

BIRTHS

INFANT MORTALITY

MATERNAL MORTALITY

GRAPHIC PRESENTATION

1940



U.S. DEPARTMENT OF LABOR
CHILDREN'S BUREAU

1943

The charts, maps, and tables here assembled present most of the pertinent data on births and on infant and maternal mortality in the United States. Such charts when issued annually constitute a graphic record of the changes that are occurring in these vital indexes. These changes--important indicators in peace time--assume even greater significance in time of war. However, because of necessary economies the complete series of these charts will not again be issued for the duration of the war. The present series, relating to 1940, may serve, therefore, as a base line for evaluating the success with which the very difficult problems of the immediate future will be met.

FOREWORD

These charts and maps are based on data released by the U. S. Bureau of the Census for the year 1940, and are presented in three main groups: Births (identified by series numbers B 40-), infant mortality (IM 40-), and maternal mortality (MM 40-). No charts are presented on stillbirth statistics because of the known deficiencies in the registration of stillbirths. However, one map on this subject (S 40) is included, which shows for each State the extent to which the definition of stillbirth with regard to "period of gestation" and "evidence of life" is in accord with the Model Vital Statistics Act of 1941. On each left-hand page are the basic data for the chart on the right-hand page.

Most of the maps are based on so-called "recorded" figures; that is, they represent births and deaths which were registered as having occurred in the locality. These differ in many cases from "resident" figures; that is, births and deaths of residents of a locality irrespective of the place of occurrence. For data by States the difference between recorded and resident figures is slight. However, when smaller geographic subdivisions are considered, the differences may be very large and therefore four charts showing such subdivisions are presented on a resident basis (B 40-3R, B 40-5R, IM 40-11, and MM 40-12).

The variations in infant and maternal mortality over a period of years (trend charts) are presented on a semilogarithmic scale. The question is often raised why this scale is used rather than the more familiar arithmetic one. The semilogarithmic scale is generally preferred when interest centers in visual presentation of relative (percentage) changes from year to year rather than the basic figures. On a semilogarithmic scale equal vertical distances represent equal *relative* differences, whereas on an arithmetic scale equal vertical distances mean equal *actual* differences. For example, on a semilogarithmic scale a drop of 5 points from 20 would show up as 10 times the magnitude of a .5-point drop from 200, but on an arithmetic scale the two reductions would appear to be of the same magnitude. The semilogarithmic scale therefore affords a visual picture of the percentage changes over periods of time. It is especially useful when two or more curves are presented on the same chart, because it affords an immediate comparison of the relative changes in the curves.

Causes of infant and maternal mortality have been grouped in broad classifications. The International List numbers of the individual causes included in each group are included in the basic data shown opposite the corresponding charts.

Racial classification is given in three categories: White, Negro, and "other races." Mexicans are included with "white," and Indians, Chinese, Japanese, and a residual group of numerically minor races are included with "other races."

Statistics on Negro births by State are limited to the States in which at least 500 such births occur annually. In computing infant and maternal mortality rates for Negroes, only States in which at least 2,500 Negro births occurred in the period are presented because it is believed that rates based on a smaller number of births would not be sufficiently stable even for crude comparisons.

It is hoped that the charts and maps presented here not only will be useful to those interested in Nation-wide statistics on births, infant mortality, and maternal mortality, but that they may suggest plans for analyses of similar data for smaller geographic areas, especially by State departments of health and welfare.

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LIVE BIRTHS THAT OCCURRED IN EACH STATE, BY RACE; UNITED STATES, 1940
(States are ranked according to number of live births)

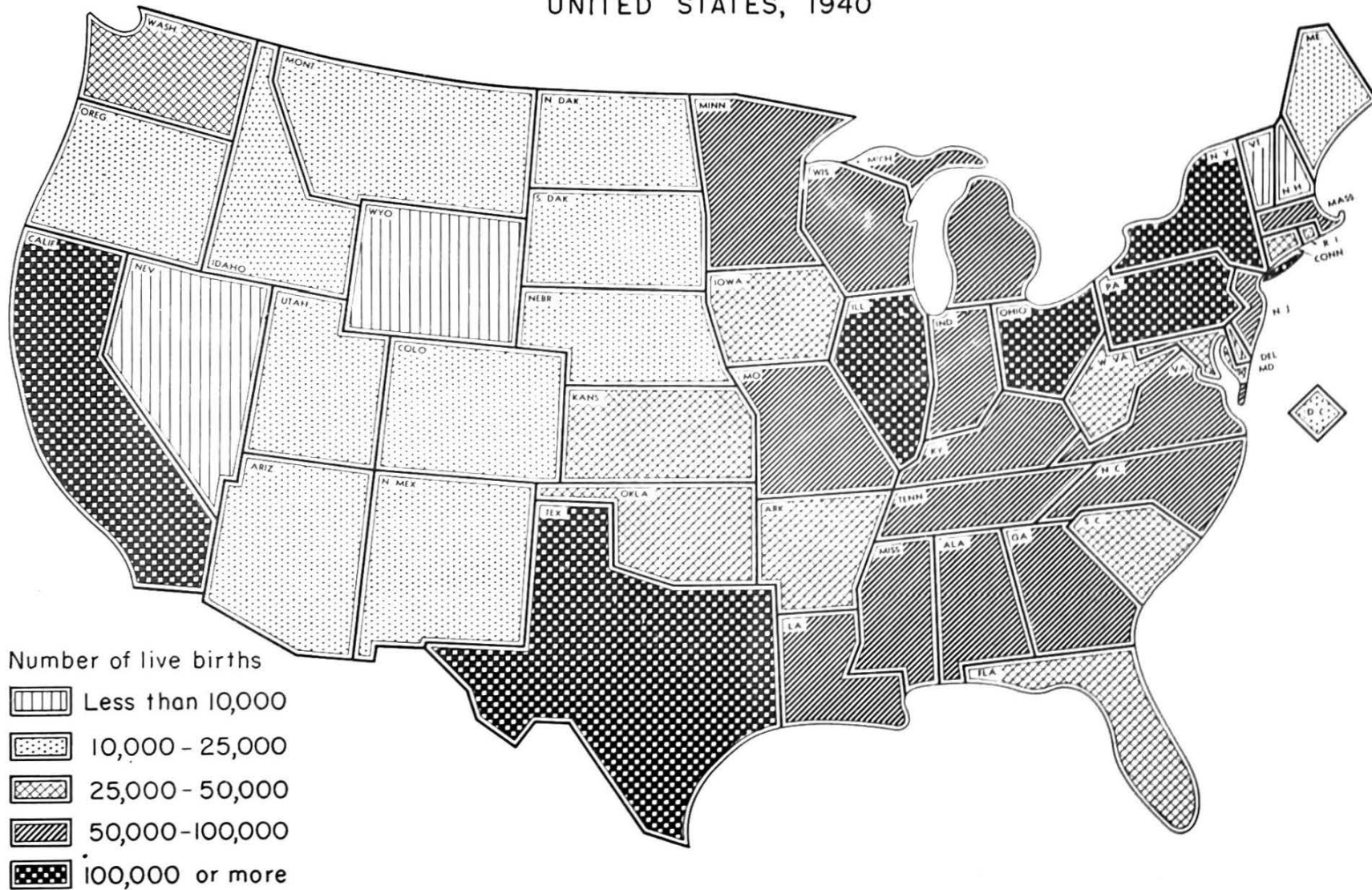
State	Number of live births			
	Total	White	Negro	Other races
Continental United States -----	2,360,399	2,067,953	278,869	13,577
New York -----	196,888	186,682	9,753	453
Pennsylvania -----	165,680	156,241	9,395	44
Texas -----	126,687	110,885	15,736	66
Illinois -----	123,198	116,357	6,749	92
Ohio -----	114,900	108,780	6,089	31
California -----	112,011	107,084	1,845	3,082
Michigan -----	99,108	94,985	3,941	182
North Carolina -----	80,582	54,676	25,056	850
Massachusetts -----	66,114	65,103	960	51
Georgia -----	64,998	39,305	25,682	11
Kentucky -----	63,591	60,396	3,195	-
Alabama -----	62,925	38,889	24,017	19
Missouri -----	62,172	57,972	4,176	24
Indiana -----	61,963	59,766	2,190	7
New Jersey -----	58,617	54,010	4,578	29
Tennessee -----	55,815	47,290	8,523	2
Virginia -----	55,208	39,653	15,518	37
Wisconsin -----	54,848	54,185	203	460
Minnesota -----	53,083	52,392	133	558
Mississippi -----	52,575	23,135	29,338	102
Louisiana -----	50,916	29,853	20,998	65
Iowa -----	45,464	45,226	214	24
Oklahoma -----	44,574	40,018	2,629	1,927
South Carolina -----	44,380	22,381	21,978	21
West Virginia -----	42,103	39,903	2,199	1
Arkansas -----	38,359	29,147	9,198	14
Florida -----	33,818	23,858	9,900	60
Maryland -----	30,251	23,664	6,572	15
Kansas -----	28,695	27,646	995	54
Washington -----	28,141	27,400	86	655
Connecticut -----	25,195	24,557	632	6
Nebraska -----	22,162	21,833	210	119
Colorado -----	21,154	20,847	204	103
Oregon -----	17,848	17,549	29	270
District of Columbia -----	15,309	10,679	4,597	33
Maine -----	15,119	15,074	19	26
New Mexico -----	14,744	14,313	40	391
Utah -----	13,559	13,412	9	138
North Dakota -----	13,356	12,929	-	427
Arizona -----	11,754	10,135	244	1,375
Idaho -----	11,712	11,617	5	90
South Dakota -----	11,619	10,918	4	697
Montana -----	11,492	10,820	19	653
Rhode Island -----	10,805	10,559	240	6
New Hampshire -----	8,503	8,495	8	-
Vermont -----	6,694	6,690	3	1
Wyoming -----	5,052	4,930	7	115
Delaware -----	4,597	3,852	744	1
Nevada -----	2,061	1,862	9	190
Territories and possessions ^{1/}				
Alaska -----	(2)	(2)	(2)	(2)
Hawaii -----	9,414	1,936	(3)	7,478
Puerto Rico -----	(2)	(2)	(2)	(2)

^{1/} Included under the provisions of title V, parts 1, 2, and 3, of the Social Security Act, which are administered by the Children's Bureau.

^{2/} Not available; Alaska and Puerto Rico are not in the birth-registration area.

^{3/} Not tabulated separately.

NUMBER OF LIVE BIRTHS THAT OCCURRED IN EACH STATE UNITED STATES, 1940



LIVE BIRTHS THAT OCCURRED IN EACH STATE PER 1,000 POPULATION; UNITED STATES, 1940
(States are ranked according to birth rate)

State	Birth rate	Number of live births	Population ^{1/}
Continental United States -----	17.9	2,360,399	131,669,275
New Mexico -----	27.7	14,744	531,818
Utah -----	24.6	13,559	550,310
Mississippi -----	24.1	52,575	2,183,796
Arizona -----	23.5	11,754	409,261
South Carolina -----	23.4	44,380	1,899,804
North Carolina -----	22.6	80,582	3,571,623
Idaho -----	22.3	11,712	524,873
Kentucky -----	22.3	63,591	2,845,627
Alabama -----	22.2	62,925	2,832,961
West Virginia -----	22.1	42,103	1,901,974
Louisiana -----	21.5	50,916	2,363,880
Georgia -----	20.7	64,998	3,123,723
North Dakota -----	20.6	13,356	641,935
Virginia -----	20.6	55,208	2,677,773
Montana -----	20.5	11,492	559,456
Wyoming -----	20.1	5,052	250,742
Arkansas -----	19.7	38,359	1,949,387
Texas -----	19.7	126,687	6,414,824
Oklahoma -----	19.1	44,574	2,336,434
Tennessee -----	19.1	55,815	2,915,841
Minnesota -----	19.0	53,083	2,792,300
Michigan -----	18.9	99,108	5,256,106
Colorado -----	18.8	21,154	1,123,296
Nevada -----	18.7	2,061	110,247
Vermont -----	18.6	6,694	359,231
Indiana -----	18.1	61,963	3,427,796
South Dakota -----	18.1	11,619	642,961
Iowa -----	17.9	45,464	2,538,268
Florida -----	17.8	33,818	1,897,414
Maine -----	17.8	15,119	847,200
Wisconsin -----	17.5	54,848	3,137,587
New Hampshire -----	17.3	8,503	491,524
Delaware -----	17.2	4,597	266,505
Nebraska -----	16.8	22,162	1,315,834
Pennsylvania -----	16.7	165,680	9,900,180
Maryland -----	16.6	30,251	1,821,244
Ohio -----	16.6	114,900	6,907,612
Missouri -----	16.4	62,172	3,784,664
Oregon -----	16.4	17,848	1,089,684
California -----	16.2	112,011	6,907,387
Washington -----	16.2	28,141	1,736,191
Kansas -----	15.9	28,695	1,801,028
Illinois -----	15.6	123,198	7,897,241
Massachusetts -----	15.3	66,114	4,316,721
Rhode Island -----	15.1	10,805	713,346
Connecticut -----	14.7	25,195	1,709,242
New York -----	14.6	196,888	13,479,142
New Jersey -----	14.1	58,617	4,160,165
District of Columbia ^{2/} -----	23.1	15,309	663,091
Territories and possessions ^{3/}			
Alaska -----	(4)	(4)	72,524
Hawaii -----	22.2	9,414	423,330
Puerto Rico -----	(4)	(4)	1,869,255

^{1/} Enumerated population for 1940.

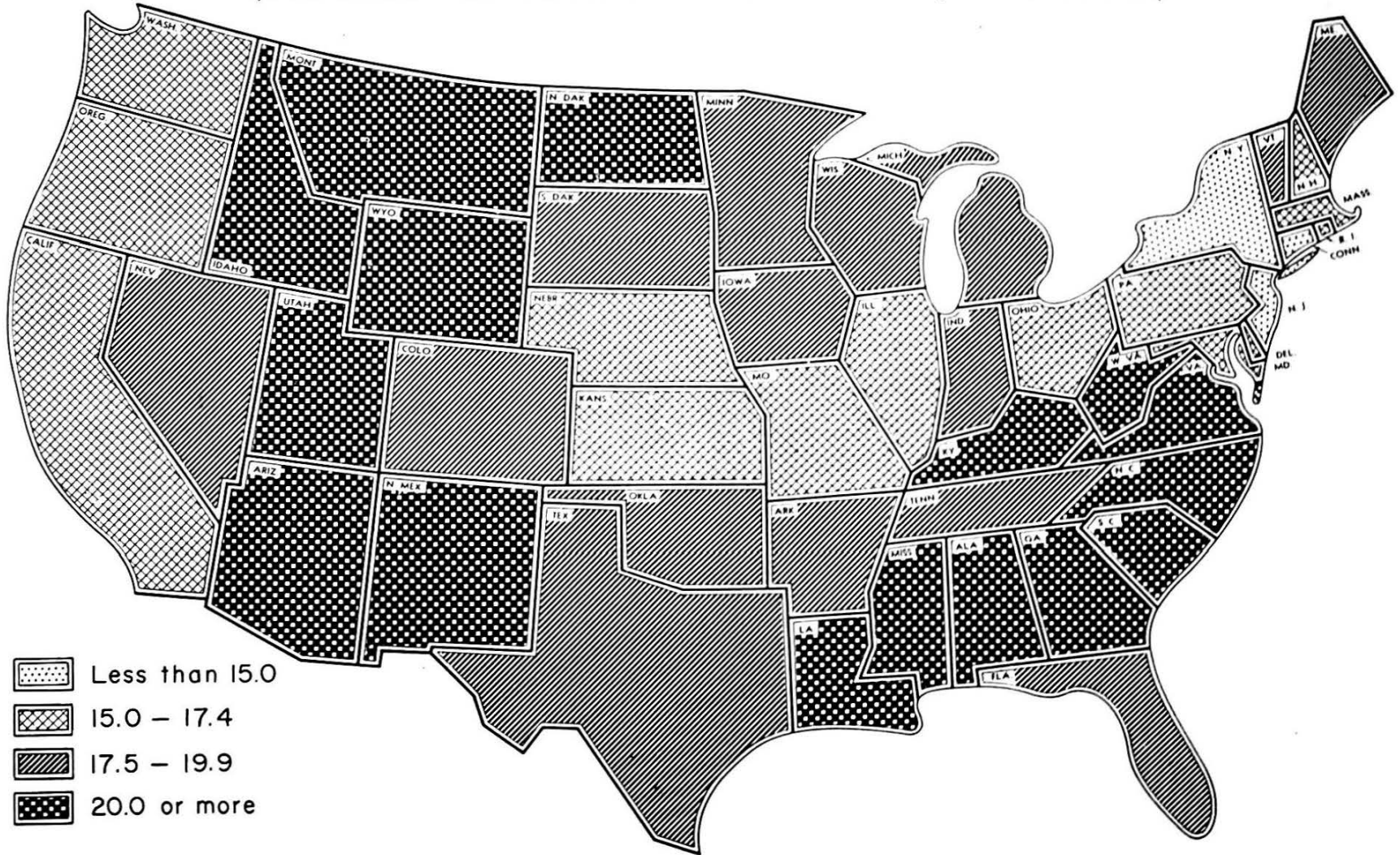
^{2/} Not ranked because of the marked difference between the recorded and the resident rate due to the number of births in Washington hospitals to mothers who live in neighboring States.





^{3/} Included under provisions of title V, parts 1, 2, and 3, of the Social Security Act, which are administered by the Children's Bureau.

^{4/} Not available; Alaska and Puerto Rico are not in the birth-registration area.

BIRTH RATE IN EACH STATE UNITED STATES, 1940

(LIVE BIRTHS THAT OCCURRED IN EACH STATE PER 1,000 POPULATION)



-  Less than 15.0
-  15.0 - 17.4
-  17.5 - 19.9
-  20.0 or more

U. S. Department of Labor
CHILDREN'S BUREAU

Chart No. B 40-2

Based on data from U. S. Bureau of the Census

LIVE BIRTHS THAT OCCURRED IN RURAL AND URBAN AREAS IN EACH STATE: UNITED STATES, 1940
 (States are ranked according to percentage of live births that occurred in rural areas)

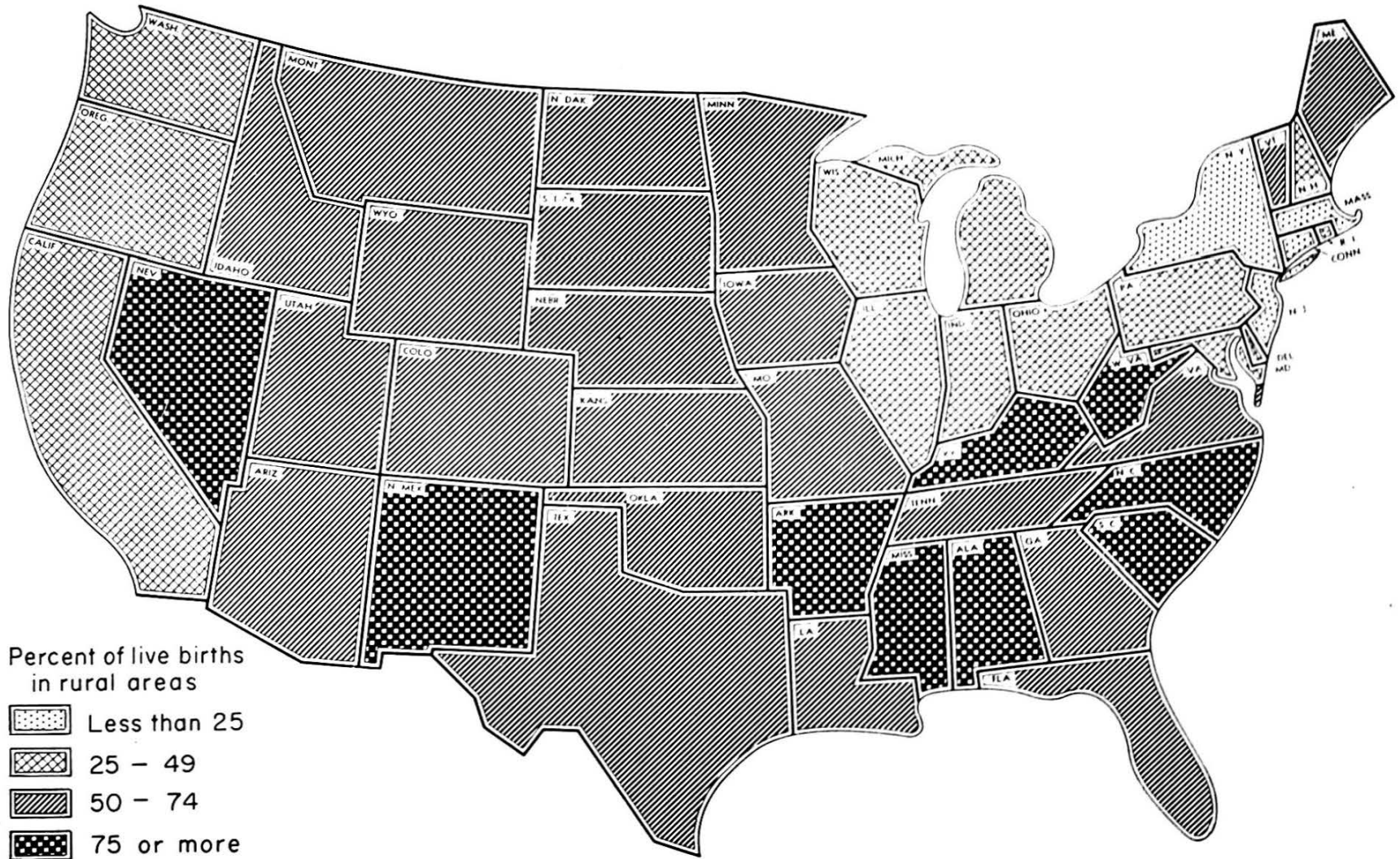
State	Percent of live births that occurred in rural areas ^{1/}	Number of live births that occurred in--	
		Rural areas ^{1/}	Urban areas ^{1/}
Continental United States -----	47.7	1,124,812	1,235,587
Mississippi -----	87.8	46,158	6,417
Nevada -----	86.8	1,788	273
Arkansas -----	84.8	32,546	5,813
South Carolina -----	79.8	35,413	8,967
New Mexico -----	79.5	11,728	3,016
Kentucky -----	78.9	50,193	13,398
West Virginia -----	77.4	32,600	9,503
North Carolina -----	76.1	61,305	19,277
Alabama -----	75.0	47,177	15,748
North Dakota -----	74.7	9,974	3,382
South Dakota -----	72.9	8,474	3,145
Vermont -----	72.3	4,839	1,855
Georgia -----	71.0	46,157	18,841
Virginia -----	70.7	39,023	16,185
Wyoming -----	67.6	3,414	1,638
Tennessee -----	66.6	37,152	18,663
Oklahoma -----	66.1	29,481	15,093
Arizona -----	64.4	7,565	4,189
Idaho -----	64.0	7,498	4,214
Maine -----	64.0	9,675	5,444
Montana -----	62.1	7,139	4,353
Nebraska -----	60.6	13,438	8,724
Louisiana -----	60.2	30,649	20,267
Kansas -----	59.1	16,966	11,729
Texas -----	57.7	73,099	53,588
Iowa -----	55.8	25,367	20,097
Minnesota -----	55.3	29,337	23,746
Florida -----	52.9	17,892	15,926
Colorado -----	51.7	10,940	10,214
Missouri -----	50.6	31,484	30,688
Utah -----	50.1	6,794	6,765
Oregon -----	47.2	8,419	9,429
Indiana -----	45.5	28,199	33,764
Wisconsin -----	45.4	24,888	29,960
New Hampshire -----	43.1	3,669	4,834
Delaware -----	39.8	1,830	2,767
Pennsylvania -----	38.6	64,012	101,668
Washington -----	34.2	9,623	18,518
Maryland -----	34.1	10,325	19,926
Michigan -----	33.5	33,244	65,864
California -----	32.7	36,632	75,379
Ohio -----	32.1	36,844	78,056
Illinois -----	27.7	34,109	89,089
New Jersey -----	16.0	9,359	49,258
New York -----	14.9	29,361	167,527
Connecticut -----	12.3	3,101	22,094
Massachusetts -----	8.1	5,339	60,775
Rhode Island -----	5.5	593	10,212
District of Columbia -----	0.0	-	15,309
Territories and possessions ^{2/}			
Alaska -----	(3)	(3)	(3)
Hawaii -----	45.4	4,273	5,141
Puerto Rico -----	(3)	(3)	(3)

^{1/} Urban areas include cities of 10,000 or more population; all other areas are classified as rural.

^{2/} Included under provisions of title V, parts 1, 2, and 3, of the Social Security Act, which are administered by the Children's Bureau.

^{3/} Not available; Alaska and Puerto Rico are not in the birth-registration area.

PERCENTAGE OF LIVE BIRTHS THAT OCCURRED IN RURAL AREAS OF EACH STATE
UNITED STATES, 1940



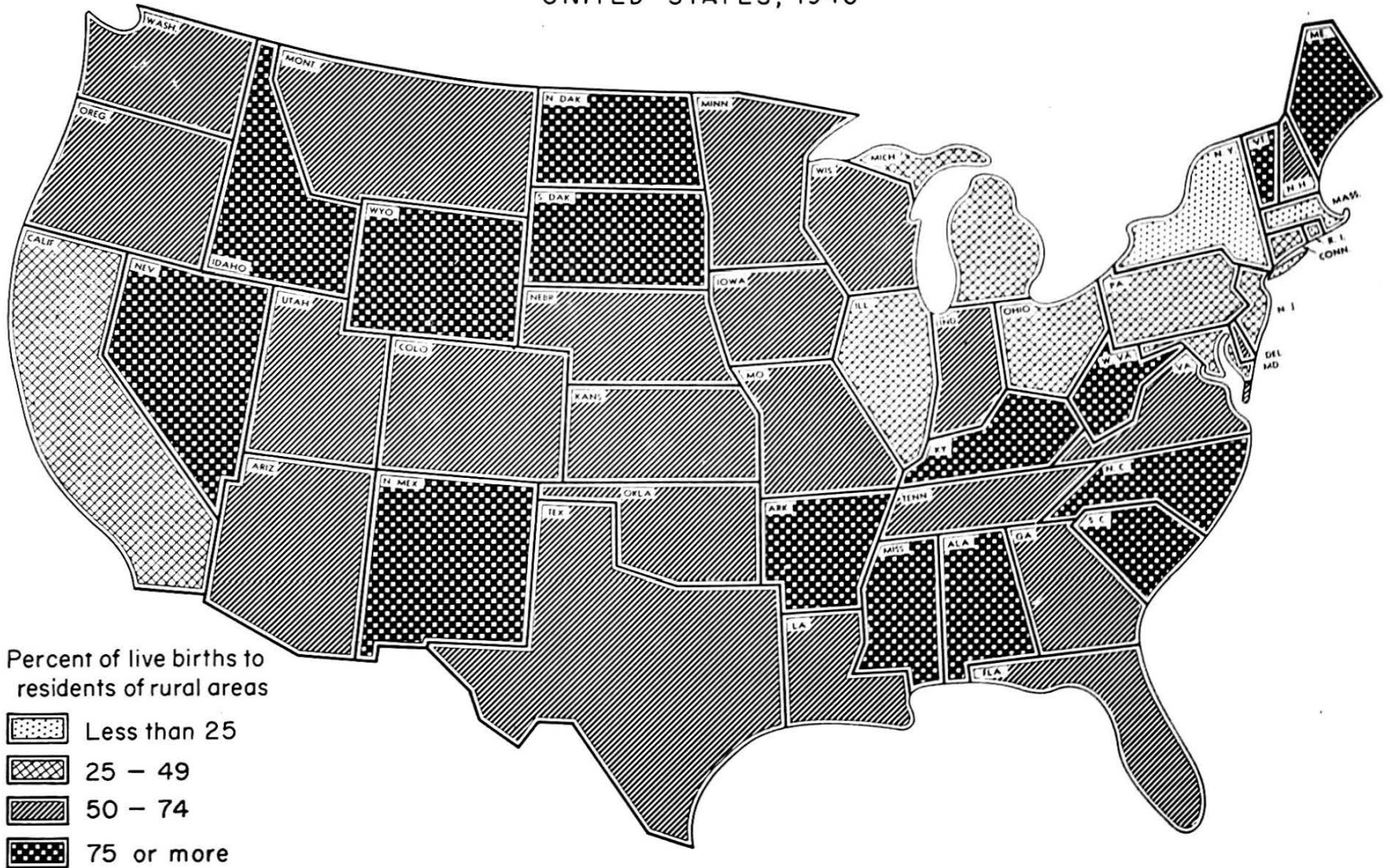
LIVE BIRTHS TO RESIDENTS OF RURAL AND URBAN AREAS OF EACH STATE; UNITED STATES, 1940
 (States are ranked according to percentage of live births to residents of rural areas)

State	Percent of live births to residents of rural areas ^{1/}	Number of live births to residents of—	
		Rural areas ^{1/}	Urban areas ^{1/}
Continental United States ^{2/} ---	56.2	1,326,329	1,034,070
Mississippi -----	90.3	47,596	5,136
Arkansas -----	88.4	34,025	4,448
North Dakota -----	86.0	11,299	1,856
New Mexico -----	84.7	12,529	2,263
South Carolina -----	84.4	37,638	6,974
Vermont -----	84.3	5,852	1,090
South Dakota -----	82.9	9,993	2,061
West Virginia -----	82.6	34,942	7,347
North Carolina -----	81.9	65,899	14,556
Nevada -----	81.8	1,726	383
Kentucky -----	81.0	51,678	12,090
Alabama -----	80.5	50,665	12,273
Idaho -----	78.3	9,229	2,560
Maine -----	75.5	11,491	3,731
Wyoming -----	75.5	3,864	1,325
Virginia -----	74.9	42,727	14,287
Montana -----	74.3	8,581	2,975
Georgia -----	73.6	47,633	17,124
Arizona -----	73.0	8,393	3,110
Oklahoma -----	73.0	32,772	12,115
Tennessee -----	71.9	39,740	15,502
Louisiana -----	70.6	35,910	14,938
Iowa -----	69.9	31,372	13,482
Nebraska -----	69.4	15,289	6,740
Kansas -----	66.8	19,308	9,577
Minnesota -----	65.3	34,535	18,380
Oregon -----	64.8	11,426	6,197
Texas -----	64.2	81,524	45,548
Utah -----	62.3	8,319	5,028
Colorado -----	59.4	12,486	8,548
Florida -----	59.3	20,043	13,756
Delaware -----	59.1	2,691	1,860
Missouri -----	58.9	36,222	25,257
Wisconsin -----	57.0	31,264	23,627
Washington -----	56.1	15,784	12,375
New Hampshire -----	53.6	4,463	3,866
Indiana -----	52.8	32,581	29,079
Maryland -----	49.0	15,862	16,503
Pennsylvania -----	47.7	78,911	86,545
Ohio -----	43.9	50,288	64,375
Michigan -----	42.4	41,963	57,058
California -----	39.5	44,324	67,963
Illinois -----	36.8	45,827	78,788
Connecticut -----	33.9	8,673	16,875
New Jersey -----	33.1	19,778	40,036
New York -----	23.6	46,222	149,866
Massachusetts -----	17.7	11,624	53,927
Rhode Island -----	12.6	1,368	9,462
District of Columbia -----	0	---	11,228

^{1/} Urban areas include cities of 10,000 or more population; all other areas are classified as rural.

^{2/} Territories and possessions are not shown because the information is not available.

PERCENTAGE OF LIVE BIRTHS TO RESIDENTS OF RURAL AREAS OF EACH STATE
 UNITED STATES, 1940

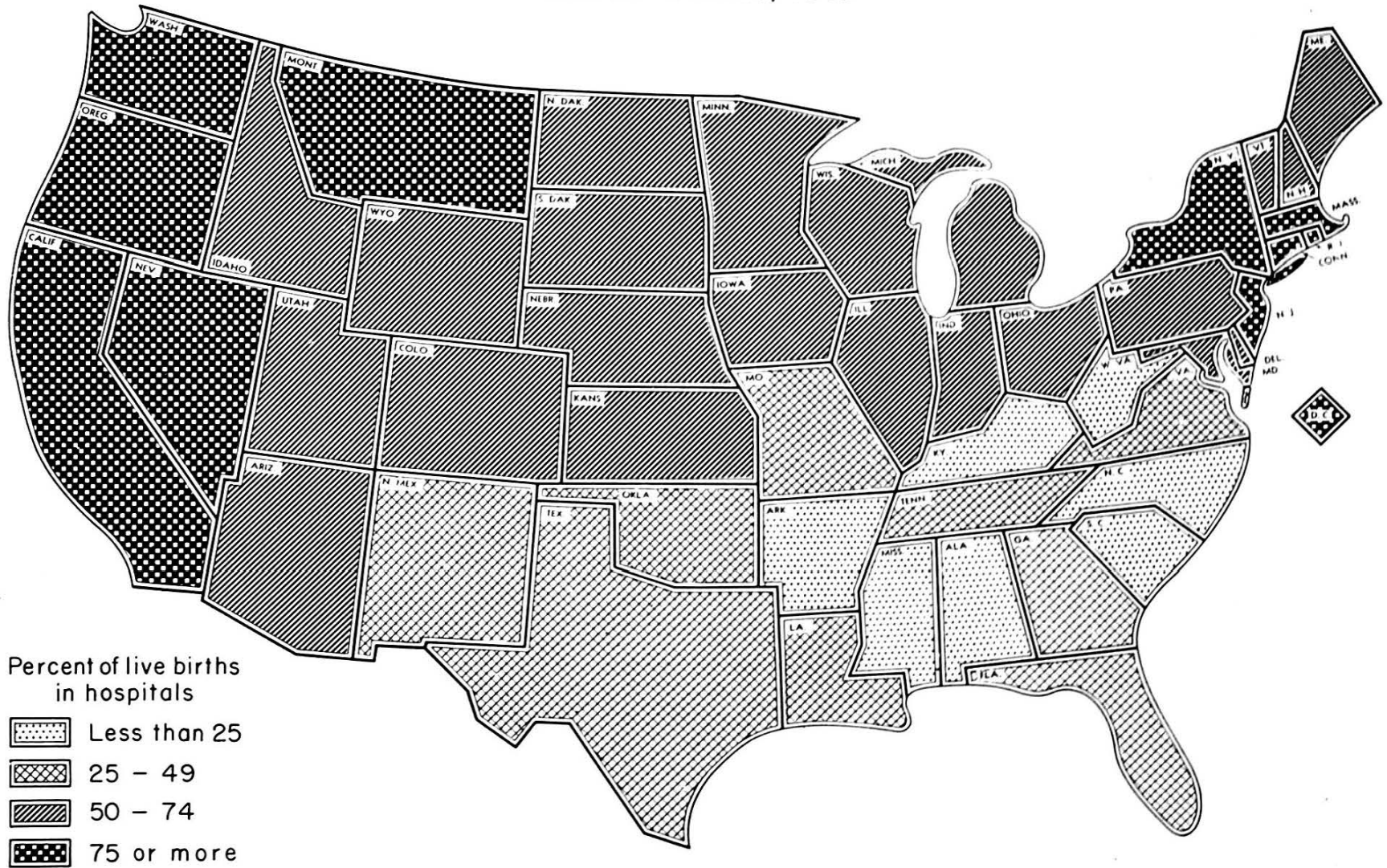


LIVE BIRTHS IN HOSPITALS AND IN HOMES, BY ATTENDANT, IN EACH STATE; UNITED STATES, 1940
 (States are ranked according to percentage of live births that occurred in hospitals)

State	Percent of live births that occurred in hospitals	Number of live births			
		In hospitals	In homes		
			Medical attendant	Midwife	Other and unspecified
Continental United States 1/ -----	55.8	1,316,768	825,271	204,968	13,392
District of Columbia -----	91.4	13,994	1,313	2	-
Connecticut -----	90.8	22,873	2,190	116	16
New York -----	87.0	171,228	24,119	1,406	135
Washington -----	86.6	24,371	3,723	17	30
California -----	86.3	96,693	14,473	531	314
Oregon -----	85.4	15,247	2,464	14	123
Massachusetts -----	85.0	56,180	9,564	7	363
New Jersey -----	83.9	49,206	8,095	1,300	16
Nevada -----	81.2	1,673	338	27	23
Montana -----	81.0	9,304	1,990	111	87
Rhode Island -----	77.2	8,343	2,357	92	13
New Hampshire -----	74.5	6,337	2,157	2	7
Illinois -----	73.7	90,766	31,996	357	79
Wyoming -----	69.2	3,496	1,530	6	20
Delaware -----	69.0	3,170	955	459	13
Minnesota -----	67.9	36,025	16,397	269	392
Utah -----	67.9	9,211	4,202	85	61
Wisconsin -----	64.0	35,116	19,509	147	76
Michigan -----	63.7	63,121	34,774	321	892
Idaho -----	62.8	7,355	4,276	35	46
Ohio -----	62.4	71,662	43,051	99	88
Pennsylvania -----	62.0	102,649	62,284	610	137
Arizona -----	61.9	7,281	3,308	632	533
Colorado -----	61.0	12,903	8,151	43	57
North Dakota -----	61.0	8,150	4,445	330	431
Iowa -----	58.9	26,776	18,664	13	11
Maryland -----	58.4	17,665	10,385	2,143	58
South Dakota -----	55.8	6,484	5,042	14	79
Vermont -----	55.0	3,681	3,005	3	5
Nebraska -----	53.4	11,826	10,325	4	7
Kansas -----	52.6	15,102	13,534	26	33
Indiana -----	52.1	32,257	29,628	72	6
Maine -----	50.0	7,564	7,258	42	255
Missouri -----	47.8	29,745	29,543	1,827	1,057
Florida -----	45.6	15,426	9,546	8,670	176
Louisiana -----	43.8	22,309	13,408	15,173	26
Texas -----	42.3	53,637	52,848	16,861	3,341
Oklahoma -----	39.7	17,679	24,700	1,734	461
Tennessee -----	29.3	16,355	33,391	5,900	169
Virginia -----	29.1	16,088	25,817	12,826	477
Georgia -----	28.6	18,588	23,560	22,666	184
New Mexico -----	28.1	4,142	6,208	3,676	718
North Carolina -----	24.2	19,520	40,987	19,836	239
Alabama -----	20.5	12,888	29,531	20,040	466
West Virginia -----	19.7	8,277	32,219	1,328	279
Kentucky -----	19.1	12,145	39,859	11,463	124
South Carolina -----	18.9	8,400	16,699	19,212	69
Arkansas -----	17.0	6,535	22,376	8,445	1,003
Mississippi -----	13.9	7,325	19,077	25,976	197

1/ Territories and possessions are not shown because the information is not available.

PERCENTAGE OF LIVE BIRTHS THAT OCCURRED IN HOSPITALS IN EACH STATE UNITED STATES, 1940



LIVE BIRTHS IN HOSPITALS AND IN HOMES, BY ATTENDANT, IN CITIES OF SPECIFIED SIZE AND IN RURAL AREAS
UNITED STATES, 1940

Area	Live births ^{1/}						
	Total	In hospitals		In homes			
		Number	Percent	Medical attendant		No medical attendant ^{2/}	
				Number	Percent	Number	Percent
United States -----	2,360,399	1,316,768	55.8	825,271	35.0	218,360	9.2
By Place of Residence							
Cities of 100,000 or more -----	9,142	512,159	85.3	79,888	13.3	8,085	1.4
Cities of 50,000 to 100,000 ----	5,402	97,555	77.8	23,053	18.4	4,794	3.8
Cities of 10,000 to 50,000 ----	18,546	222,859	72.2	73,939	24.0	11,738	3.8
Rural areas ^{3/} -----	1,106,529	484,195	36.5	648,391	48.9	193,743	14.6
By Place of Occurrence							
Cities of 100,000 or more -----	694,490	606,394	87.4	79,528	11.4	8,068	1.2
Cities of 50,000 to 100,000 ----	156,563	128,959	82.4	22,782	14.5	4,822	3.1
Cities of 10,000 to 50,000 ----	384,544	298,295	77.6	74,475	19.4	11,764	3.0
Rural areas ^{3/} -----	1,124,812	282,620	25.1	648,486	57.7	193,706	17.2

^{1/} Data are for the Continental United States.

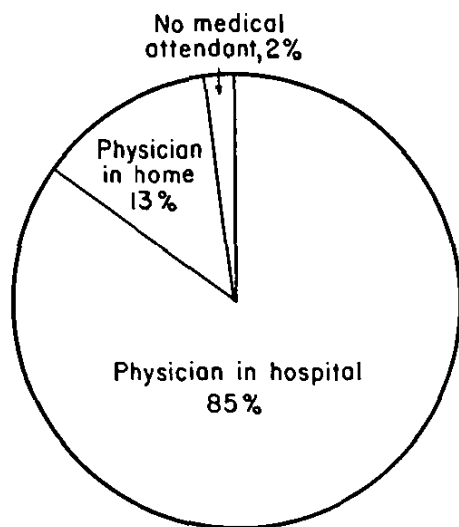
^{2/} Includes midwife, other and unspecified attendant.

^{3/} Includes all areas other than cities of 10,000 or more population.

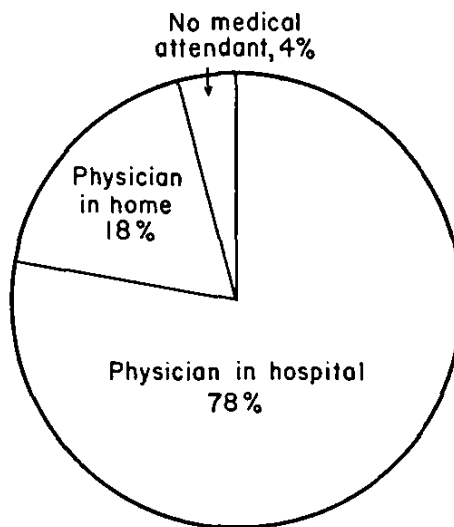
ATTENDANT AT BIRTH

LIVE BIRTHS TO RESIDENTS OF CITIES OF SPECIFIED SIZE AND OF RURAL AREAS
UNITED STATES, 1940

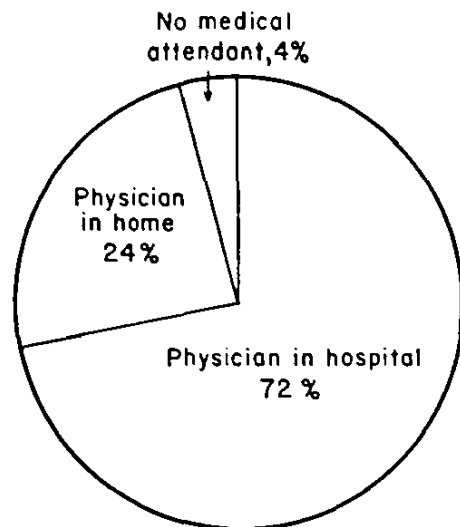
Cities of 100,000 or more



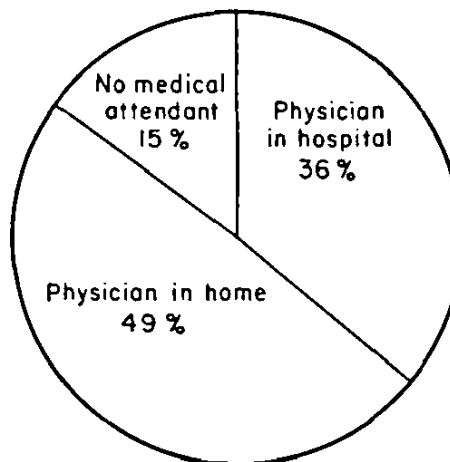
Cities of 50,000 to 100,000



Cities of 10,000 to 50,000



Rural areas



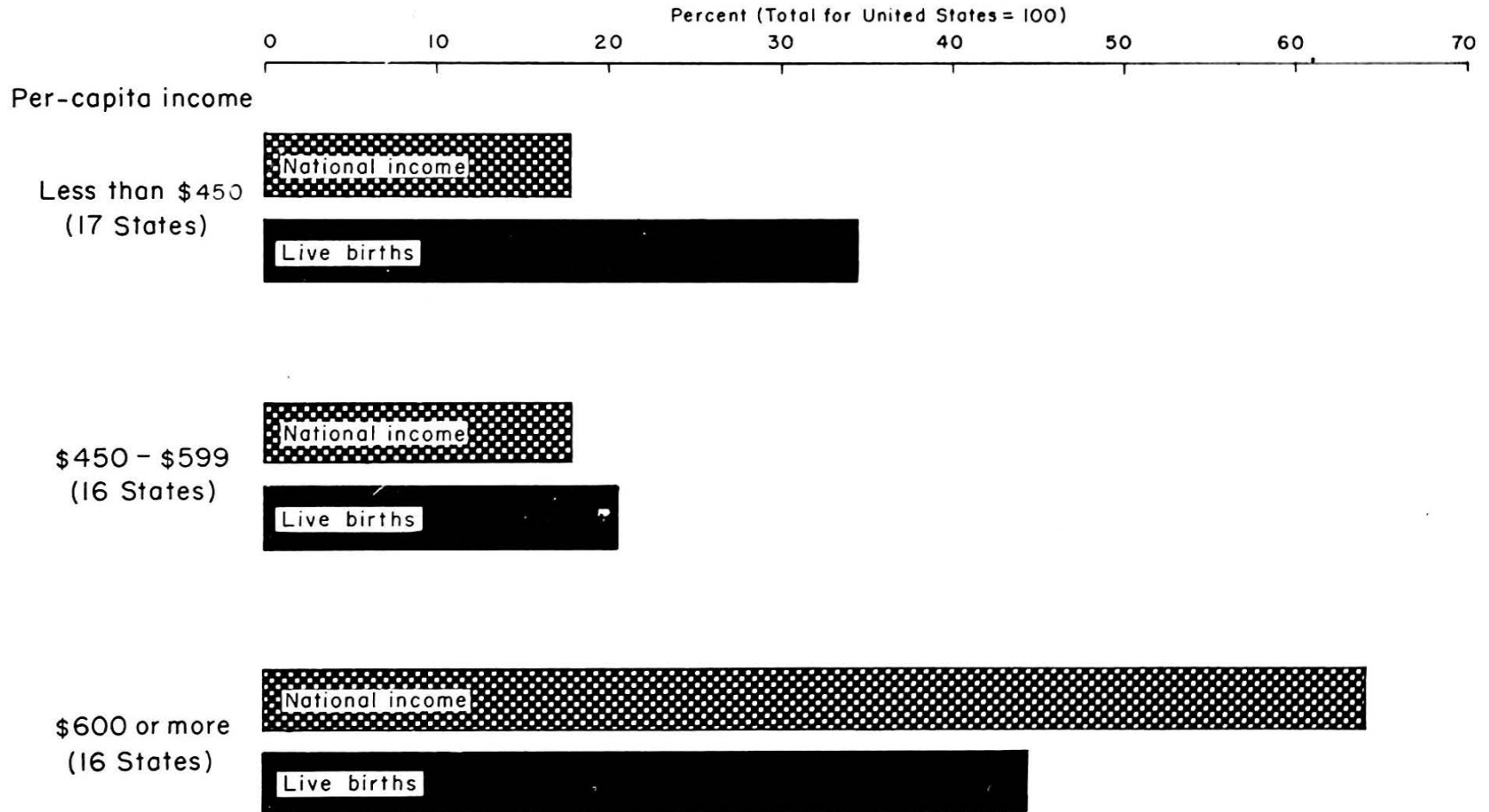
Page 6 B

INCOME RECEIVED AND LIVE BIRTHS THAT OCCURRED IN EACH STATE; UNITED STATES, 1940
(States are ranked according to per capita income)

State and income group	Per capita income	Total income		Live births	
		Amount (in millions)	Percent distribution	Number	Percent distribution
Continental United States ^{1/} -----	\$573	\$75,512	100.0	2,360,399	100.0
Less than \$450 per capita -----	---	13,395	17.7	813,081	34.7
Mississippi -----	195	427	0.6	52,575	2.2
Arkansas -----	253	404	0.7	38,359	1.6
Alabama -----	264	748	1.0	62,925	2.7
South Carolina -----	281	574	0.7	44,320	1.9
Georgia -----	321	1,006	1.3	64,008	2.7
Tennessee -----	325	949	1.3	55,815	2.4
Kentucky -----	330	941	1.2	63,501	2.7
North Carolina -----	335	1,136	1.5	80,522	3.4
Louisiana -----	350	830	1.1	50,916	2.2
Oklahoma -----	354	828	1.1	44,574	1.9
New Mexico -----	356	190	0.2	14,744	0.6
South Dakota -----	384	248	0.3	11,619	0.5
North Dakota -----	385	247	0.3	13,356	0.6
West Virginia -----	401	764	1.0	42,103	1.8
Kansas -----	418	753	1.0	28,695	1.2
Texas -----	422	2,715	3.6	126,627	5.4
Nebraska -----	444	585	0.8	22,162	0.9
\$450 - \$599 per capita -----	---	13,402	17.8	424,301	20.5
Virginia -----	455	1,135	1.5	55,208	2.3
Florida -----	465	888	1.2	33,818	1.4
Idaho -----	470	248	0.3	11,712	0.5
Iowa -----	471	1,197	1.6	45,464	1.9
Arizona -----	478	240	0.3	11,744	0.5
Utah -----	487	268	0.4	13,559	0.6
Missouri -----	499	1,890	2.5	62,172	2.6
Maine -----	504	428	0.6	15,119	0.6
Minnesota -----	526	1,473	2.0	53,083	2.3
Wisconsin -----	537	1,690	2.2	54,848	2.3
Vermont -----	542	195	0.3	6,694	0.3
Colorado -----	551	621	0.8	21,154	0.9
Indiana -----	551	1,890	2.5	61,963	2.6
New Hampshire -----	560	275	0.4	8,503	0.4
Montana -----	579	325	0.4	11,492	0.5
Oregon -----	586	639	0.8	17,848	0.8
\$600 or more per capita -----	---	48,715	64.5	1,057,927	44.8
Pennsylvania -----	624	6,185	8.2	165,680	7.0
Washington -----	633	1,101	1.5	28,141	1.2
Wyoming -----	638	162	0.2	5,052	0.2
Ohio -----	644	4,453	5.9	114,900	4.9
Michigan -----	656	3,466	4.6	99,108	4.2
Illinois -----	691	5,462	7.2	123,198	5.2
Maryland -----	703	1,208	1.6	30,251	1.3
Rhode Island -----	730	521	0.7	10,805	0.5
Massachusetts -----	757	3,271	4.3	66,114	2.8
New York -----	814	11,543	15.3	196,888	8.3
California -----	819	5,680	7.5	112,011	4.7
Delaware -----	836	224	0.3	4,597	0.2
New Jersey -----	852	3,011	4.0	58,617	2.5
Connecticut -----	864	1,477	2.0	25,195	1.1
Nevada -----	960	106	0.1	2,061	0.1
District of Columbia -----	1,022	845	1.1	15,309	0.6

^{1/} Territories and possessions are not shown because complete information is not available.

PERCENTAGE OF NATIONAL INCOME RECEIVED AND OF TOTAL LIVE BIRTHS
 THAT OCCURRED IN STATES GROUPED ACCORDING TO PER-CAPITA INCOME
 UNITED STATES, 1940

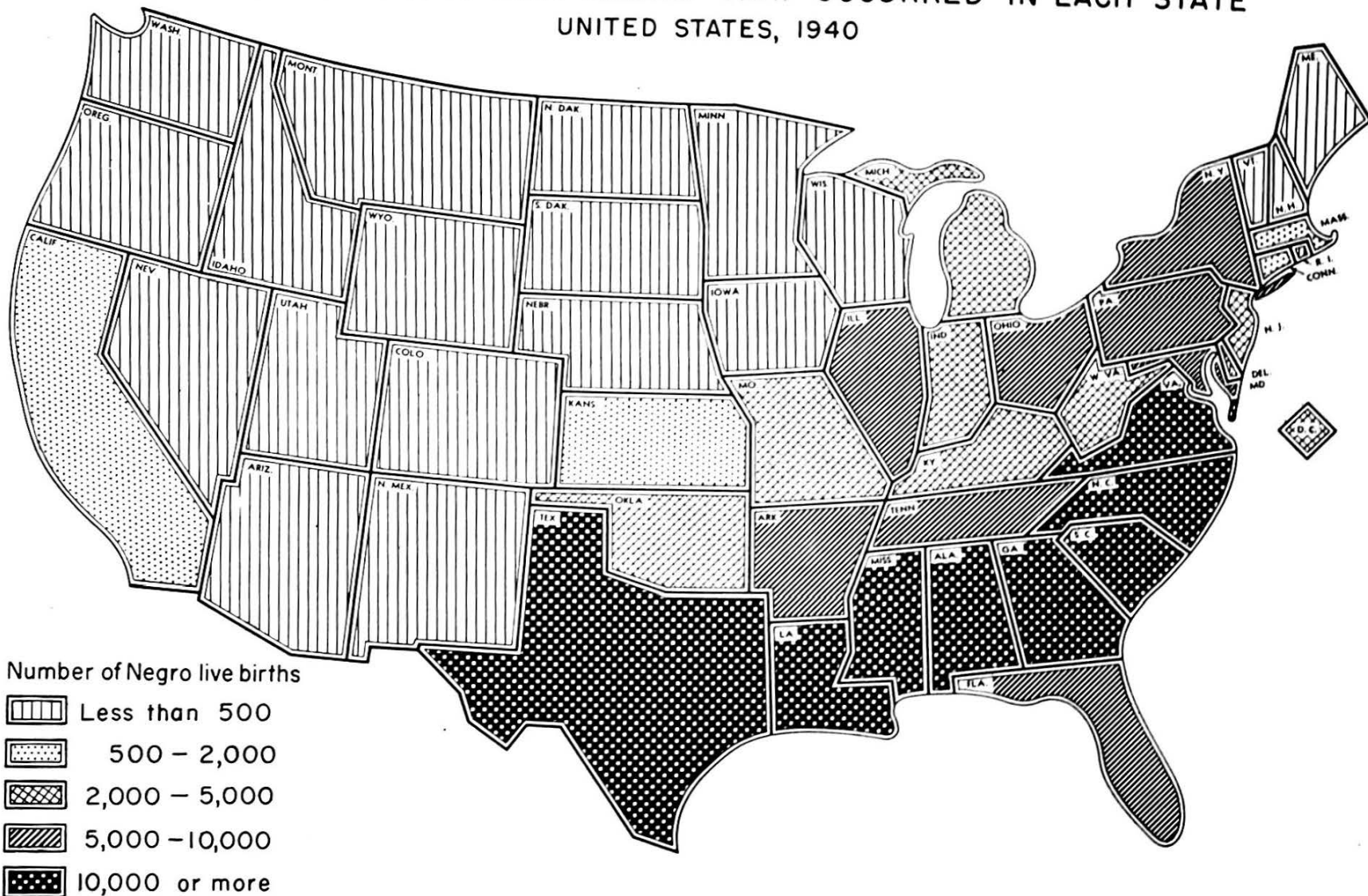


NEGRO LIVE BIRTHS THAT OCCURRED IN RURAL AND IN URBAN AREAS IN EACH STATE; UNITED STATES, 1940
(States are ranked according to the number of Negro live births)

State	Negro live births				
	Total	Rural areas ^{1/}		Urban areas ^{1/}	
		Number	Percent	Number	Percent
Continental United States ^{2/} -----	278,369	170,481	61.1	108,388	38.9
Mississippi -----	29,558	27,217	92.8	2,121	7.2
Georgia -----	25,682	19,475	75.8	6,209	24.2
North Carolina -----	25,056	19,745	78.8	5,313	21.2
Alabama -----	24,017	18,504	77.0	5,513	23.0
South Carolina -----	21,978	18,894	86.0	3,084	14.0
Louisiana -----	20,998	15,511	65.4	7,087	36.6
Texas -----	15,756	9,577	60.9	6,159	39.1
Virginia -----	15,518	11,170	72.0	4,348	28.0
Florida -----	9,900	6,057	61.0	3,863	39.0
New York -----	9,755	648	6.6	9,105	93.4
Pennsylvania -----	9,595	848	9.0	8,547	91.0
Arkansas -----	9,198	8,227	89.4	971	10.6
Tennessee -----	8,523	4,075	47.8	4,448	52.2
Illinois -----	6,749	558	8.3	6,191	91.7
Maryland -----	6,572	2,410	36.7	4,162	63.3
Ohio -----	6,089	690	11.3	5,399	88.7
District of Columbia -----	4,597	-	-	4,597	100.0
New Jersey -----	4,578	805	17.5	3,775	82.5
Missouri -----	4,176	1,125	26.9	3,053	73.1
Michigan -----	3,941	202	5.1	3,739	94.9
Kentucky -----	3,195	1,905	59.6	1,292	40.4
Oklahoma -----	2,629	1,565	59.5	1,064	40.5
West Virginia -----	2,199	1,811	82.4	388	17.6
Indiana -----	2,190	118	5.4	2,072	94.6
California -----	1,845	353	19.1	1,492	80.9
Kansas -----	995	201	20.2	794	79.8
Massachusetts -----	960	141	14.7	819	85.3
Delaware -----	744	440	59.1	304	40.9
Connecticut -----	652	55	8.7	577	91.3
Arizona -----	244	113	(3)	131	(3)
Rhode Island -----	240	25	(3)	217	(3)
Iowa -----	214	16	(3)	198	(3)
Nebraska -----	210	9	(3)	201	(3)
Colorado -----	204	24	(3)	180	(3)
Wisconsin -----	205	115	(3)	88	(3)
Minnesota -----	135	6	(3)	127	(3)
Washington -----	86	15	(3)	71	(3)
New Mexico -----	40	22	(3)	18	(3)
Oregon -----	29	3	(3)	26	(3)
Montana -----	19	8	(3)	11	(3)
Maine -----	19	8	(3)	11	(3)
Nevada -----	9	9	(3)	-	-
Utah -----	9	-	-	9	(3)
New Hampshire -----	8	4	(3)	4	(3)
Wyoming -----	7	4	(3)	3	(3)
Idaho -----	5	2	(3)	3	(3)
South Dakota -----	4	2	(3)	2	(3)
Vermont -----	3	1	(3)	2	(3)
North Dakota -----	0	-	-	-	-

^{1/} Urban areas include cities of 10,000 or more population; all other areas are classified as rural.
^{2/} Territories and possessions are not shown because the information is not available.
^{3/} Not shown because the number of Negro live births was less than 500.

NUMBER OF NEGRO LIVE BIRTHS THAT OCCURRED IN EACH STATE UNITED STATES, 1940



U. S. Department of Labor
CHILDREN'S BUREAU

Chart No. B 40-7

Based on data from U. S. Bureau of the Census

NUMBER AND PERCENTAGE OF LIVE BIRTHS THAT WERE NEGRO; UNITED STATES AND EACH OF
 THE 29 STATES WITH 500 OR MORE NEGRO LIVE BIRTHS, 1940
 (States with 500 or more Negro live births are ranked according to
 percentage that were Negro)

State	Percent of live births that were Negro	Number of live births	
		Negro	All races
Continental United States ^{1/} -----	11.8	278,869	2,360,399
States with 500 or more Negro live births ^{2/} -----	14.0	277,183	1,981,229
Mississippi -----	55.8	29,338	52,575
South Carolina -----	49.5	21,978	44,380
Louisiana -----	41.2	20,998	50,916
Georgia -----	39.5	25,632	64,998
Alabama -----	38.2	24,017	62,925
North Carolina -----	31.1	25,056	80,582
District of Columbia -----	30.0	4,597	15,309
Florida -----	29.3	9,900	33,818
Virginia -----	28.1	15,518	55,208
Arkansas -----	24.0	9,198	38,359
Maryland -----	21.7	6,572	30,251
Delaware -----	16.2	744	4,597
Tennessee -----	15.3	8,523	55,815
Texas -----	12.4	15,736	126,687
New Jersey -----	7.8	4,578	58,617
Missouri -----	6.7	4,176	62,172
Oklahoma -----	5.9	2,629	44,574
Pennsylvania -----	5.7	9,395	165,680
Illinois -----	5.5	6,749	123,198
Ohio -----	5.3	6,089	114,900
West Virginia -----	5.2	2,199	42,103
Kentucky -----	5.0	3,195	63,591
New York -----	5.0	9,753	196,888
Michigan -----	4.0	3,941	99,108
Indiana -----	3.5	2,190	61,963
Kansas -----	3.5	995	28,695
Connecticut -----	2.5	632	25,195
California -----	1.6	1,845	112,011
Massachusetts -----	1.5	960	66,114
All other States ^{3/} -----	0.4	1,686	379,170

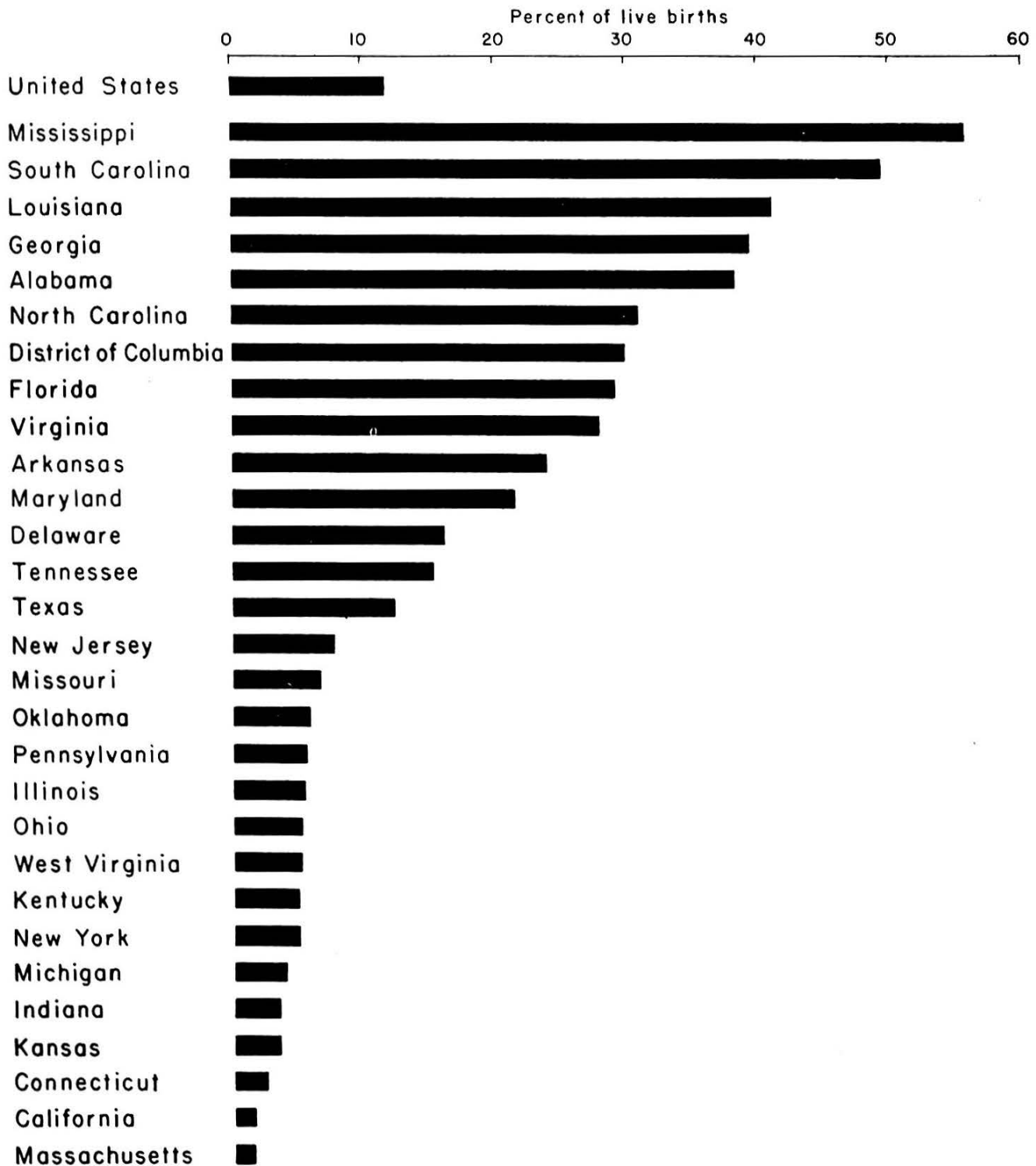
^{1/} Territories and possessions are not shown because the information is not available.

^{2/} Ninety-nine percent (277,183) of the 278,869 Negro live births that occurred in the United States occurred in the 29 States with 500 or more Negro live births.

^{3/} The 20 States with less than 500 Negro live births.

PERCENTAGE OF LIVE BIRTHS THAT WERE NEGRO

UNITED STATES AND EACH OF THE 29 STATES WITH 500 OR MORE NEGRO LIVE BIRTHS, 1940



NUMBER AND PERCENTAGE OF NEGRO LIVE BIRTHS WITH NO MEDICAL ATTENDANT; UNITED STATES
AND EACH OF THE 29 STATES WITH 500 OR MORE NEGRO LIVE BIRTHS, 1940
(States with 500 or more Negro live births are ranked according to percentage of
Negro live births with no medical attendant)

State	Negro live births		
	With no medical attendant		Total
	Percent	Number	
Continental United States ^{1/} -----	50.8	141,738	278,869
States with 500 or more Negro live births -----	51.1	141,696	277,183
Mississippi -----	83.1	24,387	29,338
South Carolina -----	79.8	17,534	21,978
Arkansas -----	77.0	7,081	9,198
Georgia -----	73.2	18,810	25,682
Florida -----	71.1	7,036	9,900
Alabama -----	69.3	16,650	24,017
North Carolina -----	59.5	14,918	25,056
Virginia -----	59.4	9,222	15,518
Louisiana -----	57.2	12,010	20,998
Texas -----	47.7	7,508	15,736
Delaware -----	46.8	348	744
Oklahoma -----	39.8	1,046	2,629
Tennessee -----	27.5	2,346	8,523
Maryland -----	23.5	1,544	6,572
Missouri -----	11.8	494	4,176
Kentucky -----	9.9	316	3,195
Massachusetts -----	4.6	44	960
West Virginia -----	1.8	39	2,199
New York -----	1.4	140	9,753
Michigan -----	1.1	44	3,941
New Jersey -----	1.0	46	4,578
California -----	0.9	16	1,845
Illinois -----	0.8	52	6,749
Connecticut -----	0.5	3	632
Pennsylvania -----	0.5	48	9,395
Kansas -----	0.4	4	995
Indiana -----	0.1	2	2,190
Ohio -----	0.1	6	6,089
District of Columbia -----	(2)	2	4,597
All other States ^{3/} -----	2.5	42	1,686

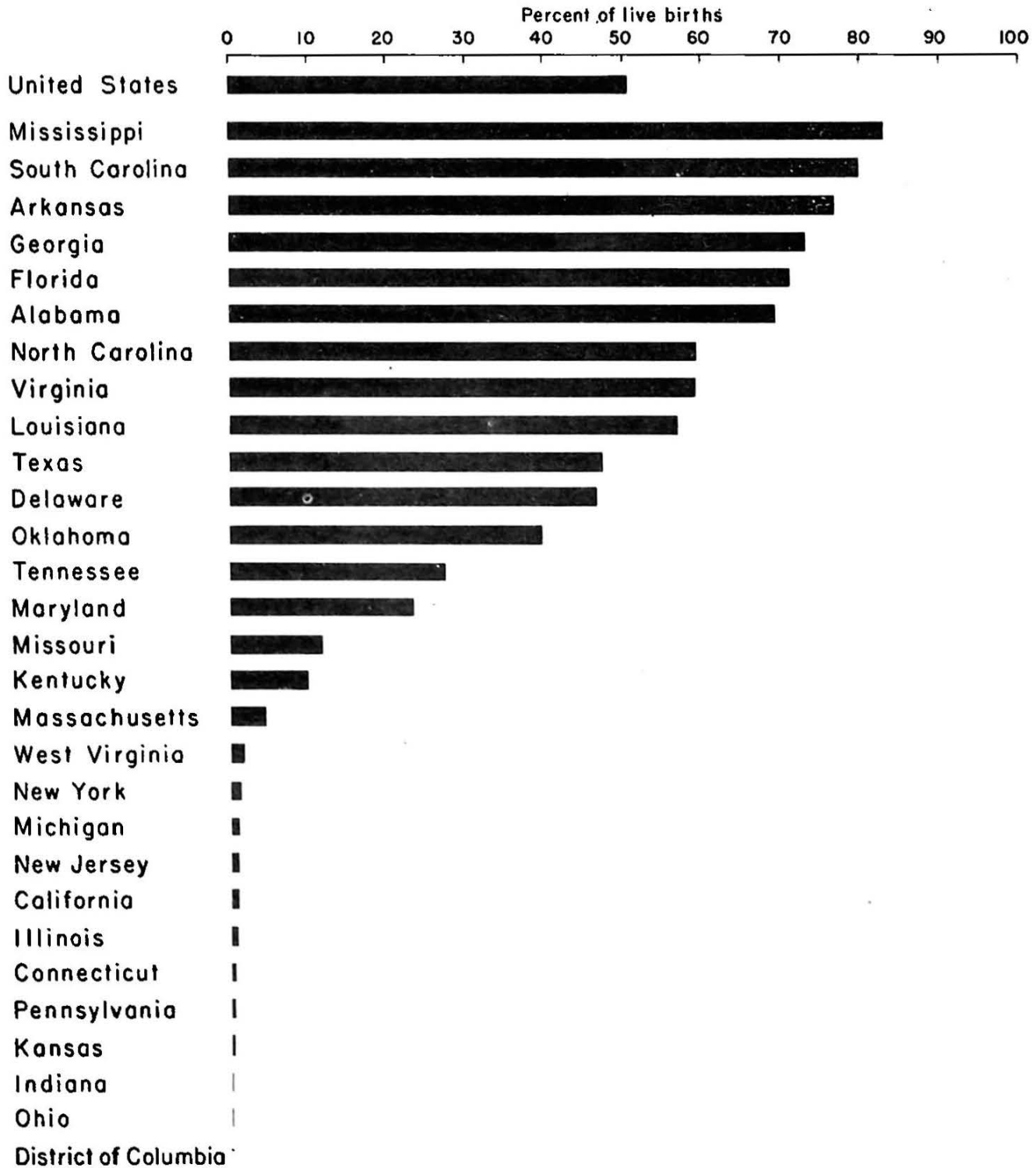
PAGE 10 A

^{1/} Territories and possessions are not shown because the information is not available.

^{2/} Less than one-tenth of 1 percent.

^{3/} The 20 States with less than 500 Negro live births.

**PERCENTAGE OF NEGRO LIVE BIRTHS WITH NO MEDICAL ATTENDANT
UNITED STATES AND EACH OF THE 29 STATES WITH 500 OR MORE NEGRO LIVE BIRTHS, 1940**



INFANT MORTALITY RATE, INFANT DEATHS, AND LIVE BIRTHS IN EACH STATE; UNITED STATES, 1940
(States are ranked according to infant mortality rate)

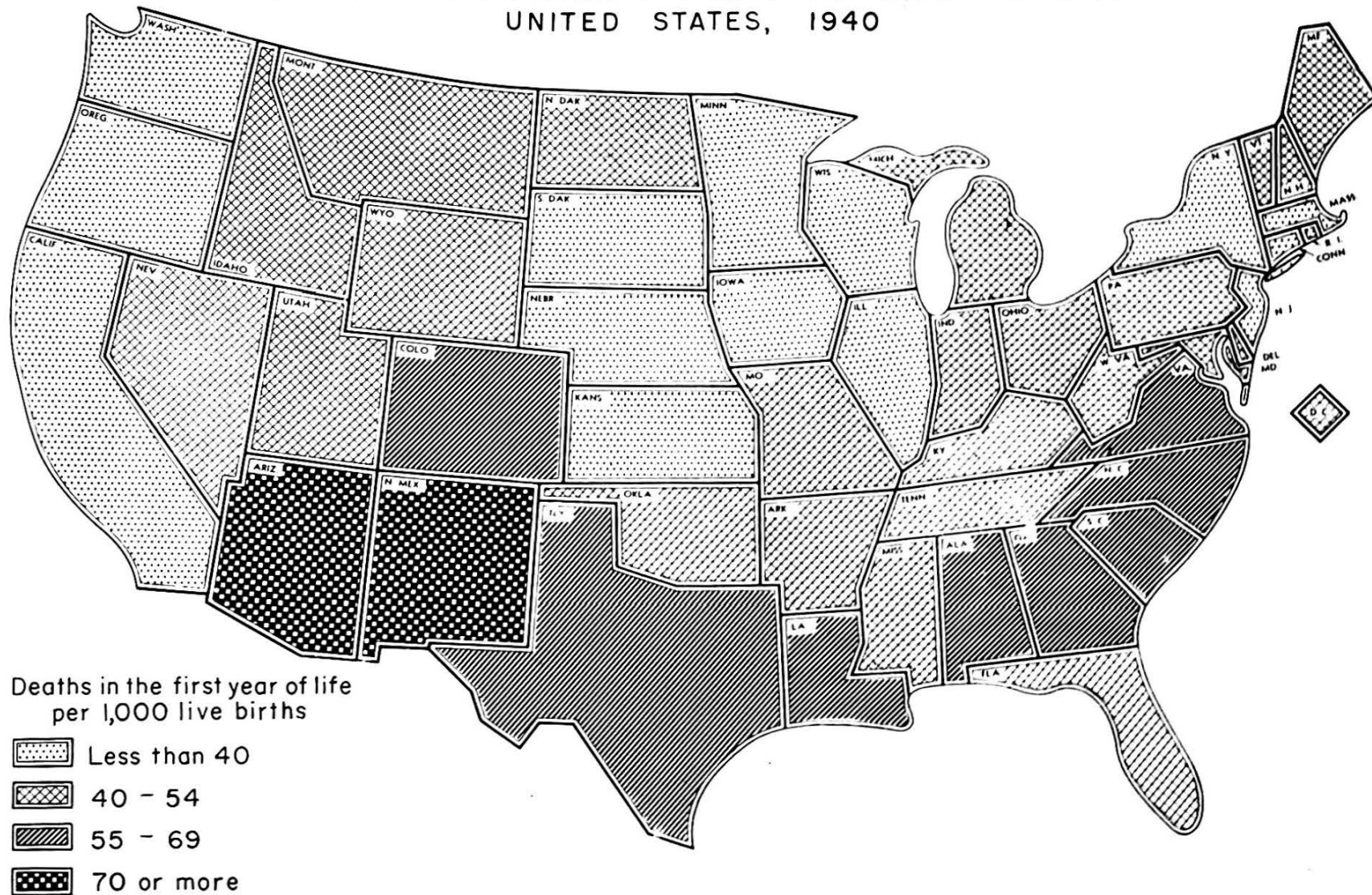
State	Deaths in the first year of life per 1,000 live births	Number of--	
		Infant deaths	Live births
Continental United States -----	47.0	110,984	2,360,399
Oregon -----	32.9	588	17,848
Minnesota -----	33.3	1,769	53,083
Connecticut -----	34.1	858	25,195
Illinois -----	35.3	4,343	123,198
New Jersey -----	35.6	2,086	58,617
Washington -----	35.7	1,005	28,141
Nebraska -----	35.7	792	22,162
Iowa -----	36.7	1,670	45,464
New York -----	37.2	7,322	196,888
Wisconsin -----	37.2	2,041	54,848
Massachusetts -----	37.5	2,478	66,114
Kansas -----	38.1	1,093	28,695
Rhode Island -----	38.2	413	10,805
South Dakota -----	39.2	456	11,619
California -----	39.4	4,411	112,011
New Hampshire -----	40.0	340	8,503
Utah -----	40.6	551	13,559
Michigan -----	40.7	4,033	99,108
Ohio -----	41.4	4,759	114,900
Indiana -----	41.9	2,596	61,963
Idaho -----	42.3	495	11,712
Pennsylvania -----	44.7	7,400	165,680
Vermont -----	45.0	301	6,694
North Dakota -----	45.1	603	13,356
Arkansas -----	45.7	1,752	38,359
Montana -----	46.2	531	11,492
Wyoming -----	46.3	234	5,052
Missouri -----	46.9	2,913	62,172
District of Columbia -----	47.0	719	15,309
Delaware -----	48.9	225	4,597
Maryland -----	49.6	1,499	30,251
Oklahoma -----	49.7	2,214	44,574
Nevada -----	51.9	107	2,061
Kentucky -----	52.8	3,358	63,591
Maine -----	53.5	809	15,119
Florida -----	53.6	1,814	33,818
West Virginia -----	53.9	2,269	42,103
Mississippi -----	54.3	2,854	52,575
Tennessee -----	54.7	3,052	55,815
North Carolina -----	57.4	4,629	80,582
Georgia -----	57.9	3,761	64,998
Virginia -----	59.3	3,272	55,208
Colorado -----	59.8	1,266	21,154
Alabama -----	61.4	3,864	62,925
Louisiana -----	64.2	3,271	50,916
South Carolina -----	68.1	3,024	44,380
Texas -----	68.6	8,685	126,687
Arizona -----	84.3	991	11,754
New Mexico -----	99.6	1,468	14,744
Territories and possessions ^{1/}			
Alaska -----	(2)	(3)	(2)
Hawaii -----	44.7	421	9,414
Puerto Ri -----	(2)	8,221	(2)

^{1/} Included under the provisions of title V, parts 1, 2, and 3, of the Social Security Act, which are administered by the Children's Bureau.

^{2/} Not available; Alaska and Puerto Rico are not in the birth-registration area.

^{3/} Not available; Alaska is not in the death-registration area.

INFANT MORTALITY RATE IN EACH STATE UNITED STATES, 1940



U. S. Department of Labor
CHILDREN'S BUREAU
Chart No. 1 M 40-1

Based on data from U. S. Bureau of the Census

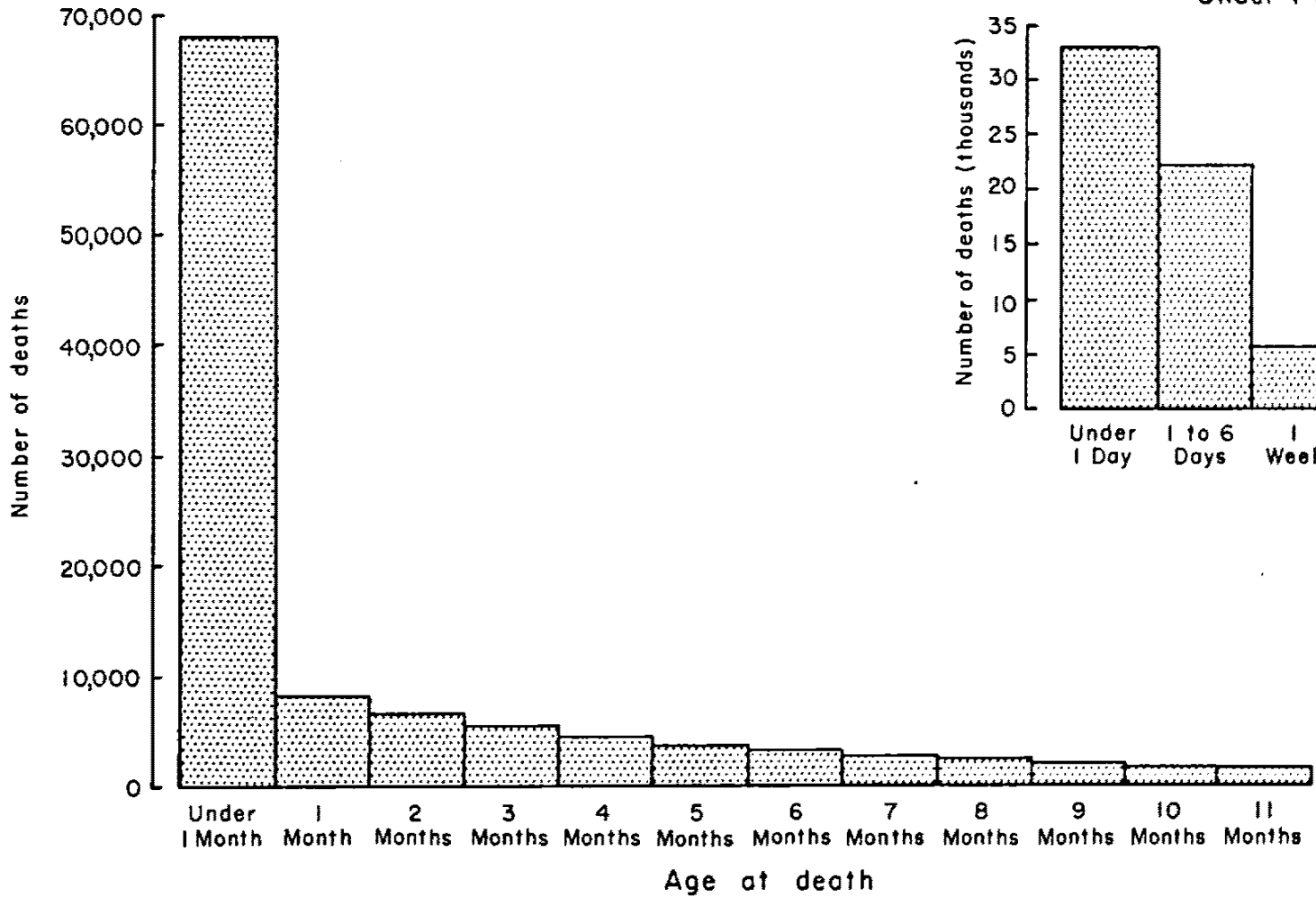
INFANT DEATHS, BY AGE IN MONTHS: UNITED STATES, 1940

Age at death	Deaths in the first year of life ^{1/}	
	Number	Percent distribution
Under 1 year -----	110,984	100
Under 1 month -----	67,866	61
Under 1 day -----	32,870	30
1 to 6 days -----	22,109	20
1 week -----	5,754	5
2 weeks -----	3,777	3
3 weeks -----	3,356	3
1 to 11 months -----	43,118	39
1 month -----	8,246	7
2 months -----	6,769	6
3 months -----	5,554	5
4 months -----	4,558	4
5 months -----	3,763	3
6 months -----	3,297	3
7 months -----	2,796	3
8 months -----	2,455	2
9 months -----	2,096	2
10 months -----	1,835	2
11 months -----	1,749	2

^{1/} Data are for the Continental United States.

Note: Of the 2,360,399 infants born alive in 1940, 67,866 died in the first month of life; the neonatal mortality rate, therefore, was 29 deaths per 1,000 live births. Of the 2,292,533 infants that survived the first month of life 43,118 died before completing the first year of life; the mortality rate for infants in the second to twelfth month of life, therefore, was 19 deaths per 1,000 infants alive at the beginning of the second month of life.

INFANT DEATHS, BY AGE IN MONTHS UNITED STATES, 1940



INFANT MORTALITY RATES, BY AGE; UNITED STATES EXPANDING BIRTH-REGISTRATION AREA, 1915-40

Year	Deaths per 1,000 live births ^{1/}				Expanding birth-registration area ^{1/}	
	First year	First month (Neonatal period)		Second to twelfth month ^{2/}	Number of States ^{3/}	Percent of United States population
		Total	First day			
1940---	47.0	28.8	13.9	18.8	48	100.0
1939---	48.0	29.3	14.1	19.3	48	100.0
1938---	51.0	29.6	14.1	22.1	48	100.0
1937---	54.4	31.3	14.7	23.9	48	100.0
1936---	57.1	32.6	15.1	25.4	48	100.0
1935---	55.7	32.4	15.0	24.1	48	100.0
1934---	60.1	34.1	15.4	26.9	48	100.0
1933---	58.1	34.0	15.1	25.0	48	100.0
1932---	57.6	33.5	15.0	24.9	47	95.2
1931---	61.6	34.6	15.0	28.0	46	94.7
1930---	64.6	35.7	15.0	30.0	46	94.7
1929---	67.6	36.9	15.3	31.9	46	94.7
1928---	68.7	37.2	15.3	32.7	44	94.3
1927---	64.6	36.1	15.1	29.6	40	87.6
1926---	73.3	37.9	15.2	36.8	35	77.0
1925---	71.7	37.8	15.0	35.2	33	76.2
1924---	70.8	38.6	14.8	33.5	33	76.2
1923---	77.1	39.5	14.7	39.2	30	72.3
1922---	76.2	39.7	14.9	38.0	30	72.3
1921---	75.6	39.7	14.5	37.4	27	65.4
1920---	85.8	41.5	14.8	46.3	23	59.8
1919---	86.6	41.5	14.5	47.1	22	58.6
1918---	100.9	44.2	15.4	59.3	20	53.6
1917---	93.8	43.4	15.0	52.6	20	53.6
1916---	101.0	44.1	14.8	59.6	11	32.5
1915---	99.9	44.4	15.0	58.1	10	31.1

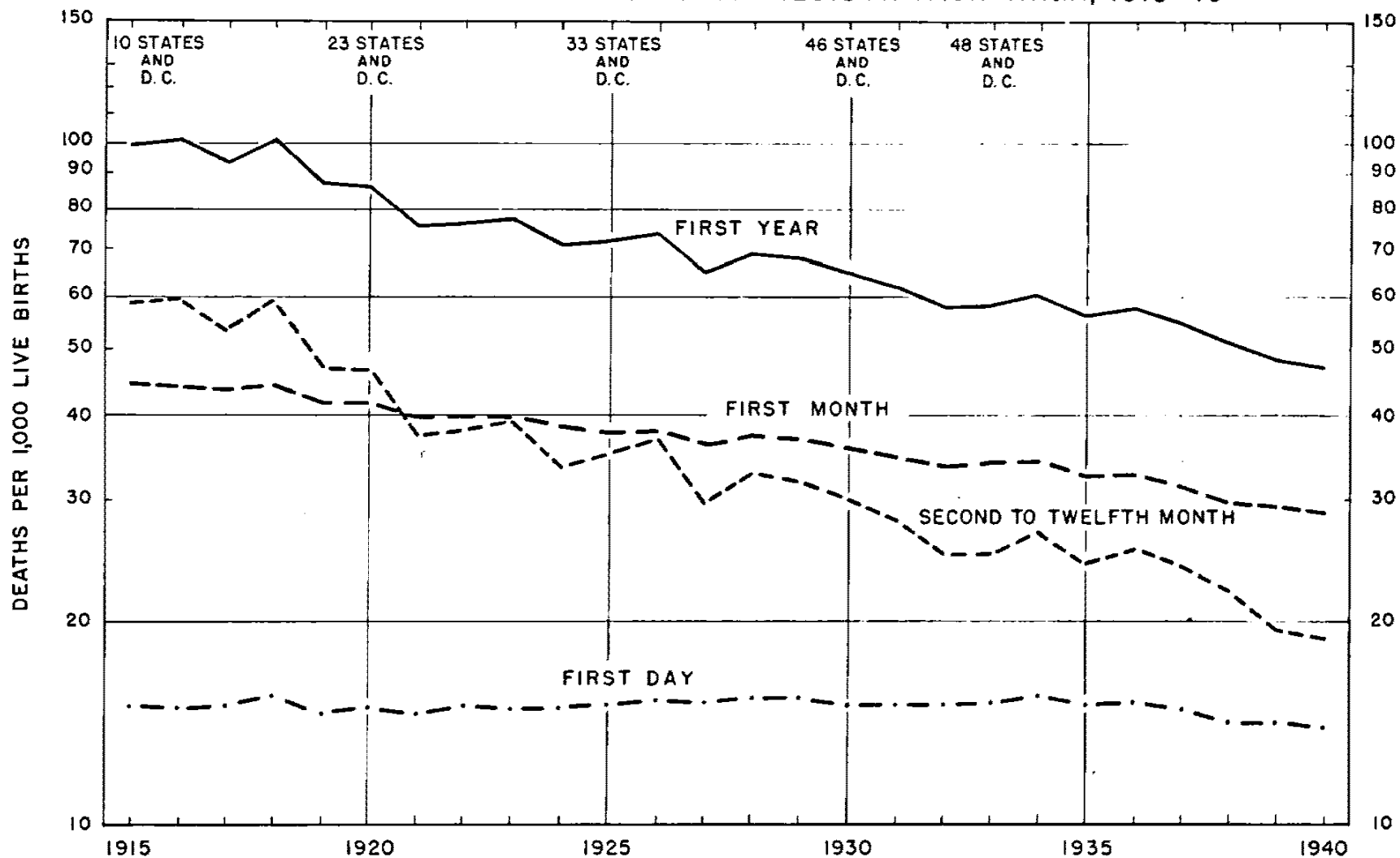
- ^{1/} Data are for the expanding birth-registration area in the Continental United States.
- ^{2/} Deaths per 1,000 infants alive at the beginning of the second month of life.
- ^{3/} The District of Columbia was in the area every year. It is not counted in the "Number of States."

Year of Admission of Each State to the Birth-Registration Area

Year	State	Year	State	Year	State
1915---	Connecticut	1917	Virginia	1925---	West Virginia
	Maine	Continued---	Washington	1926---	Arizona
	Massachusetts		Wisconsin		Idaho
	Michigan	1919---	California	1927---	Alabama
	Minnesota		Oregon		Arkansas
	New Hampshire		South Carolina ^{2/}		Louisiana
	New York	1920---	Nebraska		Missouri
	Pennsylvania	1921---	Delaware		Tennessee
	Rhode Island ^{1/}		Mississippi	1928---	Colorado
	Vermont		New Jersey		Georgia
	District of Columbia	1922---	Illinois		Oklahoma
1916---	Maryland		Montana	1929---	Nevada
1917---	Indiana		Wyoming		New Mexico
	Kansas	1924---	Florida	1932---	South Dakota
	Kentucky		Iowa	1933---	Texas
	North Carolina		North Dakota		
	Ohio				
	Utah				

- ^{1/} Dropped from the area in 1919; readmitted in 1921.
- ^{2/} Dropped from the area in 1925; readmitted in 1928.

INFANT MORTALITY RATES, BY AGE UNITED STATES EXPANDING BIRTH-REGISTRATION AREA, 1915-40



U. S. Department of Labor
CHILDREN'S BUREAU

Chart No. IM 40-3

Based on data from U. S. Bureau of the Census

CAUSES OF DEATH IN THE FIRST YEAR OF LIFE
NUMBER OF DEATHS, PERCENTAGE DISTRIBUTION AND DEATH RATES
UNITED STATES, 1940

Cause of death	Deaths in the first year of life ^{1/}		
	Number	Percent distribution	Number per 1,000 live births
All causes -----	110,984	100	47.0
Prenatal and natal causes -----	64,017	58	27.1
Premature birth -----	32,346	29	13.7
Congenital malformations -----	11,038	10	4.7
Injury at birth -----	10,506	10	4.4
Congenital debility -----	2,827	3	1.2
Other diseases peculiar to the first year of life -----	5,914	5	2.5
Syphilis -----	1,251	1	0.5
Tetanus -----	135	(2)	0.1
Respiratory diseases ^{3/} -----	18,838	17	8.0
Gastrointestinal diseases ^{4/} -----	9,814	9	4.2
Epidemic and other communicable diseases ^{5/} -----	3,101	3	1.3
All other specified causes -----	9,531	8	4.0
Ill-defined and unknown causes -----	5,683	5	2.4

^{1/} Data are for the Continental United States.

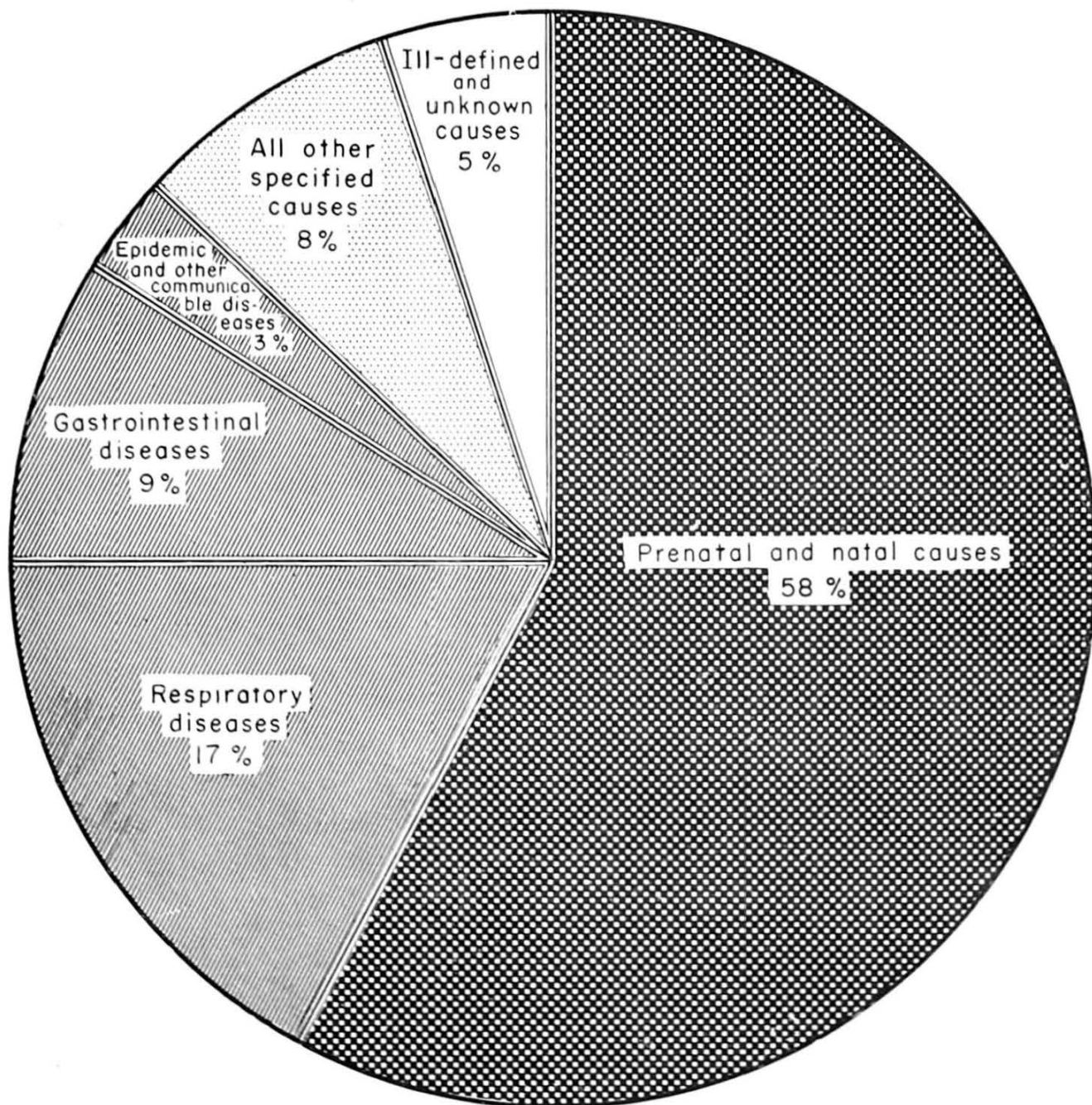
^{2/} Less than 1 percent.

^{3/} Influenza, pneumonia, and other diseases of the respiratory system.

^{4/} Dysentery, diseases of the stomach, diarrhea and enteritis, and other diseases of the digestive system.

^{5/} Measles, scarlet fever, whooping cough, diphtheria, erysipelas, cerebrospinal (meningococcus) meningitis, and tuberculosis.

CAUSES OF INFANT DEATH
PERCENTAGE DISTRIBUTION; UNITED STATES, 1940



CAUSES OF DEATH IN THE FIRST MONTH OF LIFE
NUMBER OF DEATHS, PERCENTAGE DISTRIBUTION AND DEATH RATES
UNITED STATES, 1940

Cause of death	Deaths in the first month of life ^{1/}		
	Number	Percent distribution	Number per 1,000 live births
All causes -----	67,866	100	28.8
Prenatal and natal causes -----	57,325	84	24.3
Premature birth -----	31,437	46	13.3
Injury at birth -----	10,280	15	4.3
Congenital malformations -----	7,608	11	3.2
Congenital debility -----	1,794	3	0.8
Other diseases peculiar to the first year of life -----	5,462	8	2.3
Syphilis -----	619	1	0.3
Tetanus -----	125	(2)	0.1
Respiratory diseases ^{2/} -----	3,256	5	1.4
Gastrointestinal diseases ^{4/} -----	1,320	2	0.6
All other specified causes -----	2,693	4	1.1
Ill-defined and unknown causes -----	3,272	5	1.4

^{1/} Data are for the Continental United States.

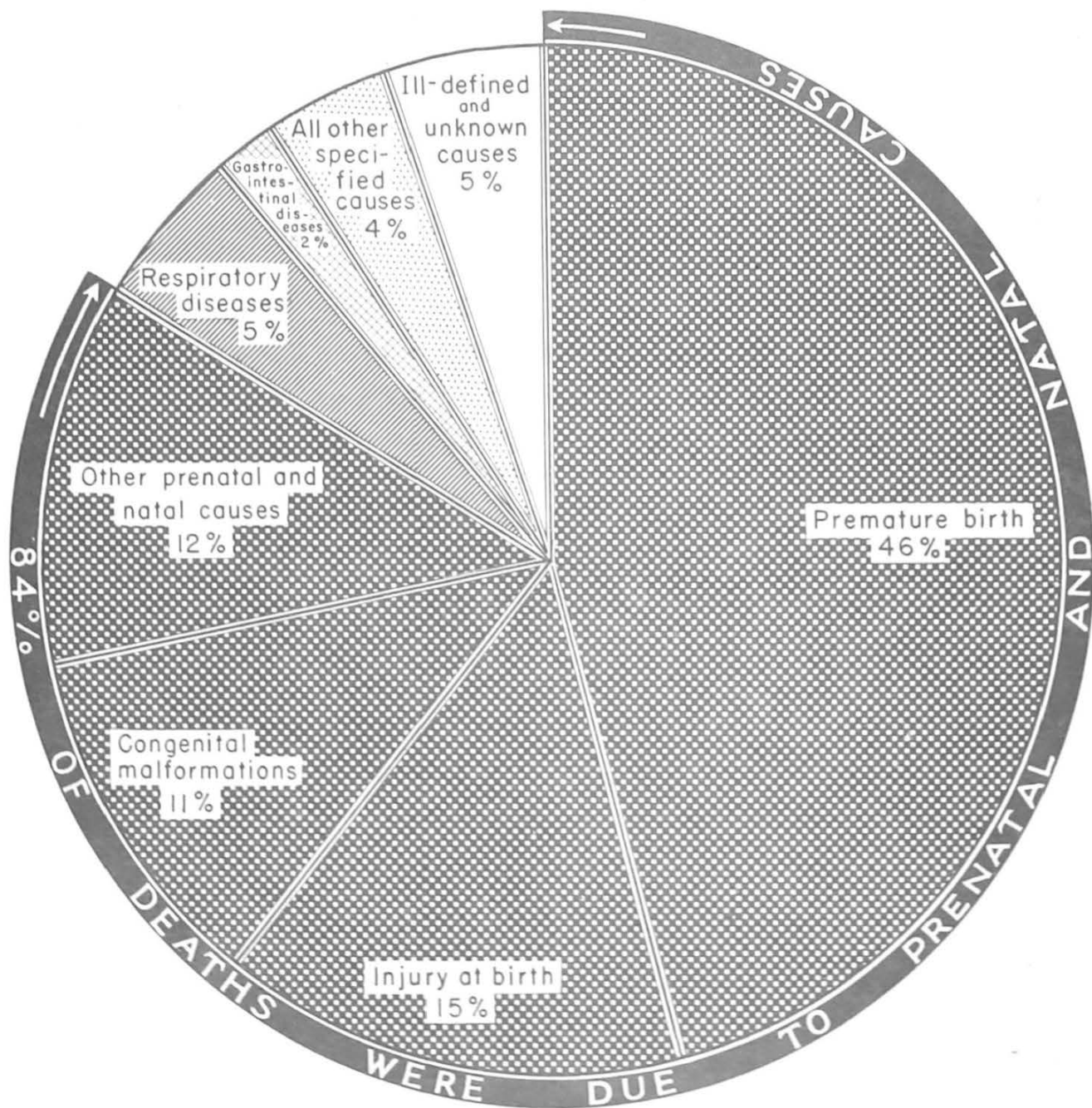
^{2/} Less than 1 percent.

^{3/} Influenza, pneumonia, and other diseases of the respiratory system.

^{4/} Dysentery, diseases of the stomach, diarrhea and enteritis, and other diseases of the digestive system.

CAUSES OF NEONATAL DEATH

PERCENTAGE DISTRIBUTION; UNITED STATES, 1940



CAUSES OF DEATH IN THE SECOND TO TWELFTH MONTH OF LIFE
NUMBER OF DEATHS, PERCENTAGE DISTRIBUTION AND DEATH RATES
UNITED STATES, 1940

Cause of death	Deaths in the second to twelfth month of life 1/		
	Number	Percent distribution	Number per 1,000 infants alive at beginning of second month
All causes -----	43,118	100	18.8
Respiratory diseases 2/ -----	15,582	36	6.8
Gastrointestinal diseases 3/ -----	8,494	20	3.7
Prenatal and natal causes 4/ -----	6,692	15	2.9
Epidemic and other communicable diseases 5/ -----	2,913	7	1.3
All other specified causes -----	7,026	16	3.0
Ill-defined and unknown causes -----	2,411	6	1.1

1/ Data are for the Continental United States.

2/ Influenza, pneumonia, and other diseases of the respiratory system.

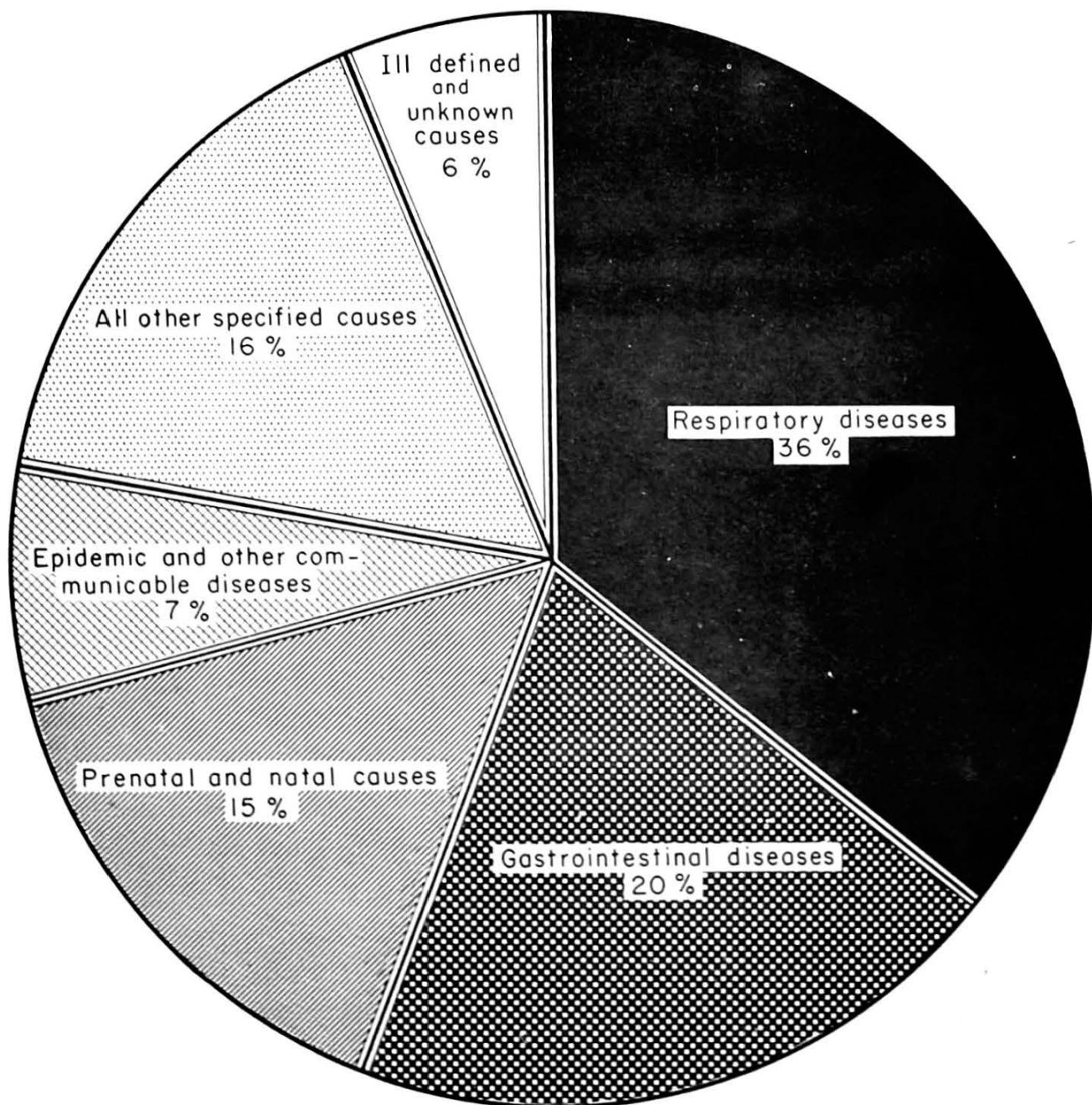
3/ Dysentery, diseases of the stomach, diarrhea and enteritis, and other diseases of the digestive system.

4/ Congenital malformations, congenital debility, premature birth, injury at birth, other diseases peculiar to the first year of life, syphilis, and tetanus.

5/ Measles, scarlet fever, whooping cough, diphtheria, erysipelas, cerebrospinal (meningococcus) meningitis, and tuberculosis.

CAUSES OF DEATH IN THE SECOND TO TWELFTH MONTH OF LIFE

PERCENTAGE DISTRIBUTION; UNITED STATES, 1940



Page 16 B

INFANT MORTALITY RATES, BY CAUSE AND BY AGE; UNITED STATES EXPANDING
BIRTH-REGISTRATION AREA, 1932-34, 1935-37, and 1938-40

Cause of death and period	Deaths in the first year of life ^{1/}					
	Number per 1,000 live births			Average annual number		
	First year	First month	Second to twelfth month	First year	First month	Second to twelfth month
All causes:						
1932-34 -----	58.6	33.8	24.8	123,501	71,332	52,169
1935-37 -----	55.7	32.1	23.6	120,868	69,530	51,338
1938-40 -----	48.7	29.2	19.5	112,177	67,328	44,849
Prenatal and natal causes: ^{2/}						
1932-34 -----	30.8	27.3	3.5	64,955	57,634	7,321
1935-37 -----	29.3	26.1	3.2	63,494	56,500	6,994
1938-40 -----	27.4	24.5	2.9	63,257	56,507	6,750
Respiratory diseases: ^{3/}						
1932-34 -----	9.8	1.8	8.0	20,665	3,731	16,934
1935-37 -----	9.6	1.6	8.0	20,818	3,506	17,312
1938-40 -----	8.0	1.4	6.6	18,513	3,180	15,333
Gastrointestinal diseases: ^{4/}						
1932-34 -----	6.2	0.8	5.4	13,158	1,619	11,539
1935-37 -----	6.0	0.7	5.3	13,017	1,620	11,397
1938-40 -----	4.9	0.6	4.3	11,207	1,387	9,820
Epidemic and other communicable diseases: ^{5/}						
1932-34 -----	3.0	0.2	2.8	6,315	481	5,834
1935-37 -----	2.2	0.2	2.0	4,832	339	4,493
1938-40 -----	1.7	0.1	1.6	3,812	233	3,579
All other specified causes:						
1932-34 -----	5.1	1.4	3.7	10,720	3,017	7,703
1935-37 -----	5.4	1.5	3.9	11,737	3,320	8,417
1938-40 -----	4.1	1.1	3.0	9,463	2,505	6,958
Ill-defined and unknown causes:						
1932-34 -----	3.7	2.3	1.4	7,688	4,849	2,839
1935-37 -----	3.2	2.0	1.2	6,969	4,245	2,724
1938-40 -----	2.6	1.5	1.1	5,926	3,516	2,410

^{1/} Data are for the Continental United States. The birth-registration area for 1932 included 95.2 percent of the population (all States but Texas). In every year from 1933 to 1940 it included the entire Continental United States.

^{2/} Congenital malformations, congenital debility, premature birth, injury at birth, other diseases peculiar to the first year of life, syphilis, and tetanus.

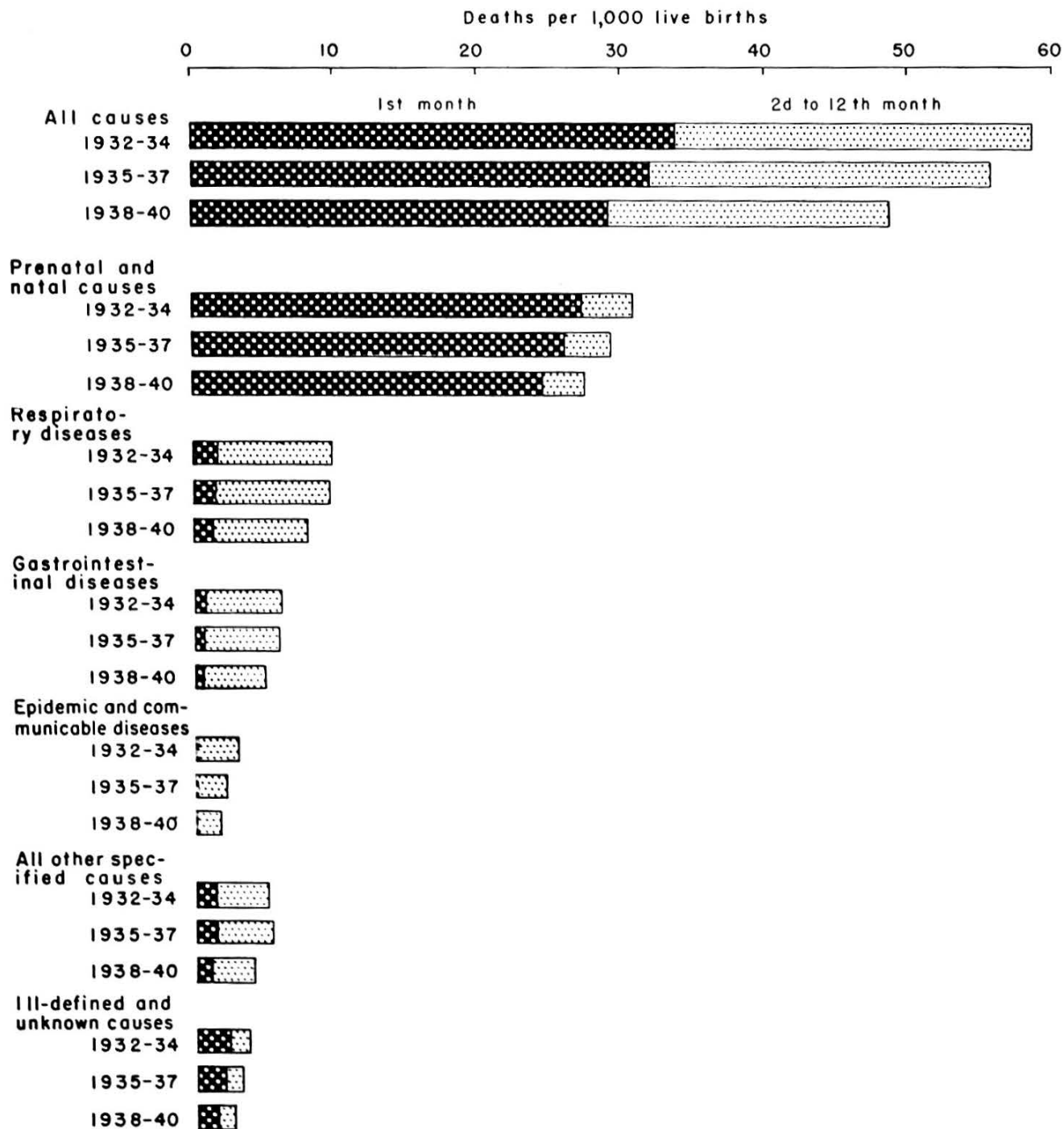
^{3/} Influenza, pneumonia, and other diseases of the respiratory system.

^{4/} Dysentery, diseases of the stomach, diarrhea and enteritis, and other diseases of the digestive system.

^{5/} Measles, scarlet fever, whooping cough, diphtheria, erysipelas, cerebrospinal (meningococcus) meningitis, and tuberculosis.

INFANT MORTALITY RATES, BY CAUSE AND BY AGE

UNITED STATES, 1932-34, 1935-37, AND 1938-40



INFANT MORTALITY RATE, INFANT DEATHS, AND LIVE BIRTHS IN EACH STATE; WHITE INFANTS, UNITED STATES, 1938-40
(States are ranked according to infant mortality rate)

State	Deaths in the first year of life per 1,000 live births		Average annual number of--	
	White	Negro	White infant deaths	White live births
Continental United States -----	44.9	74.6	90,576	2,018,860
Oregon -----	34.6	(1)	577	16,687
Connecticut -----	34.8	(1)	819	23,521
Minnesota -----	35.3	(1)	1,782	50,460
New Jersey -----	35.4	67.9	1,859	52,540
Washington -----	35.4	(1)	937	26,467
Nebraska -----	35.5	(1)	780	21,977
District of Columbia -----	35.9	72.9	347	9,680
South Dakota -----	36.8	(1)	403	10,948
Illinois -----	36.9	58.0	4,235	114,663
New York -----	37.7	62.9	6,849	181,599
Massachusetts -----	37.8	57.1	2,370	62,699
Iowa -----	38.3	(1)	1,683	43,884
Kansas -----	39.1	67.7	1,101	28,127
Wisconsin -----	39.3	(1)	2,122	54,056
Rhode Island -----	39.7	(1)	411	10,347
Indiana -----	40.4	68.7	2,347	58,141
California -----	41.3	56.0	4,164	100,840
Ohio -----	41.4	63.6	4,396	106,298
Utah -----	41.6	(1)	546	13,131
Michigan -----	41.7	55.3	3,878	92,981
Montana -----	42.3	(1)	438	10,370
Delaware -----	42.7	(1)	159	3,735
Idaho -----	42.8	(1)	481	11,254
Maryland -----	43.3	82.7	988	22,834
Pennsylvania -----	44.2	66.0	6,851	155,047
Nevada -----	44.3	(1)	79	1,790
New Hampshire -----	44.3	(1)	358	8,081
Wyoming -----	45.0	(1)	217	4,835
Missouri -----	45.1	86.0	2,524	55,935
North Dakota -----	45.3	(1)	578	12,744
Arkansas -----	45.9	53.5	1,297	28,252
Florida -----	46.1	78.8	1,048	22,758
Oklahoma -----	46.1	87.3	1,835	39,778
Vermont -----	46.3	(1)	299	6,454
Mississippi -----	48.8	61.3	1,147	23,501
Louisiana -----	49.8	86.0	1,446	29,035
Alabama -----	51.8	75.3	1,996	38,528
Georgia -----	52.2	75.0	2,039	39,046
Virginia -----	53.3	84.5	2,060	38,667
North Carolina -----	53.6	79.3	2,905	54,192
Tennessee -----	53.6	78.0	2,469	46,053
Kentucky -----	53.7	89.4	3,160	58,818
Maine -----	54.1	(1)	815	15,066
West Virginia -----	55.9	76.1	2,221	39,750
South Carolina -----	56.0	86.7	1,192	21,292
Colorado -----	58.2	(1)	1,194	20,529
Texas -----	65.0	81.0	7,003	107,793
Arizona -----	77.9	(1)	764	9,802
New Mexico -----	101.4	(1)	1,407	13,875
Territories and possessions ^{2/}				
Alaska -----	(3)	(3)	(4)	(3)
Hawaii -----	41.9	(5)	74	1,772
Puerto Rico -----	(3)	(3)	6,582	(3)

^{1/} Not shown because the number of Negro live births during the period was less than 2,500.

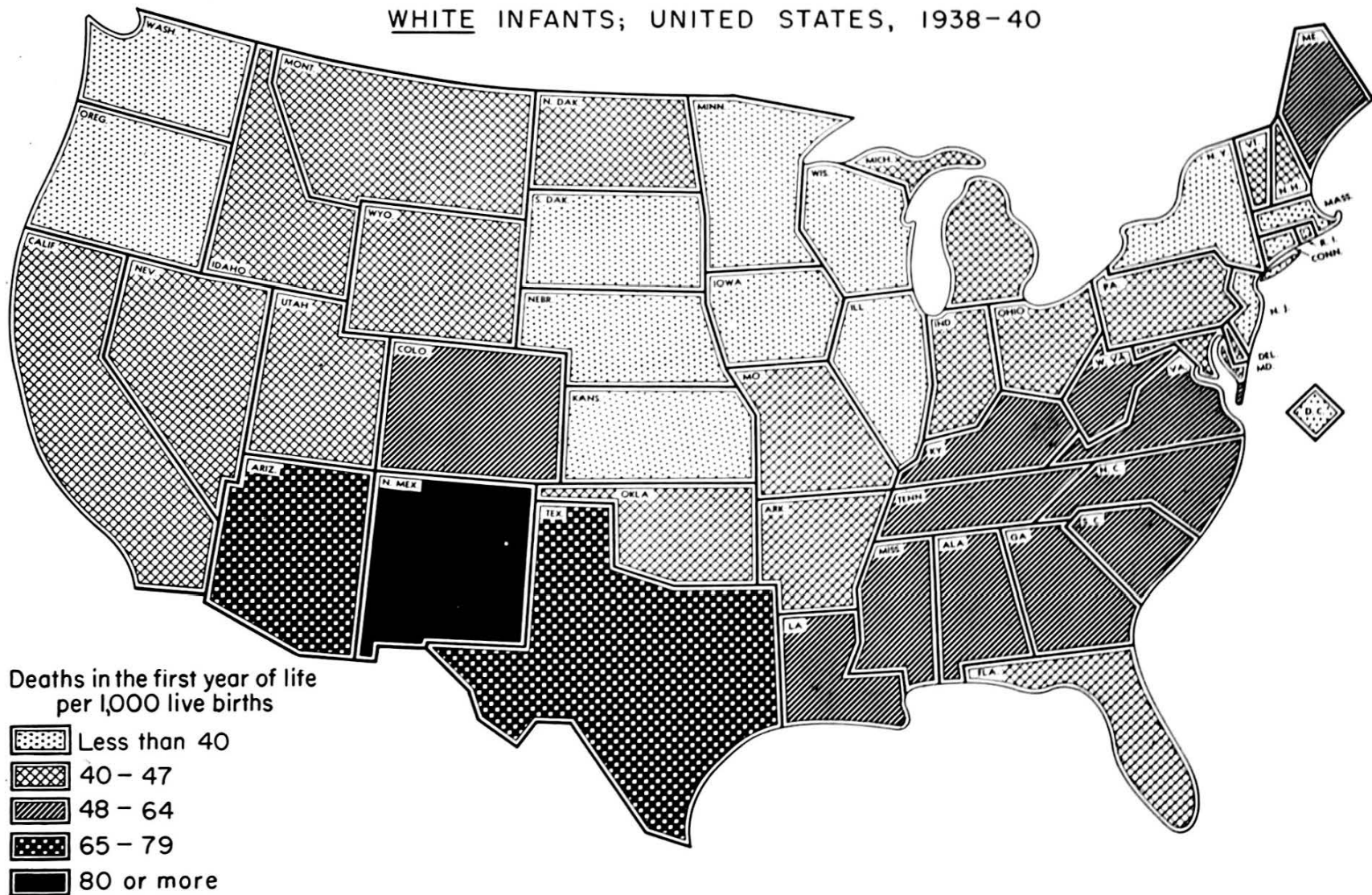
^{2/} Included under the provisions of title V, parts 1, 2, and 3, of the Social Security Act, which are administered by the Children's Bureau.

^{3/} Not available; Alaska and Puerto Rico are not in the birth-registration area.

^{4/} Not available; Alaska is not in the death-registration area.

^{5/} Not available; data for Hawaii are not tabulated separately.

INFANT MORTALITY RATE IN EACH STATE WHITE INFANTS; UNITED STATES, 1938-40



U. S. Department of Labor
 CHILDREN'S BUREAU
 Chart No. 1 M 40-8

Based on data from U. S. Bureau of the Census

INFANT MORTALITY RATE, INFANT DEATHS, AND LIVE BIRTHS; NEGRO INFANTS, UNITED STATES
AND EACH OF THE 27 STATES WITH 2,500 OR MORE NEGRO LIVE BIRTHS, 1938-40
(States are ranked according to infant mortality rate)

State	Deaths in the first year of life per 1,000 live births		Average annual number of--	
	Negro	White	Negro infant deaths	Negro live births
Continental United States ^{1/} -----	74.6	44.9	20,317	272,210
States with 2,500 or more Negro live births during the period ^{2/} -----	74.7	45.3	20,104	269,232
Arkansas -----	53.5	45.9	470	8,772
Michigan -----	55.3	41.7	203	3,665
California -----	56.0	41.3	100	1,790
Massachusetts -----	57.1	37.8	53	935
Illinois -----	58.0	36.9	374	6,452
Mississippi -----	61.3	48.8	1,780	29,062
New York -----	62.9	37.7	585	9,306
Ohio -----	63.6	41.4	378	5,950
Pennsylvania -----	66.0	44.2	604	9,146
Kansas -----	67.7	39.1	65	955
New Jersey -----	67.9	35.4	302	4,453
Indiana -----	68.7	40.4	139	2,024
District of Columbia -----	72.9	35.9	320	4,384
Georgia -----	75.0	52.2	1,932	25,747
Alabama -----	75.3	51.8	1,774	23,569
West Virginia -----	76.1	55.9	173	2,274
Tennessee -----	78.0	53.6	641	8,216
Florida -----	78.8	46.1	758	9,614
North Carolina -----	79.3	53.6	1,973	24,875
Texas -----	81.0	65.0	1,223	15,105
Maryland -----	82.7	43.3	524	6,338
Virginia -----	84.5	53.3	1,282	15,171
Missouri -----	86.0	45.1	337	3,913
Louisiana -----	86.0	49.8	1,755	20,417
South Carolina -----	86.7	56.0	1,860	21,458
Oklahoma -----	87.3	46.1	213	2,441
Kentucky -----	89.4	53.7	286	3,200
All other States ^{3/} -----	72.0	43.2	213	2,978

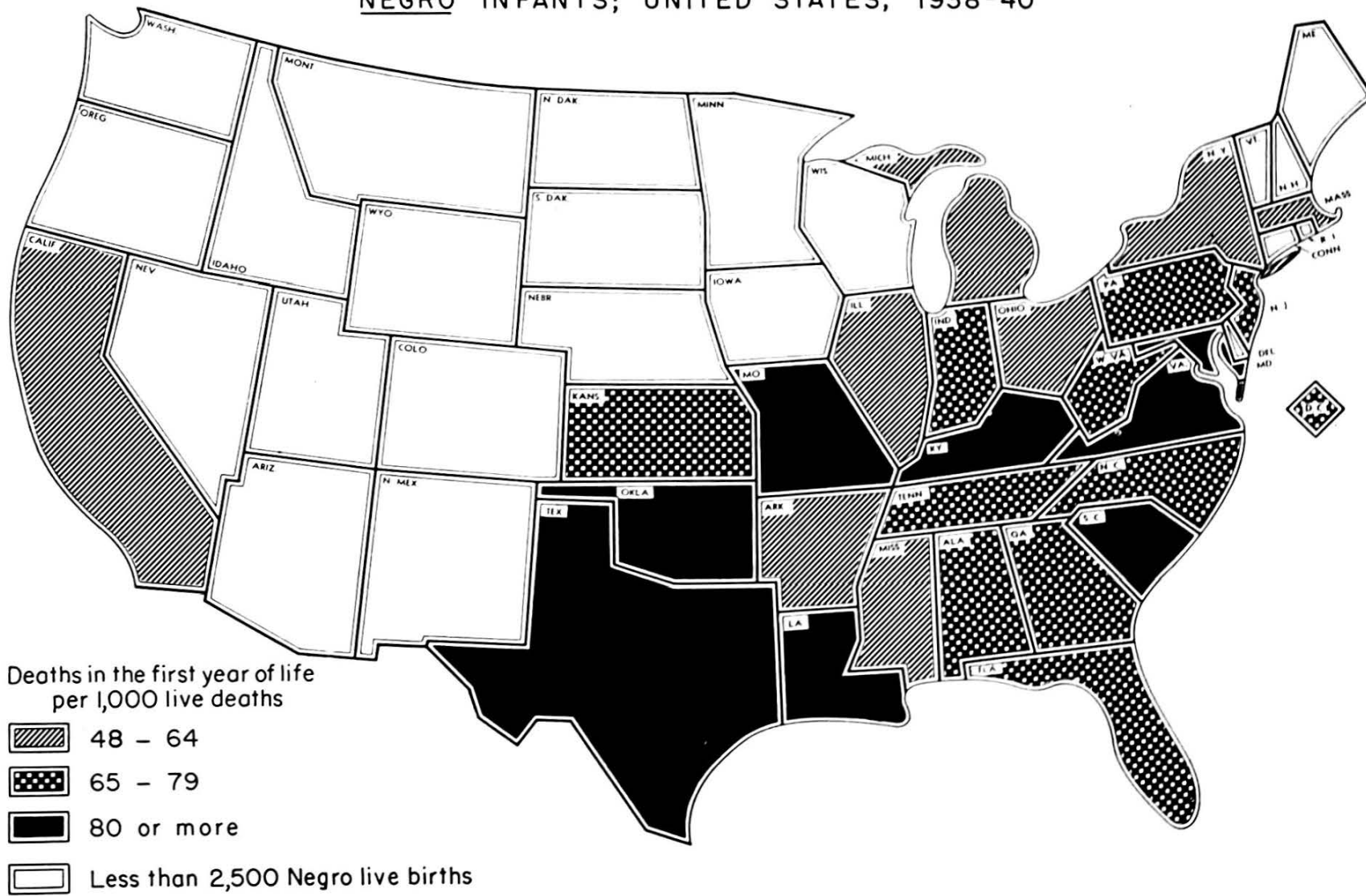
PAGE 19 A

^{1/} Territories and possessions are not shown because complete information is not available.

^{2/} Of the average annual number of Negro live births (272,210) and infant deaths (20,317) in the United States 99 percent (269,232 and 20,104, respectively) occurred in the 27 States with 2,500 or more Negro live births during the period.

^{3/} The 22 States with less than 2,500 Negro live births during the period.

INFANT MORTALITY RATE IN EACH STATE NEGRO INFANTS; UNITED STATES, 1938-40



Deaths in the first year of life
per 1,000 live deaths

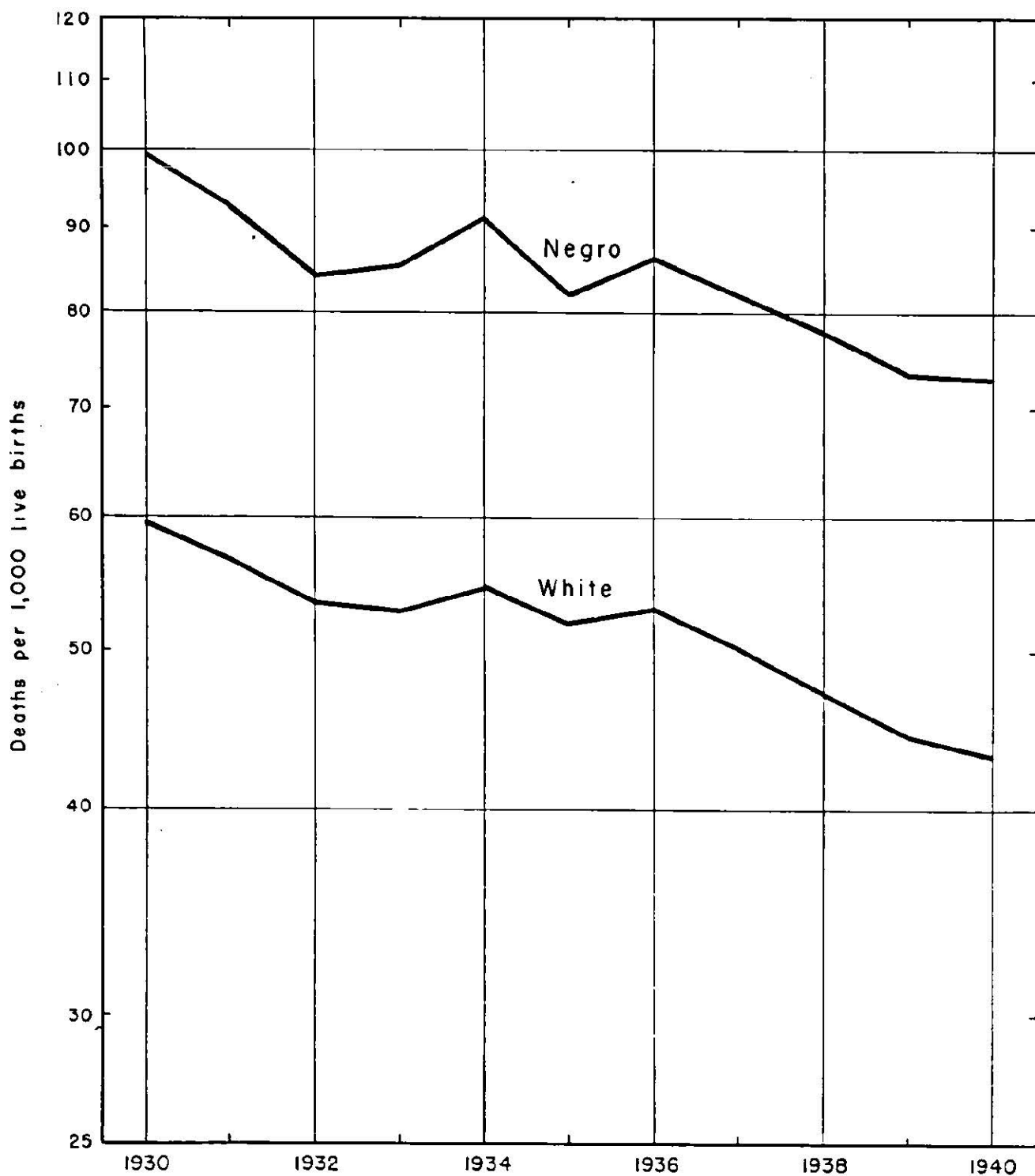
- 48 - 64
- 65 - 79
- 80 or more
- Less than 2,500 Negro live births

INFANT MORTALITY RATE, INFANT DEATHS, AND LIVE BIRTHS BY RACE
 UNITED STATES EXPANDING BIRTH-REGISTRATION AREA, 1930-40

Year	Deaths in the first year of life per 1,000 live births ^{1/}		Number of--			
			Infant deaths		Live births	
	Negro	White	Negro	White	Negro	White
1940---	72.9	43.2	20,342	89,406	278,869	2,067,953
1939---	73.2	44.3	19,755	87,841	270,060	1,982,671
1938---	77.9	47.1	20,855	94,485	267,700	2,005,955
1937---	82.0	50.3	21,513	97,064	262,462	1,928,437
1936---	86.1	52.9	21,614	99,504	251,098	1,881,883
1935---	81.9	51.9	20,905	97,907	255,124	1,888,012
1934---	91.0	54.5	23,393	101,720	257,106	1,866,231
1933---	85.4	52.8	21,035	94,749	246,277	1,794,946
1932---	84.1	53.3	20,171	96,250	239,796	1,805,155
1931---	92.7	56.7	21,716	104,853	234,203	1,848,293
1930---	99.5	59.6	23,812	116,084	239,275	1,946,841

^{1/} Data are for the Continental United States. The birth-registration area in 1930 and 1931 included 94.7 percent of the population (all States except South Dakota and Texas); in 1932, 95.2 percent (all States except Texas). In every year from 1933 to 1940 it included the entire Continental United States.

INFANT MORTALITY RATES AMONG WHITE AND NEGRO INFANTS UNITED STATES, 1930-40



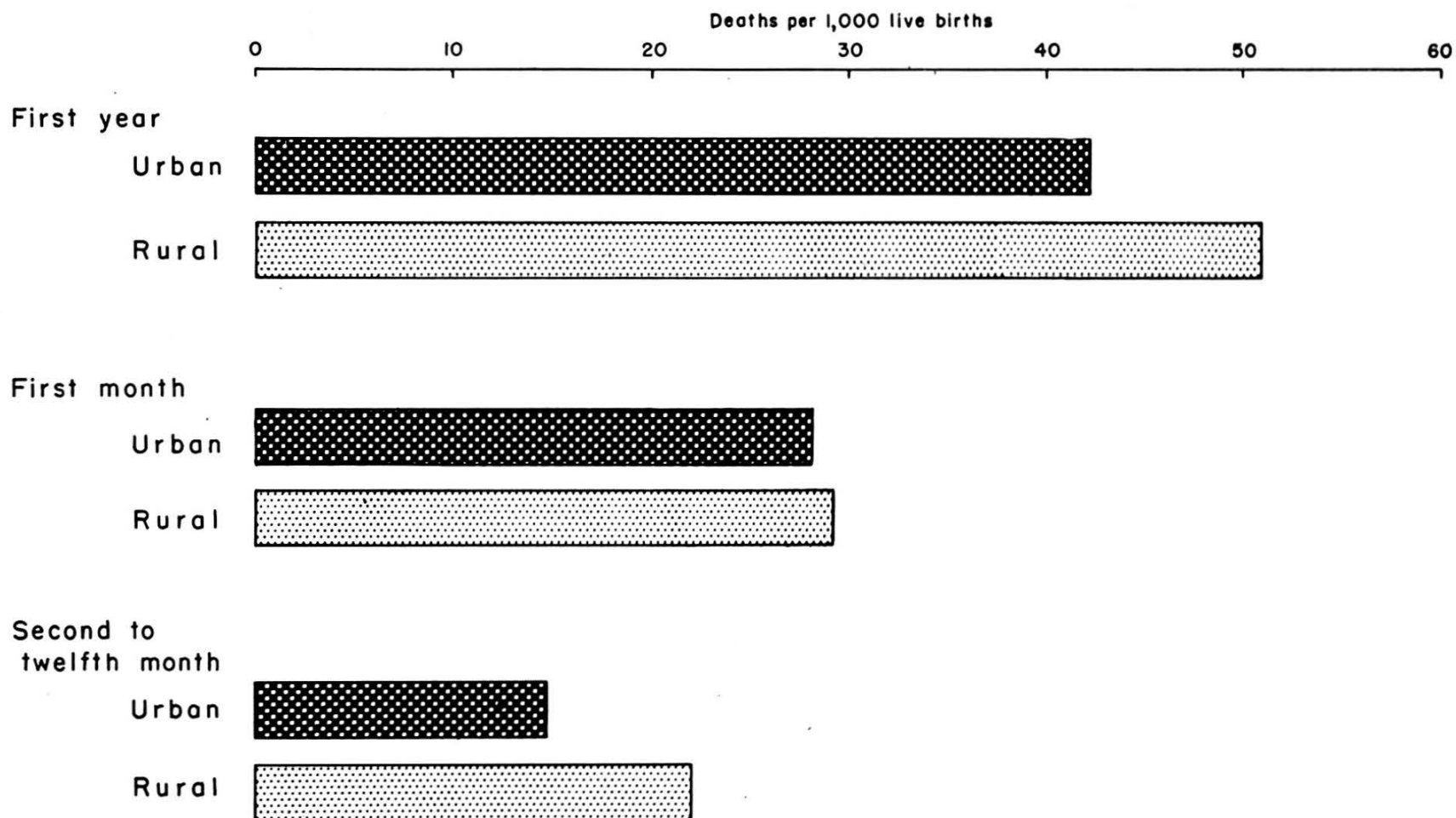
INFANT MORTALITY RATES, BY AGE AND BY RACE, IN URBAN AND RURAL AREAS
UNITED STATES, 1940

Age and area	Deaths in the first year of life ^{1/}					
	Number per 1,000 live births			Number		
	Total	White	All other races	Total	White	All other races
By Place of Residence						
First year						
Urban ^{2/} -----	42.3	39.0	71.6	43,735	36,233	7,502
Rural ^{2/} -----	50.7	46.7	75.0	67,249	53,173	14,076
First month						
Urban ^{2/} -----	28.0	26.4	42.3	28,952	24,516	4,436
Rural ^{2/} -----	29.3	27.9	38.3	38,914	31,737	7,177
Second to twelfth month						
Urban ^{2/} -----	14.7	13.0	30.5	14,783	11,717	3,066
Rural ^{2/} -----	22.0	19.4	38.2	28,335	21,436	6,899
By Places of Occurrence						
First year						
Urban ^{2/} -----	43.8	40.7	75.5	54,170	45,695	8,475
Rural ^{2/} -----	50.5	46.3	72.7	56,814	43,711	13,103
First month						
Urban ^{2/} -----	25.3	22.1	56.3	31,204	24,878	6,326
Rural ^{2/} -----	32.6	33.2	29.3	36,662	31,375	5,287
Second to twelfth month						
Urban ^{2/} -----	19.1	19.0	20.3	22,966	20,817	2,149
Rural ^{2/} -----	18.5	13.5	44.7	20,152	12,336	7,816

^{1/} Data are for the Continental United States.

^{2/} Urban areas include cities of 10,000 or more population; all other areas are classified as rural.

^{3/} Deaths per 1,000 infants alive at the beginning of the second month of life.

INFANT MORTALITY RATES, BY AGE, AMONG RESIDENTS OF URBAN AND RURAL AREAS
UNITED STATES, 1940

MATERNAL MORTALITY RATE, MATERNAL DEATHS, AND LIVE BIRTHS IN EACH STATE; UNITED STATES, 1940
(States are ranked according to maternal mortality rate)

State	Maternal deaths per 10,000 live births ^{1/}	Number of--	
		Maternal deaths	Live births
Continental United States -----	37.6	8,876	2,360,399
North Dakota -----	17.2	23	13,356
Minnesota -----	22.2	118	53,083
Rhode Island -----	25.0	27	10,805
Oregon -----	25.2	45	17,848
Utah -----	26.6	36	13,559
Maryland -----	27.8	84	30,251
California -----	27.9	312	112,011
Massachusetts -----	28.1	186	66,114
Wisconsin -----	28.1	154	54,848
Connecticut -----	28.2	71	25,195
Indiana -----	28.7	178	61,963
Michigan -----	29.2	289	99,108
District of Columbia -----	29.4	45	15,309
Illinois -----	29.7	366	123,198
New York -----	29.7	585	196,888
New Jersey -----	29.9	175	58,617
Montana -----	30.5	35	11,492
Washington -----	30.6	86	28,141
New Hampshire -----	31.8	27	8,503
Nebraska -----	32.0	71	22,162
Ohio -----	32.2	370	114,900
Pennsylvania -----	32.5	538	165,680
West Virginia -----	33.3	140	42,103
South Dakota -----	34.4	40	11,619
Iowa -----	35.0	159	45,464
Idaho -----	35.9	42	11,712
Vermont -----	35.9	24	6,694
Kentucky -----	36.0	229	63,591
Missouri -----	36.8	229	62,172
Kansas -----	37.3	107	28,695
Oklahoma -----	39.7	177	44,574
Maine -----	40.3	61	15,119
Colorado -----	40.7	86	21,154
Wyoming -----	41.6	21	5,052
Virginia -----	44.9	248	55,208
Texas -----	46.0	583	126,687
New Mexico -----	46.8	69	14,744
Tennessee -----	47.5	265	55,815
Nevada -----	48.5	10	2,061
Arkansas -----	48.7	187	38,359
Arizona -----	50.2	59	11,754
North Carolina -----	51.6	416	80,582
Louisiana -----	53.4	272	50,916
Delaware -----	54.4	25	4,597
Georgia -----	56.9	370	64,998
Alabama -----	61.3	386	62,925
Mississippi -----	62.8	330	52,575
Florida -----	64.8	219	33,818
South Carolina -----	67.8	301	44,380
Territories and possessions: ^{2/}			
Alaska -----	(3)	(4)	(3)
Hawaii -----	24.4	23	9,414
Puerto Rico -----	(3)	334	(3)

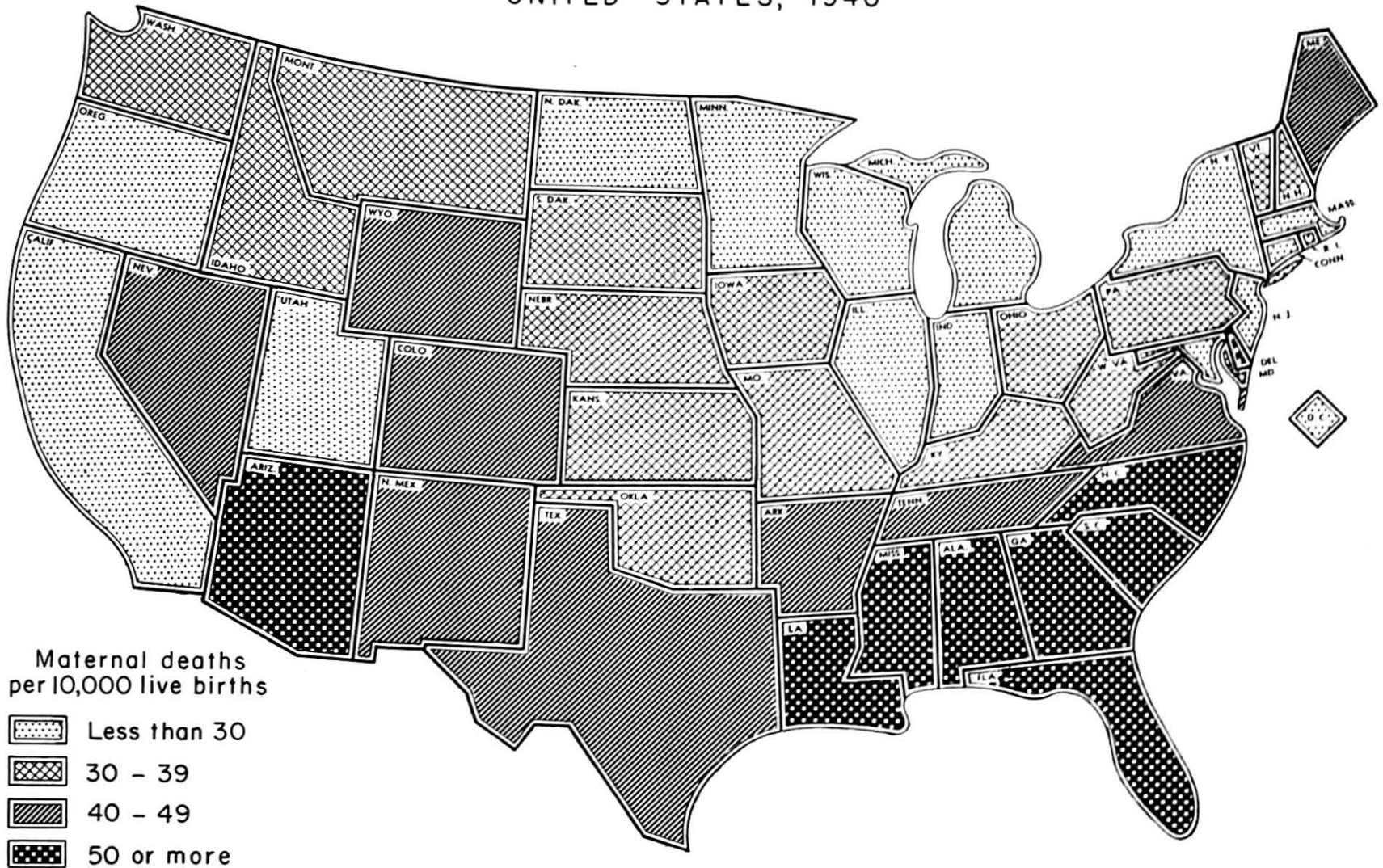
^{1/} Deaths due directly to diseases of pregnancy, childbirth, and the puerperium (numbers 140-150 of the International List of Causes of Death, 1938 revision).

^{2/} Included under the provisions of title V, parts 1, 2, and 3, of the Social Security Act, which are administered by the Children's Bureau.

^{3/} Not available; Alaska and Puerto Rico are not in the birth-registration area.

^{4/} Not available; Alaska is not in the death-registration area.

MATERNAL MORTALITY RATE IN EACH STATE UNITED STATES, 1940



U. S. Department of Labor
CHILDREN'S BUREAU
Chart No. M M 40-1

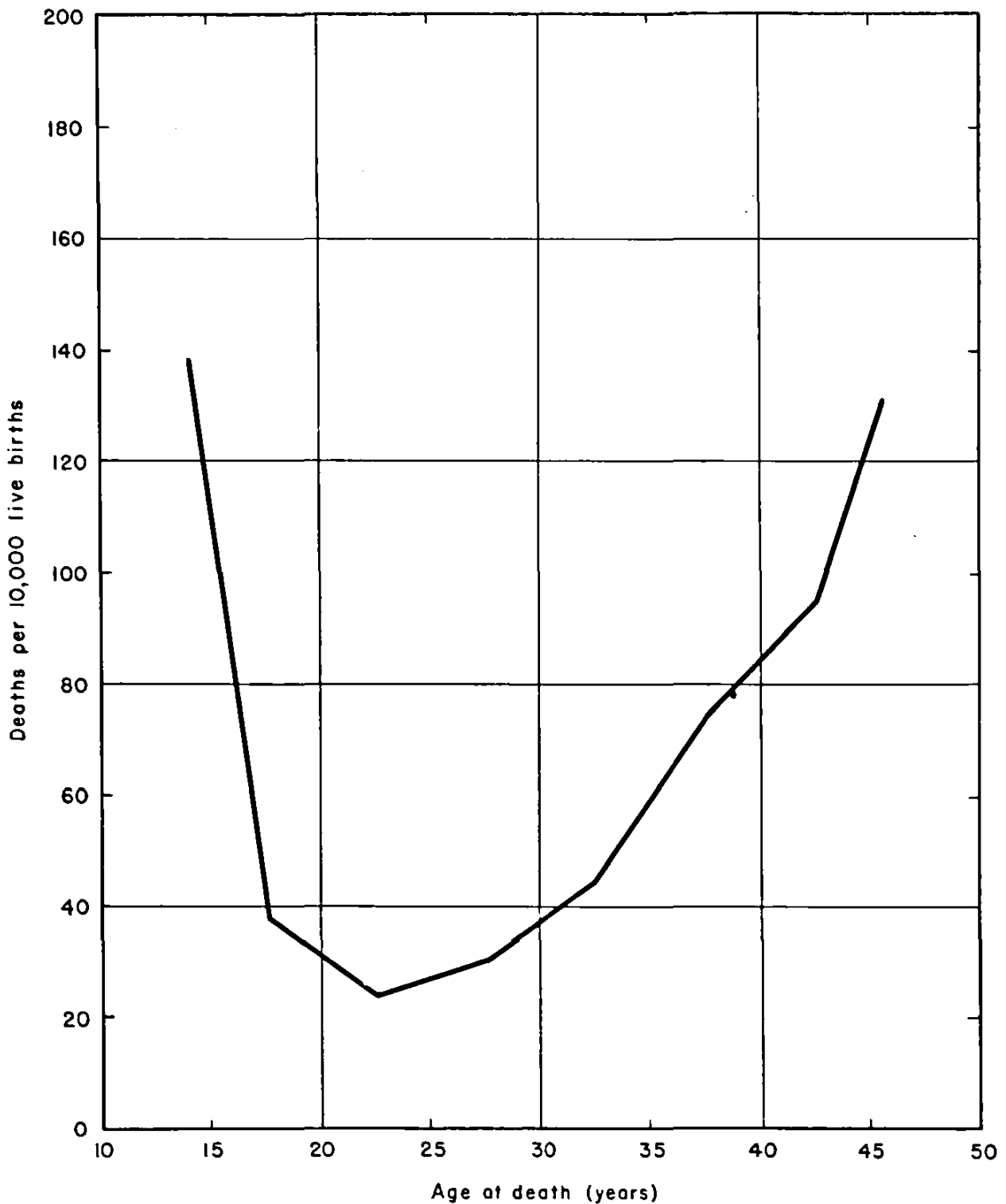
Based on data from U. S. Bureau of the Census

MATERNAL MORTALITY RATES, BY AGE; UNITED STATES, 1940

Age at death	Maternal deaths per 10,000 live births ^{1/}	Number of--	
		Maternal deaths	Live births
Total -----	37.6	8,876	2,360,399
Under 15 years -----	138.2	45	3,257
15 - 19 years -----	37.9	1,139	300,747
20 - 24 years -----	24.0	1,775	738,436
25 - 29 years -----	30.4	1,964	645,867
30 - 34 years -----	44.7	1,790	400,225
35 - 39 years -----	74.5	1,498	201,120
40 - 44 years -----	95.7	583	60,915
45 years or over ----	131.4	73	5,555
Age unknown -----	21.0	9	4,277

^{1/} Data are for the Continental United States; the deaths are those due directly to diseases of pregnancy, childbirth, and the puerperium (numbers 140-150 of the International List of Causes of Death, 1938 revision).

MATERNAL MORTALITY RATES, BY AGE UNITED STATES, 1940



MATERNAL DEATHS IN RELATION TO TIME OF DELIVERY
NUMBER OF DEATHS, PERCENTAGE DISTRIBUTION, AND DEATH RATE
UNITED STATES, 1940

Death in relation to time of delivery	Maternal deaths ^{1/}		
	Number	Percent distribution	Number per 10,000 live births
Total -----	8,876	100	37.6
Ectopic gestation -----	392	4	1.7
During or after abortion ^{2/} -----	1,682	19	7.1
Before delivery -----	1,298	15	5.5
During or after childbirth ^{3/} -----	5,504	62	23.3

Number of Deaths and Percentage Distribution, by Cause, in Relation to Time of Delivery

Cause of death	Maternal deaths ^{1/}							
	Ectopic gestation		During or after abortion ^{2/}		Before delivery		During or after childbirth ^{3/}	
	Number	Percent distribution	Number	Percent distribution	Number	Percent distribution	Number	Percent distribution
Total -----	392	100	1,682	100	1,298	100	5,504	100
Infection -----	85	22	1,334	79	---	---	2,207	40
Toxemias -----	---	---	80	5	939	72	1,231	22
Hemorrhage, trauma, or shock	307	78	109	7	55	4	1,587	29
All other and unspecified --	---	---	159	9	304	24	479	9

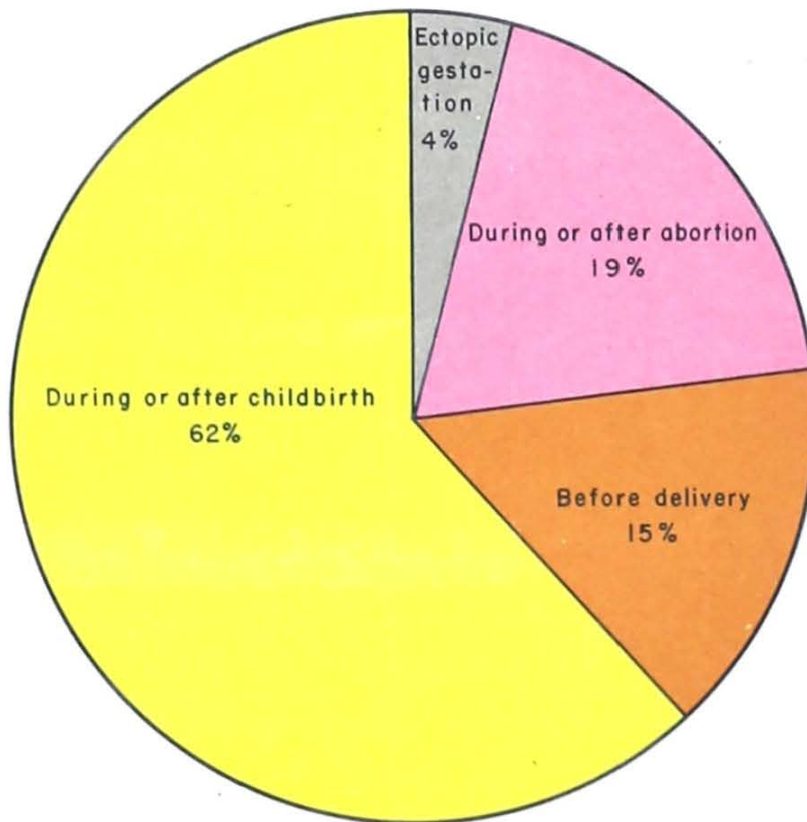
^{1/} Deaths in the Continental United States that were due directly to diseases of pregnancy, childbirth, and the puerperium (numbers 140-150 of the International List of Causes of Death, 1938 revision).

^{2/} Abortion is defined as the termination of a uterine pregnancy prior to 7 lunar months (28 weeks) of gestation.

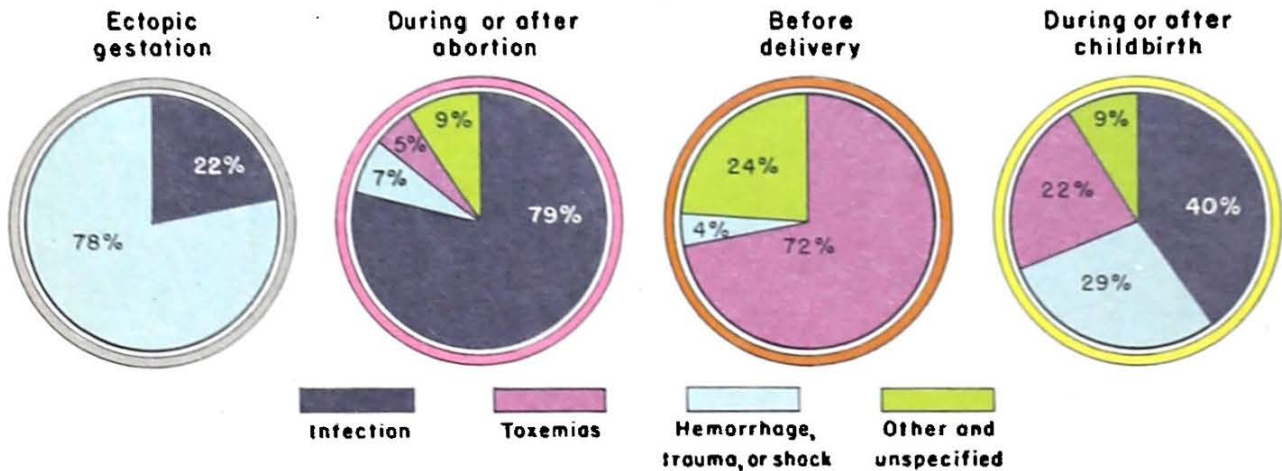
^{3/} Childbirth is defined as the termination of a uterine pregnancy at 7 lunar months (28 weeks) or more of gestation.

MATERNAL DEATHS IN RELATION TO TIME OF DELIVERY UNITED STATES, 1940

PERCENTAGE DISTRIBUTION, BY TIME OF DELIVERY



PERCENTAGE DISTRIBUTION, BY CAUSE, IN RELATION TO TIME OF DELIVERY



CAUSES OF MATERNAL DEATH
NUMBER OF DEATHS, PERCENTAGE DISTRIBUTION, AND DEATH RATES
UNITED STATES, 1940

Cause of death	Maternal deaths ^{1/}		
	Number	Percent distribution	Number per 10,000 live births
All causes -----	8,876	100	37.6
Infection -----	3,626	41	15.4
Toxemias -----	2,250	25	9.5
Hemorrhage, trauma, or shock -----	2,058	23	8.7
All other and unspecified -----	942	11	4.0

Number of Deaths and Percentage Distribution, by Time of Delivery, for Each Cause

Death in relation to time of delivery	Maternal deaths ^{1/}							
	Infection		Toxemias		Hemorrhage, trauma, or shock		Other and unspecified causes	
	Number	Percent distribution	Number	Percent distribution	Number	Percent distribution	Number	Percent distribution
Total -----	3,626	100	2,250	100	2,058	100	942	100
Ectopic gestation -----	85	2	---	---	307	15	---	---
During of after abortion ^{2/} -	1,334	37	80	3	109	5	159	17
Before delivery -----	---	---	939	42	55	3	304	32
During or after childbirth ^{3/}	2,207	61	1,231	55	1,587	77	479	51

^{1/} Deaths in the Continental United States that were due directly to diseases of pregnancy, childbirth, and the puerperium (numbers 140-150 of the International List of Causes of Death, 1938 revision).

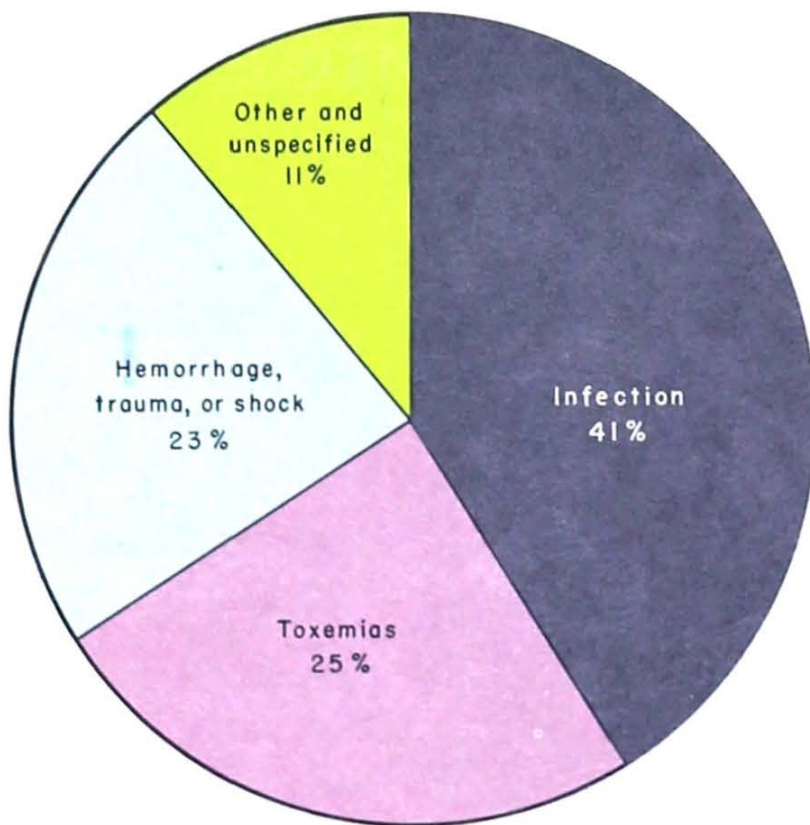
^{2/} Abortion is defined as the termination of a uterine pregnancy prior to 7 lunar months (28 weeks) of gestation.

^{3/} Childbirth is defined as the termination of a uterine pregnancy at 7 lunar months (28 weeks) or more of gestation.

CAUSES OF MATERNAL DEATH

UNITED STATES, 1940

PERCENTAGE DISTRIBUTION, BY CAUSE



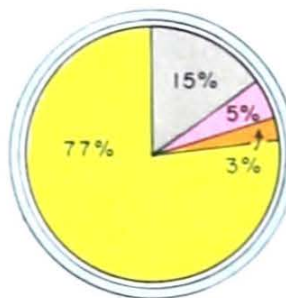
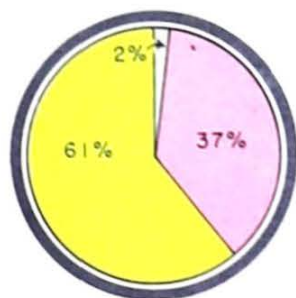
PERCENTAGE DISTRIBUTION, BY TIME OF DELIVERY, FOR EACH CAUSE

Infection

Toxemias

Hemorrhage, trauma, or shock

Other and unspecified



Ectopic gestation

During or after abortion

Before delivery

During or after childbirth

MATERNAL MORTALITY RATE FROM INFECTION, MATERNAL DEATHS FROM THIS CAUSE, AND LIVE BIRTHS IN EACH STATE
 UNITED STATES, 1940
 (States are ranked according to maternal mortality rate)

State	Maternal deaths from infection per 10,000 live births ^{1/}	Number of--	
		Maternal deaths from infection	Live births
Continental United States -----	15.4	3,626	2,360,399
North Dakota -----	6.0	8	13,356
Utah -----	6.6	9	13,559
Minnesota -----	9.8	52	53,083
Oregon -----	10.1	18	17,848
Rhode Island -----	11.1	12	10,805
Maryland -----	11.2	34	30,251
Michigan -----	11.3	112	99,108
California -----	11.4	128	112,011
Washington -----	11.7	33	28,141
New Hampshire -----	11.8	10	8,503
Illinois -----	11.9	147	123,198
South Dakota -----	12.0	14	11,619
Kentucky -----	13.1	83	63,591
Massachusetts -----	13.5	89	66,114
New Jersey -----	13.5	79	58,617
Wisconsin -----	13.5	74	54,848
District of Columbia -----	13.7	21	15,309
Indiana -----	13.7	85	61,963
Connecticut -----	13.9	35	25,195
Ohio -----	14.4	165	114,900
West Virginia -----	14.7	62	42,103
Montana -----	14.8	17	11,492
New York -----	14.8	292	196,888
Idaho -----	15.4	18	11,712
Pennsylvania -----	15.5	256	165,680
Virginia -----	15.6	86	55,208
Iowa -----	16.3	74	45,464
Maine -----	16.5	25	15,119
North Carolina -----	16.6	134	80,582
Texas -----	16.7	211	126,687
Oklahoma -----	16.8	75	44,574
New Mexico -----	17.6	26	14,744
Wyoming -----	17.8	9	5,052
Missouri -----	17.9	111	62,172
Vermont -----	17.9	12	6,694
Arkansas -----	18.2	70	38,359
Kansas -----	18.5	53	28,695
Tennessee -----	18.6	104	55,815
Arizona -----	18.7	22	11,754
Nebraska -----	19.0	42	22,162
Mississippi -----	19.4	102	52,575
Nevada -----	19.4	4	2,061
Louisiana -----	20.2	103	50,916
Georgia -----	20.5	133	64,998
Alabama -----	21.3	134	62,925
Colorado -----	21.7	46	21,154
South Carolina -----	23.0	102	44,380
Florida -----	24.0	81	33,818
Delaware -----	30.5	14	4,597
Territories and possessions: ^{2/}			
Alaska -----	(3)	(4)	(3)
Hawaii -----	10.6	10	9,414
Puerto Rico -----	(3)	121	(3)

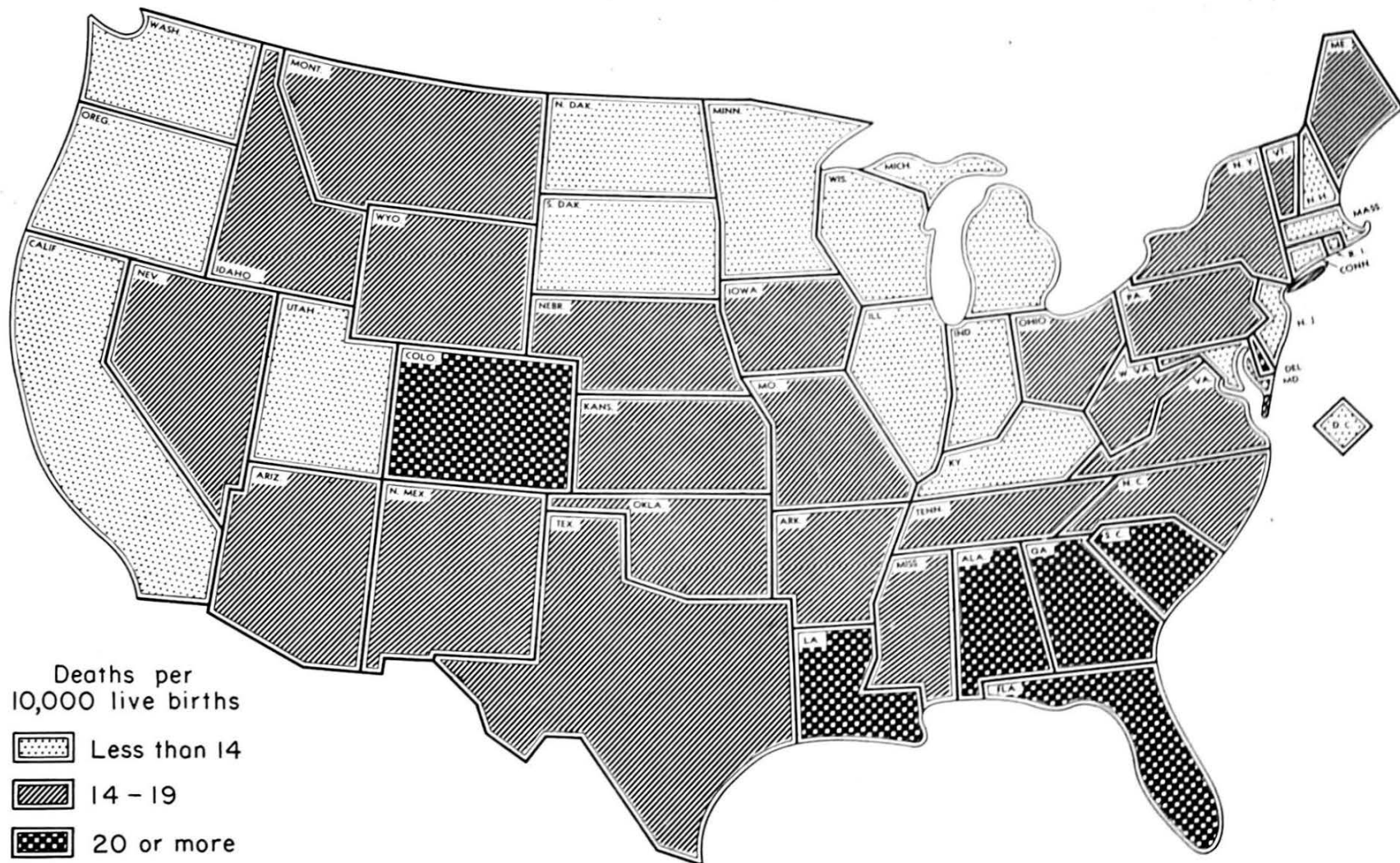
^{1/} Deaths due directly to infection with mention of abortion, ectopic gestation, or childbirth (numbers 140, 142a, and 147 of the International List of Causes of Death, 1938 revision).

^{2/} Included under the provisions of title V, parts 1, 2, and 3, of the Social Security Act, which are administered by the Children's Bureau.

^{3/} Not available; Alaska and Puerto Rico are not in the birth-registration area.

^{4/} Not available; Alaska is not in the death-registration area.

MATERNAL MORTALITY RATE FROM INFECTION IN EACH STATE UNITED STATES, 1940



U. S. Department of Labor
CHILDREN'S BUREAU

Chart No. MM 40-5

Based on data from U. S. Bureau of the Census

MATERNAL MORTALITY RATE FROM TOXEMIAS, MATERNAL DEATHS FROM THIS CAUSE, AND LIVE BIRTHS IN EACH STATE
UNITED STATES, 1940

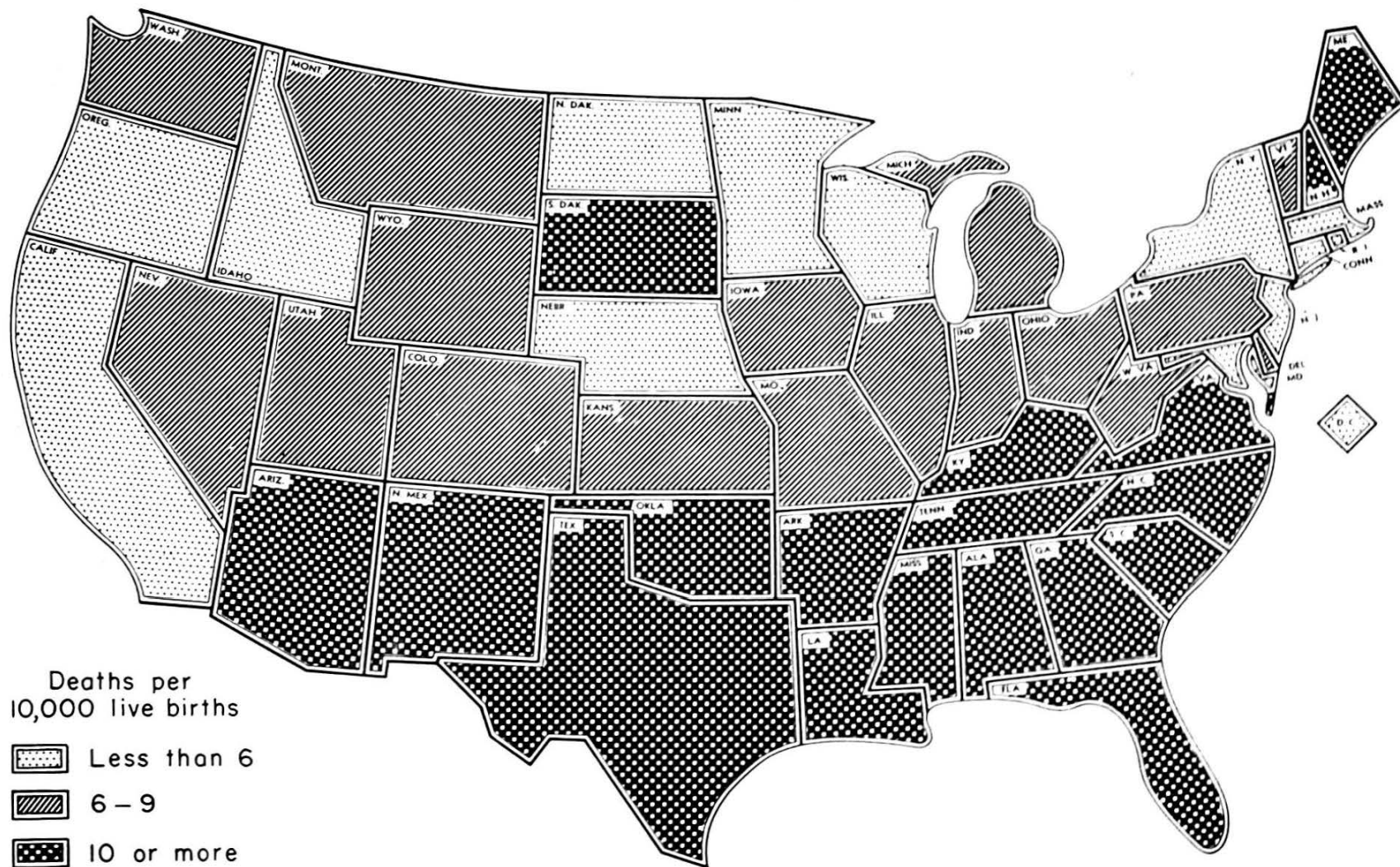
(States are ranked according to maternal mortality rate)

State	Maternal deaths from toxemias per 10,000 live births ^{1/}	Number of--	
		Maternal deaths from toxemias	Live births
Continental United States ^{2/} -----	9.5	2,250	2,360,399
North Dakota -----	2.2	3	13,356
Oregon -----	2.8	5	17,848
Rhode Island -----	2.8	3	10,805
Idaho -----	3.4	4	11,712
Nebraska -----	3.6	8	22,162
Maryland -----	4.3	13	30,251
New York -----	4.3	84	196,888
Wisconsin -----	4.4	24	54,848
Massachusetts -----	4.5	30	66,114
Minnesota -----	4.5	24	53,083
District of Columbia -----	4.6	7	15,309
New Jersey -----	4.6	27	58,617
California -----	5.4	61	112,011
Connecticut -----	5.6	14	25,195
Illinois -----	6.0	74	123,198
Michigan -----	6.1	60	99,108
Ohio -----	6.4	74	114,900
Kansas -----	6.6	19	28,695
Pennsylvania -----	6.6	109	165,680
Indiana -----	6.8	42	61,963
West Virginia -----	7.4	31	42,103
Iowa -----	7.5	34	45,464
Vermont -----	7.5	5	6,694
Montana -----	7.8	9	11,492
Wyoming -----	7.9	4	5,052
Colorado -----	8.0	17	21,154
Utah -----	8.1	11	13,559
Missouri -----	8.4	52	62,172
Washington -----	8.5	24	28,141
Delaware -----	8.7	4	4,597
Nevada -----	9.7	2	2,061
South Dakota -----	10.3	12	11,619
New Hampshire -----	10.6	9	8,503
Kentucky -----	11.2	71	63,591
Oklahoma -----	11.2	50	44,574
New Mexico -----	11.5	17	14,744
Arizona -----	11.9	14	11,754
Tennessee -----	13.6	76	55,815
Texas -----	13.8	175	126,687
Maine -----	13.9	21	15,119
Virginia -----	14.1	78	55,208
Louisiana -----	14.3	73	50,916
Arkansas -----	15.6	60	38,359
North Carolina -----	17.9	144	80,582
Georgia -----	18.5	120	64,998
Florida -----	21.0	71	33,818
South Carolina -----	22.1	98	44,380
Alabama -----	23.0	145	62,925
Mississippi -----	26.2	138	52,575

^{1/} Deaths due directly to convulsive and nonconvulsive toxemias of pregnancy and the puerperium (numbers 141a, 141c, 144, and 148 of the International List of Causes of Death, 1938 revision).

^{2/} Territories and possessions are not shown because the information is not available.

MATERNAL MORTALITY RATE FROM TOXEMIAS IN EACH STATE UNITED STATES, 1940



U. S. Department of Labor
CHILDREN'S BUREAU
Chart No. MM 40-6

Based on data from U. S. Bureau of the Census

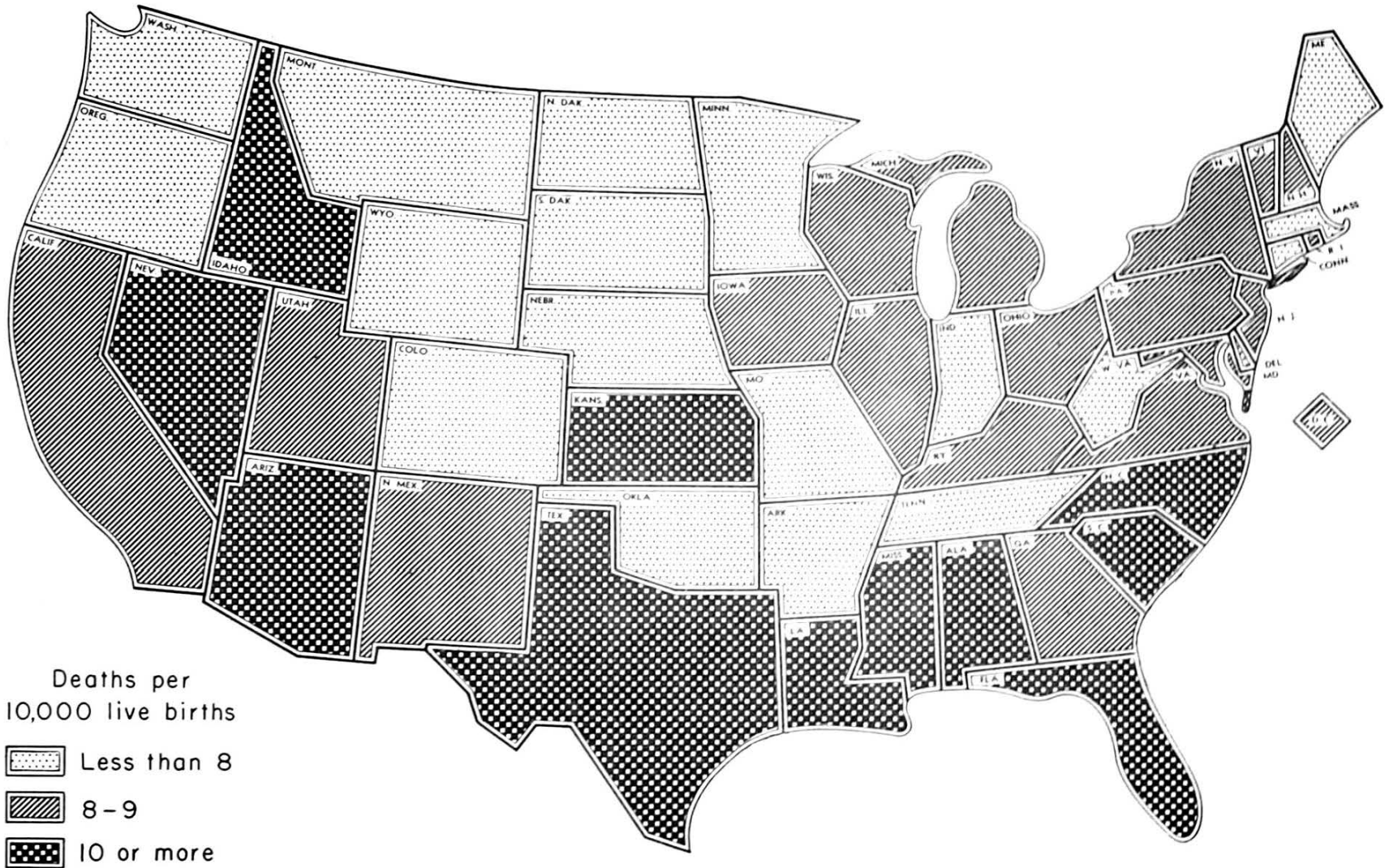
MATERNAL MORTALITY RATE FROM HEMORRHAGE, TRAUMA, OR SHOCK, MATERNAL DEATHS FROM THIS CAUSE,
AND LIVE BIRTHS IN EACH STATE; UNITED STATES, 1940
(States are ranked according to maternal mortality rate)

State	Maternal deaths from hemorrhage, trauma, or shock per 10,000 live births ^{1/}	Number of--	
		Maternal deaths from hemorrhage, trauma, or shock	Live births
Continental United States ^{2/} -----	8.7	2,058	2,360,399
Indiana -----	5.3	33	61,963
Colorado -----	5.7	12	21,154
Nebraska -----	5.9	13	22,162
Connecticut -----	6.4	16	25,195
Delaware -----	6.5	3	4,597
Minnesota -----	6.6	35	53,083
Arkansas -----	7.0	27	38,359
Oklahoma -----	7.0	31	44,574
Oregon -----	7.3	13	17,848
North Dakota -----	7.5	10	13,356
Massachusetts -----	7.6	50	66,114
Missouri -----	7.6	47	62,172
South Dakota -----	7.7	9	11,619
Montana -----	7.8	9	11,492
Washington -----	7.8	22	28,141
West Virginia -----	7.8	33	42,103
Maine -----	7.9	12	15,119
Tennessee -----	7.9	44	55,815
Wyoming -----	7.9	4	5,052
Kentucky -----	8.0	51	63,591
Pennsylvania -----	8.0	133	165,680
California -----	8.1	91	112,011
New York -----	8.1	160	196,888
Utah -----	8.1	11	13,559
Ohio -----	8.3	95	114,900
Rhode Island -----	8.3	9	10,805
Iowa -----	8.4	38	45,464
District of Columbia -----	8.5	13	15,309
Illinois -----	8.5	105	123,198
Michigan -----	8.7	86	99,108
New Mexico -----	8.8	13	14,744
Wisconsin -----	8.8	48	54,848
New Jersey -----	8.9	52	58,617
Vermont -----	9.0	6	6,694
Maryland -----	9.3	28	30,251
New Hampshire -----	9.4	8	8,503
Virginia -----	9.6	53	55,208
Georgia -----	9.7	63	64,998
Alabama -----	10.0	63	62,925
Kansas -----	10.1	29	28,695
North Carolina -----	10.4	84	80,582
Texas -----	10.4	132	126,687
Mississippi -----	10.8	57	52,575
Arizona -----	12.8	15	11,754
Idaho -----	12.8	15	11,712
Louisiana -----	12.8	65	50,916
South Carolina -----	13.7	61	44,380
Florida -----	13.9	47	33,818
Nevada -----	19.4	4	2,061

^{1/} Deaths due directly to hemorrhage, trauma, or shock during pregnancy, labor, delivery, or the puerperium (numbers 141b, 142b, 143, 146, and 149 of the International List of Causes of Death, 1938 revision).

^{2/} Territories and possessions are not shown because the information is not available.

MATERNAL MORTALITY RATE FROM HEMORRHAGE, TRAUMA, OR SHOCK IN EACH STATE UNITED STATES, 1940



U. S. Department of Labor
CHILDREN'S BUREAU
Chart No. MM 40-7

Based on data from U. S. Bureau of the Census

MATERNAL MORTALITY RATE, MATERNAL DEATHS, AND LIVE BIRTHS
UNITED STATES EXPANDING BIRTH-REGISTRATION AREA, 1915-40

Year	Maternal deaths per 10,000 live births ^{1/}	Number of--		Expanding birth-registration area ^{1/}	
		Maternal deaths	Live births	Number of States ^{2/}	Percent of United States population
1940--	37.6	8,876	2,360,399	48	100.0
1939--	40.4	9,151	2,265,588	48	100.0
1938--	43.5	9,953	2,286,962	48	100.0
1937--	48.9	10,769	2,203,337	48	100.0
1936--	56.8	12,182	2,144,790	48	100.0
1935--	58.2	12,544	2,155,105	48	100.0
1934--	59.3	12,859	2,167,636	48	100.0
1933--	61.9	12,885	2,081,232	48	100.0
1932--	63.3	13,120	2,074,042	47	95.2
1931--	66.1	13,964	2,112,760	46	94.7
1930--	67.3	14,836	2,203,958	46	94.7
1929--	69.5	15,084	2,169,920	46	94.7
1928--	69.2	15,461	2,233,149	44	94.3
1927--	64.7	13,837	2,137,836	40	87.6
1926--	65.6	12,168	1,856,068	35	77.0
1925--	64.7	12,158	1,878,880	33	76.2
1924--	65.6	12,672	1,930,614	33	76.2
1923--	66.5	11,922	1,792,646	30	72.3
1922--	66.4	11,792	1,774,911	30	72.3
1921--	68.2	11,688	1,714,261	27	65.4
1920--	79.9	12,058	1,508,874	23	59.8
1919--	73.7	10,127	1,373,438	22	58.6
1918--	91.6	12,496	1,363,649	20	53.6
1917--	66.2	8,958	1,353,792	20	53.6
1916--	62.2	5,091	818,983	11	32.5
1915--	60.8	4,719	776,304	10	31.1

^{1/} Data are for the expanding birth-registration area in the Continental United States; the deaths are those due directly to diseases of pregnancy, childbirth, and the puerperium (numbers 140-150 of the International List of Causes of Death, 1938 revision).

^{2/} The District of Columbia was in the area every year. It is not counted in the "Number of States."

Year of Admission of Each State to the Birth-Registration Area

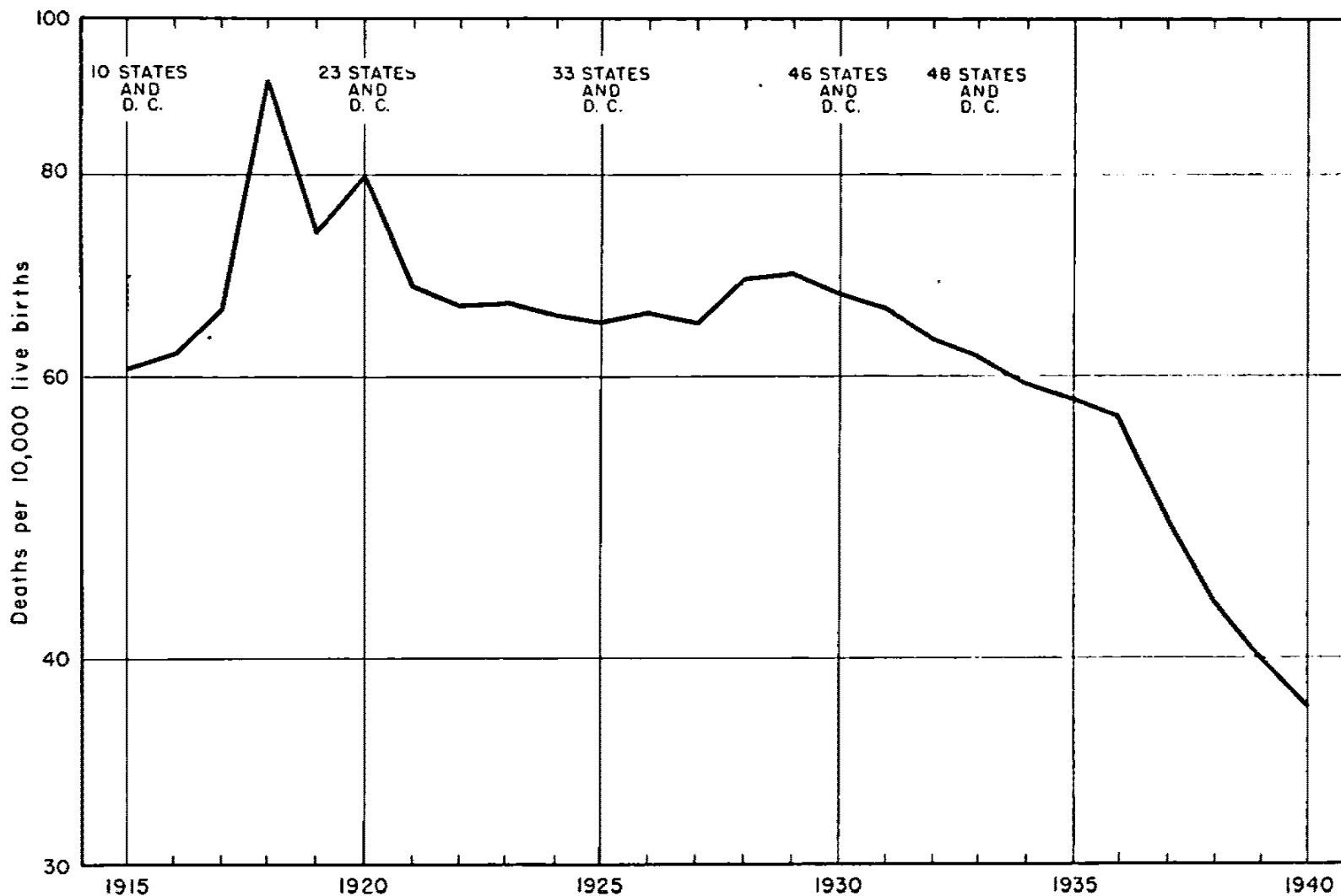
Year	State	Year	State	Year	State
1915---	Connecticut Maine Massachusetts Michigan Minnesota New Hampshire New York Pennsylvania Rhode Island ^{1/} Vermont District of Columbia	1917 Conti- nued--	Virginia Washington Wisconsin	1925---	West Virginia
1916---	Maryland	1919--	California Oregon South Carolina ^{2/}	1926---	Arizona Idaho
1917---	Indiana Kansas Kentucky North Carolina Ohio Utah	1920--	Nebraska	1927---	Alabama Arkansas Louisiana Missouri Tennessee
		1921--	Delaware Mississippi New Jersey	1928---	Colorado Georgia Oklahoma
		1922--	Illinois Montana Wyoming	1929---	Nevada New Mexico
		1924--	Florida Iowa North Dakota	1932---	South Dakota
				1933---	Texas

^{1/} Dropped from the registration area in 1919; readmitted in 1921.

^{2/} Dropped from the registration area in 1925; readmitted in 1928.

MATERNAL MORTALITY RATES

UNITED STATES EXPANDING BIRTH-REGISTRATION AREA, 1915-40



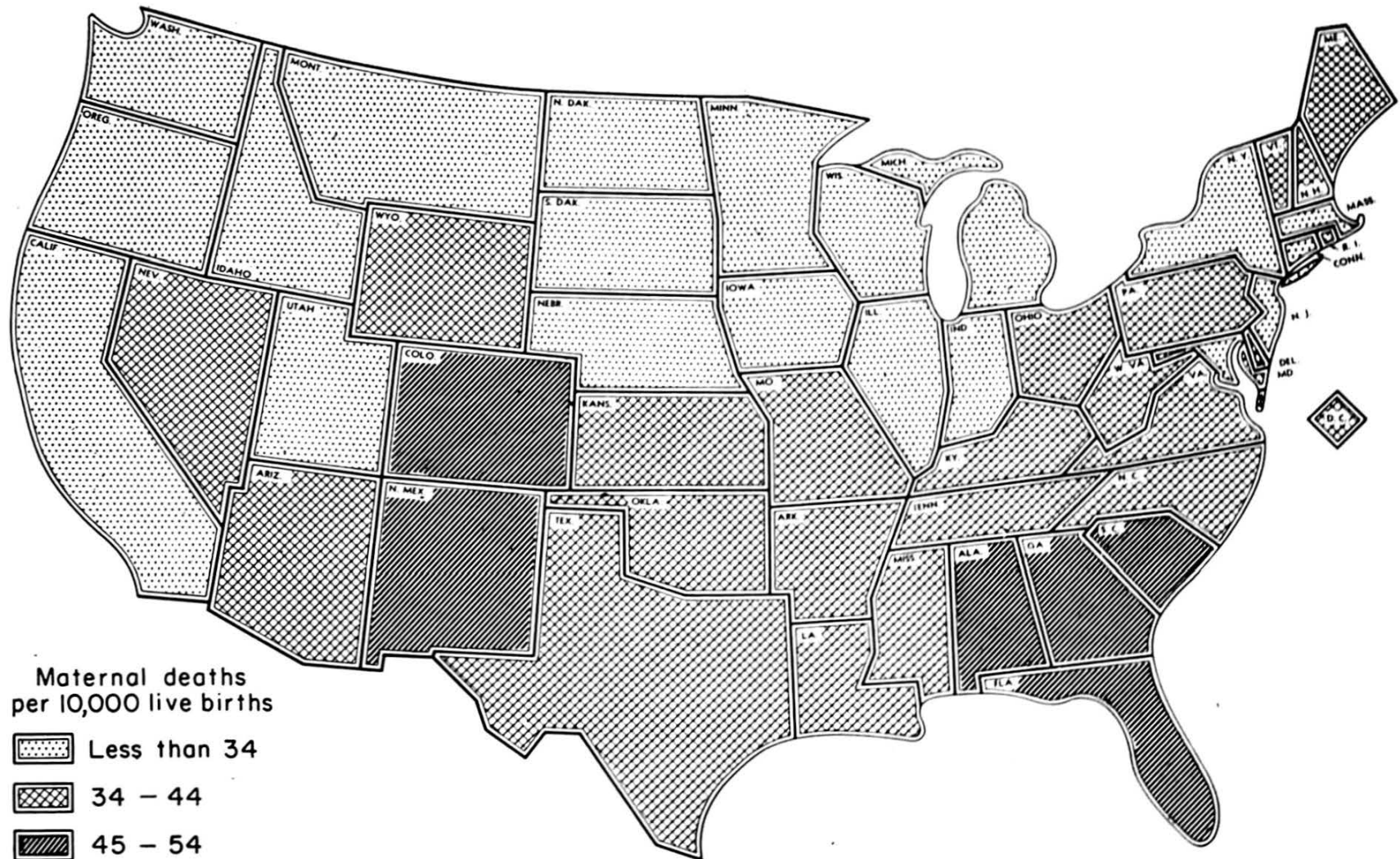
MATERNAL MORTALITY RATE, MATERNAL DEATHS, AND LIVE BIRTHS IN EACH STATE; WHITE WOMEN, UNITED STATES, 1938-40
(States are ranked according to maternal mortality rate)

State	Maternal deaths per 10,000 live births ^{1/}		Average annual number of--	
	White	Negro	White maternal deaths	White live births
Continental United States -----	35.0	80.4	7,056	2,018,860
North Dakota -----	20.9	(2)	27	12,744
Minnesota -----	26.0	(2)	131	50,460
Connecticut -----	26.4	(2)	62	23,521
Oregon -----	28.0	(2)	47	16,687
Wisconsin -----	28.2	(2)	152	54,056
Rhode Island -----	28.7	(2)	30	10,347
Maryland -----	29.1	52.1	66	22,834
Utah -----	29.2	(2)	38	13,131
California -----	29.5	81.9	297	100,840
Illinois -----	29.8	63.0	342	114,663
Montana -----	29.9	(2)	31	10,370
New Jersey -----	30.8	57.6	162	52,540
New York -----	30.8	79.9	559	181,599
Michigan -----	31.4	57.3	292	92,981
South Dakota -----	31.4	(2)	34	10,948
Washington -----	31.5	(2)	83	26,467
Idaho -----	32.3	(2)	36	11,254
Indiana -----	32.3	79.1	188	58,141
Iowa -----	32.4	(2)	142	43,884
Nebraska -----	32.9	(2)	72	21,977
Massachusetts -----	33.3	67.8	209	62,699
West Virginia -----	34.0	54.2	135	39,750
New Hampshire -----	34.6	(2)	28	8,081
Oklahoma -----	34.6	125.6	138	39,778
Ohio -----	34.7	66.7	369	106,298
Pennsylvania -----	34.8	62.7	540	155,047
Nevada -----	35.4	(2)	6	1,790
District of Columbia -----	35.5	66.1	34	9,680
Vermont -----	36.2	(2)	23	6,454
Virginia -----	36.9	81.3	143	38,667
Kansas -----	37.2	73.3	105	28,127
Missouri -----	37.2	63.9	208	55,935
Wyoming -----	37.2	(2)	18	4,835
Kentucky -----	37.9	87.5	223	58,818
Delaware -----	38.4	(2)	14	3,735
Arizona -----	38.8	(2)	38	9,802
North Carolina -----	39.4	75.2	214	54,192
Louisiana -----	41.9	81.0	122	29,035
Maine -----	42.0	(2)	63	15,066
Texas -----	42.8	102.4	461	107,793
Arkansas -----	43.3	85.9	122	28,252
Mississippi -----	44.3	73.3	104	23,501
Tennessee -----	44.4	100.2	204	46,053
Colorado -----	46.1	(2)	95	20,529
Georgia -----	46.6	80.3	182	39,046
Alabama -----	47.2	87.7	182	38,528
South Carolina -----	47.4	89.2	101	21,292
New Mexico -----	47.8	(2)	66	13,875
Florida -----	52.0	106.4	118	22,758
Territories and possessions: ^{3/}				
Alaska -----	(4)	(4)	(5)	(4)
Hawaii -----	30.1	(6)	5	1,772
Puerto Rico -----	(4)	(4)	259	(4)

^{1/} Deaths due directly to diseases of pregnancy, childbirth, and the puerperium (numbers 140-150 of the International List of Causes of Death, 1938 revision).
^{2/} Not shown because the number of Negro live births during the period was less than 2,500.
^{3/} Included under the provisions of title V, parts 1, 2, and 3, of the Social Security Act, which are administered by the Children's Bureau.
^{4/} Not available; Alaska and Puerto Rico are not in the birth-registration area.
^{5/} Not available; Alaska is not in the death-registration area.
^{6/} Not available; data for Hawaii are not tabulated separately.

MATERNAL MORTALITY RATE IN EACH STATE

WHITE WOMEN; UNITED STATES, 1938-40



U. S. Department of Labor
 CHILDREN'S BUREAU
 Chart No. MM 40-9

Based on data from U. S. Bureau of the Census

MATERNAL MORTALITY RATE, MATERNAL DEATHS, AND LIVE BIRTHS; NEGRO WOMEN, UNITED STATES
AND EACH OF THE 27 STATES WITH 2,500 OR MORE NEGRO LIVE BIRTHS, 1938-40
(States are ranked according to maternal mortality rate)

State	Maternal deaths per 10,000 live births ^{1/}		Average annual number of--	
	Negro	White	Negro maternal deaths	Negro live births
Continental United States ^{2/} -----	80.4	35.0	2,189	272,210
States with 2,500 or more Negro live births during the period ^{3/} -----	80.5	35.7	2,168	269,232
Maryland -----	52.1	29.1	33	6,338
West Virginia -----	54.2	34.0	12	2,274
Michigan -----	57.3	31.4	21	3,665
New Jersey -----	57.6	30.8	26	4,453
Pennsylvania -----	62.7	34.8	57	9,146
Illinois -----	63.0	29.8	41	6,452
Missouri -----	63.9	37.2	25	3,913
District of Columbia -----	66.1	35.5	29	4,384
Ohio -----	66.7	34.7	40	5,950
Massachusetts -----	67.8	33.3	6	935
Kansas -----	73.3	37.2	7	955
Mississippi -----	73.3	44.3	213	29,062
North Carolina -----	75.2	39.4	187	24,875
Indiana -----	79.1	32.3	16	2,024
New York -----	79.9	30.8	74	9,306
Georgia -----	80.3	46.6	207	25,747
Louisiana -----	81.0	41.9	165	20,417
Virginia -----	81.3	36.9	123	15,171
California -----	81.9	29.5	15	1,790
Arkansas -----	85.9	43.3	75	8,772
Kentucky -----	87.5	37.9	28	3,200
Alabama -----	87.7	47.2	207	23,569
South Carolina -----	89.2	47.4	191	21,458
Tennessee -----	100.2	44.4	82	8,216
Texas -----	102.4	42.8	155	15,105
Florida -----	106.4	52.0	102	9,614
Oklahoma -----	125.6	34.6	31	2,441
All other States ^{4/} -----	69.4	31.8	21	2,978

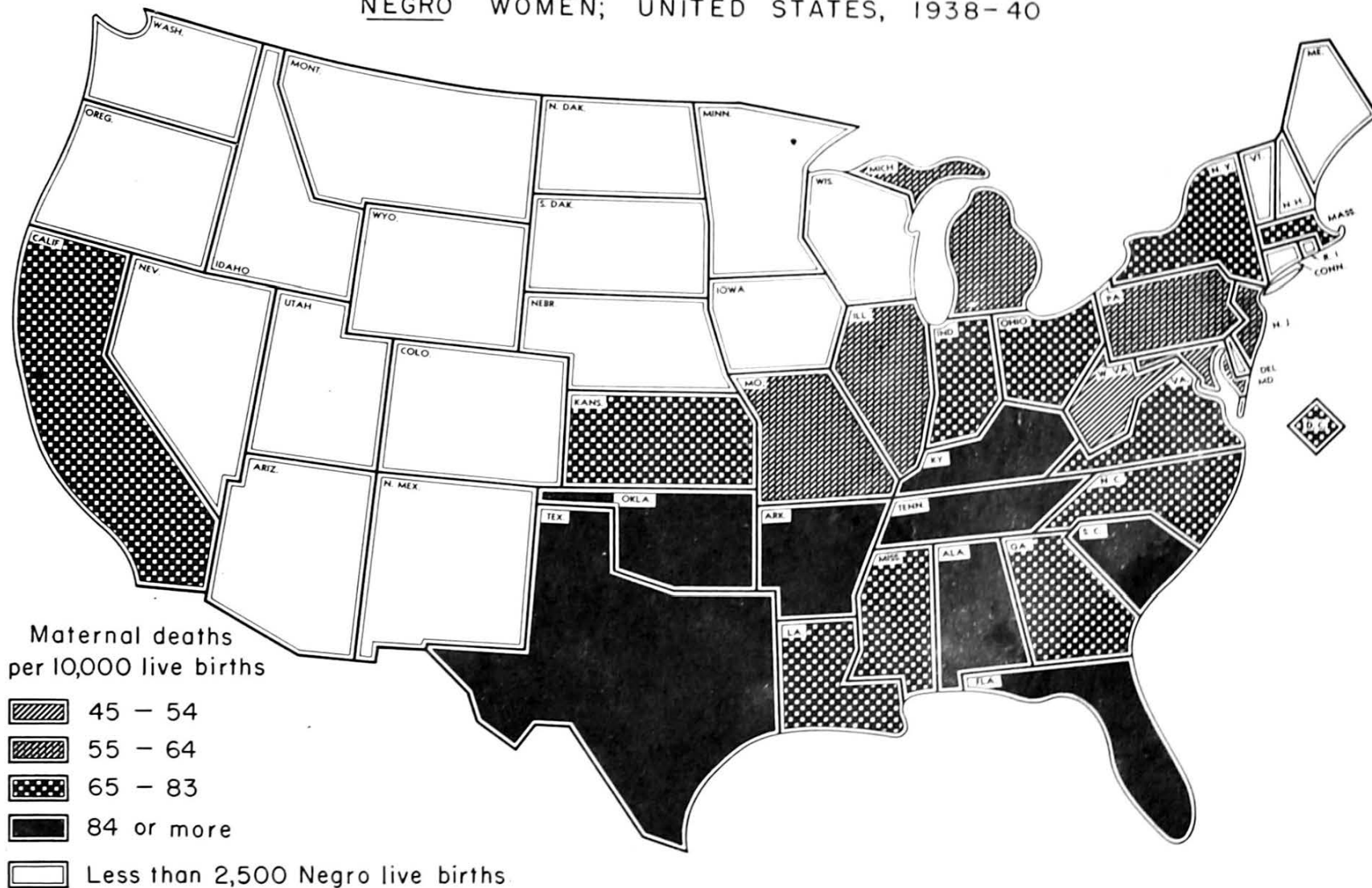
^{1/} Deaths due directly to diseases of pregnancy, childbirth, and the puerperium (numbers 140-150 of the International List of Causes of Death, 1938 revision).

^{2/} Territories and possessions are not shown because complete information is not available.

^{3/} Of the average annual number of Negro live births (272,210) and maternal deaths (2,189) in the United States, 99 percent (269,232 and 2,168 respectively) occurred in the 27 States with 2,500 or more Negro live births during the period.

^{4/} The 22 States with less than 2,500 Negro live births during the period.

MATERNAL MORTALITY RATE IN EACH STATE NEGRO WOMEN; UNITED STATES, 1938-40



U.S. Department of Labor
CHILDREN'S BUREAU

Chart No. MM 40-10

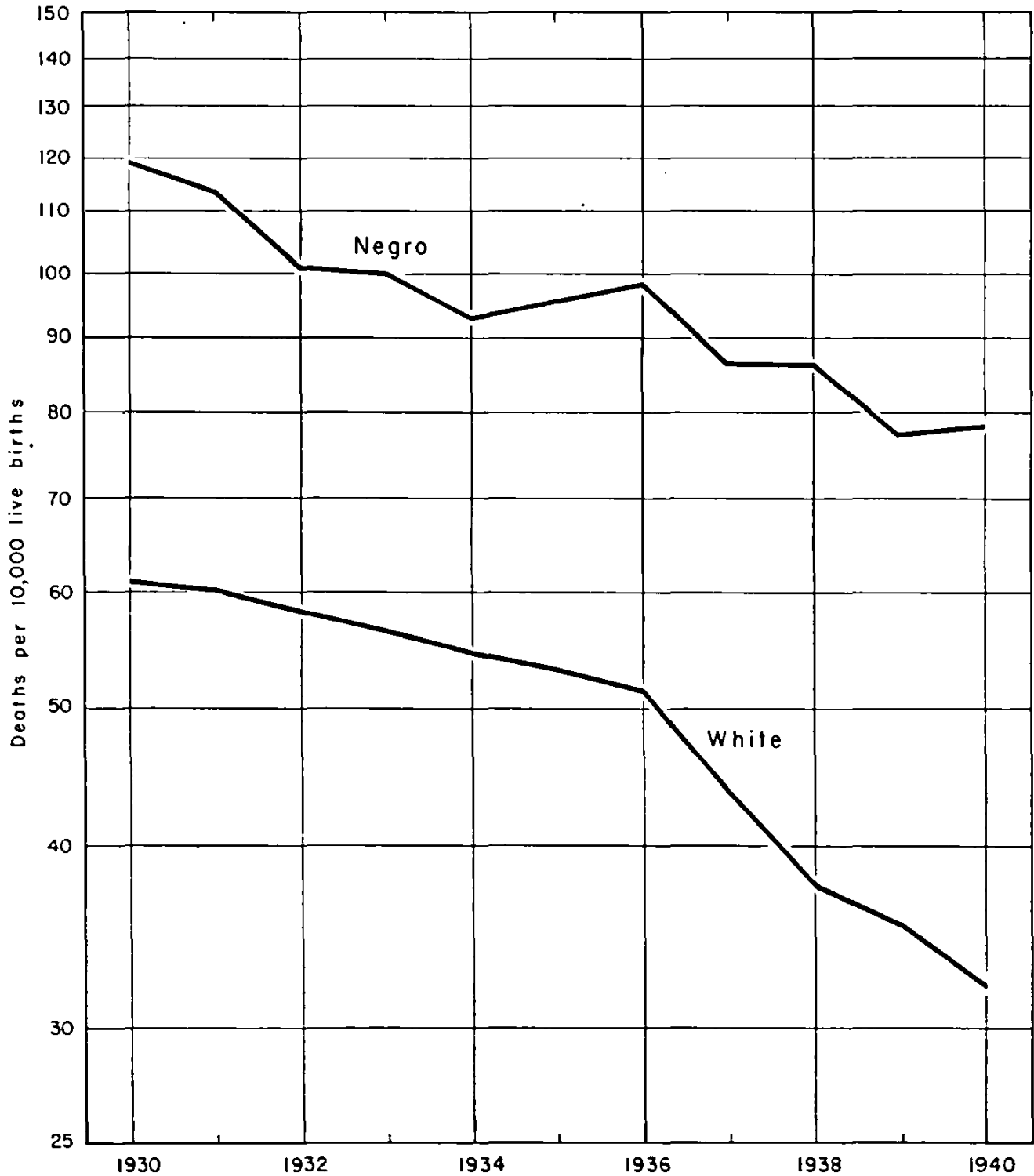
Based on data from U.S. Bureau of the Census

MATERNAL MORTALITY RATE, MATERNAL DEATHS, AND LIVE BIRTHS, BY RACE
 UNITED STATES EXPANDING BIRTH-REGISTRATION AREA, 1930-40

Year	Maternal deaths per 10,000 live births ^{1/}		Number of--			
			Maternal deaths		Live births	
	Negro	White	Negro	White	Negro	White
1940---	78.2	32.0	2,180	6,614	278,869	2,067,953
1939---	77.1	35.3	2,083	6,995	270,060	1,982,671
1938---	86.1	37.7	2,305	7,566	267,700	2,005,955
1937---	86.2	43.6	2,263	8,409	262,462	1,928,437
1936---	98.1	51.2	2,463	9,627	251,098	1,881,883
1935---	95.5	53.1	2,436	10,018	255,124	1,888,012
1934---	93.1	54.4	2,394	10,154	257,106	1,866,231
1933---	100.0	56.4	2,462	10,118	246,277	1,794,946
1932---	100.5	58.1	2,409	10,496	239,796	1,805,155
1931---	112.5	60.1	2,634	11,105	234,203	1,848,293
1930---	118.9	60.8	2,844	11,839	239,275	1,946,841

^{1/} Data are for the Continental United States. The birth-registration area in 1930 and 1931 included 94.7 percent of the population (all States except South Dakota and Texas); in 1932, 95.2 percent (all States except Texas). In every year from 1933 to 1940 it included the entire Continental United States. The deaths are those due directly to diseases of pregnancy, childbirth, and the puerperium (numbers 140-150 of the International List of Causes of Death, 1938 revision).

MATERNAL MORTALITY RATES AMONG WHITE AND NEGRO WOMEN UNITED STATES, 1930-40



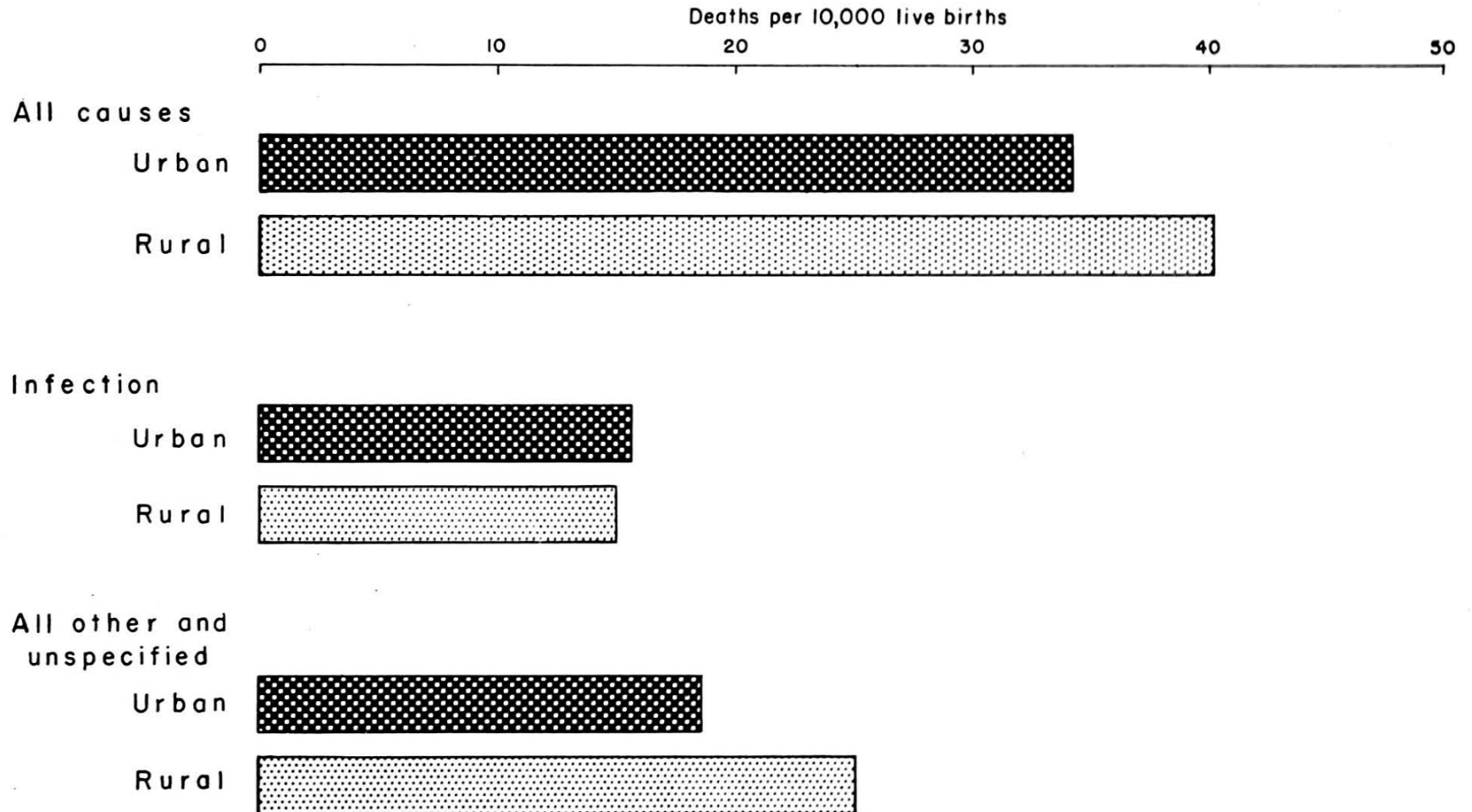
MATERNAL MORTALITY RATES, BY CAUSE AND BY RACE, IN URBAN AND RURAL AREAS
UNITED STATES, 1940

Cause and area	Maternal deaths ^{1/}					
	Number per 10,000 live births			Number		
	Total	White	All other races	Total	White	All other races
By Place of Residence						
All causes						
Urban ^{2/} -----	34.2	29.8	73.3	3,539	2,770	769
Rural ^{2/} -----	40.2	33.8	79.6	5,337	3,844	1,493
Infection						
Urban ^{2/} -----	15.6	13.5	34.6	1,616	1,253	363
Rural ^{2/} -----	15.1	13.4	25.7	2,010	1,528	482
All other and unspecified						
Urban ^{2/} -----	18.6	16.3	38.7	1,923	1,517	406
Rural ^{2/} -----	25.1	20.4	53.9	3,327	2,316	1,011
By Place of Occurrence						
All causes						
Urban ^{2/} -----	40.0	34.5	95.5	4,948	3,876	1,072
Rural ^{2/} -----	34.9	29.0	66.1	3,928	2,738	1,190
Infection						
Urban ^{2/} -----	18.0	15.6	43.0	2,231	1,748	483
Rural ^{2/} -----	12.4	10.9	20.1	1,395	1,033	362
All other and unspecified						
Urban ^{2/} -----	22.0	18.9	52.5	2,717	2,128	589
Rural ^{2/} -----	22.5	18.1	46.0	2,533	1,705	828

^{1/} Deaths in the Continental United States that were due directly to diseases of pregnancy, child-birth, and the puerperium (numbers 140-150 of the International List of Causes of Death, 1938 revision).

^{2/} Urban areas include cities of 10,000 or more population; all other areas are classified as rural.

MATERNAL MORTALITY RATES, BY CAUSE, AMONG RESIDENTS OF URBAN AND RURAL AREAS UNITED STATES, 1940



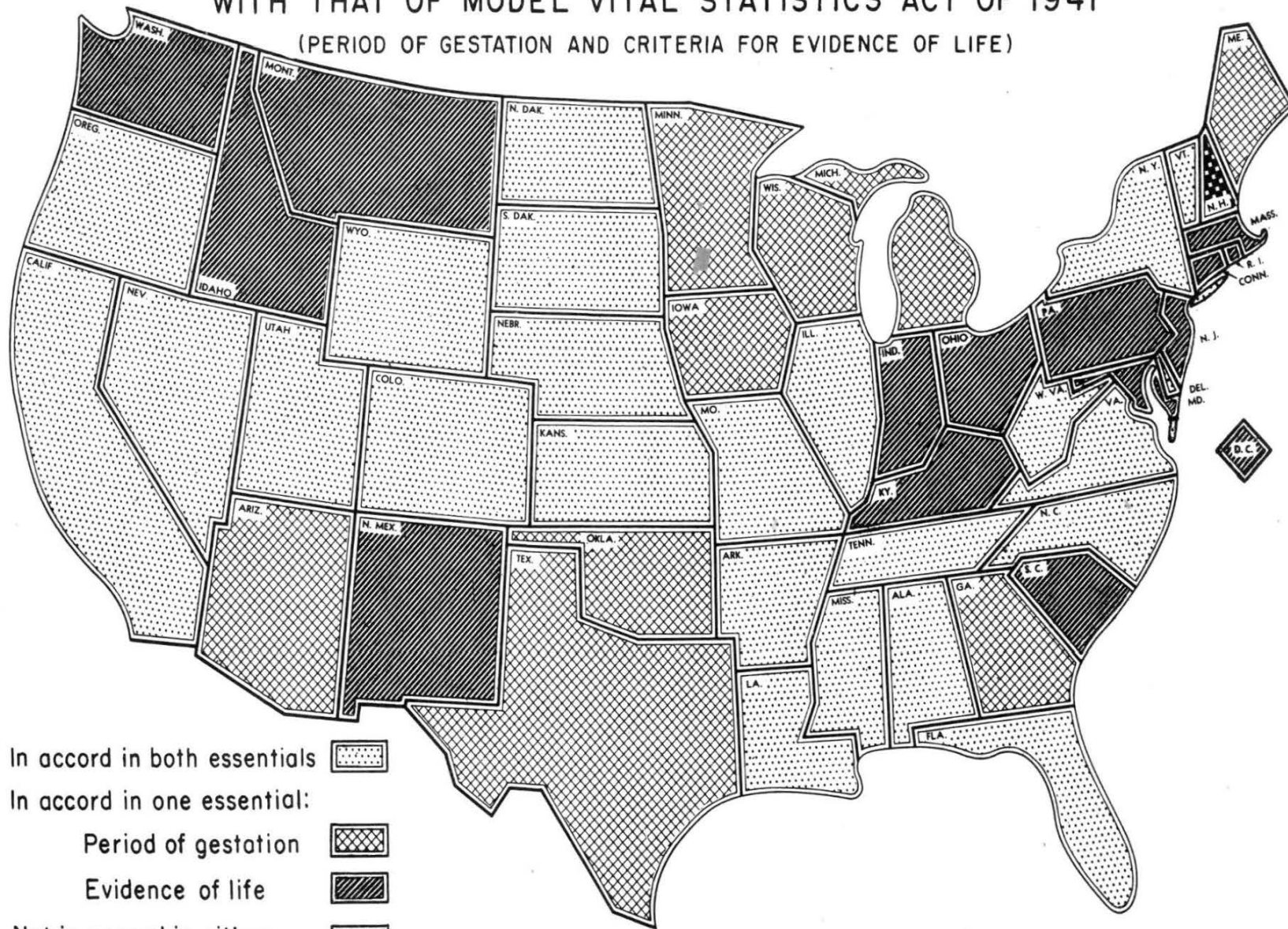
DEFINITION OF A STILLBIRTH IN EACH STATE AND ACCORDANCE OF DEFINITION WITH THAT OF THE MODEL VITAL STATISTICS ACT
(Period of gestation and criteria for evidence of life)





State	Minimum period of gestation		Evidence of life	
	Months or weeks Model law-at least 20 weeks	Authority (law or other 1/)	Criteria--(1) heart action, (2) breathing, (3) movement of voluntary muscle	Authority (law or other 1/)
In Accord in Both Essentials--Period of Gestation and Criteria for Evidence of Life				
Nevada ----- Oregon ----- Wyoming -----	After at least 20 weeks -----	Law -----	All criteria -----	Law
Alabama ----- California ----- Florida ----- Illinois ----- Nebraska ----- New York 3/ ----- North Carolina ----- Utah ----- West Virginia -----				
Tennessee -----				
Arkansas ----- Colorado ----- Delaware ----- Kansas ----- Louisiana ----- Mississippi ----- Missouri ----- North Dakota ----- South Dakota ----- Vermont ----- Virginia -----	Advanced to 5th month 2/ -----	Law -----	All criteria -----	Other
5 or more months -----	Other -----	All criteria -----	Law	
5th month ----- 5 months (20 weeks) or more ----- 5 months ----- Passed 20th week ----- 5 months (20 weeks or more) ----- 5 months ----- 5 months ----- 5 months ----- Advanced to 5th month ----- 5 months or over ----- 5 months (20 weeks) or more -----	Other -----	All criteria -----	Other	
In Accord in Only One Essential--Period of Gestation				
Arizona ----- Georgia ----- Iowa ----- Michigan ----- Minnesota ----- Oklahoma ----- Texas -----	Advanced to 5th month -----	Law -----	No criteria ----- No criteria ----- No criteria ----- Breathing, voluntary muscle ----- Breathing ----- No criteria ----- Breathing, heart action -----	----- ----- ----- Law Other Other Other
Maine ----- Wisconsin -----			5 months or more ----- 5th month -----	Other -----
In Accord in Only One Essential--Criteria for Evidence of Life				
Connecticut ----- Massachusetts ----- Ohio -----	After not less than 28 weeks 4/ ----- After 5 months ----- At least 4½ months -----	Law -----	All criteria -----	Law
Dist. of Col. ----- Idaho ----- Indiana ----- Kentucky ----- Maryland ----- Montana ----- New Jersey ----- New Mexico ----- Pennsylvania ----- Rhode Island ----- South Carolina ----- Washington -----	Passed 5th month ----- Development sufficient to give chance of live 7 months and over ----- 5½ months ----- Any recognizable product ----- 6 months or 24 weeks ----- Advanced beyond 5th month ----- 5½ months ----- 4 months ----- 6 completed months 5/ ----- 22 weeks ----- Advanced beyond 7th month -----	Law ----- Other ----- Law ----- Other ----- Other ----- Other ----- Other ----- Other ----- Other ----- Other ----- Other ----- Law -----	All criteria -----	Other
Not in Accord in Either Essential				
New Hampshire -----	28 weeks -----	Other -----	Breathing -----	Other

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1/ "Other" includes opinion of attorney general and regulations and instructions of State health agency.
 2/ West Virginia also includes "or total length of 10 inches."
 3/ Exclusive of New York City where all products are required to be registered.
 4/ Also includes "or measuring at least 13.8 inches."
 5/ Only certificates for these months are used for statistical purposes--all products of gestation must be registered.

EXTENT TO WHICH DEFINITION OF STILLBIRTH IN EACH STATE IS IN ACCORD WITH THAT OF MODEL VITAL STATISTICS ACT OF 1941 (PERIOD OF GESTATION AND CRITERIA FOR EVIDENCE OF LIFE)



In accord in both essentials 
 In accord in one essential:
 Period of gestation 
 Evidence of life 
 Not in accord in either essential 

UNITED STATES
DEPARTMENT OF LABOR
FRANCES PERKINS, SECRETARY



CHILDREN'S BUREAU
KATHARINE F. LENROOT, CHIEF

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