	2.0	4.5	.7
Connecticut	100.0	85.2	3.4	4.9	6.5
Georgia	100.0	87.3	7.4	3.6	1.4
Kansas	100.0	88.7	2.6	7.6	.3
Louisiana	100.0	93.0	2.5	4.1	.4
Massachusetts	100.0	88.7	.8	10.2	.1
New Hampshire	100.0	86.7	5.1	7.1	0
New Jersey	100.0	91.6	4.1	3.3	.5
New Mexico	100.0	95.7	1.4	0	2.9
New York	100.0	97.8	.3	.8	.8
North Carolina	100.0	90.8	3.4	5.6	0
Oregon	100.0	91.4	3.8	4.3	0
Rhode Island	100.0	96.7	2.0	.7	.7
South Dakota	100.0	70.8	3.8	18.9	0
Utah	100.0	93.0	.9	3.5	1.7
Vermont	100.0	83.3	3.0	10.6	3.0
Virginia	100.0	91.2	1.2	5.8	.5

<sup>a</sup> Eye-ear-nose-throat specialist.

**Table 10a.—Number of First Additions to Registers by Visual Acuity and Discipline of Examiner, MRA, 1969**

Visual acuity	Discipline of examiner					Unknown
	Total	Ophthalmologist or EENT M.D. <sup>1</sup>	Other M.D.	Optometrist	Other	
MRA total.....	9,422	8,545	247	321	150	159
Absolute blindness.....	664	549	61	18	29	7
Light perception.....	839	769	17	34	13	6
Less than 5/200.....	90	84	2	4	0	0
5/200 to less than 10/200 .....	1,502	1,430	20	36	11	5
10/200 to less than 20/200 .....	1,145	1,089	13	31	8	4
20/200 .....	1,376	1,264	18	83	5	6
Restricted field .....	2,442	2,277	50	94	15	6
Unknown.....	857	794	4	10	5	44
.....	507	289	62	11	64	81

<sup>1</sup> Eye-ear-nose-throat specialist.

**Table 10b.—Number of First Additions to Registers by Visual Acuity and Discipline of Examiner, MRA, 1970**

Visual acuity	Discipline of examiner*				
	Total	Ophthalmologist or ENT M.D. <sup>†</sup>	Other M.D.	Optometrist	Other
MRA total . . . . .	9,045	8,353	184	405	63
Absolute blindness . . . . .	535	453	44	23	10
Light perception . . . . .	772	693	15	53	6
Light projection . . . . .	94	86	6	2	0
Less than 5/200 . . . . .	1,321	1,260	14	39	7
5/200 to less than 10/200 . . . . .	1,156	1,094	11	45	4
10/200 to less than 20/200 . . . . .	1,518	1,401	17	97	1
20/200 . . . . .	2,523	2,361	26	112	18
Restricted field . . . . .	796	758	4	22	5
Unknown . . . . .	330	247	47	12	12

\* Eye-ear-nose-throat specialist.

**Table 10c.—Percent Distribution of First Additions to Registers by Visual Acuity, According to Discipline of Examiner, MRA, 1969**

Visual acuity	Discipline of examiner				Unknown
	Total	Ophthalmologist or ENT, M.D. <sup>1</sup>	Other M.D.	Optometrist	
MRA total.....	100.0	100.0	100.0	100.0	100.0
Absolute blindness.....	7.0	6.4	24.7	5.6	19.3
Light perception.....	8.9	9.0	6.9	10.6	8.7
Light projection.....	1.0	1.0	.8	1.2	0
Less than 5/200.....	16.7	8.1	11.2	7.3	3.1
5/200 to less than 10/200.....	12.2	12.7	5.3	9.7	5.3
10/200 to less than 20/200.....	14.6	14.8	7.3	25.9	3.3
20/200.....	25.9	26.6	20.2	29.3	10.0
Restricted field.....	9.1	9.3	1.6	3.1	3.3
Unknown.....	5.4	3.4	25.1	3.4	42.7
					27.7
					50.9

<sup>1</sup> Eye-ear-nose-throat specialist.

**Table 10d.—Percent Distribution of First Additions to Registers by Visual Acuity, According to Discipline of Examiner, MRA, 1970**

Visual acuity	Discipline of examiner					Unknown
	Total	Ophthalmologist or EENT M.D. <sup>1</sup>	Other M.D.	Optometrist	Other	
MRA total.....	100.0	100.0	100.0	100.0	100.0	100.0
Absolute blindness.....	5.9	5.4	23.9	5.7	15.9	12.5
Light perception.....	8.5	8.3	8.2	13.1	9.5	12.5
Light projection.....	1.0	1.0	3.3	.5	0	0
Less than 5/200.....	14.6	15.1	7.6	9.6	11.1	2.5
5/200 to less than 10/200.....	12.8	13.1	6.0	11.1	6.3	5.0
10/200 to less than 20/200.....	16.8	16.8	9.2	24.0	1.6	5.0
20/200.....	27.9	28.3	14.1	27.7	28.6	15.0
Restricted field.....	8.8	9.1	2.2	5.4	7.9	17.5
Unknown.....	3.6	3.0	25.5	3.0	19.0	30.0

<sup>1</sup>Eye-ear-nose-throat specialist.

**Table 11a.—Number of First Additions to Registers by Affectation, MRA and Each MRA State, 1969**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

State	Total	Affection												
		Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrobulbar fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affections	Other	Unknown
MRA total.....	8,545	937	267	78	161	1,092	297	89	1,558	1,282	556	1,007	812	409
Connecticut.....	349	28	15	2	5	20	16	6	71	71	18	32	41	24
Georgia.....	449	71	12	9	15	71	25	5	37	56	45	24	52	27
Kansas.....	345	33	6	4	6	79	8	3	66	39	24	48	20	9
Louisiana.....	428	68	9	3	9	61	19	3	54	49	38	42	56	17
Massachusetts.....	1,040	114	36	7	14	78	26	10	267	182	46	142	81	37
New Hampshire.....	93	10	3	1	2	12	1	1	10	17	9	11	13	3
New Jersey.....	834	90	22	9	12	129	36	8	121	121	52	89	82	63
New Mexico.....	47	4	2	2	2	8	2	0	9	1	5	6	5	1
New York.....	2,765	280	114	24	55	259	106	41	489	473	181	369	279	95
North Carolina.....	913	107	24	7	15	210	16	2	148	101	49	125	60	49
Oregon.....	360	28	6	4	9	49	10	4	103	46	19	45	31	6
Rhode Island.....	123	6	2	1	2	17	1	1	36	25	6	11	11	4
South Dakota.....	50	9	0	0	2	6	1	0	8	8	3	7	3	3
Utah.....	104	5	1	0	1	7	8	1	30	11	5	12	5	18
Vermont.....	36	0	3	1	2	8	0	0	6	11	3	0	2	0
Virginia.....	609	84	12	4	10	78	22	4	103	71	53	44	71	53

**Table 11b.—Number of First Additions to Registers by Affection, MRA and Each MRA State, 1970**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

State	Total	Affection										Multiple affections	Other	Unknown
		Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrobulbar fibroplasia	Ritinal degeneration	Other retinal affection	Optic nerve atrophy			
MRA total.....	8,353	908	231	68	173	983	241	97	1,603	1,326	513	1,037	774	399
Connecticut.....	224	15	9	1	5	11	3	2	39	57	15	21	23	25
Georgia.....	365	67	9	0	8	55	14	4	33	47	29	30	36	33
Kansas.....	338	30	3	2	3	63	13	6	64	42	21	55	27	9
Louisiana.....	481	75	7	10	11	75	23	8	59	60	36	33	64	20
Massachusetts.....	1,151	109	16	12	23	77	15	9	304	197	57	185	90	57
New Hampshire.....	85	8	5	2	3	9	2	2	16	11	4	10	12	1
New Jersey.....	744	85	18	7	10	104	22	8	116	123	44	57	79	71
New Mexico.....	67	3	4	0	4	14	2	0	10	13	2	7	6	2
New York.....	2,719	299	107	19	63	241	94	37	521	472	174	380	241	81
North Carolina.....	833	111	20	7	21	178	16	1	130	94	44	105	68	38
Oregon.....	363	20	11	1	9	38	18	5	97	51	29	45	35	4
Rhode Island.....	147	11	1	1	4	9	2	2	38	39	6	18	13	3
South Dakota.....	75	8	0	1	0	6	2	0	18	18	1	8	8	5
Utah.....	107	4	3	0	1	6	3	1	40	20	6	11	4	8
Vermont.....	55	4	0	1	0	6	0	1	19	5	5	8	1	1
Virginia.....	599	61	18	4	8	91	22	11	99	77	40	67	60	41

**Table 11c.—Percent Distribution of First Additions to Registers by Affection, According to MRA and Each MRA State, 1969**

(Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists)

State	Total	Affection												
		Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrobulbar fibrosis	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affections	Other	Unknown
MRA total.....	100.0	11.0	3.1	.9	1.9	12.8	3.5	1.0	18.2	15.0	6.5	11.8	9.5	4.8
Connecticut.....	100.0	8.0	4.3	.6	1.4	5.7	4.6	1.7	20.3	20.3	5.2	9.2	11.7	6.9
Georgia.....	100.0	15.8	2.7	2.0	3.3	15.8	5.6	1.1	8.2	12.5	10.0	5.3	11.6	6.0
Kansas.....	100.0	9.6	1.7	1.2	1.7	22.9	2.3	.9	19.1	11.3	7.0	13.9	5.8	2.6
Louisiana.....	100.0	15.9	2.1	.7	2.1	14.3	4.4	.7	12.6	11.4	8.9	9.8	13.1	4.0
Massachusetts.....	100.0	11.0	3.5	.7	1.3	7.5	2.5	1.0	25.7	17.5	4.4	13.7	7.8	3.0
New Hampshire.....	100.0	10.8	3.2	1.1	2.2	12.9	1.1	1.1	10.8	18.3	9.7	11.8	14.0	3.2
New Jersey.....	100.0	16.8	2.6	1.1	1.4	15.5	4.3	1.0	14.5	14.5	6.2	10.7	9.8	7.6
New Mexico.....	100.0	8.5	4.3	4.3	17.0	4.3	0	19.1	2.1	10.6	12.8	10.6	2.1	
New York.....	100.0	10.1	4.1	.9	2.0	9.4	3.8	1.5	17.7	17.1	6.5	13.3	10.1	3.4
North Carolina.....	100.0	11.7	2.6	.8	1.6	23.0	1.8	.2	16.2	11.1	5.4	13.7	6.6	5.4
Oregon.....	100.0	7.8	1.7	1.1	2.5	13.6	2.8	1.1	28.6	12.8	5.3	12.5	8.6	1.7
Rhode Island.....	100.0	4.9	1.6	.8	1.6	13.8	.8	.8	29.3	20.3	4.9	8.9	8.9	3.3
South Dakota.....	100.0	18.0	0	0	4.0	12.0	2.0	0	16.0	16.0	6.0	14.0	6.0	6.0
Utah.....	100.0	4.6	1.0	0	1.0	6.7	7.7	1.0	28.8	10.6	4.8	11.5	4.8	17.3
Vermont.....	100.0	0	8.3	2.8	5.6	22.2	0	0	16.7	30.6	8.3	0	5.6	0
Virginia.....	100.0	13.8	2.0	.7	1.6	12.8	3.6	.7	16.9	11.7	8.7	7.2	11.7	8.7

**Table 11d.—Percent Distribution of First Additions to Registers by Affection, According to MRA and Each MRA State, 1970**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

State	Total	Affection											
		Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea	Cataract	Uveitis	Retrobulbar fibropapula	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiola affections	Other
MRA total.....	100.0	10.9	2.8	.8	2.1	11.8	2.9	1.2	19.2	15.9	6.1	12.4	9.3
Connecticut.....	100.0	5.8	4.0	.4	2.2	4.9	1.3	.9	17.4	25.4	6.7	9.4	10.3
Georgia.....	100.0	18.4	2.5	0	2.2	15.1	3.8	1.1	9.0	12.9	7.9	8.2	9.9
Kansas.....	100.0	8.9	.9	.6	.9	18.6	3.8	1.8	18.9	12.4	6.2	16.3	8.0
Louisiana.....	100.0	15.6	1.5	2.1	2.3	15.6	4.8	1.7	12.3	12.5	7.5	6.9	13.3
Massachusetts.....	100.0	9.5	1.4	1.0	2.0	6.7	1.3	.8	26.4	17.1	5.0	16.1	7.8
New Hampshire.....	100.0	9.4	5.9	2.4	3.5	10.6	2.4	2.4	18.8	12.9	4.7	11.8	14.1
New Jersey.....	100.0	11.4	2.4	.9	1.3	14.0	3.0	1.1	15.6	16.5	5.9	7.7	10.6
New Mexico.....	100.0	4.5	6.0	0	6.0	20.9	3.0	0	14.9	19.4	3.0	10.4	9.0
New York.....	100.0	11.0	3.9	.7	2.3	8.9	3.1	1.4	19.2	17.4	6.4	14.0	8.9
North Carolina.....	100.0	13.3	2.4	.8	2.5	21.4	1.9	.1	15.6	11.3	5.3	12.6	8.2
Oregon.....	100.0	5.5	3.0	.3	2.5	10.5	5.0	1.4	26.7	14.0	8.0	12.4	9.6
Rhode Island.....	100.0	7.5	.7	.7	2.7	6.1	1.4	1.4	25.9	26.5	4.1	12.2	8.8
South Dakota.....	100.0	10.7	0	1.3	0	8.0	2.7	0	24.0	24.0	1.3	10.7	10.7
Utah.....	100.0	3.7	2.8	0	.9	5.6	2.8	.9	37.4	18.7	5.6	10.3	3.7
Vermont.....	100.0	7.3	0	1.8	0	10.9	0	1.8	34.5	9.1	9.1	14.5	1.8
Virginia.....	100.0	10.2	3.0	.7	1.3	15.2	3.7	1.8	16.5	12.9	6.7	11.2	10.0
													6.8

**Table 12a.—Number of First Additions to Registers by Affection, Color, and Sex, MRA, 1969**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Color and sex	Total	Affection						Other retinal affection	Optic nerve atrophy	Multiple affections	Other	Unknown		
		Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibropatia	Retinal degeneration					
MRA total . . . . .	8,545	937	267	78	161	1,092	297	89	1,558	1,282	556	1,007	812	409
Male . . . . .	3,969	454	117	31	72	443	138	52	713	589	332	367	456	205
Female . . . . .	4,576	483	150	47	89	649	159	37	845	693	224	640	356	204
White. . . . .	3,877	307	101	32	59	568	113	35	851	579	244	444	341	203
Male . . . . .	1,796	143	39	9	23	236	57	21	371	287	150	169	191	100
Female . . . . .	2,081	164	62	23	36	332	56	14	480	292	94	275	150	103
Other. . . . .	1,170	264	34	14	40	176	54	4	68	145	89	104	121	57
Male . . . . .	525	130	17	9	18	64	24	1	38	43	53	33	63	32
Female . . . . .	645	134	17	5	22	112	30	3	30	102	36	71	58	25
Unknown. . . . .	3,498	366	132	32	62	348	130	50	639	558	223	459	350	149
Male . . . . .	1,648	181	61	13	31	143	57	30	304	259	129	165	202	73
Female . . . . .	1,850	185	71	19	31	205	73	20	335	299	94	294	148	76

**Table 12b.—Number of First Additions to Registers by Affection, Color, and Sex, MRA, 1970**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Color and sex	Total	Affection										Other	Multiple	Other	Unknown
		Glucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibropatia	Retinal degeneration	Optic nerve affection	Optic nerve atrophy				
MRA total . . . . .	8,353	908	231	68	173	983	241	97	1,603	1,326	513	1,037	774	399	
Male . . . . .	3,794	487	120	30	85	418	118	47	695	564	276	353	425	176	
Female . . . . .	4,559	421	111	38	88	565	123	50	908	762	237	684	349	223	
White . . . . .	3,643	269	77	23	59	490	107	35	793	590	211	424	358	207	
Male . . . . .	1,631	135	48	11	29	211	56	14	310	245	123	154	199	96	
Female . . . . .	2,012	134	29	12	30	279	51	21	483	345	88	270	159	111	
Other . . . . .	1,160	263	30	17	33	168	34	10	78	156	90	130	100	51	
Male . . . . .	531	154	16	10	14	71	11	6	43	48	44	40	56	18	
Female . . . . .	629	109	14	7	19	97	23	4	35	108	46	90	44	33	
Unknown . . . . .	3,550	376	124	28	81	325	100	52	732	580	212	483	316	141	
Male . . . . .	1,632	198	56	9	42	136	51	27	342	271	109	159	170	62	
Female . . . . .	1,918	178	68	19	39	189	49	25	390	309	103	324	146	79	

**Table 12c.—Percent Distribution of First Additions to Registers by Affection, According to Color and Sex, MRA, 1969**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Color and sex	Total	Affection						Optic neuritis	Multiple affections	Other	Unknown:
		Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrolental fibropia	Retinal degeneration		
MRA total.....	100.0	11.0	3.1	.9	1.9	12.8	3.5	1.0	18.2	15.0	6.5
Male.....	100.0	11.4	2.9	.8	1.8	11.2	3.5	1.3	18.0	14.8	8.4
Female.....	100.0	10.6	3.3	1.0	1.9	14.2	3.5	.8	18.5	15.1	4.9
White.....	100.0	7.9	2.6	.8	1.5	14.7	2.9	.9	21.9	14.9	6.3
Male.....	100.0	8.0	2.2	.5	1.3	13.1	3.2	1.2	20.7	16.0	8.4
Female.....	102.0	7.9	3.0	1.1	1.7	16.0	2.7	.7	23.1	14.0	4.5
Other.....	103.0	22.6	2.9	1.2	3.4	15.0	4.6	.3	5.8	12.4	7.6
Male.....	102.0	24.8	3.2	1.7	3.4	12.2	4.6	.2	7.2	8.2	10.1
Female.....	109.0	20.8	2.6	.8	3.4	17.4	4.7	.5	4.7	15.8	5.6
Unknown.....	100.0	10.5	3.8	.9	1.8	9.9	3.7	1.4	18.3	16.0	6.4
Male.....	100.0	11.0	3.7	.8	1.9	8.7	3.5	1.8	18.4	15.7	7.8
Female.....	100.0	10.0	3.8	1.0	1.7	11.1	3.9	1.1	18.1	16.2	5.1

**Table 12d.—Percent Distribution of First Additions to Registers by Affection, According to Color and Sex, MRA, 1970**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Color and sex	Total	Affection										Multiple affections	Other	Unknown
		Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrobulbar fibrosis	Retinal degeneration	Other retinal affection	Optic nerve atrophy			
MR-A total	100.0	10.9	2.8	.8	2.1	11.8	2.9	1.2	19.2	15.9	6.1	12.4	9.3	4.8
Male	100.0	12.8	3.2	.8	2.2	11.0	3.1	1.2	18.3	14.9	7.3	9.3	11.2	4.6
Female	100.0	9.2	2.4	.8	1.9	12.4	2.7	1.1	19.9	16.7	5.2	15.0	7.7	4.9
White	100.0	7.4	2.1	.6	1.6	13.5	2.9	1.0	21.8	16.2	5.8	11.6	9.8	5.7
Male	100.0	8.3	2.9	.7	1.8	12.9	3.4	.9	19.0	15.0	7.5	9.4	12.2	5.9
F. male	1.0	6.7	1.4	.6	1.5	13.9	2.5	1.0	24.	17.1	4.4	13.4	7.9	5.5
Other	100.0	22.7	2.6	.5	2.8	14.5	2.9	.9	6.7	13.1	7.8	11.2	8.6	4.4
Male	100.0	23.0	3.0	1.9	2.6	13.4	2.1	1.1	8.1	9.0	8.3	7.5	10.5	3.4
Female	100.0	17.3	2.2	1.1	3.0	15.4	3.7	.6	5.6	17.2	7.3	14.3	7.0	5.2
Unknown	100.0	10.6	3.5	.8	2.3	9.2	2.8	1.5	20.6	1.3	6.0	13.6	8.9	4.0
Male	100.0	12.1	3.4	.5	2.6	8.3	3.1	1.7	21.0	16.6	6.7	9.7	10.	3.
Female	100.0	9.3	1.0	2.0	9.9	2.6	1.3	20.3	16.1	5.4	16.9	7.6	4.1	

**Table 13a.—Number of First Additions to Registers by Affection and Age, MRA, 1969**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Age	Total	Affection									Other retinal affection	Optic nerve atrophy	Multiple affections	Other	Unknown
		Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrobulbar fibropapula	Retinal degeneration						
MRA total.....	8,545	937	267	78	161	1,092	297	89	1,558	1,282	556	1,007	812	409	
Under 5.....	202	0	3	1	2	33	8	14	3	13	34	0	75	16	
5-19.....	835	1	67	5	11	117	29	49	90	35	115	9	265	42	
20-44.....	1,126	41	40	12	36	87	84	22	165	184	152	26	210	67	
45-64.....	2,385	330	90	35	58	331	95	0	279	529	155	224	157	102	
65-74.....	1,256	199	35	7	22	126	38	0	238	280	36	193	34	48	
75-84.....	1,611	235	19	10	19	210	23	0	486	161	34	312	27	75	
85 and over.....	720	77	4	4	6	152	3	0	213	28	9	184	7	33	
Unknown.....	410	54	9	4	7	36	17	4	84	52	21	59	37	26	

**Table 13b.—Number of First Additions to Registers by Affection and Age, MRA, 1970**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Age	Total	Affection										Other Unknown		
		Glaucoma not congenital	Myopia	Keratitis	Other affection of cornea	Cataract	Uveitis	Retrobulbar fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy			
MRA total . . . . .	8,353	908	231	68	173	983	241	97	1,603	1,326	513	1,037	774	399
Under 5 . . . . .	192	0	4	1	3	30	0	23	5	11	20	0	84	11
5-19 . . . . .	791	5	57	5	9	106	22	53	78	54	99	7	259	37
20-44 . . . . .	1,061	34	46	16	41	59	72	17	151	190	162	33	184	56
45-64 . . . . .	2,382	317	78	27	67	318	93	1	289	555	142	226	151	118
65-74 . . . . .	1,266	200	23	10	13	140	29	0	223	264	38	221	47	58
75-84 . . . . .	1,551	229	17	6	27	167	14	0	509	162	23	307	23	67
85 and over . . . . .	733	72	1	2	6	135	6	0	238	43	10	188	7	25
Unknown . . . . .	377	51	5	1	7	28	5	3	110	47	19	55	19	27

**Table 13c.—Percent Distribution of First Additions to Registers by Affection, According to Age, MRA, 1969**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Age	Affection													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retinoblastoma; fibropapilloma	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affections	Other	Unknown
MRA total.....	100.0	11.0	3.1	.9	1.9	12.8	3.5	1.0	18.2	15.0	6.5	11.8	9.5	4.8
Under 5.....	100.0	0	1.5	.5	1.0	16.3	4.0	6.9	1.5	6.4	16.8	0	37.1	7.9
5-19.....	100.0	.1	8.0	.6	1.3	14.0	3.5	5.9	10.8	4.2	13.8	1.1	31.7	5.0
20-44.....	100.0	3.6	3.6	1.1	3.2	7.7	7.5	2.0	14.7	16.3	13.5	2.3	18.7	6.0
45-64.....	100.0	13.8	3.8	1.5	2.4	13.9	4.0	0	11.7	22.2	6.5	9.4	6.6	4.3
65-74.....	100.0	15.8	2.8	.6	1.8	10.0	3.0	0	18.9	22.3	2.9	15.4	2.7	3.8
75-84.....	100.0	14.6	1.2	.6	1.2	13.0	1.4	0	30.2	10.0	2.1	19.4	1.7	4.7
85 and over.....	100.0	10.7	.6	.6	.8	21.1	.4	0	29.6	3.9	1.2	25.6	1.0	4.6
Unknown.....	100.0	13.2	2.2	1.0	1.7	8.8	4.1	1.0	20.5	12.7	5.1	14.4	9.0	6.3

**Table 13d.—Percent Distribution of First Additions to Registers by Affection, According to Age, MRA, 1970**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Age*	Total	Affection										Multiple affections	Other	Unknown
		Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrobulbar fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy			
MRA total.....	100.0	10.9	2.8	.8	2.1	11.8	2.9	1.2	19.2	15.9	6.1	12.4	9.3	4.8
Under 5.....	100.0	0	2.1	.5	1.6	15.6	0	12.0	2.6	5.7	10.4	0	43.7	5.7
5-19.....	100.0	.6	7.2	.6	1.1	13.4	2.8	6.7	9.9	6.8	12.5	.9	32.7	4.7
20-44.....	100.0	3.2	4.3	1.5	3.9	5.6	6.8	1.6	14.2	17.9	15.3	3.1	17.3	5.3
45-64.....	100.0	13.3	3.3	1.1	2.8	13.4	3.9	0.0	12.1	23.3	6.0	9.5	6.3	5.0
65-74.....	100.0	15.8	1.8	.8	1.0	11.1	2.3	0	17.6	20.9	3.0	17.5	3.7	4.6
75-84.....	100.0	14.8	1.1	.4	1.7	10.8	.9	0	32.8	10.4	1.5	19.8	1.5	4.3
85 and over.....	100.0	9.8	.1	.3	.8	13.4	.8	0	32.5	5.9	1.4	25.6	1.0	3.4
Unknown.....	100.0	13.5	1.3	.3	1.9	7.4	1.3	.8	29.2	12.5	5.0	14.6	5.0	7.2

**Table 14a.—Number of First Additions to Registers by Visual Acuity and Affection, MRA, 1969**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Visual acuity	Total	Affection						Multiple afflictions	Other	Unknown				
		Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retinal fibropapia	Retinal degeneration	Other retinal affection	Optic nerve atrophy			
MRA total.....	8,545	937	267	78	161	1,092	297	89	1,558	1,282	556	1,007	812	409
Absolute blindness.....	549	77	2	0	12	40	22	30	23	63	63	32	131	54
Light perception.....	769	87	5	3	17	131	25	21	47	152	60	92	79	45
Light projection.....	84	5	1	1	6	12	2	0	8	16	6	15	8	4
Less than 5/200.....	1,429	132	21	12	28	207	44	6	242	295	95	203	85	60
5/200 to less than 10/200..	1,089	62	43	7	21	130	40	5	257	201	86	162	48	27
10/200 to less than 20/200.	1,264	68	43	17	18	164	56	8	301	212	70	163	90	54
20/200.....	2,277	172	122	27	43	329	81	10	472	274	112	284	250	101
Restricted field.....	794	322	20	4	9	18	16	4	183	42	40	39	63	34
Unknown.....	289	12	10	2	7	61	11	5	25	27	24	17	58	30

**Table 14b.—Number of First Additions to Registers by Visual Acuity and Affection, MRA, 1970**

(Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists)

Visual acuity	Affection										Optic nerve atrophy	Multiple afflictions	Other	Unknown
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrobulbar fibroplasia	Retinal degeneration	Other retinal affection				
MRA.....	8,353	908	231	68	173	983	241	97	1,603	1,326	513	1,037	774	399
Absolute blindness.....	453	65	0	1	11	29	8	26	12	61	63	25	101	51
Light perception.....	693	83	5	8	31	124	17	17	47	116	50	94	66	35
Light projection.....	86	10	2	2	3	15	3	1	8	14	6	13	5	4
Less than 5/200.....	1,260	118	19	12	28	161	36	6	200	322	75	174	71	38
5/200 to less than 10/200	1,094	73	36	11	13	114	40	11	240	205	65	186	69	31
10/200 to less than 20/200	1,461	83	43	12	29	153	38	9	406	229	68	168	95	68
20/200.....	2,361	144	98	19	48	308	84	19	518	314	123	322	252	112
Restricted field.....	758	320	17	1	5	30	13	4	148	44	52	46	47	31
Unknown.....	247	12	11	2	5	49	2	4	24	21	11	9	68	29

**Table 14c.—Percent Distribution of First Additions to Registers by Visual Acuity, According to Affection, MRA, 1969**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Visual acuity	Total	Affection								Other Unknown			
		Glaucoma, congenita	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrobulbar fibroplasia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affections	Other
MRA total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Absolute blindness.....	6.4	8.2	.7	0	7.5	3.7	7.4	33.7	1.5	4.9	11.3	3.2	16.1
Light perception.....	9.0	9.3	1.9	10.3	10.6	12.0	8.4	23.6	3.0	11.9	10.8	9.1	9.7
Light projection.....	1.0	.5	.4	1.3	3.7	1.1	.7	0	.5	1.2	1.1	1.5	1.0
Less than 5/200.....	16.7	14.1	7.9	15.4	17.4	19.0	14.8	6.7	15.5	23.0	17.1	20.2	10.5
5/200 to less than 10/200	12.7	5.6	16.1	9.0	13.0	11.9	13.5	5.6	16.5	15.7	15.5	16.1	5.9
10/200 to less than 20/200	14.8	7.3	16.1	21.8	11.2	15.0	18.9	9.0	19.3	16.5	12.6	16.2	11.1
20/200.....	26.6	18.4	45.7	34.6	26.7	30.1	27.3	11.2	30.3	21.4	20.1	28.2	30.8
Restricted field.....	9.3	34.4	7.5	5.1	5.6	1.6	5.4	4.5	11.7	3.3	7.2	3.9	7.8
Unknown.....	3.4	1.3	3.7	2.6	4.3	5.6	3.7	5.6	1.6	2.1	4.3	1.7	7.1
													7.3

**Table 14d.—Percent Distribution of First Additions to Registers by Visual Acuity, According to Affection, MRA, 1970**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Visual acuity	Affection													
	Total	Glaucoma, not congenital	Myopia	Keratitis	Other affection of cornea or sclera	Cataract	Uveitis	Retrobulbar fibropusia	Retinal degeneration	Other retinal affection	Optic nerve atrophy	Multiple affections	Other	Unknown
MRA total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Absolute blindness.....	5.4	7.2	0	1.5	6.4	3.0	3.3	26.8	.7	4.6	12.3	2.4	13.0	12.8
Light perception.....	8.3	9.1	2.2	11.8	17.9	12.6	7.1	17.5	2.9	8.7	9.7	9.1	8.5	8.8
Light projection.....	1.0	1.1	.9	2.9	1.7	1.5	1.2	1.0	.5	1.1	1.2	1.3	.6	1.0
Less than 5/200.....	15.1	13.0	8.2	17.6	16.2	16.4	14.9	6.2	12.5	24.3	14.6	16.8	9.2	9.5
5/200 to less than 10/200	13.1	8.0	15.6	16.2	7.5	11.6	16.6	11.3	15.0	15.5	12.7	17.9	8.9	7.8
10/200 to less than 20/200	16.8	9.1	18.6	17.6	16.8	15.6	15.8	9.3	25.3	17.3	13.3	16.2	12.3	17.0
20/200.....	28.3	15.9	42.4	27.9	27.7	31.3	34.9	19.6	32.3	23.7	24.0	31.1	32.6	28.1
Restricted field.....	9.1	35.2	7.4	1.5	2.9	3.1	5.4	4.1	9.2	3.3	10.1	4.4	6.1	7.8
Unknown.....	3.0	1.3	4.8	2.9	5.0	.8	4.1	1.5	1.6	2.1	.9	3.8	7.3	

**Table 15a.—Number of First Additions to Registers by Etiology, MRA and Each MRA State, 1969**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

State	Etiology						Multiple etiologies	Unknown to science	Not reported or determined
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration			
MRA total.....	8,545	208	260	88	1,060	2,159	216	144	1,333
Connecticut.....	349	15	8	3	54	69	14	2	64
Georgia.....	449	12	25	4	42	64	3	4	82
Kansas.....	345	6	7	4	28	127	8	5	45
Louisiana.....	428	20	21	4	34	86	4	6	86
Massachusetts.....	1,040	19	31	10	151	305	31	24	126
New Hampshire.....	93	2	2	3	13	18	5	1	22
New Jersey.....	834	25	17	15	94	185	19	15	142
New Mexico.....	47	2	2	0	1	15	0	6	6
New York.....	2,765	61	84	25	412	623	84	48	419
North Carolina.....	913	6	16	5	87	331	23	10	100
Oregon.....	360	15	12	3	34	129	8	7	60
Rhode Island.....	123	4	4	4	24	39	3	0	21
South Dakota.....	50	0	2	1	8	11	1	1	6
Utah.....	104	2	4	1	7	37	1	2	11
Vermont.....	36	1	0	1	9	12	0	3	5
Virginia.....	609	19	25	5	62	108	12	10	138

**Table 15b.—Number of First Additions to Registers by Etiology, MRA and Each MRA State, 1970**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

State	Etiology										Multiple etiologies	Unknown to science	Not reported or determined
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence				
MRA total.....	8,353	191	297	92	1,059	2,055	215	118	1,206	640	1,028	1,452	
Connecticut.....	224	3	9	4	47	44	9	5	33	9	18	43	
Georgia.....	365	8	28	3	32	57	8	4	49	21	71	84	
Kansas.....	338	8	11	4	36	116	9	3	49	30	51	41	
Louisiana.....	481	27	27	11	44	85	7	13	90	22	83	72	
Massachusetts.....	1,151	22	18	12	133	214	33	18	140	174	133	254	
New Hampshire.....	85	4	1	1	11	21	3	1	17	5	8	13	
New Jersey.....	744	26	25	11	101	167	15	10	117	33	38	141	
New Mexico.....	67	0	7	1	6	22	2	0	9	3	4	13	
New York.....	2,719	53	87	31	411	663	74	35	389	193	334	449	
North Carolina.....	833	12	24	1	67	300	19	11	79	63	117	140	
Oregon.....	363	8	20	5	39	110	11	5	65	29	23	48	
Rhode Island.....	147	5	4	1	33	42	6	1	19	9	13	14	
South Dakota.....	75	1	3	1	13	20	3	1	10	6	8	9	
Utah.....	107	1	5	0	17	43	2	2	10	3	6	18	
Vermont.....	55	1	2	0	4	19	3	2	12	4	4	4	
Virginia.....	599	12	26	6	65	132	11	7	118	36	77	109	

**Table 15c.—Percent Distribution of First Additions to Registers by Etiology, According to MRA and Each MRA State, 1969**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

State	Etiology										Multiple etiologies	Unknown to science	Not reported or determined	
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	7.0	12.1	16.9		
MRA total.....	100.0	2.4	3.0	1.0	12.4	25.3	2.5	1.7	15.6	7.0	12.1	16.9		
Connecticut.....	100.0	4.3	2.3	.9	15.5	19.8	4.0	.6	18.3	6.6	10.3	17.5		
Georgia.....	100.0	2.7	5.6	.9	9.4	14.3	.7	.9	18.3	4.2	17.1	26.1		
Kansas.....	100.0	1.7	2.0	1.2	8.1	36.8	2.3	1.4	13.0	9.3	10.7	13.3		
Louisiana.....	100.0	4.7	4.9	.9	7.9	20.1	.9	1.4	20.1	6.3	16.6	16.1		
Massachusetts.....	100.0	1.7	3.0	1.0	14.5	29.3	3.0	2.3	12.1	8.7	11.7	12.6		
New Hampshire.....	100.0	2.2	2.2	3.2	14.0	19.4	5.4	1.1	23.7	6.5	12.9	9.7		
New Jersey.....	100.0	3.0	2.0	1.8	11.3	22.2	2.3	1.8	17.0	6.4	11.6	20.6		
New Mexico.....	100.0	4.3	4.3	0	2.1	31.9	0	12.8	12.8	6.4	12.8	12.8		
New York.....	100.0	2.2	3.0	.9	14.9	22.5	3.0	1.7	15.2	7.6	11.1	17.8		
North Carolina.....	100.0	.7	1.8	.5	9.5	36.3	2.5	1.1	11.0	7.7	13.0	16.0		
Oregon.....	100.0	4.2	3.3	.8	9.4	35.8	2.2	1.9	16.7	6.4	10.3	8.9		
Rhode Island.....	100.0	3.3	3.3	.3	19.5	31.7	2.4	0	17.1	4.9	5.7	8.9		
South Dakota.....	100.0	0	4.0	2.0	16.0	22.0	2.0	2.0	12.0	6.0	20.0	14.0		
Utah.....	100.0	1.9	3.8	1.0	6.7	35.6	1.0	1.9	10.6	5.8	4.8	26.9		
Vermont.....	100.0	2.8	0	2.8	25.0	33.3	0	8.3	13.9	0	0	13.9		
Virginia.....	100.0	3.1	4.1	.8	10.2	17.7	2.0	1.6	22.7	4.3	15.3	18.2		

**Table 15d.—Percent Distribution of First Additions to Registers by Etiology, According to MRA and Each MRA State, 1970**

[Data limited to first additions examined by ophthalmologists or eye, ear, nose, throat specialists]

State	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total.....	1,0 0	2.3	3.6	1.1	12.7	24.6	2.6	1.4	14.4	7.7	12.3	17.4
Connecticut.....	100.0	1.3	4.0	1.8	21.0	19.6	4.0	2.2	14.7	4.0	8.0	19.2
Georgia.....	100.0	2.2	7.7	.8	8.8	15.6	2.2	1.1	13.4	5.8	19.5	23.0
Kansas.....	100.0	2.4	3.3	1.2	10.7	34.3	2.7	.9	14.5	8.9	9.2	12.1
Louisiana.....	100.0	5.6	5.6	2.3	9.1	17.7	1.5	2.7	18.7	4.6	17.3	15.0
Massachusetts.....	100.0	1.9	1.6	1.0	11.6	18.6	2.9	1.6	12.2	15.1	11.6	22.1
New Hampshire.....	100.0	4.7	1.2	1.2	12.9	24.7	3.5	1.2	20.0	5.9	9.4	15.3
New Jersey.....	100.0	3.5	3.4	1.5	13.6	22.4	2.0	1.3	15.7	4.4	13.2	19.0
New Mexico.....	100.0	0	10.4	1.5	9.0	32.8	3.0	0	13.4	4.5	6.0	19.4
New York.....	100.0	1.9	3.2	1.1	15.1	24.4	2.7	1.3	14.3	7.1	12.3	16.5
North Carolina.....	100.0	1.4	2.9	.1	8.0	36.0	2.3	1.3	9.5	7.6	14.0	16.6
Oregon.....	100.0	2.2	5.5	1.4	10.7	30.3	3.0	1.4	17.9	8.0	6.3	13.2
Rhode Island.....	100.0	3.4	2.7	.7	22.4	28.6	4.1	.7	12.9	6.1	8.8	9.5
South Dakota.....	100.0	1.3	4.0	1.3	17.3	26.7	4.0	1.3	13.3	8.0	10.7	12.0
Utah.....	100.0	.9	4.7	0	15.9	40.2	1.9	1.9	9.3	2.8	5.6	16.8
Vermont.....	100.0	1.8	3.6	0	7.3	34.5	5.5	3.6	21.8	7.3	7.3	7.3
Virginia.....	100.0	2.0	4.3	1.0	10.9	22.0	1.8	1.2	19.7	6.0	12.9	18.2

**Table 16a.—Number of First Additions to Registers by Etiology, Color, and Sex, MRA, 1969**

[Data limited to first additions examined by ophthalmologists or eye-nose-throat specialists]

Color and sex	Total	Infectious disease	Injury or poisoning	Neoplasm	Etiology				Multiple etiologies	Unknown to science	Not reported or determined
					Senile degeneration	Vascular disease	Other general disease	Prenatal influence			
MRA total.....	8,545	208	260	88	1,060	2,159	216	144	1,333	597	1,036
Male.....	3,969	108	186	42	410	833	118	75	727	235	502
Female.....	4,576	100	74	46	650	1,326	98	69	606	362	534
White.....	3,877	86	109	51	461	1,158	96	66	644	263	358
Male.....	1,796	39	81	25	201	439	50	38	344	109	170
Female.....	2,081	47	28	26	260	719	46	28	300	154	188
Other.....	1,170	45	51	3	131	176	16	20	158	68	278
Male.....	525	23	39	1	32	64	6	6	83	27	135
Female.....	645	22	12	2	99	112	10	14	75	41	143
Unknown.....	3,498	77	100	34	468	825	104	58	531	266	400
Male.....	1,648	46	66	16	177	330	62	31	300	99	197
Female.....	1,850	31	34	18	291	495	42	27	231	167	203

**Table 16b.—Number of First Additions to Registers by Etiology, Color, and Sex, MRA, 1970**

[Data limited to first admissions examined by ophthalmologists or eye-ear-nose-throat specialists]

Color and sex	Total	Etiology										
		Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total.....	8,353	191	297	92	1,059	2,055	215	118	1,206	640	1,028	1,452
Male.....	3,794	99	223	53	397	770	94	50	634	247	547	680
Female.....	4,559	92	74	39	662	1,285	121	68	572	393	481	772
White.....	3,643	78	121	41	449	1,036	102	55	560	272	327	602
Male.....	1,631	44	90	30	172	364	44	23	298	110	159	297
Female.....	2,012	34	31	11	277	672	58	32	262	162	168	305
Other.....	1,160	38	65	12	130	164	20	18	137	94	277	205
Male.....	531	21	51	5	23	64	9	5	68	33	163	89
Female.....	629	17	14	7	107	100	11	13	69	61	114	116
Unknown.....	3,550	75	111	39	480	855	93	45	509	274	424	645
Male.....	1,632	34	82	18	202	342	41	22	268	104	225	294
Female.....	1,918	41	29	21	278	513	52	23	241	170	199	351

**Table 16c.—Percent Distribution of First Additions to Registers by Etiology, According to Color and Sex, MRA, 1969**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Color and sex	Total	Etiology						Multiple etiologies	Unknown to science	Not reported or determined
		Infectious disease	Injury or poisoning	Neoplasia	Diabetes	Senile degeneration	Vascular disease			
MRA total.....	100.0	2.4	3.0	1.0	12.4	25.3	2.5	1.7	15.6	7.0
Male.....	100.0	2.7	4.7	1.1	10.3	21.0	3.0	1.9	18.3	5.9
Female.....	100.0	2.2	1.6	1.0	14.2	29.0	2.1	1.5	13.2	7.9
White.....	100.0	2.2	2.3	1.3	11.9	29.9	2.5	1.7	16.6	6.8
Male.....	100.0	2.2	4.5	1.4	11.2	24.4	2.8	2.1	19.2	6.1
Female.....	100.0	2.3	1.3	1.2	12.5	34.6	2.2	1.3	14.4	7.4
Other.....	100.0	3.8	4.4	.3	11.2	15.0	1.4	1.7	13.5	5.8
Male.....	100.0	4.4	7.4	.2	6.1	12.2	1.1	1.1	15.8	5.1
Female.....	100.0	3.4	1.9	.3	15.3	17.4	1.6	2.2	11.6	6.4
Unknown.....	100.0	2.2	2.9	1.0	13.4	23.6	3.0	1.7	15.2	7.6
Male.....	100.0	2.8	4.0	1.0	10.7	20.0	3.8	1.9	18.2	6.0
Female.....	100.0	1.7	1.8	1.0	15.7	26.8	2.3	1.5	12.5	9.0

**Table 16d.—Percent Distribution of First Additions to Registers by Etiology, According to Color and Sex, MRA, 1970**

[Data limited to first admissions examined by ophthalmologists or eye-ear-nose-throat specialists]

Color and sex	Total	Etiology										Unknown to science	Not reported or determined
		Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Sainte degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies			
MRA total.....	100.0	2.3	3.6	1.1	12.7	24.6	2.6	1.4	14.4	7.7	12.3	17.4	
Male.....	100.0	2.6	5.9	1.4	10.5	20.3	2.5	1.3	16.7	6.5	14.4	17.9	
Female.....	100.0	2.0	1.6	.9	14.5	28.2	2.7	1.5	12.5	8.6	10.6	16.9	
White.....	100.0	2.1	3.3	1.1	12.3	28.4	2.8	1.5	15.4	7.5	9.0	16.5	
Male.....	100.0	2.7	5.5	1.8	10.5	22.3	2.7	1.4	18.3	6.7	9.7	18.2	
Female.....	100.0	1.7	1.5	.5	13.8	33.4	2.9	1.6	13.0	8.1	8.3	15.2	
Other.....	100.0	3.3	5.6	1.0	11.2	14.1	1.7	1.6	11.8	8.1	23.9	17.7	
Male.....	100.0	4.0	9.6	.9	4.3	12.1	1.7	.9	12.8	6.2	30.7	16.8	
Female.....	100.0	2.7	2.2	1.1	17.0	15.9	1.7	2.1	11.0	9.7	18.1	18.4	
Unknown.....	100.0	2.1	3.1	1.1	13.5	24.1	2.6	1.3	14.3	7.7	11.9	18.2	
Male.....	100.0	2.1	5.0	1.1	12.4	21.0	2.5	1.3	16.4	6.4	13.8	18.0	
Female.....	100.0	2.1	1.5	1.1	14.5	26.7	2.7	1.2	12.6	8.9	10.4	18.3	

**Table 17a.—Number of First Additions to Registers by Etiology and Age, MRA, 1969**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Age	Total	Etiology						Multiple etiologies	Unknown to science	Not reported or determined
		Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease			
MRA total.....	8,545	208	260	88	1,060	2,159	216	144	1,333	597
Under 5.....	202	32	13	13	0	0	0	9	104	0
5-19.....	835	49	31	22	5	0	1	24	505	5
20-44.....	1,126	49	100	17	147	7	15	53	352	9
45-64.....	2,385	53	85	27	485	427	61	41	260	146
65-74.....	1,256	8	10	4	263	361	44	8	44	116
75-84.....	1,611	10	5	2	108	798	61	5	21	188
85 and over.....	720	3	2	0	13	451	17	0	2	95
Unknown.....	410	4	14	3	39	115	17	4	45	38
									57	74
										1,444

**Table 17b.—Number of First Additions to Registers by Etiology and Age, MRA, 1970**

[Data limited to first admissions examined by ophthalmologists or eye-ear-nose-throat specialists]

Age	Etiology										Multiple etiologies	Unknown to science	Not reported or determined
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	1,206	640	1,028	1,452
MRA total.....	8,353	191	297	92	1,059	2,055	215	118					
Under 5.....	192	23	17	9	0	0	0	7	109	0	0	0	27
5-19.....	791	56	40	31	4	0	0	12	454	6	27	161	
20-44.....	1,061	39	112	22	140	8	7	58	290	22	85	278	
45-64.....	2,382	50	92	22	516	425	72	33	245	140	341	446	
65-74.....	1,266	13	14	5	248	351	49	2	42	147	207	188	
75-84.....	1,551	6	8	1	101	727	64	3	25	185	237	194	
85 and over.....	733	2	3	0	15	445	20	0	3	98	75	72	
Unknown.....	377	2	11	2	35	99	3	3	38	42	56	86	

**Table 17c.—Percent Distribution of First Additions to Registers by Etiology, According to Age, MRA, 1969**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Age	Total	Etiology						Multiple etiologies	Unknown to science	Not reported or determined
		Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease			
MRA total.....	100.0	2.4	3.0	1.0	12.4	25.3	2.5	1.7	15.6	7.0
Under 5.....	100.0	15.8	6.4	6.4	0	0	0	4.5	51.5	0
5-19.....	100.0	5.9	3.7	2.6	.6	0	.1	2.9	60.5	.6
20-44.....	100.0	4.4	8.9	1.5	13.1	.6	1.3	4.7	31.3	.8
45-64.....	100.0	2.2	3.6	1.1	20.3	17.9	2.6	1.7	10.9	6.1
65-74.....	100.0	.6	.8	.3	20.9	28.7	3.5	.6	3.5	9.2
75-84.....	100.0	.6	.3	.1	6.7	49.5	3.8	.3	1.3	11.7
85 and over.....	100.0	.4	.3	0	1.8	62.6	2.4	0	.3	13.2
Unknown.....	100.0	1.0	3.4	.7	2.5	28.0	4.1	1.0	11.0	9.3
									13.9	18.0

**Table 17d—Percent Distribution of First Additions to Registers by Etiology, According to Age, MRA, 1970**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Age	Etiology										Not reported or determined	
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies		
MRA total .....	100.0	2.3	3.6	1.1	12.7	24.6	2.6	1.4	14.4	7.7	12.3	17.4
Under 5 .....	100.0	12.0	8.9	4.7	0	0	0	3.6	56.8	0	0	14.1
5-19.....	100.0	7.1	5.1	3.9	.5	0	0	1.5	57.4	.8	3.4	20.4
20-44.....	100.0	3.7	10.6	2.1	13.2	.8	.7	5.5	27.3	2.1	8.0	26.2
45-64.....	100.0	2.1	3.9	.9	21.7	17.8	3.0	1.4	10.3	5.9	14.3	18.7
65-74.....	100.0	1.0	1.1	.4	19.6	27.7	3.9	.2	3.3	11.6	16.4	14.8
75-84.....	100.0	.4	.5	.1	6.5	46.9	4.1	.2	1.6	11.9	15.3	12.5
85 and over .....	100.0	.3	.4	0	2.0	60.7	2.7	0	.4	13.4	10.2	9.8
Unknown.....	100.0	.5	2.9	.5	9.3	26.3	.8	.8	10.1	11.1	14.9	22.8

**Table 18a.—Number of First Additions to Registers by Visual Acuity and Etiology, MRA, 1969**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Visual acuity	Etiology							Multiple etiologies	Unknown to science	Not reported or determined
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease			
MRA total.....	8,545	208	260	88	1,060	2,159	216	144	1,333	597
Absolute blindness.....	549	8	64	21	32	21	20	13	108	26
Light perception.....	769	23	44	9	119	134	23	14	94	59
Light projection.....	84	3	7	0	14	16	4	1	12	8
Less than 5/200.....	1,430	31	41	10	255	431	43	21	122	120
5/200 to less than 10/200 .....	1,089	22	26	8	175	364	25	19	117	81
10/200 to less than 20/200 .....	1,264	37	26	8	170	419	28	20	167	97
20/200.....	2,277	49	31	9	247	687	36	32	445	163
Restricted field.....	794	14	14	18	24	46	31	11	185	32
Unknown.....	289	21	7	5	20	41	6	13	83	11
									14	68

**Table 18b.—Number of First Additions to Registers by Visual Acuity and Etiology, MRA, 1970**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Visual acuity	Etiology									
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes degeneration	Serite disease	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies
M.R.A total.....	8,353	191	297	92	1,059	2,055	215	118	1,206	640
Absolute blindness.....	453	16	65	21	33	14	24	6	80	20
Light perception.....	693	23	54	6	100	122	16	8	85	61
Light projection.....	86	2	5	0	16	17	0	3	10	5
Less than 5/200.....	1,260	28	43	17	269	335	45	15	77	110
5/200 to less than 10/200.....	1,094	23	29	12	183	321	28	15	113	103
10/200 to less than 20/200.....	1,401	25	32	8	179	481	31	19	181	104
20/200.....	2,361	43	40	11	242	684	40	33	417	197
Restricted field.....	758	6	19	13	28	46	26	15	150	35
Unknown.....	247	25	10	4	9	35	5	4	93	5
										15
										42

**Table 18c.—Percent Distribution of First Additions to Registers by Visual Acuity, According to Etiology, MRA, 1969**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Visual acuity	Etiology						Unknown to science	Not reported or determined
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration		
MRA total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Absolute blindness.....	6.4	3.8	24.6	23.9	3.0	1.0	9.3	9.0
Light perception.....	9.0	11.1	16.9	10.2	11.2	6.2	10.6	9.7
Light projection.....	1.0	1.4	2.7	0	1.3	.7	1.9	.7
Less than 5/200.....	16.7	14.9	15.8	11.4	24.1	20.0	19.9	14.6
5/200 to less than 10/200.....	12.7	10.6	10.0	9.1	16.9	16.9	11.6	13.2
10/200 to less than 20/200.....	14.8	17.8	10.0	9.1	16.0	19.4	13.0	13.9
20/200.....	26.6	23.6	11.9	10.2	23.3	31.8	16.7	22.2
Restricted field.....	9.3	6.7	5.4	20.5	2.3	2.1	14.4	7.6
Unknown.....	3.4	10.1	2.7	5.7	1.9	1.9	2.8	9.0
							6.2	1.8
							1.4	4.7

**Table 18d.—Percent Distribution of First Additions to Registers by Visual Acuity, According to Etiology, MRA, 1970**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Visual acuity	Etiology											
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence	Multiple etiologies	Unknown to science	Not reported or determined
MRA total . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Absolute blindness . . . . .	5.4	8.4	21.9	22.8	3.1	.7	11.2	5.1	6.6	3.1	6.4	7.4
Light perception . . . . .	8.3	12.0	18.2	6.5	9.4	5.9	7.4	6.8	7.0	9.5	8.2	9.2
Light projection . . . . .	1.0	1.0	1.7	0	1.5	.8	0	2.5	.8	.8	1.1	1.2
Less than 5/200 . . . . .	15.1	14.7	14.5	18.5	25.4	16.3	20.9	12.7	6.4	17.2	12.7	15.1
5/200 to less than 10/200 . . . . .	13.1	12.0	9.8	13.0	17.3	15.6	13.0	12.7	9.4	16.1	8.8	12.2
10/200 to less than 20/200 . . . . .	16.8	13.1	10.8	8.7	16.9	23.4	14.4	16.1	15.0	16.2	10.7	15.9
20/200 . . . . .	28.3	22.5	13.5	12.0	22.9	33.3	18.6	28.0	34.6	30.8	18.9	31.7
Restricted field . . . . .	9.1	3.1	6.4	14.1	2.6	2.2	12.1	12.7	12.4	5.5	31.8	6.4
Unknown . . . . .	3.0	13.1	3.4	4.3	.8	1.7	2.3	3.4	7.7	.8	1.5	2.9

**Table 19a.—Number of First Additions to Registers by Affection and Etiology, MRA, 1969**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Affection	Total	Etiology						Multiple etiologies	Unknown to science	Not reported or determined
		Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease			
MRA total.....	8,545	208	260	88	1,060	2,159	216	144	1,333	597
Glaucoma, not congenital.....	937	0	0	0	0	0	0	0	0	937
Myopia.....	267	0	0	0	0	0	0	82	0	0
Keratitis.....	78	53	1	0	0	0	0	3	3	17
Other affection of cornea or sclera	161	0	29	0	0	19	0	9	21	0
Cataract.....	1,092	38	7	0	0	1,786	0	1	190	0
Uveitis.....	297	60	7	0	0	0	0	17	14	0
Retrolental fibroplasia.....	89	0	18	0	0	0	0	0	0	1
Retinal degeneration.....	1,558	0	12	0	0	1,065	0	0	392	0
Other retinal affection.....	1,282	3	11	15	908	56	100	7	34	0
Optic nerve atrophy.....	556	20	62	44	4	0	31	66	98	0
Multiple afflictions.....	1,007	3	0	0	131	231	0	1	597	0
Other.....	812	25	97	27	0	0	67	34	475	0
Unknown.....	409	6	16	2	17	2	18	6	24	0
									0	318

<sup>1</sup> Includes 77 cases of senile-type cataract in diabetic persons.

**Table 19b.—Number of First Additions to Registers by Affection and Etiology, MRA, 1970**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Affection	Etiology								Unknown to or reported scarce	Not reported or determined		
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence			
MRA total.....	8,353	191	297	92	1,059	2,055	215	118	1,206	640	1,028	1,452
Glaucoma, not congenital.....	908	0	0	0	0	0	0	0	0	0	908	0
Myopia.....	231	0	0	0	0	0	0	0	73	0	0	158
Keratitis.....	68	56	2	0	0	0	0	2	1	0	1	6
Other affection of cornea or sclera.....	173	0	35	1	0	21	0	6	19	0	40	51
Cataract.....	983	45	11	0	0	1,713	0	1	141	0	0	72
Uveitis.....	241	34	9	0	0	0	0	8	14	0	8	168
Retroorbital fibroplasia.....	97	0	35	0	0	0	0	0	0	0	0	62
Retinal degeneration.....	1,603	0	7	0	0	1,053	0	0	353	0	54	136
Other retinal affection.....	1,326	5	14	18	926	51	104	6	44	0	16	142
Optic nerve atrophy.....	513	18	77	55	3	0	34	65	69	0	0	132
Multiple afflictions.....	1,037	1	1	1	120	213	0	0	2	640	0	59
Other.....	774	28	96	16	0	0	61	25	465	0	1	82
Unknown.....	399	4	10	1	10	4	16	5	25	0	0	324

<sup>1</sup> Includes 77 cases of senile-type cataract in diabetic persons.

**Table 19c.—Percent of First Additions to Registers by Affection and Etiology, MRA, 1969**

[Data limited to first additions examined by ophthalmologists or eye-nose-throat specialists]

Affection	Total	Etiology						Multiple etiologies	Unknown to science	Not reported or determined
		Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease			
MRA total.....	100.0	2.4	3.0	1.0	12.4	25.3	2.5	1.7	15.6	7.0
Glaucoma, not congenital.....	11.0	0	0	0	0	0	0	0	0	11.0
Myopia.....	3.1	0	0	0	0	0	0	1.0	0	0
Keratitis.....	.9	.6	0.0	0	0	0	0	0.0	0	2.2
Other affection of cornea or sclera	1.9	0	.3	0	0	.2	0	.1	.2	.2
Cataract.....	12.8	.4	.1	0	0	9.2	0	0	.2	.6
Uveitis.....	3.5	.7	.1	0	0	0	.2	.2	0	.8
Retroental fibroplasia.....	1.0	0	.2	0	0	0	0	0	0	2.3
Retinal degeneration.....	3.2	0	.1	0	0	12.5	0	0	4.6	.4
Other retinal affection.....	15.0	0.0	.1	.2	10.6	.7	1.2	.1	.4	.1
Optic nerve atrophy.....	6.5	.2	.7	.5	0	0	.4	.8	1.1	1.6
Multiple affections.....	11.8	0	0	0	1.5	2.7	0	0	7.0	2.7
Other.....	9.5	.3	1.1	.3	0	0	.8	.4	5.6	.5
Unknown.....	4.8	.1	.2	0	.2	0	.2	.1	.3	1.0

**Table 19d.—Percent of First Additions to Registers by Affection and Etiology, MRA, 1970**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists]

Affection	Total	Etiology								Unknown to or determined		
		Infectious disease	Injury or poisoning	Ophthal-	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence			
MRA total	100.0	2.3	3.6	1.1	12.7	24.6	2.6	1.4	14.4	7.7	12.3	17.4
Glaucoma, not congenital	10.9	0	0	0	0	0	0	0	0	0	10.9	0
Myopia	2.8	0	0	0	0	0	0	0	0	.9	0	1.9
Keratitis	.8	.7	0.0	0	0	0	0	0	0	0	0	.1
Other affection of cornea or sclera	2.1	0	.4	0.0	0	0	.3	0	.1	.2	0	.5
Cataract	11.8	.5	.1	0	0	0	8.5	0	0	1.7	0	.9
Uveitis	2.9	.4	.1	0	0	0	0	.1	.2	0	.1	2.0
Retrolental fibroplasia	1.2	0	.4	0	0	0	0	0	0	0	0	.7
Retinal degeneration	19.2	0	.1	0	0	12.6	0	0	4.2	0	.6	1.6
Other retinal affection	15.9	.1	.2	.2	11.1	.6	1.2	.1	.5	0	.2	1.7
Optic nerve atrophy	6.1	.2	.9	.7	0	0	.4	.8	.6	0	0	2.3
Multiple affections	12.4	0	0	0	1.4	2.5	0	0	0	7.7	0	.7
Other	9.3	.3	1.1	.2	0	0	.7	.3	5.6	0	0	1.0
Unknown	4.8	0	.1	0	.1	0	.2	.1	.3	0	0	3.9

**Table 20a.—Number of First Additions to Registers with Multiple Affections by Etiology and Type of Multiple Affection, MRA, 1969**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists. Column totals are not additive because multiple affection types are not mutually exclusive]

Type of multiple affection	Total	Etiology						Multiple etiologies	Unknown to science	Not reported or determined		
		Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease					
MRA total . . . . .	1,007	3	0	0	131	231	0	1	0	597	0	44
Glaucoma and other 1 . . . . .	401	0	0	0	0	0	0	0	0	401	0	0
Cataract and other 1 . . . . .	735	0	0	0	131	230	0	1	0	356	0	17
Retinal affection and other with diabetic etiology 1 . . . . .	166	0	0	0	131	0	0	0	0	35	0	0
Retinal affection and other without diabetic etiology 1 . . . . .	417	0	0	0	0	216	0	0	0	190	0	11
Degenerative myopia and other . . . . .	71	0	0	0	0	0	0	0	0	58	0	13
Other . . . . .	16	3	0	0	0	0	0	0	0	8	0	5

<sup>1</sup> Excludes degenerative myopia and other.

**Table 20b.—Number of First Additions to Registers with Multiple Affections by Etiology and Type of Multiple Affection, MRA, 1970**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists. Column totals are not additive because multiple affection types are not mutually exclusive]

Type of multiple affection	Total	Etiology								Unknown to science	Not reported or determined	
		Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease	Prenatal influence			
MR A total . . . . .	1,037	1	1	1	120	213	0	0	2	640	0	59
Glaucoma and other <sup>1</sup> . . . . .	401	0	0	0	0	0	0	0	0	401	0	0
Cataract and other <sup>1</sup> . . . . .	733	0	1	0	120	212	0	0	0	372	0	28
Retinal affection and other with diabetic etiology <sup>1</sup> . . . . .	177	0	0	0	119	0	0	0	0	58	0	0
Retinal affection and other without diabetic etiology <sup>1</sup> . . . . .	417	0	0	1	0	199	0	0	2	200	0	15
Degenerative myopia and other . . . . .	64	0	0	0	0	0	0	0	0	49	0	15
Other . . . . .	24	1	0	0	0	0	0	0	0	14	0	9

<sup>1</sup> Excludes degenerative myopia and other.

**Table 20c.—Percent of First Additions to Registers with Multiple Affections by Etiology and Type of Multiple Affection, MRA, 1969**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists. Column totals are not additive because multiple affection types are not mutually exclusive]

Type of multiple affection	Etiology						Not reported or determined			
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration				
MRA total.....	11.8	0.0	0	1.5	2.7	0	0	0	7.0	0
Glaucoma and other .....	4.7	0	0	0	0	0	0	0	4.7	0
Cataract and other 1.....	8.6	0	0	0	1.5	2.7	0	0	4.2	0
Retinal affection and other with diabetic etiology 1.....	1.9	0	0	0	1.5	0	0	0	.4	0
Retinal affection and other without diabetic etiology 1.....	4.9	0	0	0	2.5	0	0	0	2.2	0
Degenerative myopia and other .....	.8	0	0	0	0	0	0	0	.7	0
Other.....	.2	0	0	0	0	0	0	.1	0	.1

<sup>1</sup> Excludes degenerative myopia and otitis.

**Table 20d.—Percent of First Additions to Registers with Multiple Affections by Etiology and Type of Multiple Affection, MRA, 1970**

[Data limited to first additions examined by ophthalmologists or eye-ear-nose-throat specialists. Column totals are not additive because multiple affection types are not mutually exclusive]

Type of multiple affection	Etiology								Multiple etiology	Unknown in science	Not reported or determined	
	Total	Infectious disease	Injury or poisoning	Neoplasm	Diabetes	Senile degeneration	Vascular disease	Other general disease				
M.R.A. total	12.4	0	0	0	1.4	2.5	0	0	0	7.7	0	.7
Glaucoma and other <sup>1</sup>	4.8	0	0	0	0	0	0	0	0	4.8	0	0
Cataract and other <sup>1</sup>	8.8	0	0	0	1.4	2.5	0	0	0	4.5	0	.3
Retinal affection and other with diabetic etiology <sup>1</sup>	2.1	0	0	0	1.4	0	0	0	0	.7	0	0
Retinal affection and other without diabetic etiology <sup>1</sup>	5.0	0	0	0	0	2.4	0	0	0	2.4	0	.2
Degenerative myopia and other	.8	0	0	0	0	0	0	0	0	0	0	.2
Other	.3	0	0	0	0	0	0	0	0	.2	0	.1

<sup>1</sup>Excludes degenerative myopia and other.

**Table 21a.—Number of Removals from Registers by Reason, MRA and Each MRA State, 1969**

State	Reason for removal						Other
	Total	Death	Left State	Sight restored	Unable to locate		
MRA total.....	7,744	5,280	848	691	653		272
Connecticut.....	276	192	48	24	9		3
Georgia.....	204	142	20	17	20		5
Kansas.....	375	229	58	62	5		21
Louisiana.....	370	215	33	101	14		7
Massachusetts.....	1,290	1,053	139	60	11		27
New Hampshire.....	95	76	15	3	1		0
New Jersey.....	1,086	634	88	130	226		8
New Mexico.....	739	362	48	40	293		26
New York.....	1,179	892	99	68	12		108
North Carolina.....	1,127	821	116	99	45		43
Oregon.....	283	183	48	36	11		5
Rhode Island.....	90	70	9	9	2		0
South Dakota.....	49	27	4	6	0		12
Utah.....	108	87	18	3	0		0
Vermont.....	83	56	11	10	1		5
Virginia.....	360	241	94	23	0		2

**Table 21b.—Number of Removals from Registers by Reason, MRA and Each MRA State, 1970**

State	Reason for removal					Other
	Total	Death	Left State	Sight restored	Unable to locate	
MRA total.....	5,641	3,624	537	600	775	105
Connecticut.....	246	174	27	32	9	4
Georgia.....	154	83	10	24	33	4
Kansas.....	324	185	55	66	11	7
Louisiana.....	309	208	29	67	4	1
Massachusetts.....	859	722	75	46	2	14
New Hampshire.....	58	43	11	4	0	0
New Jersey.....	762	211	78	98	368	7
New Mexico.....	325	115	14	6	183	7
New York.....	1,007	840	77	74	0	16
North Carolina.....	515	387	25	79	20	4
Oregon.....	265	174	45	39	0	7
Rhode Island.....	82	55	7	4	0	16
South Dakota.....	60	51	2	3	0	4
Utah.....	139	125	13	1	0	0
Vermont.....	57	45	6	5	1	0
Virginia.....	479	206	63	52	144	14

**Table 21c.—Percent Distribution of Removals from Registers by Reason, According to MRA and Each MRA State, 1969**

State	Total	Death	Reason for removal			Other
			Left State	Sight restored	Unable to locate	
MRA total.....	100.0	68.2	11.0	8.9	8.4	3.5
Connecticut.....	100.0	69.6	17.4	8.7	3.3	1.1
Georgia.....	100.0	69.6	9.8	8.3	9.8	2.5
Kansas.....	100.0	61.1	15.5	16.5	1.3	5.6
Louisiana.....	100.0	58.1	8.9	27.3	3.8	1.9
Massachusetts.....	100.0	81.6	10.8	4.7	.9	2.1
New Hampshire.....	100.0	80.0	15.8	3.2	1.1	0
New Jersey.....	100.0	58.4	8.1	12.0	20.8	.7
New Mexico.....	100.0	47.1	6.2	5.2	38.1	3.4
New York.....	100.0	75.7	8.4	5.8	1.0	9.2
North Carolina.....	100.0	72.8	10.3	8.8	4.3	3.8
Oregon.....	100.0	64.7	17.0	12.7	3.9	1.8
Rhode Island.....	100.0	77.8	10.0	10.0	2.2	0
South Dakota.....	100.0	55.1	8.2	12.2	0	24.5
Utah.....	100.0	80.6	16.7	2.8	0	0
Vermont.....	100.0	67.5	13.3	12.0	1.2	6.0
Virginia.....	100.0	66.9	26.1	6.4	0	.6

**Table 21d.—Percent Distribution of Removals from Registers by Reason, According to MRA and Each MRA State, 1970**

State	Reason for removal				
	Total	Death	Left State	Sight restored	Unable to locate
MRA total.....	100.0	64.2	9.5	10.6	13.7
Connecticut.....	100.0	70.7	11.0	13.0	3.7
Georgia.....	100.0	53.9	6.5	15.6	21.4
Kansas.....	100.0	57.1	17.0	20.4	3.4
Louisiana.....	100.0	67.3	9.4	21.7	1.3
Massachusetts.....	100.0	84.1	8.7	5.4	.2
New Hampshire.....	100.0	74.1	19.0	6.9	0
New Jersey.....	100.0	27.7	10.2	12.9	48.3
New Mexico.....	100.0	35.4	4.3	1.2	56.3
New York.....	100.0	83.4	7.6	7.3	0
North Carolina.....	100.0	75.1	4.9	15.3	3.9
Oregon.....	100.0	65.7	17.0	14.7	0
Rhode Island.....	100.0	67.1	8.5	4.9	0
South Dakota.....	100.0	85.0	3.3	5.0	0
Utah.....	100.0	89.9	9.4	.7	0
Vermont.....	100.0	78.9	10.5	8.8	1.8
Virginia.....	100.0	43.0	13.2	10.9	30.1

**Table 22a.—Number of Persons on Registers by Age, Color, and Sex, MRA, as of December 31, 1969**

Color and sex	Total	Under 5	5-19	20-44	45-64	65-74	75-84	85 and over	Age	
									Male	Female
MRA total.....	95,553	561	9,212	15,276	25,403	15,814	15,357	10,869	3,061	
Male.....	46,272	304	5,141	8,887	13,542	7,442	5,970	3,738	1,248	
Female.....	49,281	257	4,071	6,389	11,861	8,372	5,387	7,131	1,813	
White.....	46,442	261	4,580	7,864	11,973	7,140	7,752	5,926	946	
Male.....	22,515	147	2,546	4,624	6,638	3,349	2,807	2,053	381	
Female.....	23,927	114	2,034	3,240	5,365	3,791	4,945	3,873	565	
Other.....	14,631	79	1,174	2,534	5,235	2,971	1,694	841	103	
Male.....	7,204	45	653	1,384	2,642	1,391	26	313	50	
Female.....	7,427	34	521	1,150	2,593	1,580	968	528	53	
Unknown.....	34,480	221	3,453	4,678	8,195	5,703	5,911	4,102	2,012	
Male.....	16,553	112	1,942	2,879	4,292	2,702	2,437	1,372	817	
Female.....	17,927	109	1,516	1,999	3,903	3,001	3,474	2,730	1,195	

**Table 22b.—Number of Persons on Registers by Age, Color, and Sex, MRA, as of December 31, 1970**

Color and sex	Age						Age
	Total	Under 5	5-19	20-44	45-64	65-74	
MRA total	99,347	518	9,153	16,346	25,785	16,518	16,399
Male	47,942	261	5,125	9,578	13,531	7,699	6,685
Female	51,405	257	4,028	6,768	12,254	8,819	9,714
White	47,262	240	4,464	8,454	11,907	7,266	8,087
Male	22,834	121	2,496	5,055	6,415	3,389	3,099
Female	24,428	119	1,968	3,399	5,492	3,877	4,988
Other	15,130	85	1,190	2,614	5,305	3,141	1,798
Male	7,413	44	662	1,443	2,638	1,457	791
Female	7,717	41	528	1,171	2,667	1,684	1,007
Unknown	36,955	193	3,499	5,278	8,573	6,111	6,514
Male	17,695	96	1,967	3,080	4,478	2,853	2,795
Female	19,260	97	1,532	2,198	4,095	3,258	3,719

**Table 22c.—Rate of Persons on Registers by Age, Color, and Sex, MRA, as of December 31, 1969**

[Rate per 100,000 population. Rates for white and other exclude New York State]

Color and sex	Total	Age				85 and over
		Under 5	5-19	20-44	45-64	
MRA total.....	157.2	10.9	52.4	78.7	199.8	425.6
Male.....	157.2	11.6	57.6	94.3	224.5	468.9
Female.....	157.2	10.2	47.1	63.9	177.6	393.2
White.....	126.4	(1)	43.5	66.3	154.3	323.1
Male.....	125.5	(1)	47.4	78.9	177.7	355.1
Female.....	127.2	(1)	39.4	54.0	132.7	299.2
Other.....	246.9	(1)	55.1	141.6	554.6	1,096.3
Male.....	254.2	(1)	61.3	166.7	604.6	1,188.9
Female.....	240.1	(1)	49.0	119.8	511.4	1,032.7

<sup>1</sup> Not computed because color was unknown for more than 10 percent of persons of this age on MRA registers.

<sup>2</sup> Not computed because the estimated MRA population in 1969 was less than 25,000 for this age, color, and sex.

**Table 22d.—Rate of Persons on Registers by Age, Color, and Sex, MRA, as of December 31, 1970**

[Rate per 100,000 population. Rates for white and other exclude New York State]

Color and sex	Age							
	Total	Under 5	5-19	20-44	45-64	65-74	75-84	85 and over
MRA total . . . . .	161.7	10.0	51.5	83.3	200.7	439.9	908.0	2,621.1
Male . . . . .	161.2	9.9	56.8	100.6	221.9	480.0	956.4	2,503.3
Female . . . . .	162.3	10.1	46.1	67.0	181.5	410.0	877.5	2,684.0
White . . . . .	127.1	(1)	41.9	70.4	151.7	325.1	725.3	2,174.7
Male . . . . .	125.8	(1)	45.9	85.2	170.5	355.6	727.5	2,050.5
Female . . . . .	128.4	(1)	37.7	56.0	134.3	302.7	723.9	2,238.9
Other . . . . .	252.7	(1)	55.3	144.5	556.1	1,150.6	1,649.5	2,709.1
Male . . . . .	258.9	(1)	61.5	172.2	596.8	1,224.4	1,757.8	(2)
Female . . . . .	246.9	(1)	40.1	120.6	519.9	1,093.5	1,598.4	(2)

<sup>1</sup> Not computed because color was unknown for more than 10 percent of persons of this age on MRA registers.

<sup>2</sup> Not computed because the estimated MRA population in 1970 was less than 25,000 for this age, color, and sex.

**Table 23a.—Number of Persons on Registers by Color and Sex, MRA and Each MRA State, as of December 31, 1969**

State	MRA total			White			Color and sex			Unknown			
	MRA total		Female	Total	Male	Female	Other		Male	Female	Total	Male	Female
	Total	Male					Total	Male					
MRA total.....	95,553	46,272	49,281	46,442	22,515	23,927	14,631	7,204	7,427	34,480	16,553	17,927	
Connecticut.....	3,741	1,763	1,978	3,439	1,608	1,831	283	143	-	140	19	12	7
Georgia.....	5,809	2,940	2,869	2,689	1,417	1,272	2,669	1,274	1,395	451	249	202	
Kansas.....	2,980	1,350	1,590	2,634	1,206	1,428	300	166	140	46	24	22	
Louisiana.....	6,572	3,546	3,026	3,464	1,874	1,590	3,048	1,650	1,398	60	22	38	
Massachusetts.....	10,660	4,795	5,865	9,335	4,234	5,101	347	163	184	978	398	580	
New Hampshire.....	1,152	553	599	1,142	547	595	7	4	3	2	2	1	
New Jersey.....	8,088	3,921	4,167	5,978	2,888	3,090	1,312	621	691	798	412	386	
New Mexico.....	1,822	1,003	819	1,663	912	751	152	88	64	7	3	4	
New York.....	31,457	15,139	16,318	(1)	(1)	(1)	(1)	(1)	(1)	31,457	15,139	16,318	
North Carolina.....	10,532	4,934	5,598	6,170	2,970	3,200	4,351	1,957	2,394	11	7	4	
Oregon.....	2,799	1,354	1,445	2,589	1,248	1,341	77	46	31	133	60	73	
Rhode Island.....	1,175	557	618	1,103	530	573	44	15	29	28	12	16	
South Dakota.....	923	473	450	740	368	372	171	100	71	12	5	7	
Utah.....	1,353	612	741	1,327	593	734	26	19	7	0	0	0	
Vermont.....	690	308	382	687	306	381	3	2	1	0	0	0	
Virginia.....	5,800	2,984	2,816	3,482	1,814	1,668	1,841	962	879	477	208	269	

<sup>1</sup> Not available.

**Table 23b.—Number of Persons on Registers by Color and Sex, MRA and Each MRA State, as of December 31, 1970**

State	Color and sex											
	MRA total			White			Other			Unknown		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
MRA total	99,347	47,942	51,405	47,262	22,834	24,428	15,130	7,413	7,717	36,955	17,695	19,260
Connecticut	3,766	1,768	1,998	3,440	1,604	1,836	308	153	155	18	11	7
Georgia	6,075	3,057	3,018	2,783	1,463	1,320	2,804	1,323	1,481	488	271	217
Kansas	3,056	1,431	1,625	2,692	1,242	1,450	300	160	140	64	29	35
Louisiana	6,811	3,666	3,145	3,571	1,911	1,660	3,163	1,724	1,439	77	31	46
Massachusetts	11,193	5,102	6,091	9,412	4,293	5,119	345	159	186	1,436	650	786
New Hampshire	1,199	576	623	1,190	570	620	6	4	2	3	2	1
New Jersey	8,201	3,965	4,236	6,037	2,918	3,119	1,328	632	696	836	415	421
New Mexico	1,576	850	726	1,423	767	656	137	77	60	16	6	10
New York	33,246	15,931	17,315	(1)	(1)	(1)	(1)	(1)	(1)	33,246	15,931	17,315
North Carolina	10,997	5,125	5,872	6,462	3,100	3,362	4,522	2,018	2,504	13	7	6
Oregon	2,953	1,433	1,520	2,635	1,269	1,366	86	51	35	232	113	119
Rhode Island	1,248	578	670	1,174	549	625	45	15	30	29	14	15
South Dakota	971	487	484	788	382	406	166	97	69	17	8	9
Utah	1,340	609	731	1,315	590	725	25	19	6	0	0	0
Vermont	701	313	388	697	310	387	4	3	1	0	0	0
Virginia	6,014	3,051	2,963	3,643	1,866	1,777	1,891	978	913	480	207	273

<sup>1</sup> Not available.

**Table 23c.—Rate of Persons on Registers by Color and Sex, MRA and Each MRA State, as of December 31, 1969**

(Rate per 100,000 population. MRA total rates for white and other exclude New York State)

State	MRA total			Color and sex			Other	
	Total	Male	Female	White		Male		
				Total	Male	Female		
MRA total.....	157.2	157.2	157.2	126.4	125.5	127.2	246.9	
Connecticut.....	124.7	121.2	128.0	122.6	118.0	126.9	145.9	
Georgia.....	127.6	132.9	122.7	80.0	85.7	74.4	224.7	
Kansas.....	133.3	126.8	139.5	124.7	116.5	132.6	241.9	
Louisiana.....	181.6	201.4	162.9	137.1	150.9	123.8	278.9	
Massachusetts.....	188.7	177.5	198.9	171.6	162.8	179.7	165.2	
New Hampshire.....	159.1	156.2	161.9	158.6	155.4	161.7	(1)	
New Jersey.....	114.0	114.2	113.8	95.1	94.7	95.5	162.0	
New Mexico.....	180.2	201.4	159.6	182.5	202.7	162.9	162.1	
New York.....	173.7	175.0	172.6	(2)	(2)	(2)	161.8	
North Carolina.....	209.3	200.3	218.0	159.7	156.2	163.2	152.0	
Oregon.....	135.7	134.1	137.4	129.2	127.2	131.1	(2)	
Rhode Island.....	126.1	121.9	130.1	122.4	120.2	124.6	372.5	
South Dakota.....	138.2	142.9	133.5	116.9	117.2	116.6	488.6	
Utah.....	129.2	118.4	139.8	130.1	117.9	142.0	141.9	
Vermont.....	157.9	143.9	171.3	157.9	143.7	170.9	(1)	
Virginia.....	125.7	130.9	120.7	93.3	98.0	88.6	209.2	
							224.2	
							194.9	

<sup>1</sup> Not computed because the estimated State population in 1969 was less than 25,000 for this color and sex.  
<sup>2</sup> Not computed because color was unknown for more than 10 percent of persons on the State register.

**Table 23d.—Rate of Persons on Registers by Color and Sex, MRA and Each MRA State, as of December 31, 1970**

[Rate per 100,000 population. MRA total rates for white and other exclude New York State]

State	MRA total			Color and sex		
	Total	Male	Female	Total	Male	Female
MRA total	161.7	161.2	162.3	127.1	125.8	128.4
Connecticut	123.9	119.9	127.7	121.0	116.1	125.6
Georgia	132.0	136.7	127.6	81.9	87.6	76.3
Kansas	135.9	129.9	141.8	126.8	119.4	133.9
Louisiana	186.9	206.8	168.1	140.4	152.8	128.4
Massachusetts	196.4	187.3	204.7	(1)	(1)	(1)
New Hampshire	161.6	158.7	164.4	161.5	158.3	164.5
New Jersey	114.0	113.9	114.0	(1)	(1)	(1)
New Mexico	154.8	169.3	140.7	155.0	169.3	141.1
New York	182.1	182.6	181.6	(1)	(1)	(1)
North Carolina	216.0	205.6	226.0	165.3	161.1	169.5
Oregon	140.5	139.3	141.7	129.0	126.9	131.0
Rhode Island	131.2	124.0	138.1	127.7	122.0	133.3
South Dakota	145.8	147.6	144.0	124.9	122.0	127.7
Utah	125.4	115.3	135.1	126.3	114.8	137.3
Vermont	156.8	143.6	169.4	156.6	142.2	169.7
Virginia	129.2	132.7	125.9	96.8	99.9	93.6
				213.0	225.9	209.7

<sup>1</sup> Not computed because color was unknown for more than 10 percent of persons on the State register.

<sup>2</sup> Not computed because the estimated State population in 1970 was less than 25,000 for this color and sex.

**Table 24a.—Number of Persons on Registers by Age, MRA and Each MRA State, as of December 31, 1969**

State	Total	Age						Unknown
		Under 5	5-19	20-44	45-64	65-74	75-84	
MRA total.....	95,553	561	9,212	15,276	25,403	15,814	15,357	10,869
Connecticut.....	3,741	37	541	627	370	520	638	476
Georgia.....	5,805	2	349	1,206	2,531	970	393	133
Kansas.....	2,980	20	270	409	689	457	622	495
Louisiana.....	6,572	45	602	1,132	2,242	1,292	757	390
Massachusetts.....	10,660	54	907	1,499	2,385	1,785	1,848	1,672
New Hampshire.....	1,152	11	149	169	232	161	199	186
New Jersey.....	8,088	91	1,035	1,350	2,198	1,274	1,156	777
New Mexico.....	1,822	5	88	252	318	263	363	320
New York.....	31,457	155	2,979	4,667	7,718	5,370	5,559	3,811
North Carolina.....	10,532	41	922	1,791	2,955	1,839	1,804	1,175
Oregon.....	2,799	42	290	434	616	403	577	409
Rhode Island.....	1,175	13	132	219	320	217	165	91
South Dakota.....	923	2	80	136	194	172	175	147
Utah.....	1,353	6	120	214	242	153	323	292
Vermont.....	690	3	64	115	176	115	120	94
Virginia.....	5,800	34	684	1,056	1,717	823	658	401

Table 24b.—Number of Persons on Registers by Age, MRA and Each MRA State, as of December 31, 1970

State	Age								
	Total	Under 5	5-19	20-44	45-64	65-74	75-84	85 and over	Unknown
<b>MRA total</b> .....									
Connecticut.....	99,347	518	9,153	16,346	25,785	16,518	16,399	11,533	3,095
Georgia.....	3,766	33	510	663	871	524	649	487	29
Kansas.....	6,075	1	345	1,243	2,592	1,083	428	150	233
Louisiana.....	3,056	22	270	424	703	474	519	515	29
Massachusetts.....	6,811	50	634	1,184	2,264	1,325	808	428	118
New Hampshire.....	11,193	51	879	1,869	2,104	1,875	2,278	1,498	639
New Jersey.....	1,199	14	146	187	242	171	186	199	54
New Mexico.....	8,201	94	1,025	1,438	2,239	1,287	1,153	793	172
New York.....	1,576	3	76	235	303	228	314	273	144
North Carolina.....	33,246	124	2,960	4,999	8,012	5,682	5,928	4,345	1,196
Oregon.....	10,997	46	918	1,854	3,033	1,925	1,909	1,308	4
Rhode Island.....	2,953	30	325	482	644	425	571	446	30
South Dakota.....	1,248	12	134	216	357	214	209	103	3
Utah.....	971	0	71	138	203	165	205	172	17
Vermont.....	1,340	5	118	229	240	149	309	289	1
Virginia.....	6,014	29	678	1,065	1,811	881	704	426	420

**Table 24c.—Rate of Persons on Registers by Age, MRA and Each MRA State, as of December 31, 1969**

[Rate per 10,000 population]

State	Age							85 and over
	Total	Under 5	5-19	20-44	45-64	65-74	75-84	
MRA total.....	157.2	10.2	52.4	78.7	199.8	425.6	858.9	2,492.9
Connecticut.....	124.7	14.7	63.3	66.0	132.2	300.6	701.1	(1)
Georgia.....	127.6	.5	25.3	79.0	294.0	416.3	377.9	492.6
Kansas.....	133.3	11.5	41.3	59.6	150.8	296.8	714.9	(1)
Louisiana.....	181.6	13.0	51.1	101.2	333.1	652.5	901.2	(1)
Massachusetts.....	188.7	11.6	56.7	85.8	198.3	472.2	914.9	3,278.4
New Hampshire.....	159.1	17.2	70.3	75.1	158.9	342.6	(1)	(1)
New Jersey.....	114.0	15.6	51.9	60.5	137.8	292.9	558.5	1,653.2
New Mexico.....	180.2	(2)	(2)	(2)	(2)	(2)	(2)	(2)
New York.....	173.7	10.5	60.6	81.1	192.6	434.8	961.8	2,865.4
North Carolina.....	209.3	9.5	60.7	106.6	298.8	691.4	1,555.2	4,196.4
Oregon.....	135.7	25.9	48.3	68.5	139.4	300.7	812.7	(1)
Rhode Island.....	126.1	17.3	51.6	74.5	156.1	344.4	515.6	(1)
South Dakota.....	138.2	3.7	37.4	73.5	144.8	366.0	643.1	(1)
Utah.....	129.2	5.4	34.0	64.7	138.3	319.8	(1)	(1)
Vermont.....	157.9	7.7	47.8	86.5	209.5	410.7	(1)	(1)
Virginia.....	125.7	8.7	50.2	66.3	189.5	356.3	625.7	1,485.2

<sup>1</sup> Not computed because the estimated State population in 1969 was less than 25,000 for this age.

<sup>2</sup> Not computed because age was unknown for more than 10 percent of persons on the State register.

**Table 24d.—Rate of Persons on Registers by Age, MRA and Each MRA State, as of December 31, 1970**

[Rate per 100,000 population]

State	Age						85 and over
	Total	Under 5	5-19	20-44	45-64	65-74	
MRA total.....	161.7	10.0	51.5	83.3	200.7	439.9	908.0
Connecticut.....	123.9	13.0	58.9	68.8	130.8	299.4	705.4
Georgia.....	132.0	.2	24.7	80.6	297.9	458.9	403.8
Kansas.....	135.9	12.6	41.0	61.4	153.2	305.8	703.4
Louisiana.....	186.9	14.3	53.5	105.2	334.4	662.5	950.6
Massachusetts.....	196.4	10.8	54.4	106.1	173.3	490.8	1,116. <sup>1</sup>
New Hampshire.....	161.6	21.2	67.3	81.0	162.4	356.3	744.0
New Jersey.....	114.0	15.9	50.7	63.5	138.4	291.2	549.0
New Mexico.....	154.8	3.1	21.8	72.5	170.2	506.7	(1)
New York.....	182.1	8, <sup>2</sup> 3	59.7	86.1	196.3	456.0	1,016.8
North Carolina.....	216.0	10.5	59.7	109.1	303.3	715.6	1,631.6
Oregon.....	140.5	18.2	53.1	74.6	142.8	310.2	782.2
Rhode Island.....	131.2	15.8	51.3	72.0	170.0	334.4	653.1
South Dakota.....	145.8	0	33.3	74.6	152.6	351.1	759.3
Utah.....	125.4	4.4	32.7	67.8	134.1	304.1	(1)
Vermont.....	156.8	10.0	46.7	88.2	194.2	379.3	(1)
Virginia.....	129.2	7.4	49.4	66.3	198.1	378.1	664.2
							1,577.8

<sup>1</sup> Not computed because the estimated State population in 1970 was less than 25,000 for this age.

**Table 25a.—Number of Persons on Registers by Visual Acuity, MRA and Each MRA State, as of December 31, 1969**

State	Total	Absolute blindness	Light perception	Light projection	Visual acuity			Restricted field	Unknown
					Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200		
MRA total.....	95,553	10,391	11,038	1,096	15,493	9,122	15,210	20,917	6,725
Connecticut.....	3,741	406	389	73	546	346	450	828	191
Georgia.....	5,809	879	790	109	992	561	743	1,169	358
Kansas.....	2,980	360	349	35	469	279	447	794	139
Louisiana.....	6,572	842	711	153	1,255	417	1,050	1,264	654
Massachusetts.....	10,660	784	868	77	1,550	1,239	2,496	2,488	621
New Hampshire.....	1,152	119	114	9	181	89	219	280	66
New Jersey.....	8,088	951	1,079	102	1,025	1,036	1,142	1,697	482
New Mexico.....	1,822	174	276	7	248	122	183	421	21
New York.....	31,457	3,439	3,743	387	5,693	3,012	5,099	6,632	2,849
North Carolina.....	10,532	996	1,286	55	1,749	807	1,542	2,494	607
Oregon.....	2,799	331	314	11	422	289	555	636	224
Rhode Island.....	1,175	140	137	10	186	118	151	258	52
South Dakota.....	923	113	103	12	67	85	105	136	40
Utah.....	1,353	77	98	14	166	122	256	337	32
Vermont.....	690	66	86	7	102	64	100	157	68
Virginia.....	5,800	714	695	35	842	536	672	1,326	321
									659

**Table 25b.—Number of Persons on Registers by Visual Acuity, MRA and Each MR<sup>a</sup>: State, as of December 31, 1970**

State	Total	Absolute blindness	Light perception	Light projection	Visual acuity				Restricted field	Unknown
					Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200		
MRA total . . . . .	99,347	10,518	11,296	1,114	15,891	9,674	15,757	22,449	7,218	5,430
Connecticut . . . . .	3,766	411	398	76	543	360	464	859	193	462
Georgia . . . . .	6,075	896	819	110	1,008	598	774	1,236	414	220
Kansas . . . . .	3,056	349	360	35	493	269	457	810	155	128
Louisiana . . . . .	6,811	832	739	146	1,273	441	1,108	1,341	690	241
Massachusetts . . . . .	11,193	790	873	72	1,657	1,286	2,498	2,875	605	537
New Hampshire . . . . .	1,199	120	115	12	172	89	238	307	70	76
New Jersey . . . . .	8,201	926	1,075	96	1,037	1,032	1,191	1,770	486	588
New Mexico . . . . .	1,576	162	244	5	221	110	170	373	22	269
New York . . . . .	33,246	3,538	3,899	403	5,852	3,419	5,262	7,141	3,113	619
North Carolina . . . . .	10,997	1,018	1,313	54	1,810	810	1,613	2,679	667	1,033
Oregon . . . . .	2,953	334	309	17	440	314	576	695	253	15
Rhode Island . . . . .	1,248	146	144	17	194	125	167	277	55	123
South Dakota . . . . .	971	119	102	16	76	94	120	160	39	245
Utah . . . . .	1,340	80	89	15	168	119	259	349	36	225
Vermont . . . . .	701	65	84	8	102	67	103	163	68	41
Virginia . . . . .	6,914	732	733	32	845	541	757	1,414	352	608

**Table 25c.—Percent Distribution of Persons on Registers by Visual Acuity, According to MRA and Each MRA State, as of December 31, 1969**

State	Total	Absolute blindness	Light perception	Visual acuity				Restricted field	Unknown
				Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200		
MRA total . . . . .	100.0	10.9	11.6	1.1	16.2	9.5	15.9	21.9	7.0
Connecticut . . . . .	100.0	10.9	10.4	2.0	14.6	9.2	12.0	22.1	5.1
Georgia . . . . .	100.0	15.1	13.6	1.9	17.1	9.7	12.8	20.1	6.2
Kansas . . . . .	100.0	12.1	11.7	1.2	15.7	9.4	15.0	26.6	4.7
Louisiana . . . . .	100.0	12.8	10.8	2.3	19.1	6.3	16.0	19.2	10.0
Massachusetts . . . . .	100.0	7.4	8.1	.7	14.5	11.6	23.4	23.3	5.8
New Hampshire . . . . .	100.0	10.3	9.9	.8	15.7	7.7	19.0	24.3	5.7
New Jersey . . . . .	100.0	11.8	13.3	1.3	12.7	12.8	14.1	21.0	6.0
New Mexico . . . . .	100.0	9.5	15.1	.4	13.6	6.7	10.0	23.1	1.2
New York . . . . .	100.0	10.9	11.9	1.2	18.1	9.6	16.2	21.1	9.1
North Carolina . . . . .	100.0	9.5	12.2	.5	16.6	7.7	14.6	23.7	5.8
Oregon . . . . .	100.0	11.8	11.2	.4	15.1	10.3	19.8	22.7	8.0
Rhode Island . . . . .	100.0	11.9	11.7	.9	15.8	10.0	12.9	22.0	4.4
South Dakota . . . . .	100.0	12.2	11.2	1.3	7.3	9.2	11.4	14.7	4.3
Utah . . . . .	100.0	5.7	7.2	1.0	12.3	9.0	18.9	24.9	2.4
Vermont . . . . .	100.0	9.6	12.5	1.0	14.8	9.3	14.5	22.8	9.9
Virginia . . . . .	100.0	12.3	12.0	.6	14.5	9.2	11.6	22.9	5.5

**Table 25d.—Percent Distribution of Persons on Registers by Visual Acuity, According to MRA and Each MRA State, as of December 31, 1970**

State	Visual acuity									
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 20/200	10/200 to less than 20/200	20/200	Restricted field	Unknown
MRA total . . . . .	100.0	10.6	11.4	1.1	16.0	9.7	15.9	22.6	7.3	5.5
Connecticut . . . . .	100.0	10.9	10.6	2.0	14.4	9.6	12.3	22.8	5.1	12.3
Georgia . . . . .	100.0	14.7	13.5	1.8	16.6	9.8	12.7	20.3	6.8	3.6
Kansas . . . . .	100.0	11.4	11.8	1.1	16.1	8.8	15.0	26.5	5.1	4.2
Louisiana . . . . .	100.0	12.2	10.9	2.1	18.7	6.5	16.3	19.7	10.1	3.5
Massachusetts . . . . .	100.0	7.1	7.8	.6	14.8	11.5	22.3	25.7	5.4	4.8
New Hampshire . . . . .	100.0	10.0	9.6	1.0	14.3	7.4	19.8	25.6	5.8	6.3
New Jersey . . . . .	100.0	11.3	13.1	1.2	12.6	12.6	14.5	21.6	5.9	7.2
New Mexico . . . . .	100.0	10.3	15.5	.3	14.0	7.0	10.8	23.7	1.4	17.1
New York . . . . .	100.0	10.6	11.7	1.2	17.6	10.3	15.8	21.5	9.4	1.9
North Carolina . . . . .	100.0	9.3	11.9	.5	16.5	7.4	14.7	24.4	6.1	9.4
Oregon . . . . .	100.0	11.3	10.5	.6	14.9	10.6	19.5	23.5	8.6	.5
Rhode Island . . . . .	100.0	11.7	11.5	1.4	15.5	10.0	13.4	22.2	4.4	9.9
South Dakota . . . . .	100.0	12.3	10.5	1.6	7.8	9.7	12.4	16.5	4.0	25.2
Utah . . . . .	100.0	6.0	6.6	1.1	12.5	8.9	19.3	26.0	2.7	16.8
Vermont . . . . .	100.0	9.3	12.0	1.1	14.6	9.6	14.7	23.3	9.7	5.8
Virginia . . . . .	100.0	12.2	12.2	.5	14.1	9.0	12.6	23.5	5.9	10.1

**Table 26a.—Number of Persons on Registers by Visual Acuity, Color, and Sex, MRA, as of December 31, 1969**

Color and sex	Total	Visual acuity			10/200 or less than 10/200	20/200	Restricted field.	Unknown		
		Absolute Blindness	Light perception	Light projection						
MRA total.....	95,553	10,391	11,038	1,096	15,493	9,122	15,110	20,917	6,725	5,561
Male.....	46,272	5,339	5,293	537	7,341	4,353	6,932	10,069	3,657	2,751
Female.....	49,281	5,052	5,745	559	8,152	4,769	8,278	10,848	3,068	2,810
White.....	46,442	4,592	4,936	71	6,882	4,563	7,756	10,883	2,599	3,769
Male.....	22,515	2,445	2,403	241	3,256	2,159	3,445	5,217	1,48	1,866
Female.....	23,927	2,147	2,533	23)	3,616	2,413	4,311	5,666	1,117	1,894
Other.....	14,631	2,158	2,119	217	2,58	1,210	1,719	2,653	1,105	829
Male.....	7,204	1,065	973	101	1,211	635	826	1,280	614	477
Female.....	7,427	1,092	1,145	115	1,28	605	893	1,374	422	420
Unknown.....	34,480	3,641	3,983	498	6,031	3,319	5,735	7,371	3,020	972
Male.....	16,553	1,928	1,917	195	2,784	1,568	2,661	3,63	1,561	476
Female.....	17,927	1,813	2,066	213	3,247	1,751	3,074	3,808	1,459	496

**Table 26b.—Number of Persons on Registers by Visual Acuity, Color, and Sex, MRA, as of December 31, 1970**

Color and sex	Total	Visual acuity						Restricted field	Unknown	
		Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200			
MRA total.....	99,347	10,518	11,296	1,114	15,891	9,674	15,757	22,449	7,218	5,430
Male.....	47,942	5,384	5,386	534	7,444	4,549	7,273	10,765	3,912	2,665
Female.....	51,405	5,134	5,910	580	8,417	5,125	8,484	11,684	3,306	2,765
White.....	47,262	4,580	4,965	476	6,973	4,593	7,913	1,40	2,69	3,609
Male.....	22,834	2,435	2,402	240	3,295	2,152	3,587	5,406	1,539	1,778
Female.....	24,428	2,145	2,56	236	3,678	2,441	4,326	6,054	1,154	1,831
Other.....	15,130	2,174	2,174	213	2,640	1,273	1,735	2,827	1,315	829
Male.....	7,413	1,071	998	97	1,310	633	859	1,360	679	406
Female.....	7,717	1,103	1,176	116	1,330	640	926	1,467	536	423
Unknown.....	36,955	3,764	4,157	425	6,278	3,808	6,059	8,162	3,310	992
Male.....	17,695	1,878	1,986	197	2,869	1,764	2,827	3,999	1,694	481
Female.....	19,260	1,886	2,171	228	3,409	2,044	3,232	4,163	1,616	511

**Table 26c.—Percent Distribution of Persons on Registers by Visual Acuity, According to Color and Sex, MRA, as of December 31, 1969**

Color and sex	Total	Visual acuity						Restricted field	Unknown
		Absolute blindness	Light perception	Light projection	Less than \$/200	\$/200 to less than 10/200	10/200 to less than 20/200		
MRA total.....	100.0	10.9	11.6	1.1	16.2	9.5	15.9	21.9	7.0
Male.....	100.0	11.5	11.4	1.2	15.9	9.4	15.0	21.8	7.9
Female.....	100.0	10.3	11.7	1.1	16.5	9.7	16.8	22.0	6.2
White.....	100.0	9.9	10.6	1.0	14.8	9.8	16.7	23.4	5.6
Male.....	100.0	10.9	10.7	1.1	14.5	9.5	15.3	23.2	6.6
Female.....	100.0	9.0	10.6	1.0	15.1	10.1	18.0	23.7	4.7
Other.....	100.0	14.7	14.5	1.5	17.6	8.5	11.7	18.2	7.6
Male.....	100.0	14.8	13.5	1.4	17.9	8.8	11.5	17.9	8.5
Female.....	100.0	14.7	15.4	1.6	17.4	8.1	12.0	18.5	6.6
Unknown.....	100.0	10.6	11.6	1.2	17.5	9.6	16.6	21.4	8.8
Male.....	100.0	11.0	11.6	1.2	16.8	9.5	16.1	21.5	9.4
Female.....	100.0	10.1	11.5	1.2	18.1	9.8	17.1	21.2	8.1

**Table 26d.—Percent Distribution of Persons on Registers by Visual Acuity, According to Color and Sex, MRA, 25 of December 31, 1970**

Color and sex	Visual acuity						Restricted field	Unknown
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200		
MRA total .....	100.0	10.6	11.4	1.1	16.0	9.7	15.9	22.6
Male.....	100.0	11.2	11.2	1.1	15.6	9.5	15.2	22.5
Female.....	100.0	10.0	11.5	1.1	16.4	10.0	16.5	22.7
White.....	100.0	9.7	10.5	1.0	14.8	9.7	16.7	24.2
Male.....	100.0	10.7	10.5	1.1	14.4	9.4	15.7	23.7
Female.....	100.0	8.8	10.5	1.0	10.0	15.1	17.7	24.8
Other.....	100.0	14.4	14.4	1.4	17.4	8.4	11.8	18.7
Male.....	100.0	14.4	13.5	1.3	17.7	8.5	11.6	18.3
Female.....	100.0	14.3	15.2	1.5	17.2	8.3	12.0	19.0
Unknown.....	100.0	10.2	11.2	1.2	17.0	10.3	16.4	22.1
Male.....	100.0	10.6	11.2	1.1	10.2	10.0	16.0	22.6
Female.....	100.0	9.8	11.3	1.2	17.7	10.6	16.8	21.6

**Table 27a.—Number of Persons on Registers by Visual Acuity and Age, MRA, as of December 31, 1969**

Age	Total	Absolute blindness	Light perception	Light projection	Visual acuity				Restricted field	Unknown
					Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200	20/200		
MRA total.....	95,553	10,391	11,038	1,096	15,493	9,122	15,210	20,917	6,725	5,561
Under 5.....	561	131	131	11	35	8	22	23	0	200
5-19.....	9,212	1,452	1,271	103	794	584	1,174	2,377	236	1,221
20-44.....	15,276	2,076	1,743	155	1,959	1,250	2,330	3,882	1,053	798
45-64.....	25,403	2,847	3,024	300	4,343	2,471	4,002	4,978	2,455	983
65-74.....	15,814	1,580	1,852	195	2,975	1,519	2,490	3,290	1,323	590
75-84.....	15,357	1,322	1,671	171	2,890	1,711	2,651	3,315	944	682
85 and over.....	10,869	774	1,135	137	2,087	1,296	1,978	2,323	450	689
Unknown.....	3,061	209	211	24	410	283	563	729	234	398

**Table 27b.—Number of Persons on Registers by Visual Acuity and Age, MRA, as of December 31, 1970**

Age	Visual acuity							Restricted field	Unknown
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200	10/200 to less than 20/200		
MRA total.....	99,347	10,518	11,296	1,114	15,891	9,674	15,757	22,449	7,218
Under 5.....	518	126	108	8	29	10	19	17	0
5-19.....	9,153	1,397	1,235	103	786	576	1,190	2,399	234
20-44.....	16,346	2,190	1,907	154	2,041	1,383	2,477	4,194	1,209
45-64.....	25,785	2,862	2,978	300	4,311	2,531	3,908	5,324	2,576
65-74.....	16,518	1,607	1,882	205	3,068	1,587	2,639	3,536	1,457
75-84.....	16,309	1,344	1,759	173	3,006	1,871	2,822	3,694	1,055
85 and over.....	11,533	793	1,217	144	2,234	1,417	2,091	2,517	451
Unknown.....	3,095	199	210	27	416	299	611	768	329

**Table 27c.—Percent Distribution of Persons on Registers by Visual Acuity, According to Age, MRA, as of December 31, 1969**

Age	Visual acuity						Restricted field	Unknown
	Total	Absolute blindness	Light perception	Light projection	5/200 or less than 5/200	10/200 or less than 10/200		
MRA total.....	100.0	10.9	11.6	1.1	16.2	9.5	15.9	21.9
Under 5.....	100.0	23.4	23.4	2.0	6.2	1.4	3.9	4.1
5-19.....	100.0	15.8	13.8	1.1	8.6	6.3	12.7	25.8
20-44.....	100.0	13.6	11.4	1.0	12.8	8.2	15.3	25.4
45-64.....	100.0	11.2	11.9	1.2	17.1	9.7	15.8	19.6
65-74.....	100.0	10.0	11.7	1.2	18.8	9.6	15.7	20.8
75-84.....	100.0	8.6	10.9	1.1	18.8	11.1	17.3	21.6
85 and over.....	100.0	7.1	10.4	1.3	19.2	11.9	18.2	21.4
Unknown.....	100.0	6.8	6.9	.8	13.4	9.2	18.4	23.8

**Table 27d.—Percent Distribution of Persons on Registers by Visual Acuity,<sup>a</sup> According to Age, MRA, as of December 31, 1970**

Age	Visual acuity						Restricted field	Unknown
	Total	Absolute blindness	Light perception	Light projection	Less than 5/200	5/200 to less than 10/200		
MR <sup>b</sup> , total.....	100.0	10.6	11.4	1.1	16.0	9.7	15.9	22.6
Under 5.....	100.0	24.3	20.8	1.5	5.6	1.9	3.7	3.3
5-19.....	100.0	15.3	13.5	1.1	8.6	6.3	13.0	26.2
20-44.....	100.0	13.4	11.7	.9	12.5	8.5	15.2	25.7
45-64.....	100.0	11.1	11.5	1.2	16.7	9.8	15.2	20.6
65-74.....	100.0	9.7	11.4	1.2	18.6	9.6	16.0	21.4
75-84.....	100.0	8.2	10.7	1.1	18.3	11.4	17.2	22.5
85 and over.....	100.0	6.9	10.6	1.2	19.4	12.3	18.1	21.8
Unknown.....	100.0	6.4	6.8	.9	13.4	9.7	19.7	24.8
							7.6	10.6

**Table 28a.—Estimated Midyear Population by Age, Color, and Sex, MRA, 1969**

[In thousands]

Color and sex	Total	Age					75-84	85 and over
		Under 5	5-19	20-44	45-64	65-74		
MRA total.....	60,782	5,138	17,578	19,415	12,712	3,716	1,788	436
Male.....	29,433	2,619	8,927	9,424	6,333	1,587	692	152
Female.....	31,349	2,519	8,651	9,991	6,679	2,129	1,096	284
White.....	52,470	4,232	14,702	16,757	1,377	3,357	1,650	395
Male.....	25,498	2,164	7,483	8,211	5,422	1,432	635	136
Female.....	25,932	2,063	7,213	8,547	5,955	1,925	1,015	259
Other.....	8,312	936	2,876	2,658	1,355	359	137	41
Male.....	3,945	455	1,439	1,213	611	155	57	16
Female.....	4,367	451	1,438	1,444	724	203	81	25

Source.—Total population for each individual State from U.S. Bureau of the Census Current Population Reports, series P-25, No. 460, June 7, 1971. Age-color-sex distribution is per 1970 census for corresponding State. The figures include persons in the Armed Forces stationed in each State but exclude Armed Forces overseas.

**Table 28b.—Estimated Midyear Population by Age, Color, and Sex, MRA, 1970**

[In thousands]

Color and sex	Total	Age					
		Under 5	5-19	20-44	45-64	65-74	75-84
MRA total	61,426	5,193	17,764	19,621	12,847	3,755	1,806
Male	29,746	2,647	9,022	9,524	6,097	1,604	699
Female	31,680	2,546	8,743	10,097	6,750	2,151	1,107
White	53,032	4,278	14,860	16,937	11,498	3,392	1,668
Male	25,761	2,188	7,569	8,299	5,480	1,447	642
Female	27,271	2,090	7,291	8,638	6,018	1,945	1,026
Other	8,394	915	2,905	2,684	1,348	362	139
Male	3,984	459	1,453	1,225	617	157	57
Female	4,410	455	1,452	1,459	732	205	81

Source.—Total population for each individual State from U.S. Bureau of the Census Current Population Reports, series P-25, No. 483, Oct. 5, 1971. Age-color-sex distribution as per 1970 census for corresponding State. The figures include persons in the Armed Forces stationed in each State but exclude Armed Forces overseas.

**Table 28c.—Estimated Midyear Population by Age, Color, and Sex, MRA, Excluding New York State, 1969**  
 [In thousands]

Color and sex	Total	Age					75-84	85 and over
		Under 5	5-19	20-44	45-64	65-74		
MRA total.....	42,677	3,662	12,660	13,658	8,705	2,481	1,210	393
Male.....	20,781	1,866	6,436	6,693	4,156	1,060	466	105
Female.....	21,896	1,796	5,224	6,955	4,549	1,421	744	198
White.....	36,750	3,011	10,531	11,867	7,761	2,210	1,101	270
Male.....	17,947	1,539	5,370	5,663	3,719	943	420	92
Female.....	18,804	1,471	5,160	6,005	4,042	1,267	681	178
Other.....	5,927	651	2,129	1,790	944	271	107	33
Male.....	2,834	327	1,066	830	437	117	45	13
Female.....	3,093	325	1,064	960	507	153	63	20

Source.—Total population for each individual State from U.S. Bureau of the Census Current Population Reports, series P-25, No. 460, June 7, 1971. Age-color-sex distribution as per 1970 census for corresponding State. The figures include persons in the Armed Forces stationed in each State but exclude Armed Forces overseas.

**Table 28d.—Estimated Midyear Population by Age, Color, and Sex, MRA, Excluding New York State, 1970**

{In thousands}

Color and sex	Total	Age						85 and over
		Under 5	5-19	20-44	45-64	65-74	75-84	
MRA total	43,166	3,704	12,804	13,814	8,806	2,509	1,223	306
Male	21,020	1,888	6,509	6,770	4,204	1,072	471	106
Female	22,146	1,817	6,295	7,045	4,602	1,437	752	200
White	37,178	3,046	10,653	12,005	7,851	2,235	1,115	273
Male	18,155	1,558	5,433	5,931	3,762	953	426	93
Female	19,023	1,488	5,220	6,074	4,088	1,281	689	180
Other	5,988	658	2,152	1,809	954	273	109	33
Male	2,863	350	1,077	838	442	119	45	13
Female	3,125	327	1,075	971	513	154	63	20

Source.—Total population for each individual State from U.S. Bureau of the Census Current Population Reports, series P-25, No. 458, Oct. 5, 1971. Age-color-sex distribution as per 1970 census for corresponding State. The figures include persons in the Armed Forces stationed in each State but exclude Armed Forces overseas.

**Table 28e.—Estimated Midyear Population by Color and Sex, MRA and Each MRA State, 1969**

[In thousands]

State	MRA total						Color and sex						Other					
	Total		Male		Female		Total		Male		Female		Total		Male		Female	
MRA total.....	60,782	29,433	31,349	52,470	25,488	26,982	8,312	3,945	4,367									
Connecticut.....	3,000	1,455	1,545	2,806	1,363	1,443	194	92	102									
Georgia.....	4,551	2,212	2,339	3,363	1,653	1,710	1,188	559	629									
Kansas.....	2,236	1,096	1,140	2,112	1,035	1,077	124	61	62									
Louisiana.....	3,619	1,761	1,858	2,526	1,242	1,284	1,093	519	574									
Massachusetts.....	5,650	2,701	2,949	5,440	2,601	2,839	210	100	110									
New Hampshire.....	724	354	370	726	352	368	4	2	2									
New Jersey.....	7,095	3,432	3,663	6,285	3,049	3,256	819	383	427									
New Mexico.....	1,011	498	513	911	450	461	100	48	51									
New York.....	18,105	8,652	9,453	15,720	7,541	8,178	2,385	1,111	1,274									
North Carolina.....	5,031	2,463	2,568	3,863	1,902	1,961	1,168	562	607									
Oregon.....	2,062	1,010	1,052	2,004	981	1,023	58	29	29									
Rhode Island.....	932	457	475	901	441	460	31	16	15									
South Dakota.....	668	331	337	633	314	319	35	18	18									
Utah.....	1,047	517	530	1,020	503	517	27	14	13									
Vermont.....	437	214	223	435	213	223	2	1	1									
Virginia.....	4,614	2,280	2,334	3,734	1,851	1,883	880	425	451									

Source.—Total population for each individual State from U.S. Bureau of the Census Current Population Reports, series P-25, No. 460, June 7, 1971. Age-color-sex distribution as per 1970 census for corresponding State. The figures include persons in the Armed Forces stationed in each State but exclude Armed Forces overseas.

**Table 28f.—Estimated Midyear Population by Color and Sex, MRA and Each MRA State, 1970**

[In [thousands]

State	Color and sex								
	MRA total			White			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
MRA total	61,426	29,746	31,680	53,032	25,761	27,271	8,394	3,984	4,410
Connecticut	3,039	1,474	1,565	2,842	1,381	1,462	197	94	103
Georgia	4,602	2,237	2,365	3,400	1,671	1,729	1,202	566	636
Kansas	2,248	1,102	1,146	2,123	1,040	1,083	125	62	63
Louisiana	3,644	1,773	1,871	2,543	1,251	1,293	1,101	522	578
Massachusetts	5,699	2,724	2,975	5,487	2,623	2,864	212	101	111
New Hampshire	742	363	379	737	360	377	5	2	2
New Jersey	7,195	3,480	3,715	6,374	3,092	3,282	821	389	433
New Mexico	1,018	502	515	918	453	465	100	49	52
New York	18,260	8,726	9,534	15,854	7,606	8,248	2,406	1,121	1,285
North Carolina	5,091	2,493	2,598	3,909	1,924	1,984	1,182	569	614
Oregon	2,102	1,029	1,073	2,042	1,000	1,043	60	30	30
Rhode Island	951	466	485	919	450	469	32	16	16
South Dakota	666	330	336	631	313	318	35	17	18
Utah	1,069	528	541	1,041	514	528	28	14	13
Vermont	447	218	229	445	218	228	2	1	1
Virginia	4,653	2,299	2,354	3,765	1,867	1,899	888	433	455

Source.—Total population for each individual State from U.S. Bureau of the Census Current Population Reports, series P-25, No. 468, Oct. 5, 1971. Age-color-sex distribution as per 1970 census for corresponding State. The figures include persons in the Armed Forces stationed in each State but exclude Armed Forces overseas.

**Table 28g.—Estimated Midyear Population by Age, MRA and Each MRA State, 1969**

State	Total	Age						85 and over
		Under 5	5-19	20-44	45-64	65-74	75-84	
<i>[In thousands]</i>								
MRA total.....	60,782	5,138	17,578	19,415	12,712	3,716	1,788	436
Connecticut.....	3,000	251	855	950	658	173	91	22
Georgia.....	4,551	418	1,382	1,526	861	233	1 <i>2</i> 4	27
Kansas.....	2,236	174	654	686	457	154	87	24
Louisiana.....	3,619	346	1,177	1,119	673	198	84	22
Massachusetts.....	5,650	467	1,601	1,747	1,203	378	202	51
New Hampshire.....	724	64	212	225	146	47	24	6
New Jersey.....	7,095	583	1,994	2,232	1,595	435	207	47
New Mexico.....	1,011	96	345	322	177	45	21	5
New York.....	18,105	1,476	4,918	5,757	4,007	1,235	578	133
North Carolina.....	5,031	433	1,520	1,680	989	266	116	28
Oregon.....	2,062	162	600	634	442	134	71	18
Rhode Island.....	932	75	256	294	205	63	32	8
South Dakota.....	668	54	214	185	134	47	27	7
Utah.....	1,047	111	353	331	175	48	23	6
Vermont.....	437	39	134	133	84	28	15	4
Virginia.....	4,614	389	1,362	1,593	906	231	105	27

Source.—Total population for each individual State from U.S. Bureau of the Census Current Population Reports, series P-25, No. 460, June 7, 1971. Age-color-sex distribution as per 1970 census for corresponding State. The figures include persons in the Armed Forces stationed in each State but exclude Armed Forces overseas.

**Table 28h.—Estimated Midyear Population by Age, MRA and Each MRA State, 1970**

[In thousands]

State	Age							
	Total	Under 5	5-19	20-44	45-64	65-74	75-84	85 and over
MRA total . . . . .	61,426	5,193	17,764	19,621	12,847	3,755	1,806	440
Connecticut . . . . .	3,039	254	866	963	666	175	92	22
Georgia . . . . .	4,602	423	1,398	1,543	870	236	106	27
Kansas . . . . .	2,248	175	658	690	459	155	88	24
Louisiana . . . . .	3,644	349	1,135	1,126	677	200	85	22
Massachusetts . . . . .	5,699	471	1,615	1,762	1,214	382	204	52
New Hampshire . . . . .	742	66	217	231	149	48	25	6
New Jersey . . . . .	7,195	591	2,022	2,264	1,618	442	210	48
New Mexico . . . . .	1,018	97	348	324	178	45	21	5
New York . . . . .	18,260	1,489	4,960	5,807	4,041	1,246	583	134
North Carolina . . . . .	5,091	438	1,538	1,700	1,000	269	117	29
Oregon . . . . .	2,102	165	612	646	451	137	73	19
Rhode Island . . . . .	951	76	261	300	210	64	32	8
South Dakota . . . . .	666	54	213	185	133	47	27	7
Utah . . . . .	1,069	113	361	338	179	49	24	6
Vermont . . . . .	447	40	137	136	86	29	15	4
Virginia . . . . .	4,653	392	1,373	1,607	914	233	106	27

Source.—Total population for each individual State from U.S. Bureau of the Census Current Population Reports, series P-25, No. 458, Oct. 5, 1971. Age-color-sex distribution as per 1970 census for corresponding States. The figures include persons in the Armed Forces stationed in each State but exclude Armed Forces overseas.

**Table 29a.—Age-Standardized Rate of All Additions to Registers by Sex, Color, and Cause, 14 MRA States, Average 1969 and 1970**

[Average annual rate per 100,000]

Cause	Total			Male			Female		
	Total	White	Other	Total	White	Other	Total	White	Other
All causes.....	14.2	12.1	28.7	14.3	12.3	28.9	14.0	11.8	28.5
Glaucoma.....	1.5	.8	6.5	1.7	.8	7.9	1.3	.7	5.4
Cataract, total.....	2.1	1.8	4.1	1.9	1.7	3.6	2.2	1.8	4.5
Prenatal.....	.4	.3	.7	.4	.3	.6	.4	.3	.7
Other.....	1.7	1.5	3.4	1.5	1.3	2.9	1.8	1.5	3.9
Retinal disease, total.....	4.2	4.1	5.3	4.0	4.0	4.4	4.3	4.1	6.0
Prenatal.....	.8	.8	.7	.9	.9	.8	.7	.7	.7
Diabetic.....	1.2	1.1	2.5	1.0	.9	1.2	1.4	1.1	3.5
Other.....	2.2	2.2	2.1	2.2	2.1	2.4	2.2	2.2	1.8
Retrothal fibroplasia.....	.1	.1	.1	.1	.2	.1	.1	.1	.1
Myopia.....	.3	.3	.6	.3	.3	.7	.3	.2	.5
Cornea or sclera.....	.4	.2	1.2	.4	.2	1.3	.4	.2	1.0
Uveitis.....	.4	.3	1.0	.4	.3	.8	.4	.3	1.1
Optic nerve disease.....	.9	.8	2.0	1.2	1.0	2.5	.7	.6	1.6
Multiple affections.....	1.3	1.2	2.8	1.1	.0	1.7	1.5	1.2	3.5
Other.....	1.2	1.0	2.2	1.3	1.1	2.6	1.0	.9	1.8
Unknown.....	1.8	1.6	2.9	1.8	1.7	3.1	1.7	1.5	2.8

**Table 29b.—Age-Specific Number and Rate of All Additions to Registers by Cause, 14 MRA States, Average 1969 and 1970**

TOTAL  
[Average annual rate per 100,000]

Cause	Age															
	Total	Under 5		5-19		20-44		45-64		65-74		75-84		85 and over		
Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
All causes.....	5,328	14.2	147	4.5	585	5.2	764	6.3	1,646	21.7	729	34.3	948	93.1	509	199.6
Glaucoma.....	544	1.5	0	0	0	0	25	.2	224	3.0	124	5.8	128	12.6	43	16.9
Cataract, total.....	778	2.1	28	.9	80	.7	52	.4	267	3.5	104	4.9	143	14.0	104	40.8
Prenatal.....	145	.4	28	.9	72	.6	26	.2	17	.2	.1	0	0	0	0	0
Other.....	633	1.7	0	0	8	.1	26	.2	250	3.3	102	4.8	143	14.0	104	40.8
Retinal disease, total.....	1,585	4.2	13	.4	104	.9	257	2.1	497	6.5	243	11.4	323	31.7	148	58.0
Prenatal.....	302	.8	9	.3	78	.7	99	.8	98	1.3	11	.5	7	.7	0	0
Diabetic.....	454	1.2	0	0	1	0	84	.7	244	3.2	98	4.6	34	3.3	3	1.2
Other.....	819	2.2	4	.1	25	.2	74	.6	155	2.0	134	6.3	282	27.7	145	56.9
Retrothal fibroplasia	52	.1	11	.3	34	.3	7	.1	0	0	0	0	0	0	0	0
Myopia.....	118	.3	2	.1	35	.3	26	.2	37	.5	12	.6	6	.6	0	0
Cornea or sclera.....	136	.4	2	.1	9	.1	30	.2	62	.8	14	.7	17	1.7	2	.8
Uveitis.....	154	.4	.1	0	15	.1	51	.4	60	.8	16	.8	11	1.1	2	.8
Optic nerve disease.....	352	.9	19	.6	84	.8	97	.8	104	1.4	26	1.2	17	1.7	5	2.0
Multiple affections....	504	1.3	0	0	3	0	16	.1	130	1.7	94	4.4	163	16.0	98	38.4
Other.....	443	1.2	48	1.5	163	1.5	116	1.0	86	1.1	16	.8	11	1.1	3	1.2
Unknown.....	662	1.8	23	.7	60	.5	87	.7	179	2.4	80	3.8	129	12.7	104	40.8

**Table 29c.—Age-Specific Number and Rate of All Additions to Registers by Cause, 14 M.R. States, Average 1969 and 1970**

Cause	MALE, TOTAL										Age									
	Total		Under 5		5-19		20-44		45-64		65-74		75-84		85 and over					
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes.....	2,437	13.3	77	4.7	325	5.7	420	7.4	807	22.2	316	352	889	150	1667	16	17.8			
Glaucoma.....	276	1.5	0	0	0	0	18	.3	126	3.5	60	6.5	56	14.1	16	17.8				
Cataract, total.....	321	1.8	15	.9	45	.8	25	.4	125	3.4	37	4.0	48	12.1	26	28.9				
Prenatal.....	73	.4	15	.9	39	.7	10	.2	8	.2	1	.1	0	0	0	0				
Other.....	248	1.4	0	0	6	.1	15	.3	117	3.2	36	3.9	48	12.1	26	28.9				
Retinal disease, total..	689	3.7	7	.4	59	1.0	145	2.5	225	6.2	87	9.5	118	29.8	38	42.2				
Prenatal.....	162	.9	5	.3	42	.7	54	.9	54	1.5	5	.5	2	.5	0	0				
Diabetic.....	172	.9	0	0	1	.1	53	.8	89	2.4	26	2.8	6	1.5	0	0				
Other.....	346	1.9	2	.1	16	.3	41	.7	83	2.3	56	6.1	110	27.8	38	42.2				
Retrobulbar fibropapilla	28	.2	6	.4	18	.3	4	.1	0	0	0	0	0	0	0	0	0	0	0	
Myopia.....	62	.3	2	.1	21	.4	17	.3	16	.4	4	.4	2	.5	0	0				
Cornea or sclera.....	65	.4	2	.1	6	.1	16	.3	30	.8	4	.4	7	1.8	0	0				
Uveitis.....	72	.4	1	.1	7	.1	28	.5	24	.7	6	.7	6	1.5	0	0				
Optic nerve disease....	213	1.2	10	.6	.54	.9	.59	1.0	64	1.8	16	1.7	9	2.3	1	1.1				
Multiple affections....	173	.9	0	0	2	0	5	.1	49	1.3	34	3.7	51	12.9	32	35.6				
Other.....	244	1.3	22	1.3	89	1.6	65	1.1	54	1.5	8	.9	5	1.3	1	1.1				
Unknown.....	303	1.7	12	.7	24	.4	54	.9	93	2.6	34	3.7	50	12.6	36	40.0				

**Table 29d.—Age-Specific Number and Rate of All Additions to Registers by Cause, 14 MRA States, Average 1969 and 1970**

FEMALE, TOTAL  
[Average annual rate per 100,000]

Cause	Age											
	Total		Under 5		5-19		20-44		45-64		65-74	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes . . . . .	2,891	15.1	70	4.4	260	4.7	328	5.3	839	21.2	439	36.3
Glaucoma . . . . .	268	1.4	0	0	1	0	7	.1	98	2.5	64	5.3
Cataract, total . . . . .	457	2.4	13	.8	35	.6	27	.4	142	3.6	67	5.5
Prenatal . . . . .	72	.4	13	.8	33	.6	16	.3	9	.2	1	.1
Other. . . . .	385	2.0	0	0	2	0	11	.2	133	3.4	66	5.5
Retinal disease, total . . . . .	905	4.7	6	.4	45	.8	112	1.8	271	6.9	156	12.9
Prenatal . . . . .	140	.7	4	.3	36	.7	45	.7	44	1.1	6	.5
Diabetic . . . . .	292	1.5	0	0	0	0	34	.6	155	3.9	72	6.0
Other. . . . .	473	2.5	2	.1	9	.2	33	.5	72	1.8	73	6.5
Retrobulbar fibroplasia . . . . .	24	.1	5	.3	16	.3	3	0	0	0	0	0
Myopia . . . . .	56	.3	0	0	14	.3	9	.1	21	.5	8	.7
Cornea or sclera. . . . .	71	.4	0	0	3	.1	14	.2	32	.8	10	.8
Uveitis. . . . .	62	.4	0	0	6	.1	23	.4	36	.9	10	.8
Optic nerve disease. . . . .	139	.7	9	.6	30	.5	38	.6	40	1.0	10	.8
Multiple affections. . . . .	331	1.7	0	0	1	0	11	.2	81	2.0	60	5.0
Other. . . . .	199	1.0	26	1.6	74	1.3	51	.8	32	.8	8	.7
Unknown . . . . .	359	1.9	11	.7	36	.7	33	.5	86	2.2	46	3.8

**Table 29e.—Age-Specific Number and Rate of All Additions to Registers by Cause, 14 MRA States, Average 1969 and 1970**

WHITE, TOTAL

[Average annual rate per 100,000]

Cause	Age										85 and over					
	Total		Under 5		20-44		45-64		65-74		75-84	Number	Rate			
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Rate			
All causes.....	3,942	12.4	10	4.1	440	4.8	543	5.3	1,071	16.1	531	28.5	799	87.4	452	202.7
Glaucoma.....	250	.8	0	0	0	0	7	.1	70	1.1	56	3.1	84	9.2	33	14.8
Cataract, total.....	582	1.8	17	.7	58	.6	39	.4	192	2.9	80	4.3	112	12.3	84	37.7
Prenatal.....	103	.3	17	.7	52	.6	18	.2	14	.2	2	.1	0	0	0	0
Other.....	479	1.5	0	0	6	.1	21	.2	178	2.7	78	4.2	112	12.3	84	37.7
Retinal disease, total.....	1,332	4.2	10	.4	88	1.0	213	2.1	375	5.6	293	10.9	303	33.2	140	62.8
Prenatal.....	262	.8	8	.3	68	.7	83	.8	85	1.3	11	.6	7	.8	0	0
Diabetic.....	349	1.1	0	0	1	0	74	.7	169	2.5	72	3.9	30	3.3	3	1.3
Other.....	721	2.3	2	.1	19	.2	56	.5	121	1.8	120	6.5	266	29.1	137	61.4
Retrosternal fibroplasia	45	.1	11	.4	28	.3	6	.1	0	0	0	0	0	0	0	0
Myopia.....	82	.3	0	0	20	.2	16	.2	31	.5	10	.5	5	.5	0	0
Cornea or sclera.....	79	.2	0	0	5	.1	14	.1	34	.5	12	.6	12	1.3	2	.9
Uveitis.....	105	.3	1	0	9	.1	32	.3	38	.6	13	.7	10	1.1	2	.9
Optic nerve disease.....	248	.8	14	.5	70	.8	65	.6	64	1.0	16	.9	14	1.5	5	2.2
Multiple affections.....	381	1.2	0	0	2	0	10	.1	79	1.2	66	3.5	137	15.0	87	39.0
Other.....	318	1.0	35	1.3	116	1.3	79	.8	64	1.9	12	.6	9	1.0	3	1.3
Unknown.....	520	1.6	18	.7	44	.5	62	.6	124	1.9	63	3.4	113	12.4	6	43.0

**Table 29f.—Age-Specific Number and Rate of All Additions to Registers by Cause, 14 MRA States, Average 1969 and 1970**

MALE, WHITE

[Average annual rate per 100,000]

Cause	Age											
	Total		Under 5		5-19		20-44		45-64		65-74	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes.....	1,798	11.6	55	4.1	252	5.4	316	6.2	550	17.1	217	27.1
Glaucoma.....	118	.8	0	0	0	0	6	.1	40	1.2	28	3.5
Cataract, total.....	243	1.6	10	.8	34	.7	19	.4	95	3.0	31	3.9
Prenatal.....	53	.3	10	.8	30	.6	6	.1	6	.2	1	.0
Other.....	190	1.2	0	0	4	.1	13	.3	89	2.8	30	3.7
Retinal disease, total.....	583	3.8	7	.5	51	1.1	120	2.3	186	5.8	75	9.4
Prenatal.....	142	.9	5	.4	38	.8	44	.9	48	1.5	5	.6
Diabetic.....	146	.9	0	0	1	0	46	.9	73	2.3	20	2.5
Other.....	295	1.9	2	.2	12	.3	30	.6	65	2.0	50	6.2
Retrobulbar fibroplasia	24	.2	6	.5	14	.3	4	.1	0	0	0	0
Myopia.....	42	.3	0	0	12	.3	11	.2	14	.4	4	.5
Cornea or sclera.....	35	.2	0	0	4	.1	8	.2	16	.5	4	.5
Uveitis.....	52	.3	1	.1	5	.1	18	.4	16	.5	6	.7
Optic nerve disease.....	154	1.0	8	.6	46	1.0	40	.8	42	1.3	10	1.2
Multiple afflictions.....	137	.9	0	0	2	0	4	.1	35	1.1	26	3.2
Other.....	173	1.1	13	1.0	64	1.4	46	.9	40	1.2	6	.7
Unknown.....	237	1.5	10	.8	20	.4	40	.8	66	2.1	27	3.4

Table 29g.—Age-Specific Number and Rate of All Additions to Registers by Cause, 14 MRA States, Average 1969 and 1970

EMPIRE WHILE

Average annual rate per 100 000

**Table 29h.—Age-Specific Number and Rate of All Additions to Registers by Cause, 14 MRA States, Average 1969 and 1970**

OTHER COLOR, TOTAL  
[Average annual rate per 100,000]

Cause	Age											
	Total		Under 5		5-19		20-44		45-64		65-74	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes.....	1,386	24.0	41	6.5	145	7.0	221	12.8	575	62.2	198	74.4
Glaucoma.....	294	5.1	0	0	0	0	18	1.0	154	16.6	68	25.6
Cataract, total.....	196	3.4	11	1.7	22	1.1	13	.8	75	8.1	24	9.0
Prenatal.....	42	.7	11	1.7	20	1.0	8	.5	3	.3	0	0
Other.....	154	2.7	0	0	2	.1	5	.3	72	7.8	24	9.0
Ratinal disease, total.....	253	4.4	3	.5	16	.8	44	2.5	122	13.2	40	15.0
Prenatal.....	40	.7	1	.2	10	.5	16	.9	13	1.4	0	0
Diabetic.....	115	2.0	0	0	0	0	10	.6	75	8.4	26	9.8
Other.....	98	1.7	2	.3	6	.3	18	1.0	34	3.7	14	5.3
Retroental fibroplasia	7	.1	0	0	6	.3	1	.1	0	0	0	0
Myopia.....	36	.6	2	.3	15	.7	10	.6	6	.6	2	.8
Conica or sclera.....	57	1.0	2	.3	4	.2	16	.9	28	3.0	2	.8
Uveitis.....	49	.8	0	0	4	.2	19	1.1	22	2.4	1.1	1.0
Optic nerve disease.....	104	1.8	5	.8	14	.7	32	1.8	40	4.3	10	3.8
Multiple affections.....	123	2.1	0	0	1	0	6	.3	51	5.5	28	10.5
Other.....	125	2.2	13	2.1	47	2.3	37	2.1	22	2.4	4	1.5
Unknown.....	142	2.5	5	.8	16	.8	25	1.4	55	5.9	17	6.4
											16	15.4
											8	25.0

**Table 29i.—Age-Specific Number and Rate of All Additions to Registers by Cause, 14 MRA States, Average 1969 and 1970**

MALE, OTHER COLOR

[Average annual rate per 100,000]

Cause	Age										Number	Rate		
	Total		Under 5		5-19		20-44		45-64					
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate				
<b>All causes.....</b>														
Glaucoma.....	639	23.1	22	6.9	73	7.0	120	14.9	257	60.0	73	62.9		
	158	5.7	0	0	0	0	12	1.5	86	20.1	32	27.6		
Cataract, total.....	78	2.8	5	1.6	11	1.1	6	.7	30	7.0	6	5.2		
Prenatal.....	20	.7	5	1.6	9	.9	4	.5	2	.5	0	0		
Other.....	58	2.1	0	0	2	.2	2	.2	28	6.5	6	5.2		
Retinal disease, total..	97	3.5	0	0	3	.8	25	3.1	40	9.3	12	10.3		
Prenatal.....	20	.7	0	0	4	.4	10	1.2	6	1.4	0	0		
Diabetic.....	26	.9	0	0	0	0	4	.5	16	3.7	6	5.2		
Other.....	51	1.8	0	0	4	.4	11	1.4	18	4.2	6	5.2		
Retrolental fibroplasia	4	.1	0	0	4	.4	0	0	0	0	0	0		
Myopia.....	20	.7	2	.6	9	.9	6	.7	2	.5	0	0		
Cornea or sclera.....	30	1.1	2	.6	2	.2	8	1.0	14	3.3	0	0		
Uveitis.....	20	.7	0	0	2	.2	10	1.2	8	1.9	0	0		
Optic nerve disease....	59	2.1	2	.6	8	.8	19	2.4	22	5.1	6	5.2		
Multiple affections....	36	1.3	0	0	0	0	1	.1	14	3.3	0	0		
Other.....	71	2.6	9	2.8	25	2.4	19	2.4	14	3.3	2	1.7		
Unknown.....	66	2.4	2	.6	4	.4	14	1.7	27	6.3	7	6.0		
											8	18.6		
											4	30.8		

**Table 29j.—Age-Specific Number and Rate of All Additions to Registers by Cause, 14 MRA States, Average 1969 and 1970**

FEMALE, OTHER COLOR

[Average annual rate per 100,000]

Cause	Age																	
	Total	Under 5		5-19		20-44		45-64		65-74		75-84		85 and over				
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate		
All causes.....	747	24.8	19	6.1	72	6.9	101	10.9	318	64.0	125	83.3	77	126.2	35	184.2		
Glucoma.....	136	4.5	0	0	0	0	6	.6	68	13.7	36	24.0	19	31.1	7	36.8		
Cataract, total.....	118	3.9	6	1.9	11	1.1	7	.8	45	9.1	18	12.0	19	31.1	12	63.2		
Prenatal.....	22	.7	6	1.9	11	1.1	4	.4	1	.2	0	0	0	0	0	0		
Other.....	96	3.2	0	0	0	0	3	.3	44	8.5	18	12.0	19	31.1	12	63.2		
Retinal disease, total.....	156	5.2	3	1.0	8	.8	19	2.0	82	16.5	28	18.7	10	16.4	6	31.6		
Prenatal.....	20	.7	1	.3	6	.6	6	.6	7	1.4	0	0	0	0	0	0		
Diabetic.....	89	3.0	0	0	0	0	6	.6	59	11.9	20	13.3	4	6.6	0	0		
Other.....	47	1.6	2	.6	2	.2	7	.8	16	3.2	8	5.3	6	9.8	6	31.6		
Retrobulbar fibroplasia.....	3	.1	0	0	2	.2	1	.1	0	0	0	0	0	0	0	0		
Myopia.....	16	.5	0	0	6	.6	4	.4	4	.8	2	1.3	0	0	0	0		
Cornea or sclera.....	27	.9	0	0	2	.2	8	.9	14	2.3	2	1.3	1	1.6	0	0		
Uveitis.....	29	1.0	0	0	2	.2	9	1.0	14	2.8	3	2.0	1	1.6	0	0		
Optic nerve disease.....	45	1.5	3	1.0	6	.6	13	1.4	18	3.6	4	2.7	1	1.6	0	0		
Multiple affections.....	87	2.9	0	0	1	.1	5	.5	37	7.4	20	13.3	18	29.5	6	31.6		
Other.....	54	1.8	4	1.3	22	2.1	18	1.9	8	1.6	2	1.3	0	0	0	0		
Unknown.....	76	2.5	3	1.0	12	1.2	11	1.2	28	5.6	10	6.7	8	13.1	4	21.1		

**Table 30a.—Age-Standardized Rate of Persons on Registers by Sex, Color, and Cause, 14 MRA States, December 31, 1970**

Cause	Rate per 100,000)						Female		
	Total			Male		Other	Total		White
	Total	White	Other	White	Other		Total	White	Other
All causes.....	146.5	121.5	322.3	158.9	132.2	348.8	134.8	111.1	299.8
Glaucoma.....	16.2	8.6	72.0	18.2	9.5	81.1	14.6	7.9	64.5
Cataract, total.....	19.2	16.1	40.7	19.5	16.7	38.5	18.7	15.4	42.1
Prenatal.....	5.7	4.9	10.7	6.6	5.5	15.2	5.0	4.3	8.6
Other.....	13.5	11.3	30.0	12.9	11.2	25.3	13.7	11.1	33.5
Retinal disease, total.....	36.6	34.9	48.6	38.0	36.9	46.5	34.9	32.6	50.3
Prenatal.....	10.5	10.4	11.3	12.6	12.5	13.5	8.6	8.5	9.5
Diabetic.....	6.9	5.9	13.6	5.5	5.3	6.8	7.9	6.3	19.2
Other.....	19.2	18.5	23.7	19.9	19.0	26.3	18.4	17.8	21.7
Retroental fibroplasia.....	3.7	4.1	1.6	3.7	4.1	1.6	3.7	4.1	1.6
Myopia.....	4.3	3.8	7.9	4.8	4.1	9.0	3.9	3.4	6.9
Cornea or sclera.....	6.9	4.8	21.3	7.1	5.0	21.7	6.7	4.6	20.9
Uvitis.....	7.5	5.7	20.4	8.1	6.5	19.5	7.1	5.0	21.2
Optic nerve disease.....	13.5	10.1	37.5	17.2	12.7	49.7	10.3	7.8	27.8
Multiple affections.....	6.4	5.4	14.0	5.4	4.7	10.5	7.2	5.8	16.8
Other.....	15.9	13.2	32.9	19.2	15.8	41.7	12.8	10.7	25.5
Unknown.....	16.3	15.0	25.3	17.8	16.2	28.9	14.9	13.8	22.4

**Table 30b.—Age-Specific Number and Rate of Persons on Registers by Cause, 14 MRA States, December 31, 1970**

Cause	Age												TOTAL			
	Total	Under 5		5-19		20-44		45-64		65-74		75-84		85 and over		
Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
All causes.....	54,883	146.5	338	10.5	5,404	48.3	9,664	80.2	16,044	211.4	9,176	431.6	8,406	825.7	5,851	2,294.5
Glaucoma.....	6,059	16.2	2	.1	18	.2	225	1.9	1,800	23.7	1,704	80.2	1,488	146.2	822	322.4
Cataract, total.....	7,202	19.2	62	1.9	720	6.4	991	8.2	1,749	23.0	1,118	52.6	1,307	128.4	1,255	492.2
Prenatal.....	2,150	5.7	61	1.9	675	6.0	769	6.4	482	6.3	109	5.1	42	4.1	12	4.7
Other.....	5,052	13.5	1	0	45	.4	222	1.8	1,267	16.7	1,009	47.5	1,265	124.3	1,243	487.5
Retinal disease, total.....	13,717	36.6	31	1.0	673	6.0	2,304	19.1	4,277	56.3	2,369	111.4	2,415	237.2	1,648	646.3
Prenatal.....	3,937	10.5	25	.8	475	4.2	1,244	10.3	1,542	20.3	431	20.3	183	18.0	37	14.5
Diabetic.....	2,575	6.9	0	0	5	0	359	3.0	1,174	15.5	699	32.9	284	27.9	54	21.2
Other.....	7,205	19.2	6	.2	193	1.7	701	5.8	1,561	20.6	1,239	58.3	1,948	191.4	1,557	610.6
Retroental fibroplasia	1,376	3.7	28	.9	910	8.1	434	3.6	3	0	0	0	1	.1	0	0
Myopia.....	1,627	4.3	3	.1	269	2.4	376	3.1	545	7.2	253	11.9	141	13.9	40	15.7
Cornica or sclera.....	2,584	6.9	5	.2	87	.8	459	3.8	1,025	13.5	521	24.5	341	33.5	146	57.3
Uveitis.....	2,822	7.5	5	.2	151	1.3	596	4.9	1,147	15.1	501	23.6	307	30.2	115	45.1
Optic nerve disease.....	5,042	13.5	46	1.4	595	5.3	1,283	10.6	1,763	23.2	810	38.1	400	39.3	145	56.9
Multiple affections.....	2,405	6.4	0	0	19	.2	91	.8	554	7.3	483	22.7	687	67.5	571	223.9
Other.....	5,946	15.9	119	3.7	1,426	12.7	2,024	16.8	1,579	20.8	505	23.8	218	21.4	75	29.4
Unknown.....	6,103	16.3	37	1.1	536	4.8	881	7.3	1,602	21.1	912	42.9	1,101	108.2	1,034	405.5

**Table 30c.—Age-Specific Number and Rate of Persons on Registers by Cause, 14 MRA States, December 31, 1970**

MALE, TOTAL  
[Rate per 100,000]

Cause	Age										Number Rate	Number Rate	Number Rate	Number Rate					
	Total		Under 5		5-19		20-44		45-64										
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate									
All causes.....	26,900	147.0	171	10.4	3,019	53.0	5,568	94.1	8,547	235.1	4,360	475.5	3,318	837.9	1,917	2,130.0			
Glaucoma.....	2,909	15.9	1	.1	10	.2	139	2.3	961	26.4	843	91.9	643	162.4	312	346.7			
Cataract, total.....	3,235	17.7	30	1.8	411	7.2	559	9.4	882	24.3	492	53.7	481	121.5	380	422.2			
Prenatal.....	1,196	6.5	29	1.8	380	6.7	434	7.3	260	7.2	64	7.0	22	5.6	7	7.8			
Other.....	2,039	11.1	1	.1	31	.5	125	2.1	622	17.1	428	46.7	459	115.9	373	414.4			
Retinal disease, total..	6,375	34.8	17	1.0	390	6.9	1,366	23.1	2,208	60.7	992	108.2	893	225.5	509	565.6			
Prenatal.....	2,249	12.3	15	.9	271	4.8	748	12.6	896	24.6	221	24.1	86	21.7	12	13.3			
Diabetic.....	947	5.2	0	0	3	.1	217	3.7	447	12.3	201	21.9	67	16.9	12	13.3			
Other.....	3,179	17.4	2	.1	116	2.0	401	6.8	865	23.8	570	62.2	740	186.9	485	538.9			
Retrolental fibropiastra	696	3.8	15	.9	464	8.2	215	3.6	2	.1	0	0	0	0	0	0			
Myopia.....	849	4.6	2	.1	161	2.8	225	3.8	276	7.6	122	13.3	56	14.1	7	7.8			
Cornea or sclera.....	1,204	6.6	2	.1	53	.9	231	3.9	498	13.7	250	27.3	119	30.1	51	56.7			
Uveitis.....	1,394	7.6	3	.2	78	1.4	316	5.3	579	15.9	240	26.2	139	35.1	39	43.3			
Optic nerve disease...	2,997	16.4	24	1.5	365	6.4	755	12.8	1,055	29.0	499	54.4	229	57.8	70	77.8			
Multiple affections....	834	4.6	0	0	9	.2	41	.7	228	6.3	170	16.5	216	54.5	170	188.9			
Other.....	3,465	18.9	52	3.2	802	14.1	1,217	20.6	968	26.6	289	31.5	105	26.5	32	35.6			
Unknown.....	2,942	16.1	25	1.5	276	4.8	504	8.5	890	24.5	463	50.5	437	110.4	347	385.6			

**Table 30d.—Age-Specific Number and Rate of Persons on Registers by Cause, 14 MRA States, December 31, 1970**

FEMALE, TOTAL  
[Rate per 100,000]

Cause	Age											
	Total		Under 5		5-19		20-44		45-64		65-74	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes.....	27,983	146.0	167	10.5	2,385	43.4	4,096	66.8	7,497	189.6	4,816	398.3
Glaucoma.....	3,150	16.4	1	.1	8	.1	86	1.4	839	21.2	861	71.2
Cataract, total.....	3,967	20.7	32	2.0	309	5.6	432	7.0	867	21.9	626	51.8
Prenatal.....	954	5.0	32	2.0	295	5.4	335	5.5	222	5.6	45	3.7
Other.....	3,013	15.7	0	0	14	.3	97	1.6	645	16.3	581	48.1
Retinal disease, total..	7,342	38.3	14	.9	283	5.1	938	15.3	2,069	52.3	1,377	113.9
Prenatal.....	1,688	8.8	10	.6	204	3.7	496	8.1	646	16.3	210	17.4
Diabetic.....	1,628	8.5	0	0	2	0	142	2.3	727	18.4	498	41.2
Other.....	4,026	21.0	4	.3	77	1.4	300	4.9	696	17.6	669	55.3
Retroental fibroplasia	680	3.5	13	.8	446	8.1	219	3.6	1	0	0	0
Myopia.....	778	4.1	1	.1	108	2.0	151	2.5	269	6.8	131	10.8
Cornea or sclera.....	1,380	7.2	3	.2	34	.6	228	3.7	527	13.3	271	22.4
Uveitis.....	1,428	7.4	2	.1	73	.3	280	4.6	568	14.4	261	21.6
Optic nerve disease....	2,045	10.7	22	1.4	230	4.2	528	8.6	708	17.9	311	25.7
Multiple affections....	1,571	8.2	0	0	10	.2	50	.8	326	8.2	313	25.9
Other.....	2,481	12.9	67	4.2	624	11.4	807	13.2	611	15.4	216	17.9
Unknown.....	3,161	16.5	12	.8	260	4.7	377	6.1	712	18.0	449	37.1

**Table 30e.—Age-Specific Number and Rate of Persons on Registers by Cause, 14 MRA States, December 31, 1970**

Cause	Age										85 and over			
	Total		Under 5		5-19		20-44		45-64		65-74		75-84	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes.....	39,544	124.8	249	9.6	4,150	45.6	7,040	68.2	10,560	158.4	5,993	322.2	6,595	721.6
Glaucoma.....	2,832	8.9	1	0	10	.1	94	.9	585	8.8	671	36.1	888	97.2
Cataract, total.....	5,255	16.6	37	1.4	493	5.4	704	6.8	1,211	18.2	808	43.4	1,009	110.4
Prenatal.....	1,544	4.9	36	1.4	461	5.1	543	5.3	367	5.5	92	4.9	35	3.8
Other.....	3,709	11.7	1	0	32	.4	161	1.6	844	12.7	716	38.5	974	106.6
Retinal disease, total..	11,417	36.0	25	1.0	561	6.2	1,879	18.2	3,314	49.7	1,882	101.2	2,203	241.0
Prenatal.....	3,366	10.6	22	.8	406	4.5	1,034	10.0	1,330	20.0	378	20.3	163	17.8
Diabetic.....	1,951	6.2	0	0	4	0	325	3.1	824	12.4	505	27.2	248	27.1
Other.....	6,100	19.2	3	.1	151	1.7	520	5.0	1,160	17.4	999	53.7	1,792	196.1
Retrolental fibroplasia	1,269	4.0	26	1.0	823	9.0	416	4.0	3	0	0	0	1	.1
Myopia.....	1,216	3.8	2	.1	160	1.8	262	2.5	433	6.5	204	11.0	118	12.9
Cornea or sclera.....	1,578	5.0	1	0	57	.6	225	2.2	604	9.1	330	17.7	248	27.1
Uveitis.....	1,853	5.8	2	.1	112	1.2	384	3.7	714	10.7	320	17.2	228	24.9
Optic nerve disease....	3,257	10.3	34	1.3	456	5.4	928	9.0	1,076	16.1	407	21.9	225	24.6
Multiple affections....	1,775	5.6	0	0	15	.2	57	.6	321	4.8	313	16.8	564	61.7
Other.....	4,205	13.3	91	3.5	1,005	11.0	1,430	13.9	1,112	16.7	358	19.2	155	17.0
Unknown.....	4,889	15.4	30	1.2	418	4.6	661	6.4	1,187	17.8	700	37.6	956	104.6

**Table 30f.—Age-Specific Number and Rate of Persons on Registers by Cause, 14 MRA States, December 31, 1970**

MALE, WHITE  
[Rate per 100,000]

Cause	Age											
	Total		Under 5		5-19		20-44		45-64		65-74	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All causes . . . . .	19,366	124.7	123	9.2	2,332	49.9	4,119	80.6	5,819	181.4	2,877	359.2
Glaucoma . . . . .	1,299	8.4	0	0	5	.1	63	1.2	298	9.3	344	42.9
Cataract, total . . . . .	2,390	15.4	18	1.4	286	6.2	401	7.8	632	19.7	380	47.4
Prenatal . . . . .	849	5.5	17	1.3	264	5.7	307	6.0	189	5.9	51	6.4
Other . . . . .	1,541	9.9	1	.1	22	.5	94	1.8	443	13.8	329	41.1
Retinal disease, total . . . . .	5,370	34.6	15	1.1	327	7.0	1,125	22.0	1,817	56.6	811	101.2
Prenatal . . . . .	1,934	12.5	13	1.0	234	5.0	623	12.2	782	24.4	194	24.2
Diabetic . . . . .	805	5.2	0	0	3	.1	291	3.9	371	11.6	163	20.3
Other . . . . .	2,631	16.9	2	.2	90	1.9	301	5.9	664	20.7	454	56.7
Retrolental fibroplasia . . . . .	642	4.1	14	1.1	419	9.0	207	4.0	2	.1	0	0
Myopia . . . . .	628	4.0	1	.1	93	2.0	164	3.2	219	6.8	100	12.5
Cornea or sclera . . . . .	737	4.7	0	0	33	.7	124	2.4	300	9.4	158	19.7
Uveitis . . . . .	972	6.3	2	.2	58	1.2	215	4.2	393	12.3	168	21.0
Optic nerve disease . . . . .	1,938	12.5	19	1.4	306	6.6	553	10.8	656	20.4	238	29.7
Multiple affections . . . . .	626	4.0	0	0	7	.2	28	.5	145	4.5	117	14.6
Other . . . . .	2,449	15.8	34	2.6	573	12.3	866	16.9	681	21.2	202	25.2
Unknown . . . . .	2,315	14.9	20	1.5	215	4.6	373	7.3	676	21.1	359	44.8
											371	105.1
											301	390.9

**Table 30g.—Age-Specific Number and Rate of Persons on Registers by Cause, 14 MRA States, December 31, 1970**

FEMALE, WHITE

[Rate per 100,000]

Cause	Age															
	Total		Under 5		5-19		20-44		45-64		65-74	75-84	85 and over			
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate		
All causes.....	20,178	124.9	126	9.9	1,828	41.0	2,921	56.1	4,741	137.1	3,116	294.2	4,074	726.2	3,372	2,309.6
Glaucoma.....	1,533	9.5	3	.1	5	.1	31	.6	287	8.3	327	30.9	519	92.5	363	248.6
Cataract, total.....	2,863	17.7	19	1.5	207	4.6	303	5.8	579	16.7	428	40.4	633	112.8	694	475.3
Prenatal.....	695	4.3	19	1.5	197	4.4	236	4.5	178	5.1	41	3.9	20	3.6	4	2.7
Other.....	2,168	13.4	0	0	10	.2	67	1.3	401	11.6	387	36.5	613	109.3	690	472.6
Retinal disease, total..	6,047	37.4	10	.8	234	5.3	754	14.5	1,497	43.3	1,071	101.1	1,404	250.3	1,077	737.7
Prenatal.....	1,432	8.9	9	.7	172	3.9	411	7.9	548	15.8	184	17.4	87	15.5	21	14.4
Diabetic.....	1,146	7.1	0	0	1	0	124	2.4	453	13.1	342	32.3	189	33.7	37	25.3
Other.....	3,469	21.5	1	.1	61	1.4	219	4.2	496	14.3	545	51.5	1,128	201.1	1,019	697.9
Retroental fibropatia	627	3.9	12	.9	404	9.1	209	4.0	1	0	0	0	1	.2	0	
Myopia.....	588	3.6	1	.1	67	1.5	98	1.9	214	6.2	104	9.8	74	13.2	30	20.5
Cornea or sclera.....	841	5.2	1	.1	24	.5	101	1.9	304	8.8	172	16.2	165	29.4	74	50.7
Uveitis.....	881	5.5	0	0	54	1.2	169	3.2	321	9.3	152	14.4	121	21.6	64	43.8
Optic nerve disease....	1,319	8.2	15	1.2	190	4.3	375	7.2	420	12.1	169	16.0	102	18.2	48	32.9
Multiplr. affections....	1,149	7.1	0	0	8	.2	29	.6	176	5.1	196	18.5	383	68.3	357	244.5
Other.....	1,756	10.9	57	4.5	432	9.7	564	10.8	431	12.5	156	14.7	87	15.5	29	19.9
Unknown.....	2,574	15.9	10	.8	203	4.6	288	5.5	511	14.8	341	32.2	585	104.3	636	435.6

**Table 30h.—Age-Specific Number and Rate of Persons on Registers by Cause, 14 MRA States, December 31, 1970**

OTHER COLOR, TOTAL  
[Rate per 100,000]

Cause	Age											
	Total	Under 5	5-19	20-44	45-54	55-74	75-84	85 and over	Number	Rate	Number	Rate
Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
All causes.....	15,339	265.7	89	14.1	1,254	60.2	2,624	151.4	5,484	592.9	3,183	1,196.6
Glaucoma.....	3,227	55.9	1	.2	8	.4	131	7.6	1,215	131.4	1,033	388.3
Cataract, total.....	1,949	33.8	25	4.0	227	10.9	287	16.6	538	58.2	310	116.5
Prenatal.....	606	10.5	25	4.0	214	10.3	226	13.0	115	12.4	17	6.4
Other.....	1,343	23.3	0	0	13	.6	61	3.5	423	45.7	293	110.2
Retinal disease, total..	2,300	39.8	6	1.0	112	5.4	425	21.5	963	104.1	487	183.1
Prenatal.....	571	9.9	3	.5	69	3.3	210	12.1	212	22.9	53	19.9
Diabetic.....	624	10.8	0	0	1	0	34	2.0	350	37.8	194	72.9
Other.....	1,105	19.1	3	.5	42	2.0	181	10.4	401	43.4	240	90.2
Retroental fibroplasia	107	1.9	2	.3	87	4.2	18	1.0	0	0	0	0
Myopia.....	411	7.1	1	.2	109	5.2	114	6.6	112	12.1	49	18.4
Cornea or sclera.....	1,006	17.4	4	.6	30	1.4	234	13.5	421	45.5	191	71.8
Uveitis.....	969	16.8	3	.5	39	1.9	212	12.2	433	46.8	181	68.0
Optic nerve disease...	1,785	30.9	12	1.9	99	4.8	355	20.5	687	74.3	403	151.5
Multiple afflictions....	630	10.9	0	0	4	.2	34	2.0	233	25.2	170	63.9
Other.....	1,741	30.2	28	4.4	421	20.2	594	34.3	467	50.5	147	55.3
Unknown.....	1,214	21.0	7	1.1	118	5.7	220	12.7	415	44.9	212	79.7

**Table 30i.—Age-Specific Number and Rate of Persons on Registers by Cause, 14 MRA States, December 31, 1970**

Cause	Age										Number Rate Rate per 100,000					
	Total		Under 5		5-19		20-44		45-64							
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate						
<b>MALE, OTHER COLOR</b>																
All causes . . . . .	7,534	272.7	48	15.1	697	66.8	1,449	180.4	2,728	637.4	1,483	1,278.4	797	1,853.5	332	2,553.8
Glaucoma.....	1,610	58.3	1	.3	5	.5	76	9.5	663	154.9	499	430.2	274	637.2	92	707.7
Cataract, total.....	845	30.6	12	3.8	125	12.0	158	19.7	250	58.4	112	96.6	105	244.2	83	638.5
Prenatal.....	347	12.6	12	3.8	116	11.1	127	15.8	71	16.6	13	11.2	7	16.3	1	7.7
Other.....	498	18.0	0	0	9	.9	31	3.9	179	41.8	99	85.3	98	227.9	82	630.8
Retinal disease, total..	1,005	36.4	2	.6	63	6.0	241	30.0	391	91.4	181	156.0	94	218.6	33	253.8
Prenatal.....	315	11.4	2	.6	37	3.5	125	15.6	114	26.6	27	23.3	10	23.3	0	0
Diabetic.....	142	5.1	0	0	0	0	16	2.0	76	17.8	38	32.8	8	18.6	4	30.8
Other.....	548	19.8	0	0	26	2.5	100	12.5	201	47.0	116	100.0	76	176.7	29	223.1
Retroental fibroplasia	54	2.0	1	.3	45	4.3	8	1.0	0	0	0	0	0	0	0	0
Myopia.....	221	8.0	1	.3	68	6.5	61	7.6	57	13.3	22	19.0	12	27.9	0	0
Cornea or sclera.....	476	16.9	2	.6	20	1.9	107	13.3	198	46.3	92	79.3	36	83.7	13	92.3
Uveitis.....	422	15.3	1	.3	20	1.9	101	12.6	186	43.5	72	62.1	32	74.4	10	76.9
Optic nerve disease....	1,059	38.3	5	1.6	59	5.7	202	25.2	399	63.2	261	225.0	106	246.5	27	207.7
Multiple affectio:ss....	208	7.5	0	0	2	.2	13	1.6	83	19.4	53	45.7	35	81.4	22	169.2
Other.....	1,016	36.8	18	5.7	229	22.0	351	43.7	287	67.1	87	75.0	37	86.0	7	53.8
Unknown.....	627	22.7	5	1.6	61	5.8	131	16.3	214	50.0	104	89.7	66	153.5	46	353.8

**Table 30j.—Age-Specific Number and Rate of Persons on Registers by Cause, 14 MRA States, December 31, 1970**

FEMALE, OTHER COLOR  
(Rate per 100,000)

Cause	Age											
	Total		Under 5		5-19		20-44		45-64		65-74	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
<b>All causes</b>												
Glaucoma.....	1,617	53.7	0	0	3	.3	55	5.9	552	111.1	534	356.0
Cataract, total.....	1,104	36.7	13	4.1	102	9.8	129	13.9	288	57.9	198	132.0
Prenatal.....	259	8.6	13	4.1	98	9.4	99	10.6	44	8.9	4	2.7
Other.....	845	28.1	0	0	4	.4	30	3.2	244	49.1	194	129.3
Retinal disease, total.....	1,295	43.0	4	1.3	49	4.7	184	19.8	572	115.1	306	204.0
Prenatal.....	256	8.5	1	.3	32	3.1	85	9.1	98	19.7	26	17.3
Diabetic.....	482	16.0	0	0	1	.1	18	1.9	274	55.1	156	104.0
Other.....	557	18.5	3	1.0	16	1.5	81	8.7	200	40.2	124	82.7
Retroental fibroplasia	53	1.8	1	.3	42	4.0	10	1.1	0	0	0	0
Myopia.....	190	6.3	0	0	41	3.9	53	5.7	55	11.1	27	18.0
Cornea or sclera.....	539	17.9	2	.6	10	1.0	127	13.7	223	44.9	99	66.0
Uveitis.....	547	18.2	2	.6	19	1.8	111	11.9	247	49.7	109	72.7
Optic nerve disease.....	726	24.1	7	2.2	49	3.8	153	16.5	288	57.9	142	94.7
Multiple affections.....	422	14.0	0	0	2	.2	21	2.3	150	30.2	117	78.0
Other.....	725	24.1	10	3.2	192	18.5	243	26.1	180	36.2	60	40.0
Unknown.....	587	19.5	2	.6	57	5.5	89	9.6	201	40.4	108	72.0

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