

VELMA FLOCH

*Michigan*

**HEALTH STATISTICS**

**1959**

**MICHIGAN DEPARTMENT OF HEALTH**

MICHIGAN  
HEALTH STATISTICS

ANNUAL STATISTICAL REPORT

1959



Division of Disease Control, Records and Statistics  
Michigan Department of Health  
Lansing 4, Michigan

# CHARTS - TABLES

## CHARTS

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**SYMBOLS USED IN THIS REPORT**

Quantity is zero, in frequency tables (one dash)	-
Quantity is zero, in rate or percent tables (one cipher)	0
If rate or percent is more than 0 but less than or equal to 0.05	0.0
Data not available or not applicable (blank space)	



# INTRODUCTION

This report contains health statistics concerning communicable diseases, births, deaths, fetal deaths, marriages, and divorces in Michigan during 1959 and previous years. The first four tables in this report include information pertaining to the years 1900-1959; the remaining tables contain only 1959 statistics.

Following is a discussion of items concerned with the interpretation of data in this report:

1) Incomplete Registration and Delay in Filing:

Birth and death registration has been steadily improving since 1900. Registration of births in Michigan was 98.7 percent complete according to a test done in connection with the 1950 census. Registration of deaths is considered to be even more complete than birth registrations because death certificates are necessary for issuing burial permits. Delayed registrations not included in annual statistics are also of minor concern. All reports for the current year which are received during the same year or during the first two months of the following year are included in the annual statistics. Those received after the first two months of the following year are considered negligible for statistical purposes.

2) Population Trend:

Population figures as issued by the Census Bureau have been used for the census years, whereas for the intervening years it has been necessary to establish estimates of population. Estimating procedures do not always adequately measure the full extent of extreme population changes and therefore population estimates may either be over or under the true situation. In addition to this limitation it is to be remembered that estimating procedures have varied considerably over the past years. Hence, in all instances where rates are based on estimated populations these two factors should be recognized.

3) Residence Allocation:

Residence data are obtained by allocating certificates, regardless of the place of occurrence, to the residence of the deceased in the case of a death, or the residence of the mother in the case of a birth or fetal death. Beginning with 1935 certificates, intra-state allocation according to this procedure has been followed for all births and deaths occurring in Michigan. Beginning with 1950 certificates, inter-state allocation of births and deaths was started. Thus, for 1950 and successive years births and deaths of Michigan residents occurring in other states have also been included and births and deaths occurring in Michigan to non-residents of Michigan have been excluded.

A minor change in definition of residence as applied to institutional deaths was effective beginning with 1949 certificates. Deaths in hospitals, sanatoria, and all other institutions, including mental, penal, old age, orphan, etc., are allocated in all instances to the place of previous residence, regardless of length of stay in institutions. If the previous residence cannot be obtained, allocation is to the place of occurrence of death. Prior to 1949, deaths in institutions were allocated to the area in which the institution was located unless the usual residence was recorded on the certificates.

4) Changes in Classification of Causes of Death:

During the past decades there have been several revisions of the International List of Causes of Death. The Sixth Revision was adopted in 1948 by the World Health Organization. Prior to the introduction of the Sixth Revision the principle cause of death was selected by means of an arbitrary set of rules. The Sixth Revision instituted a rather sweeping change in that the classification is based on the underlying cause of death as indicated by the physician. To enable the physician to indicate the underlying cause of death it was necessary to change the form of the death certificate to permit the recording of the proper sequence of morbid events which led to death. The policy of the physician specifying the underlying cause of death is a most desirable one since it provides statistics which more accurately reflect medical opinion. In Michigan both the revised certificate form and the Sixth Revision were used beginning in 1950. The Seventh Revision (1955) with only minor classification changes was used beginning with the 1958 statistics.

The comparability of cause of death statistics over a period of years is affected by changes in classification and policy. This should be kept in mind when comparing statistics from 1950 and successive years with those of earlier years.

5) Perinatal Mortality Rates:

Perinatal mortality rates are included in this report to facilitate the study of deaths during the late fetal and early neonatal period. These rates are based on all registered fetal deaths and the infant deaths of under 1 week of age.

These rates were computed according to the following formula:

$$\frac{\text{Fetal deaths} + \text{infant deaths under 1 week} \times 1000}{\text{Fetal deaths} + \text{live births}}$$

Health Department reports containing annual vital statistics have been published since 1900 with the exception of reports for the calendar years 1946, 1947, and 1949. For these three years brief statistical summaries have been distributed in lieu of the detailed departmental reports. The 1950 annual statistical report was revised both in content and format. All successive reports have conformed with these revisions.

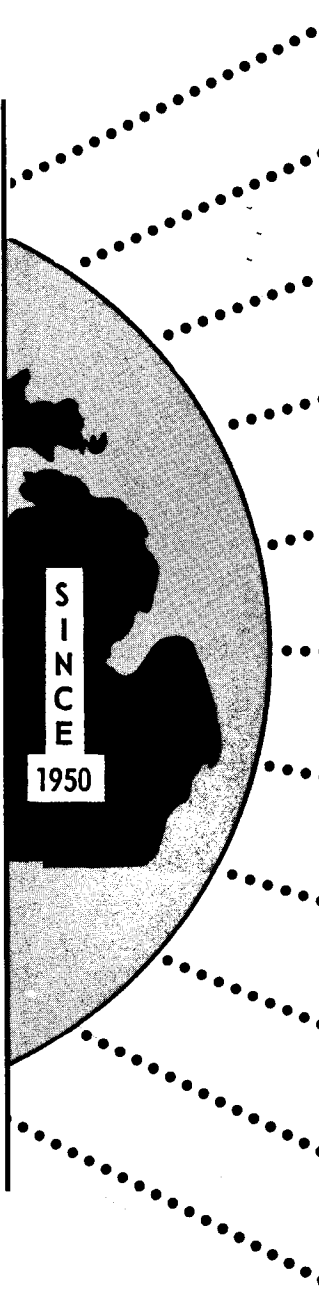
# **CHARTS**

## **MICHIGAN HEALTH STATISTICS 1959**

**STATISTICAL METHODS SECTION  
MICHIGAN DEPARTMENT OF HEALTH**

# MICHIGAN'S HEALTH PICTURE

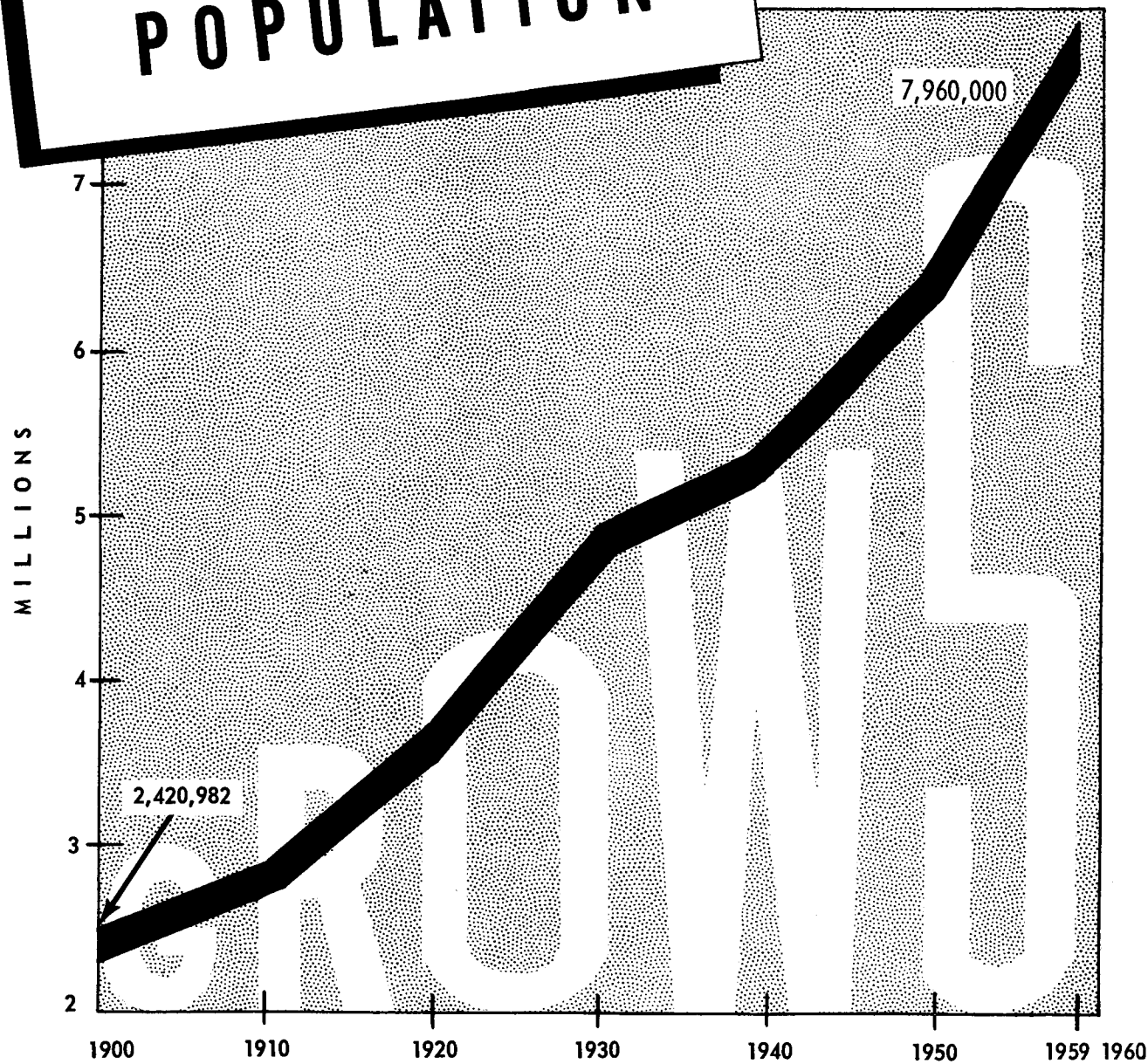
## 1950-1959



<b>POPULATION</b>	increased from 6,371,766 to 7,960,000 25% increase
<b>LIVE BIRTHS</b>	160,055 - '50      24% increase 198,301 - '59 second consecutive year of decline since 1948
<b>BIRTHS IN HOSPITALS</b>	97% in 1950; now 99%
<b>ILLEGITIMACY RATE</b>	increased by 23% from 27.6 to 33.9
<b>DEATH RATE</b>	last year's all time low of 8.4 continues
<b>INFANT DEATH RATE</b>	declined from 26.3 to 24.4 7% decrease
<b>MATERNAL DEATH RATE</b>	substantial decrease of 37% from 5.7 to 3.6
<b>PERINATAL DEATH RATE</b>	declined from 35.4 to 31.1
<b>TUBERCULOSIS DEATH RATE</b>	remarkable decrease of 77% from 19.9 to 4.6
<b>MARRIAGE RATE</b>	downward trend with minor fluctuations now 14.8, slightly higher than 1958
<b>DIVORCE RATE</b>	downward trend with minor fluctuations now 4.1

(Death rate per 1,000 estimated population, illegitimacy rate and infant death rate per 1,000 live births, maternal death rate per 10,000 live births, perinatal death rate - number of deaths under 1 week and fetal deaths per 1,000 live births and fetal deaths.)

# MICHIGAN'S POPULATION



## 1959 POPULATION TRIPLES THAT OF 1900

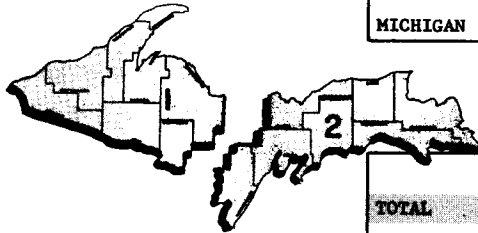
Source: Bureau of Census. Data for 1900-1950 are federal census counts. Estimate for 1959 was released December 27, 1959.

# POPULATION TRENDS BY ECONOMIC AREAS

## NUMERICAL DISTRIBUTION

### MICHIGAN, 1900 — 1959

	1900	1910	1920	1930	1940	1950	1959
<b>MICHIGAN</b>	2,420,982	2,810,173	3,668,412	4,842,325	5,256,106	6,371,766	7,960,000



#### UPPER PENINSULA

	1900	1910	1920	1930	1940	1950	1959
<b>TOTAL</b>	<b>261,362</b>	<b>325,628</b>	<b>332,556</b>	<b>318,676</b>	<b>323,544</b>	<b>302,258</b>	<b>307,430</b>
Area 1	164,654	215,791	218,916	204,608	200,265	178,251	178,210
Area 2	96,708	109,837	113,640	114,068	123,279	124,007	129,220

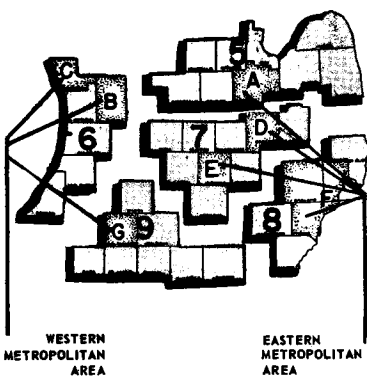
#### LOWER PENINSULA

##### UPPER PART

	1900	1910	1920	1930	1940	1950	1959
<b>TOTAL</b>	<b>351,673</b>	<b>385,609</b>	<b>332,837</b>	<b>297,318</b>	<b>334,343</b>	<b>358,788</b>	<b>387,776</b>
Area 3	104,105	111,929	91,857	84,774	92,266	100,654	108,810
Area 4	247,568	273,680	240,980	212,544	242,077	258,134	278,960

##### LOWER PART

	1900	1910	1920	1930	1940	1950	1959
<b>TOTAL</b>	<b>1,807,947</b>	<b>2,098,936</b>	<b>3,003,019</b>	<b>4,226,331</b>	<b>4,598,219</b>	<b>5,710,720</b>	<b>7,264,800</b>
Area 5,A	348,573	359,052	371,379	380,007	417,703	473,288	566,780
Area 6,B,C	327,668	371,649	423,971	532,676	566,566	685,967	869,090
Area 7,D,E	302,148	335,484	444,563	598,666	642,359	769,691	984,750
Area 8,F	562,572	743,745	1,450,442	2,362,921	2,592,981	3,318,068	4,273,700
Area 9,G	266,986	289,006	312,664	352,061	378,610	463,706	570,480
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
<b>Metropolitan Areas</b>	<b>800,733</b>	<b>1,081,077</b>	<b>1,929,934</b>	<b>3,042,797</b>	<b>3,307,281</b>	<b>4,150,160</b>	<b>5,346,160</b>
A	81,222	89,290	100,286	120,717	130,468	153,515	187,890
B	129,714	159,145	183,041	240,511	246,338	288,292	358,260
C	37,036	40,577	62,362	84,630	94,501	121,545	148,370
D	41,804	64,555	125,668	211,641	227,944	270,963	371,310
E	39,818	53,310	81,554	116,587	130,616	172,941	215,220
F	426,829	613,773	1,305,798	2,177,343	2,377,329	3,016,197	3,902,120
G	44,310	60,427	71,225	91,368	100,085	126,707	162,990
Western (B,C,G)	211,060	260,149	316,628	416,509	440,924	536,544	669,620
Eastern (A,D,E,F)	589,673	820,928	1,613,306	2,626,288	2,866,357	3,613,616	4,676,540
<b>Non-Metropolitan Areas</b>	<b>1,007,214</b>	<b>1,017,859</b>	<b>1,073,085</b>	<b>1,183,534</b>	<b>1,290,938</b>	<b>1,560,560</b>	<b>1,918,640</b>



Michigan's population has more than tripled since 1900. This is largely due to the increase in population in the lower part of the Lower Peninsula which in 1959 was approximately 4 times as large as in 1900. The metropolitan areas have been responsible for a considerable portion of this gain, increasing more than sixfold from 800,733 in 1900 to 5,346,160 in 1959. Area F (Wayne, Oakland, and Macomb Counties) contributed most of the metropolitan area gain.

The population in the Upper Peninsula has fluctuated during the period 1900-1959; likewise the population of Area 1 has fluctuated while that of Area 2 has consistently gained.

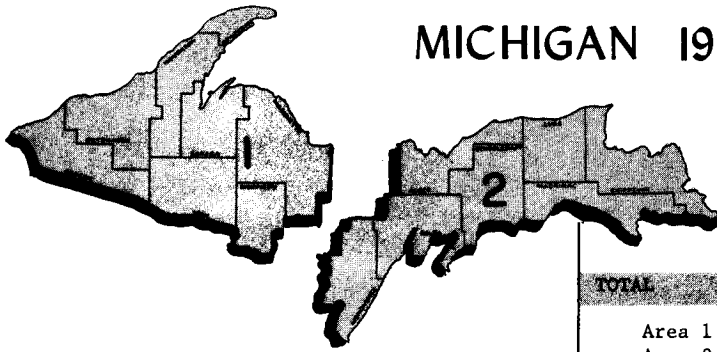
The population in the upper part of the Lower Peninsula fluctuated between 1900 and 1930, but has been increasing since that time. Both Areas 3 and 4 have contributed to this increase.

Note: Letters and numbers on map indicate economic areas, metropolitan and non-metropolitan, respectively, as used by the U. S. Bureau of Census. The numbered areas (non-metropolitan) and lettered areas (metropolitan) are mutually exclusive.

# POPULATION TRENDS BY ECONOMIC AREAS

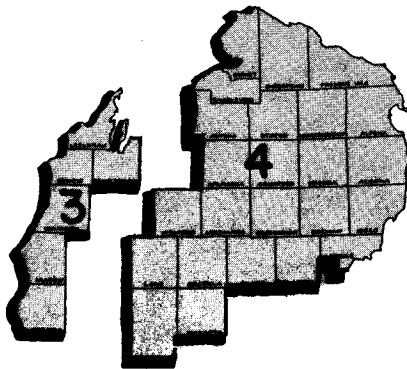
PERCENTAGE DISTRIBUTION

## MICHIGAN 1900 - 1959



### UPPER PENINSULA

	1900	1910	1920	1930	1940	1950	1959
<b>TOTAL</b>	<b>10.8</b>	<b>11.6</b>	<b>9.1</b>	<b>6.6</b>	<b>6.1</b>	<b>4.7</b>	<b>3.9</b>
Area 1	6.8	7.7	6.0	4.2	3.8	2.8	2.3
Area 2	4.0	3.9	3.1	2.4	2.3	1.9	1.6



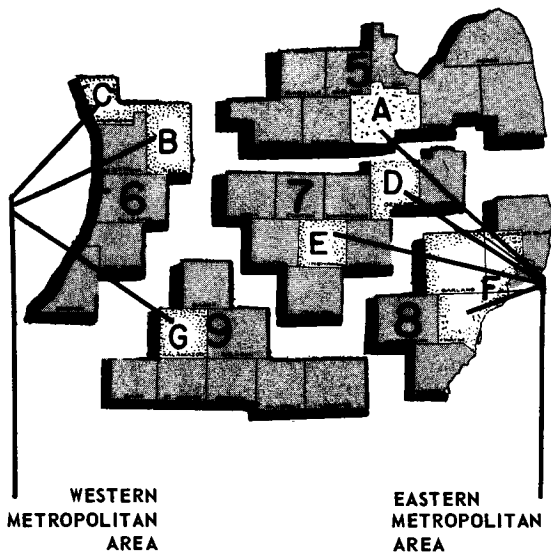
### LOWER PENINSULA

#### UPPER PART

	1900	1910	1920	1930	1940	1950	1959
<b>TOTAL</b>	<b>10.2</b>	<b>11.7</b>	<b>8.1</b>	<b>6.7</b>	<b>5.7</b>	<b>5.0</b>	<b>4.5</b>
Area 3	4.3	4.0	2.5	1.8	1.8	1.6	1.4
Area 4	10.2	9.7	6.6	4.4	4.6	4.1	3.5

#### LOWER PART

	1900	1910	1920	1930	1940	1950	1959
Area 5,A	14.4	12.8	10.1	7.8	7.9	7.4	7.1
Area 6,B,C	13.5	13.2	11.6	11.0	10.8	10.8	10.9
Area 7,D,E	12.5	11.9	12.1	12.4	12.2	12.1	12.4
Area 8,F	23.2	26.5	39.5	48.7	49.4	52.0	53.7
Area 9,G	11.1	10.3	8.5	7.3	7.2	7.3	7.1
* * * * *							
<b>Metropolitan Areas</b>	<b>33.0</b>	<b>38.5</b>	<b>52.5</b>	<b>62.9</b>	<b>62.9</b>	<b>65.1</b>	<b>67.2</b>
A	3.4	3.2	2.7	2.5	2.5	2.4	2.4
B	5.4	5.7	5.0	5.0	4.7	4.5	4.5
C	1.5	1.4	1.7	1.7	1.8	1.9	1.9
D	1.7	2.3	3.4	4.4	4.3	4.3	4.7
E	1.6	1.9	2.2	2.4	2.5	2.7	2.7
F	17.6	21.8	35.6	45.0	45.2	47.3	49.0
G	1.8	2.2	1.9	1.9	1.9	2.0	2.0
<b>Western (B,C,G)</b>	<b>8.7</b>	<b>9.3</b>	<b>8.6</b>	<b>8.6</b>	<b>8.4</b>	<b>8.4</b>	<b>8.4</b>
<b>Eastern (A,D,E,F)</b>	<b>24.3</b>	<b>29.2</b>	<b>43.9</b>	<b>54.3</b>	<b>54.5</b>	<b>56.7</b>	<b>58.8</b>
<b>Non-Metropolitan Areas</b>	<b>41.7</b>	<b>36.2</b>	<b>29.3</b>	<b>24.3</b>	<b>24.6</b>	<b>24.5</b>	<b>24.1</b>



The distribution of Michigan's population is very uneven, with 91% residing in the lower part of the Lower Peninsula. This large portion of the population is concentrated in thirty-eight of the eighty-three counties of the State. The remaining 9% are almost equally divided between the Upper Peninsula and the upper part of the Lower Peninsula. Since 1900 the trend in each of these sections has been a proportionately decreasing one, while the lower part of the Lower Peninsula has gradually increased proportionately. The increase since 1930 in the lower part of the Lower Peninsula was almost entirely due to the increase in the metropolitan areas, since the non-metropolitan areas have remained approximately the same.

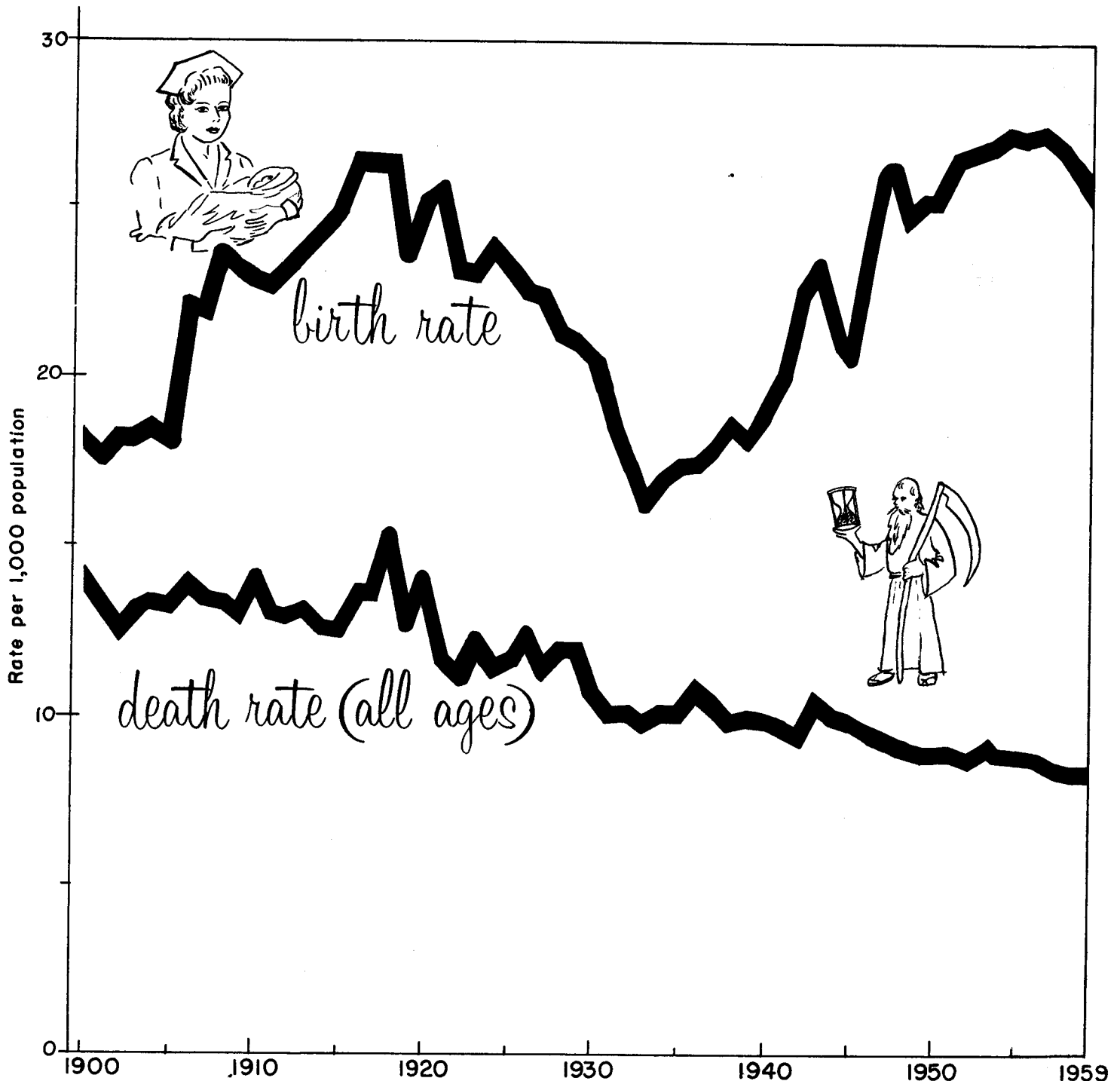
It is to be remembered that the trend of an area may be decreasing percentage wise yet increasing number wise. This relationship is illustrated in a comparison of Charts III and IV.

Note: Letters and numbers on map indicate economic areas, metropolitan and non-metropolitan, respectively, as used by the U. S. Bureau of Census. The numbered areas (non-metropolitan) and lettered areas (metropolitan) are mutually exclusive.

# BIRTH AND DEATH RATES

MICHIGAN 1900 to date

V



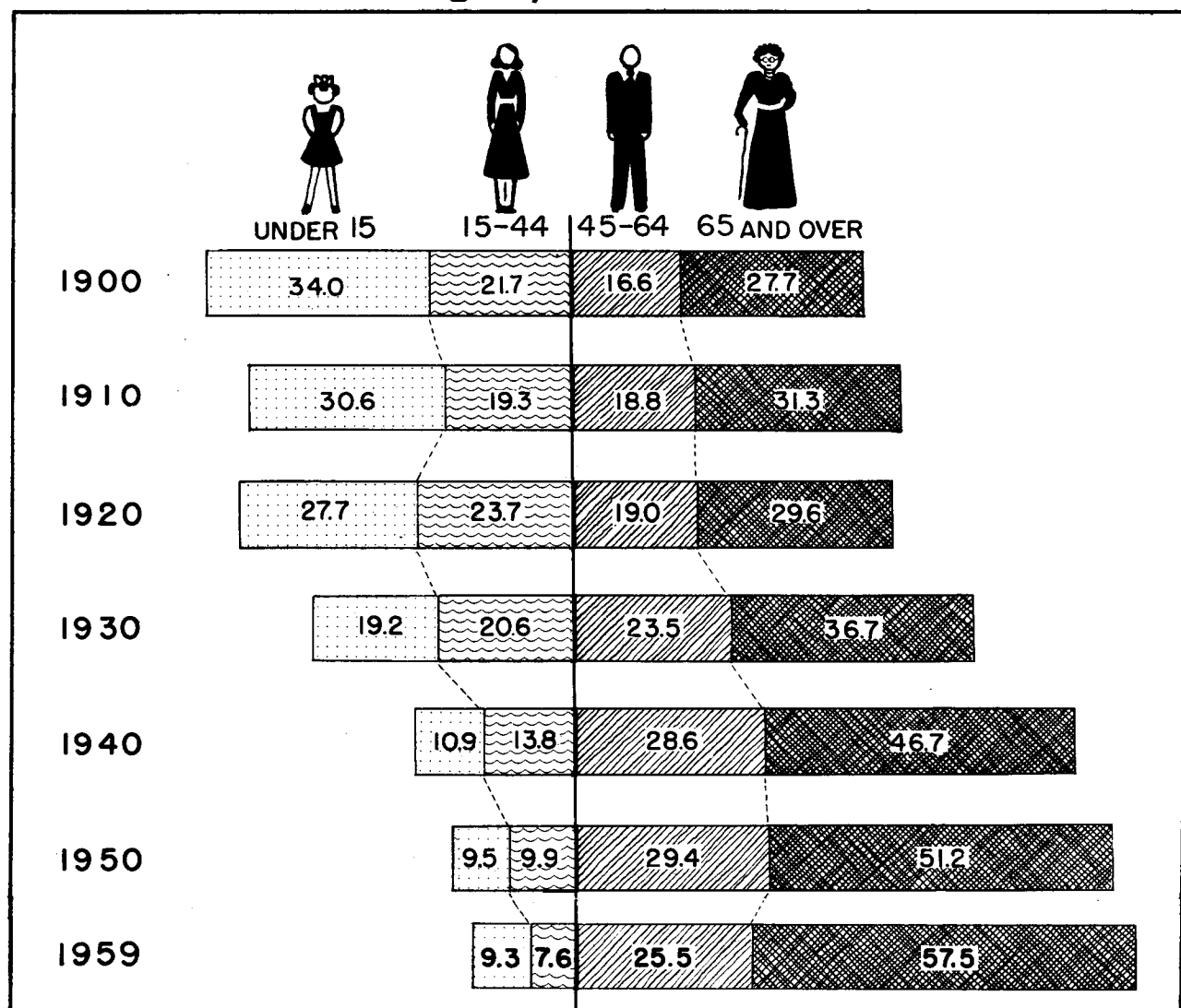
From the beginning of the century the birth rate trend was upward, reaching a high of 26.2 in 1916 and 1917. The rate then declined to an all time low of 16.2 during the depression year of 1933. With the exception of the 2 years at the close of the war 1944 and 1945, the trend continued upward again reaching an all time high of 27.4 in 1956. The trend then reversed with the rate declining to 24.9 in 1959.

In 1900 the death rate was 13.4 per 1,000 population. Since that time, the death rate trend has been downward with one high point of 15.6 during 1918 as a result of the influenza epidemic following the first world war. The 1959 death rate remains at the 1958 all time low of 8.4 – a drop of 37% since 1900.



# AGE AT DEATH—*a changing pattern*

## Percentage Distribution Michigan, since 1900



Since the beginning of the century an amazing and progressive change in the age at death pattern has occurred between the younger (under 45 years) and older (45 years and older) age groups.

	UNDER 45 YEARS	45 YEARS & OLDER
1900	56%	44%
1959	17%	83%

The trend has been a gradual decrease in each of the age groups under 45 years and a gradual increase in each of the age groups 45 years and older.

In 1900 approximately 1/3 of all deaths occurred under 15 years of age; the proportion has decreased to less than 1/10 at the present time.

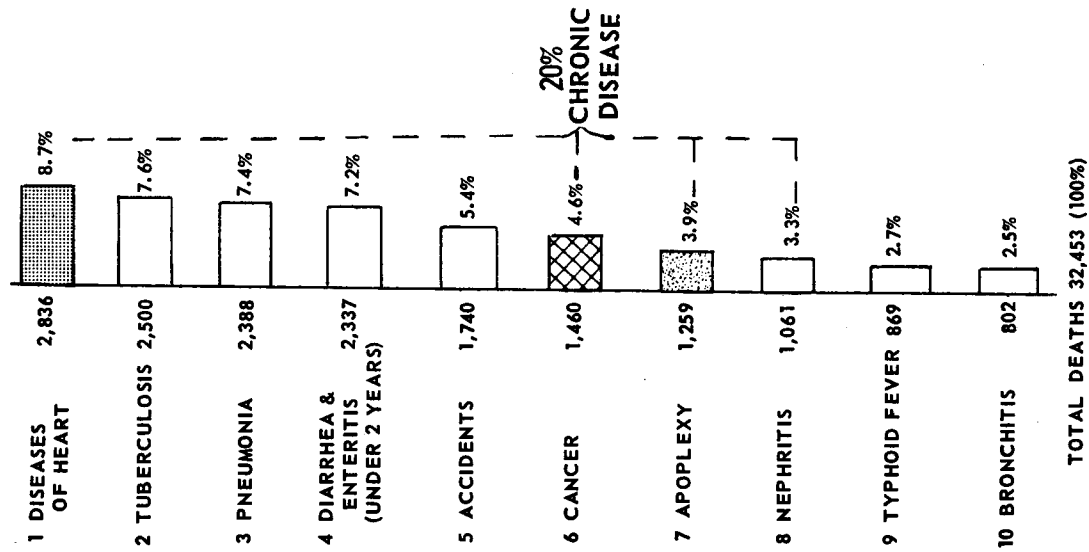
In contrast only slightly over 1/4 of all deaths occurred in the 65 and over age group in 1900; the proportion has increased now to more than 1/2.

These changes reflect 1) the decrease in deaths due to communicable diseases and other diseases of childhood, 2) an increase in those due to chronic diseases in the older age groups.

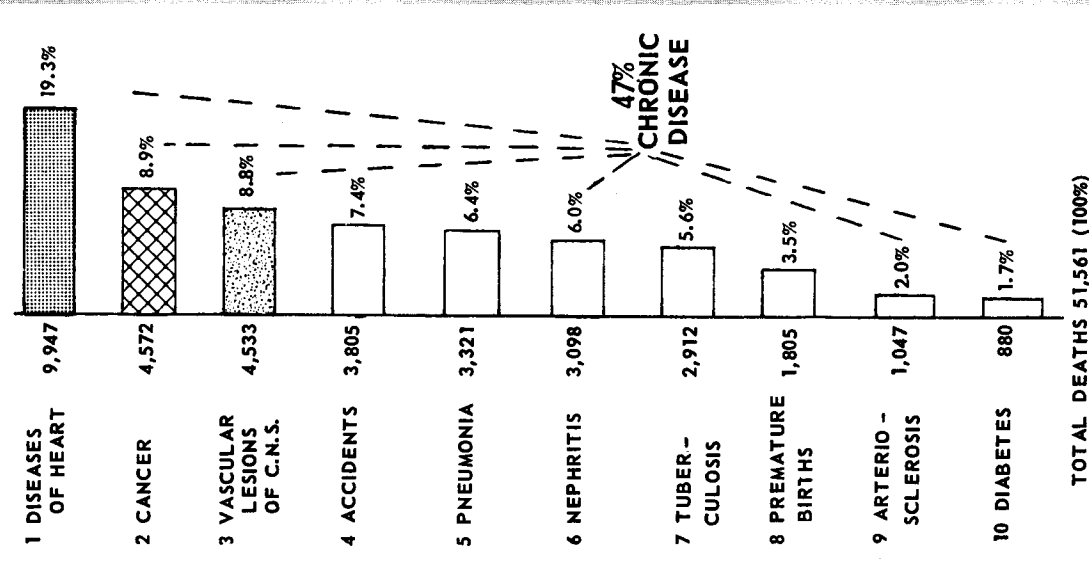
# LEADING CAUSES OF DEATH

## MICHIGAN

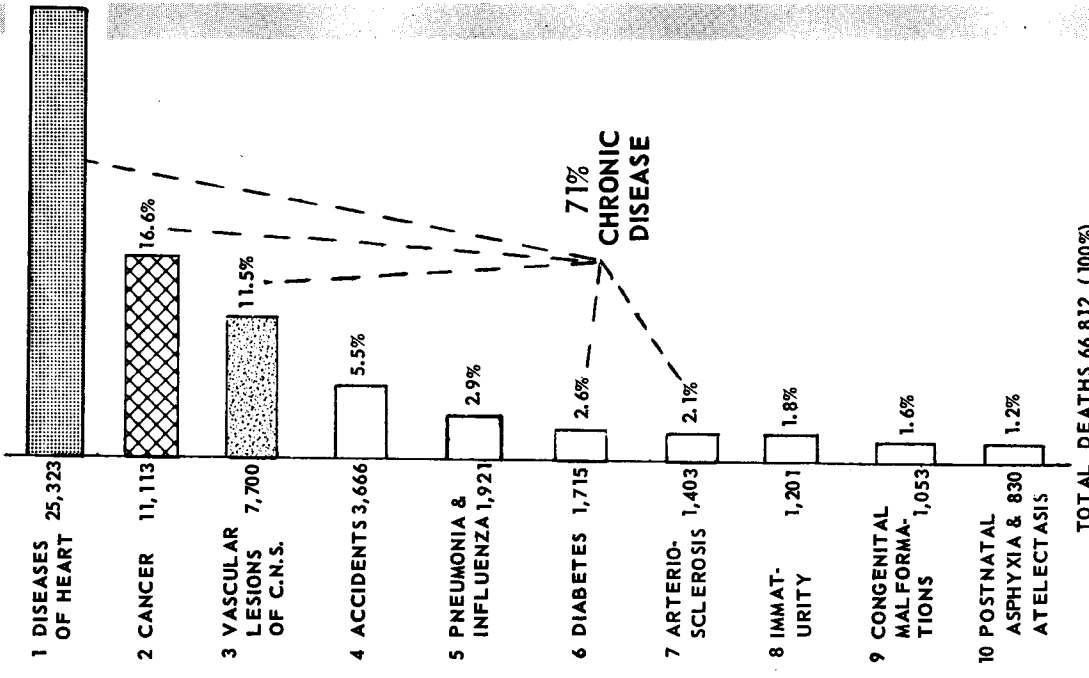
1900



1930



1959

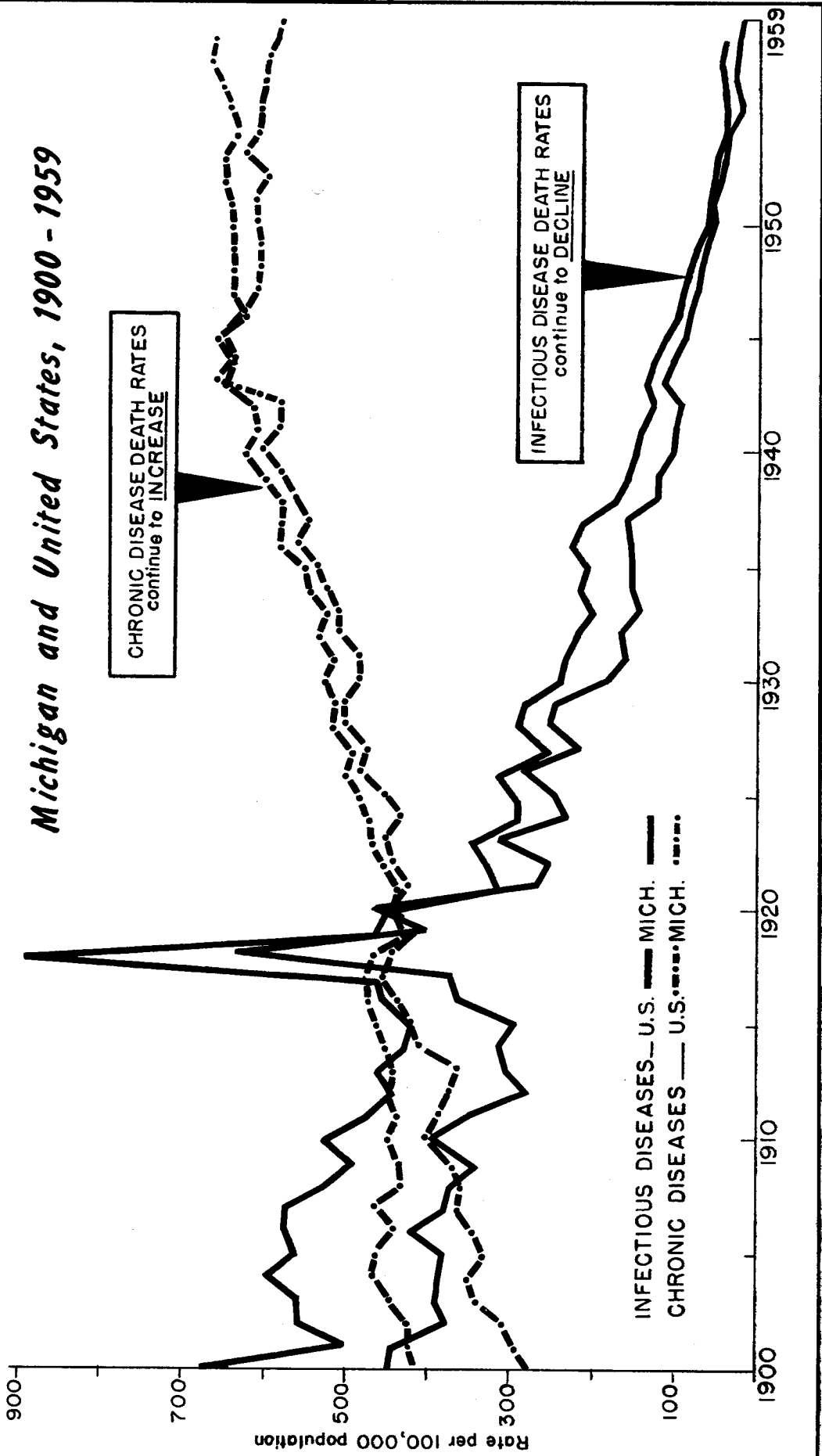


☐ Indicates a chronic disease appearing in one or two of the years 1900, 1930, 1959 but not all three.

Statistical Methods Section  
Michigan Department of Health

# DEATH RATES DUE TO CERTAIN CHRONIC & INFECTIOUS DISEASES\*

Michigan and United States, 1900 - 1959



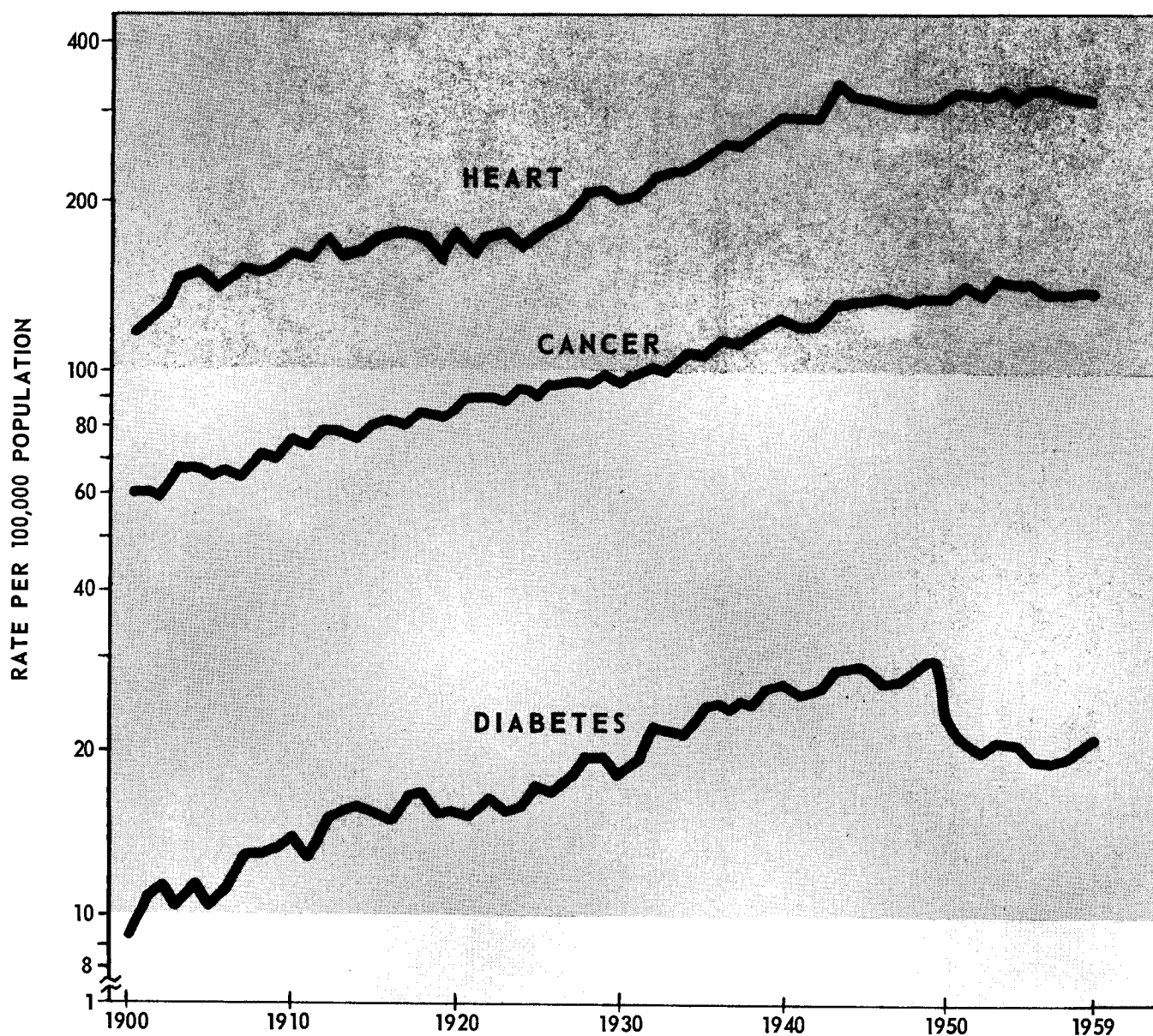
\*Includes diseases with corresponding Seventh Revision Detailed List Numbers as follows:

Chronic Diseases - Cancer (140-205), Diabetes (260), Vascular lesions affecting central nervous system: (330-334), Diseases of heart (410-443), Chronic and unspecified nephritis (592-594), Ulcer of stomach or duodenum (540-541), and Cirrhosis of liver (581). Infectious Diseases - Typhoid fever (40), Scarlet fever (50), Whooping cough (56), Diphtheria (55), Tuberculosis (1-19), Dysentery (45-48), Malaria (110-117), Syphilis (20-29), Measles (85), Pneumonia & influenza (480-493), Diarrhea, enteritis, and ulceration of intestines (543,571,572).

Source of United States data: Building America's Health, Vol. III, Table 36, and Vital Statistics of United States, Vol. II, III. (U. S. data for 1959 not available.)

# MORTALITY TRENDS - heart, cancer, diabetes

MICHIGAN, 1900 - 1959

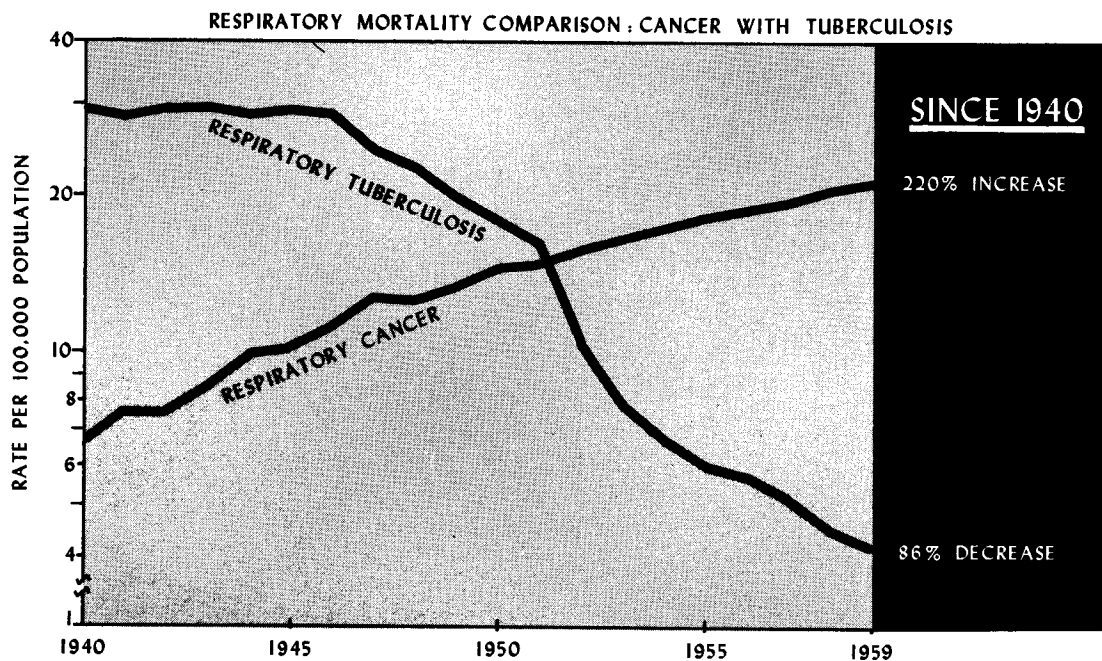


Heart disease, cancer, and diabetes are among the leading causes of death in Michigan accounting for 57% of all deaths. Between 1900-1949 the death rate trend of each of these has been progressively upward. However, the death rates have increased more rapidly for diabetes than for either heart disease or cancer; the increases were 219% for diabetes, 157% for heart disease, and 127% for cancer.

Beginning in 1950, the Sixth Revision Classification of Causes of Death was used which increased the number of deaths classified as due to heart disease by approximately 6% and decreased those due to cancer and diabetes by approximately 3% and 28% respectively.

Since 1950, although there were minor fluctuations in heart disease and cancer death rates, they both followed similar trend patterns. The diabetes death rate dropped noticeably in 1950 due largely to classification changes; since then there have been minor fluctuations followed by successively higher rates for the last three years.

# CANCER MORTALITY TRENDS MICHIGAN SINCE 1940



1940: Respiratory Tuberculosis Death Rate was 4.4 times the Respiratory Cancer Death Rate.  
1959: Respiratory Cancer Death Rate was 5.0 times the Respiratory Tuberculosis Death Rate.

## CANCER MORTALITY BY SITE

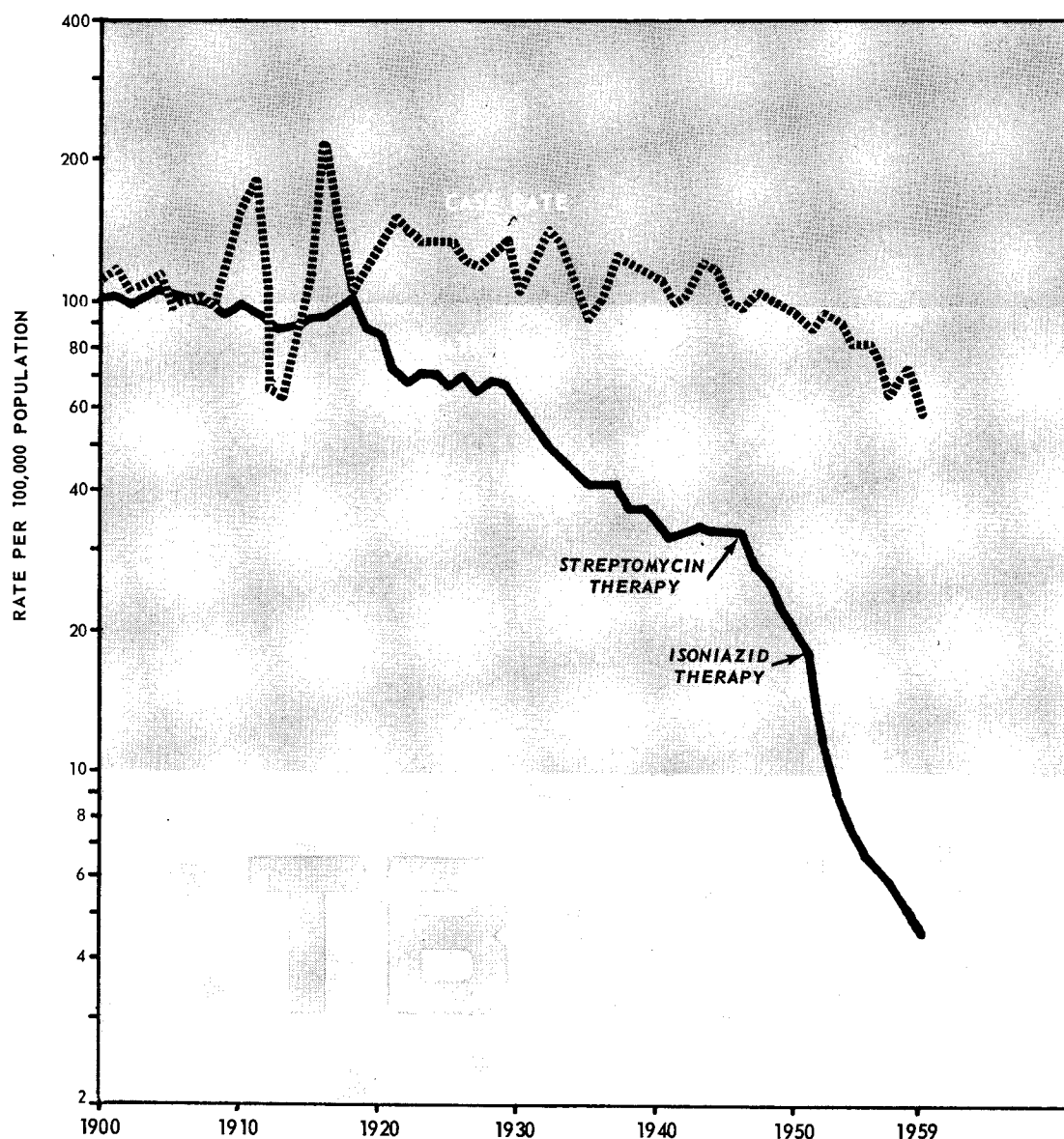
CAUSE	NUMBER					RATE PER 100,000 POPULATION				
	1940	1945	1950	1955	1959	1940	1945	1950	1955	1959
<b>TOTAL</b>	6,513	7,486	8,685	10,297	11,113	123.9	137.7	136.3	142.3	139.6
Buccal cavity & pharynx	191	206	219	222	241	3.6	3.8	3.4	3.1	3.0
Digestive organs & peritoneum	2,884	3,227	3,464	3,880	3,939	54.9	59.4	54.4	53.6	49.5
Esophagus	123	125	134	216	214	2.3	2.3	2.1	3.0	2.7
Stomach	1,133	1,119	1,076	1,030	965	21.6	20.6	16.9	14.2	12.1
Intestines (including duodenum & rectum)	980	1,204	1,394	1,701	1,698	18.6	22.2	21.9	23.5	21.3
Liver & biliary passages	384	453	468	411	451	7.3	8.3	7.3	5.7	5.7
Pancreas	202	244	329	463	553	3.8	4.5	5.2	6.4	7.0
Other	62	82	63	59	58	1.2	1.5	1.0	0.8	0.7
<b>Respiratory system</b>	<b>347</b>	<b>549</b>	<b>923</b>	<b>1,318</b>	<b>1,678</b>	<b>6.6</b>	<b>10.1</b>	<b>14.5</b>	<b>18.2</b>	<b>21.1</b>
Breast & genito-urinary organs	2,195	2,396	2,520	2,975	3,255	41.8	44.1	39.5	41.1	40.9
Breast	643	671	774	878	975	12.2	12.3	12.1	12.1	12.2
Uterus	660	704	594	677	611	12.6	13.0	9.3	9.4	7.7
Other female genital organs	156	217	278	347	373	3.0	4.0	4.4	4.8	4.7
Male genital organs	414	462	451	602	681	7.9	8.5	7.1	8.3	8.6
Urinary organs	322	342	423	471	615	6.1	6.3	6.6	6.5	7.7
Other & unspecified sites	896	1,108	1,559	1,902	2,000	17.0	20.4	24.5	26.3	25.1
Skin	84	115	106	140	123	1.6	2.1	1.7	1.9	1.5
Leukemia & aleukemia	215	255	321	444	475	4.1	4.7	5.0	6.1	6.0
Hodgkin's disease	62	80	98	126	123	1.2	1.5	1.5	1.7	1.5
Other	535	658	1,034	1,192	1,279	10.2	12.1	16.2	16.5	16.1

Along with a gradually increasing trend in the total cancer death rate, the mortality rate for cancer of the respiratory system has increased considerably in the last 19 years. For every 100,000 people there were more than three times as many people dying of cancer of the respiratory system in 1959 as in 1940; the rates were 21.1 and 6.6 respectively. Also cancer of the respiratory system has become an increasingly greater proportion of the total cancer problem representing 15% of all the cancer deaths in 1959 as compared with 5% in 1940.

At the same time, death rates for cancer of the pancreas have nearly doubled while there have been noticeable decreases in the death rates due to cancer of the stomach and of the uterus.

# TUBERCULOSIS CASE & DEATH RATES

## MICHIGAN, 1900-1959

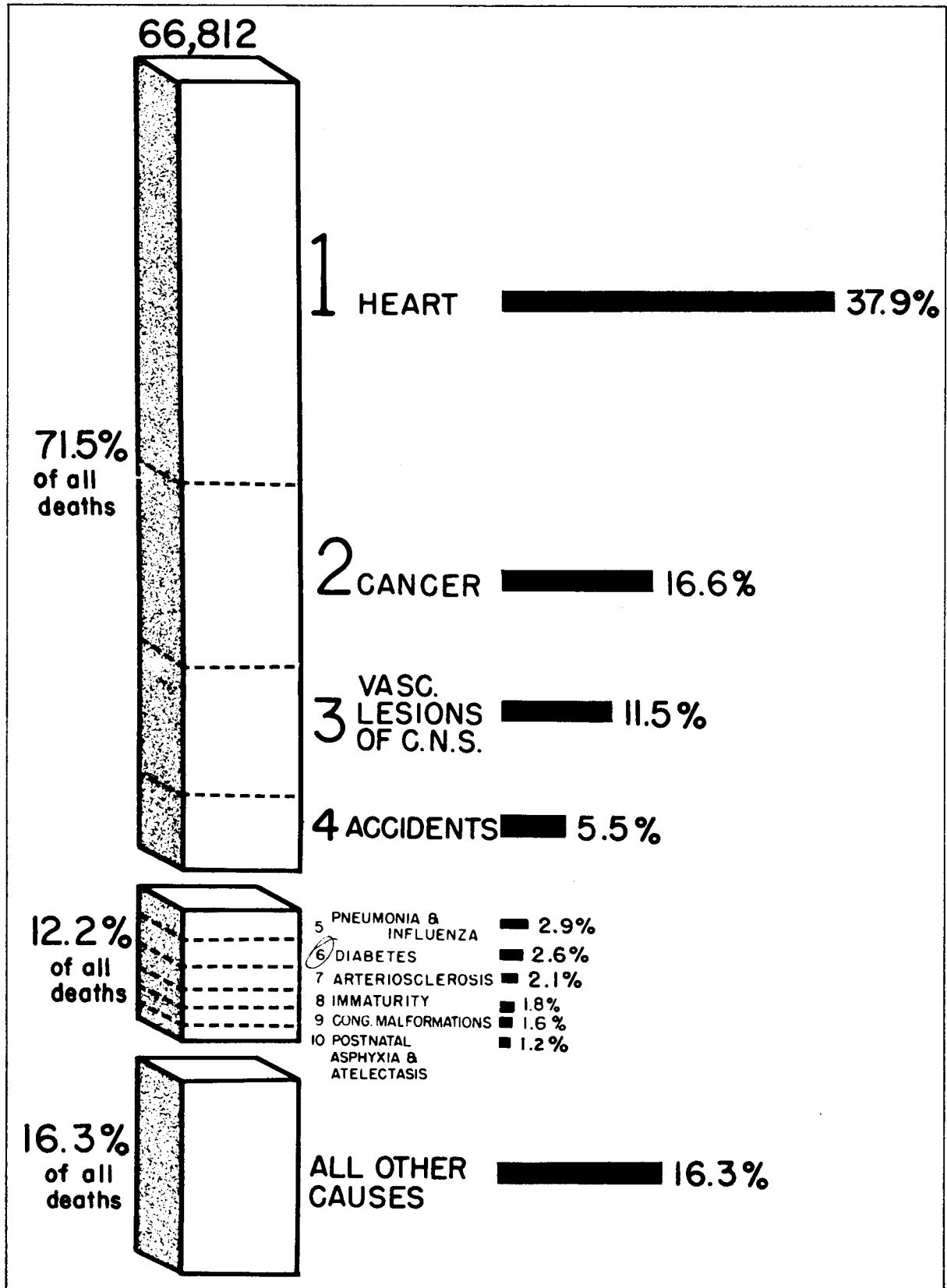


**CASE RATE LINE:** The major fluctuations in the earlier years probably represent the increased number of new cases found as a result of victims of pulmonary epidemics coming under medical care. Later fluctuations are undoubtedly due to variations in the intensity of case finding efforts and case reporting. In the mid-1940's the use of the miniature photofluorograph became widespread in mass screening. This accelerated program, together with general improvement in tuberculosis control and treatment methods, probably strongly stimulated the downward trend observed subsequent to 1945.

**DEATH RATE LINE:** The fluctuations in the earlier years of the death rate line are less marked than in the case rate line. The slight increase in the 1918 death rate probably represents the effect of the World War I influenza epidemic which added severe complications to the existent cases of tuberculosis. The later fairly constant downward trend reflects the effect of generally improved environmental conditions plus the tuberculosis treatment and control programs in operation. We can probably accept streptomycin and isoniazid as responsible for the fairly precipitous drops occurring after each was discovered and added to the treatment armamentarium.

# LEADING CAUSES OF DEATH

MICHIGAN, 1959



# TEN LEADING CAUSES OF DEATH

## DISTRIBUTION BY AGE GROUPS—MICHIGAN, 1959

CAUSE	TOTAL	PERCENT			NUMBER			PERCENT		
		Under 15 Yrs	15-44	45-64	65 & Over*	Under 15 Yrs	15-44	45-64	65 & Over*	
All Causes	66,812	6,232	5,099	17,050	38,431	100	9.3	7.7	25.5	57.5
Diseases of heart	25,323	17	882	6,922	17,502	37.9	0.1	3.5	27.3	69.1
Cancer	11,113	202	876	4,187	5,848	16.6	1.8	7.9	37.7	52.6
Vascular lesions of c.n.s.	7,700	21	242	1,305	6,132	11.5	0.3	3.1	17.0	79.6
Accidents	3,666	656	1,221	736	1,053	5.5	17.9	33.3	20.1	28.7
Pneumonia and influenza**	1,921	533	129	303	956	2.9	27.7	6.7	15.8	49.8
Diabetes mellitus	1,715	12	96	465	1,142	2.6	0.7	5.6	27.1	66.6
Arteriosclerosis	1,403	-	1	95	1,307	2.1	0	0.1	6.8	93.1
Immaturity	1,201	1,201	-	-	-	1.8	100	0	0	0
Congenital malformations	1,053	904	90	42	17	1.6	85.9	8.5	4.0	1.6
Postnatal asphyxia and atelectasis	830	830	-	-	-	1.2	100	0	0	0
All other causes	10,887	1,856	1,562	2,995	4,474	16.3	17.0	14.4	27.5	41.1

\* Including 3 of unknown age.

\*\* Excluding pneumonia of newborn.

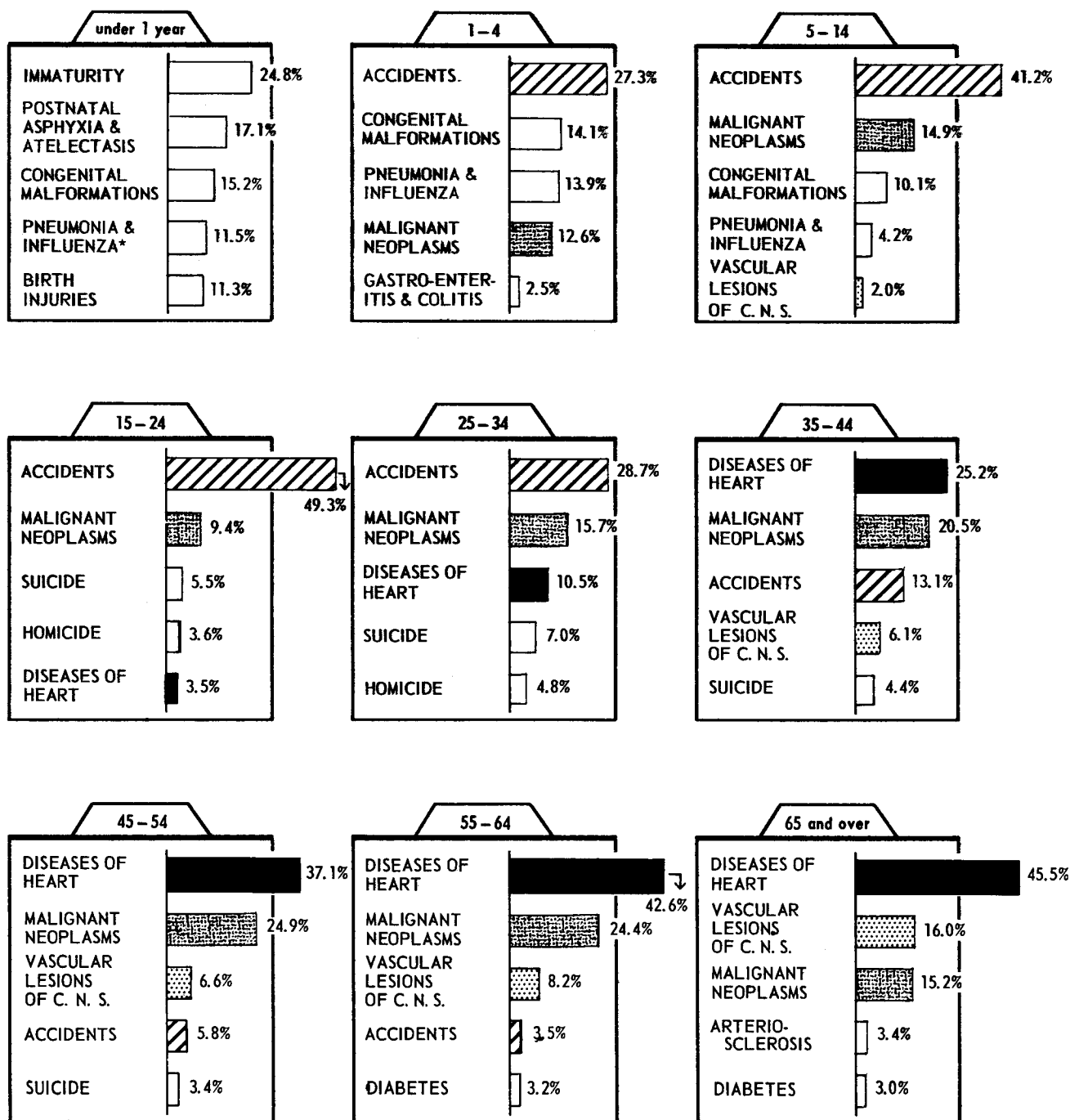
The four leading causes of death accounted for 71% of all deaths. The first three of these, heart, cancer and vascular lesions occurred largely among the older age groups, with only 4%, 10%, and 3%, respectively, under 45 years.

However, in the fourth leading cause, accidental deaths, 51% were under 45 years of age. With the exception of deaths due to immaturity, congenital malformations, and postnatal asphyxia and atelectasis, which occur largely in infancy, accidental deaths is the only one of the ten leading causes with approximately half (51%) of the deaths under 45 years of age. The fifth cause, pneumonia and influenza, follows in line in this respect with 34% of the deaths under 45 years of age.

It is interesting to note that diabetes, the sixth leading cause of death, and heart disease, the first leading cause, follow a similar percentage distribution of age at death.



# LEADING CAUSES OF DEATH BY AGE GROUPS---MICHIGAN, 1959



\*Includes pneumonia of newborn.

Diseases of the heart lead as a cause of death among all age groups 35 years and over and constitute an increasingly larger percentage of the total deaths in each successively older age group.

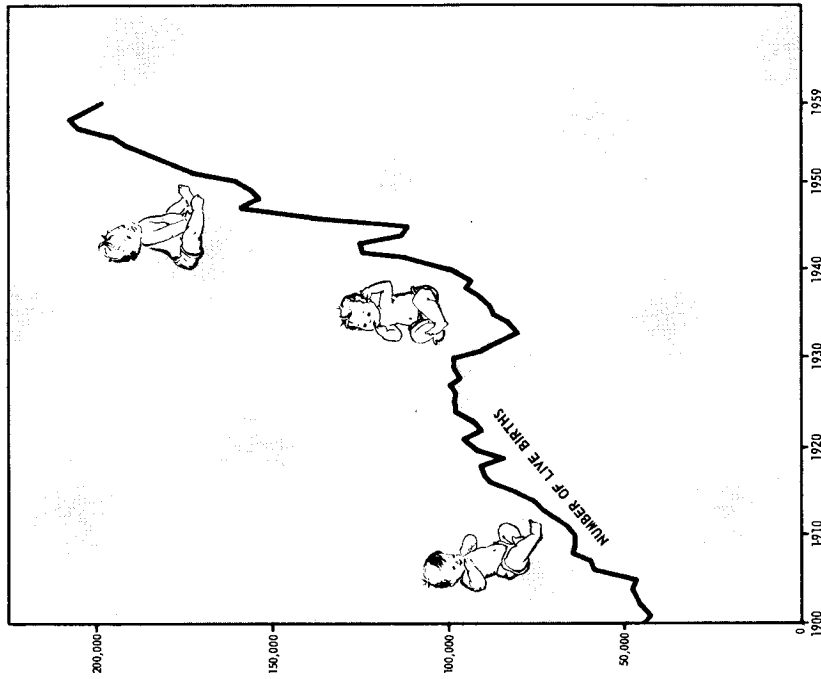
Accidents lead as a cause of death in all age groups under 35 years with the exception of infants under 1 year, and appear among the 5 leading causes in all age groups except the under 1 year and the 65 & over groups.

Malignant neoplasms first appear in the age group 1-4 years as the 4th ranking cause of death. It is the 2nd leading cause in the 5-14 years age group and maintains this position in all successive age groups until shifting to 3rd position in the 65 & over group.

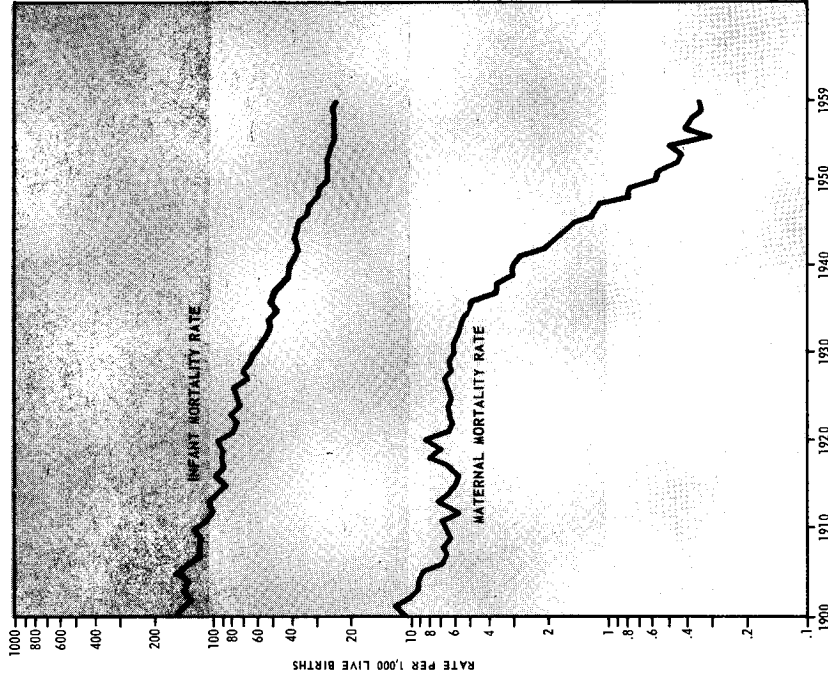
Suicide is one of the 5 leading causes of death in each of the 4 successive age groups from age 15 through 54 years.

# LIVE BIRTHS, INFANT & MATERNAL MORTALITY RATES MICHIGAN, 1900 - 1959

NUMBER OF LIVE BIRTHS



INFANT & MATERNAL MORTALITY RATES



The number of live births has followed an increasingly upward trend since 1900 except for the depression years of the 1930's and the World War II years of the mid 1940's. However, after 9 consecutive years of considerable increase, there has been a slight decrease in the number of births in 1958 and again in 1959.

Along with the remarkable upward trend in the number of live births, the trends of both maternal and infant death rates have declined. However, the two patterns of decline have not been the same as indicated in the following table.

PERCENTAGE DECREASE IN MORTALITY RATES

Time Interval	Infant	Maternal
1900 - 1959	84.5	96.5
1900 - 1934	66.8	48.2
1935 - 1959	48.8	92.8

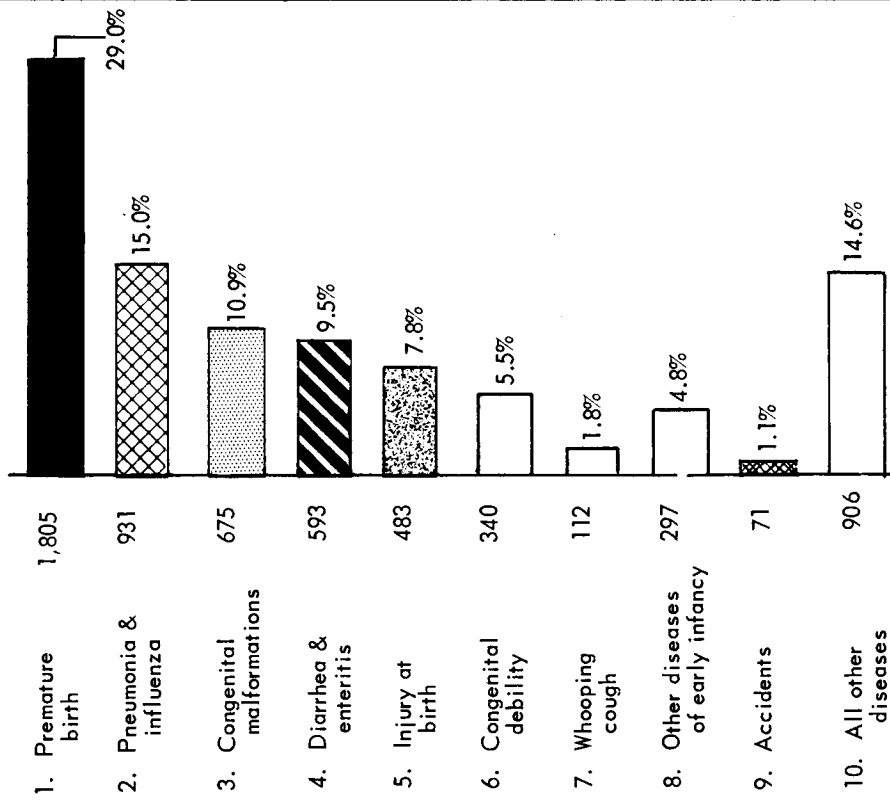
From 1900-1934 the mortality rates decreased more for infants than for mothers.

Since 1935 the pattern has reversed; the mortality rate decreased almost twice as fast for mothers as for infants.

# INFANT DEATHS : LEADING CAUSES

MICHIGAN, 1930 & 1959

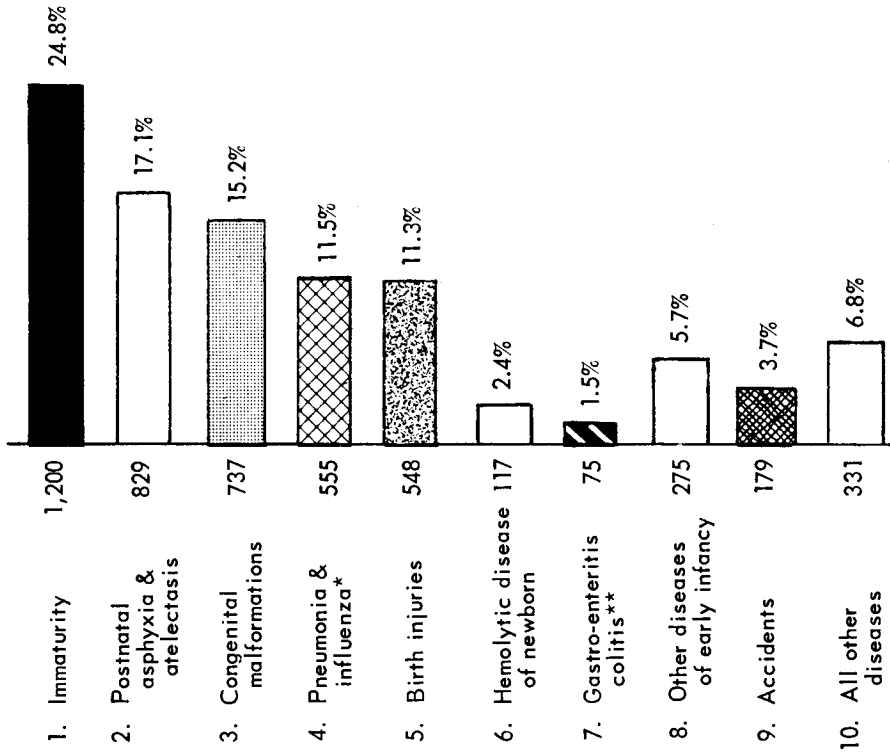
## 1930



Total Infant Deaths 6,213 (100%)

Infant deaths include deaths under 1 year of age.  
Colored bars indicate causes of death common to both years.

## 1959

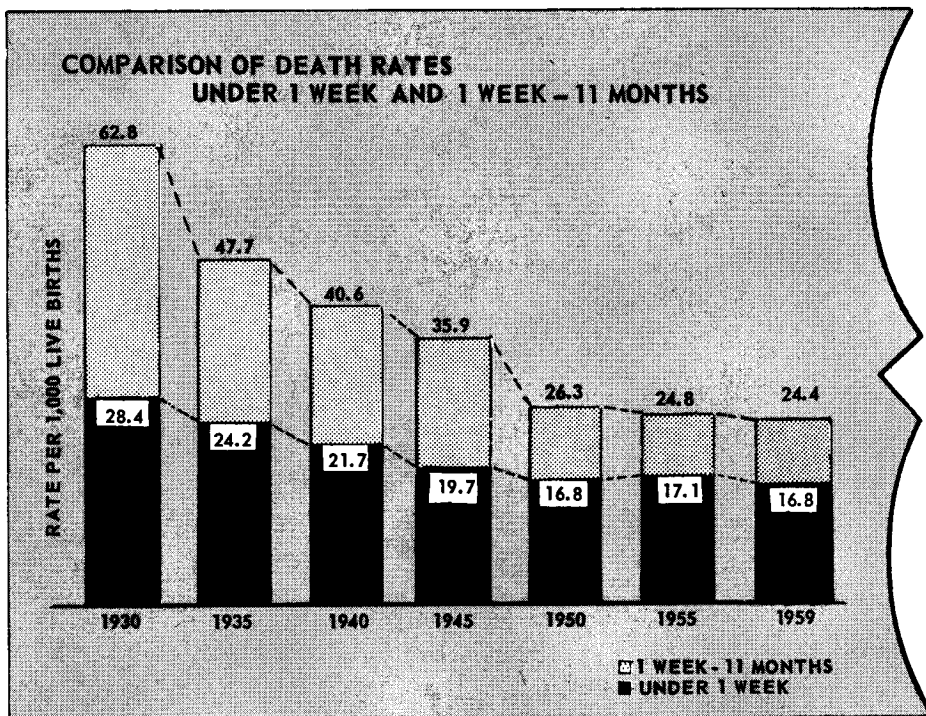


Total Infant Deaths 4,846 (100%)

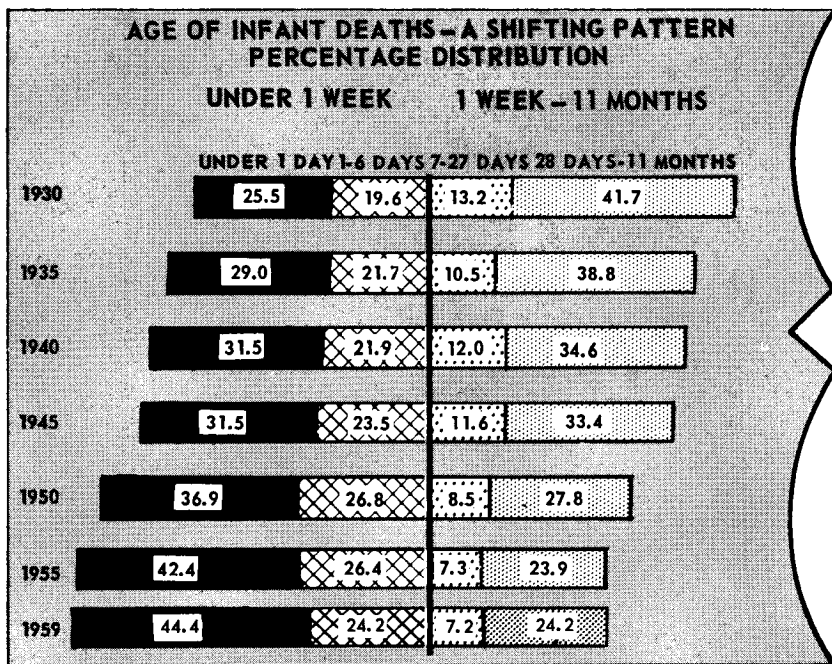
\*Includes 147 pneumonia of newborn  
\*\*Includes 9 diarrhea of newborn

# INFANT MORTALITY TRENDS

## Michigan, 1930 - 1959



'30 - '59 DECREASES  
 78% IN 1 WEEK - 11 MONTHS  
 41% IN UNDER 1 WEEK



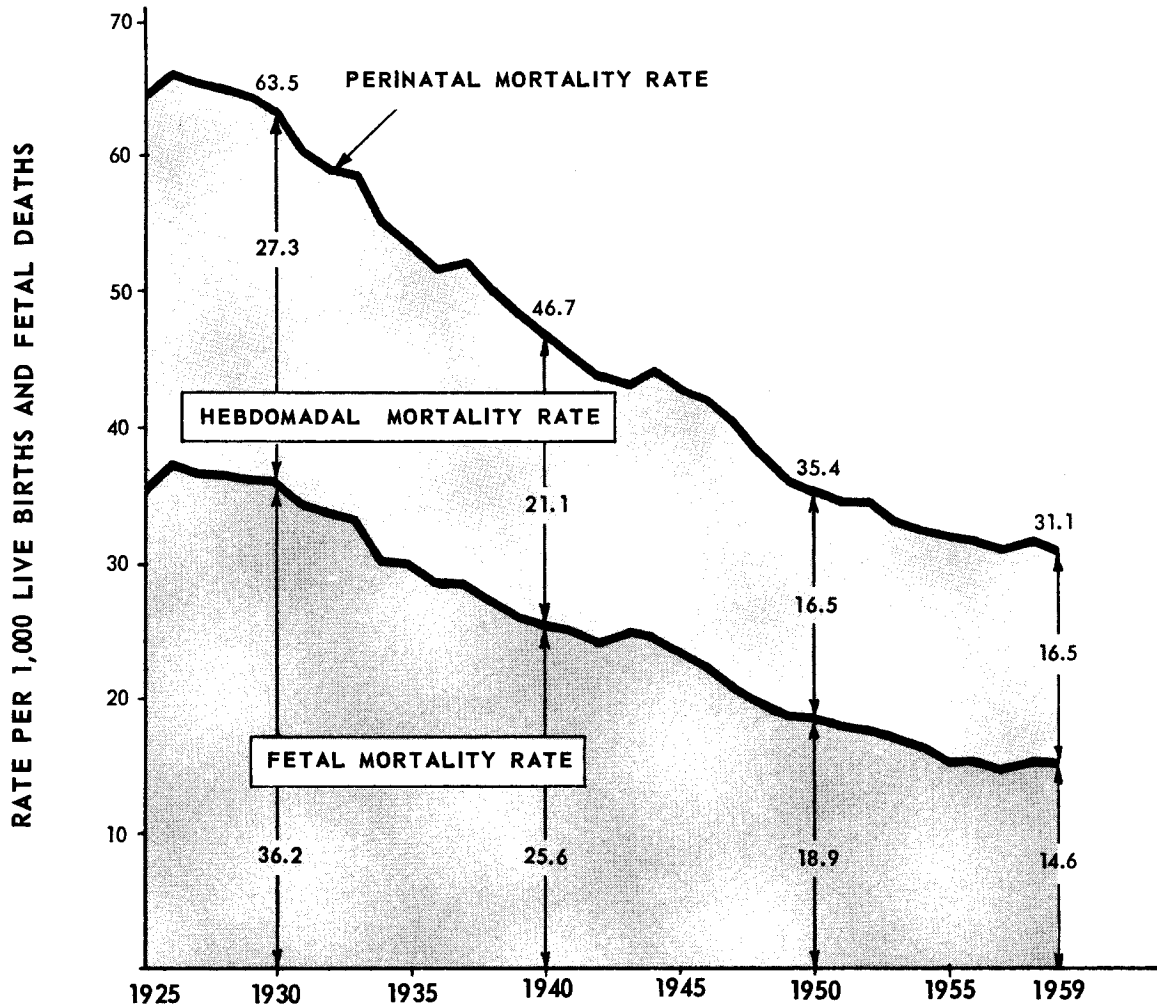
INFANT DEATHS  
 MORE AND MORE CONCENTRATED  
 IN THE FIRST WEEK OF LIFE

	Under 1 week	1 week - 11 months
1930	45%	55%
1959	69%	31%

NOW A 2 TO 1 RATIO  
 (2 deaths under 1 week to every 1 death 1 week - 11 months)

# PERINATAL MORTALITY TRENDS

## AND RELATIONSHIP OF COMPONENT PARTS MICHIGAN, 1925-1959



Since 1925: 52% decrease in perinatal mortality rate  
 43% decrease in hebdomadal mortality rate  
 59% decrease in fetal mortality rate

During the past 34 years, the relationship of the component parts of the perinatal mortality has reversed. In 1925 the fetal-hebdomadal death ratio was 55 to 45 while in 1959 it was 47 to 53.

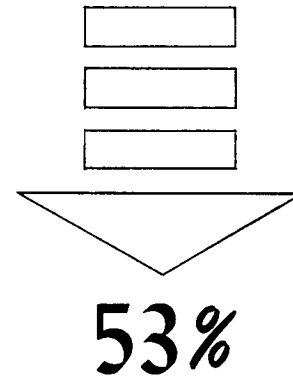
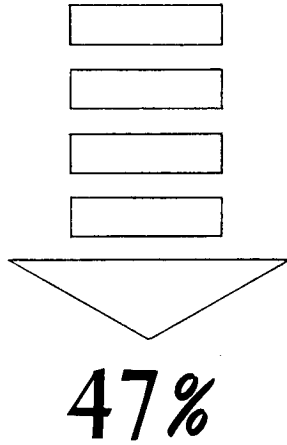
Proportion Contributed By:	PERINATAL COMPONENTS	YEAR							
		1925	1930	1935	1940	1945	1950	1955	1959
	FETAL DEATHS	.550	.571	.562	.548	.551	.521	.475	.468
	HEBDOMADAL DEATHS	.450	.429	.438	.452	.449	.479	.525	.532

NOTE: Perinatal deaths include all reported fetal deaths and infant deaths under 1 week of age.  
 Hebdomadal deaths include all deaths under 1 week of age.

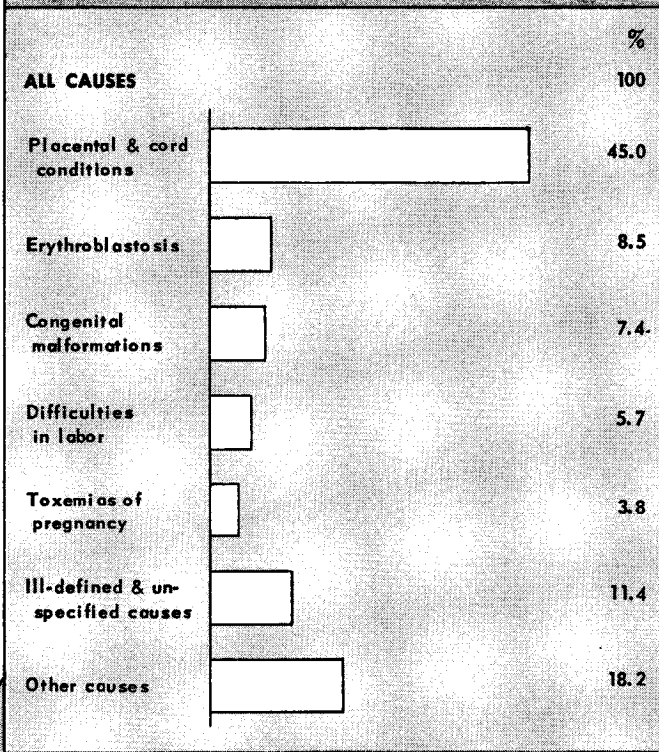
# PERINATAL MORTALITY

## LEADING CAUSES MICHIGAN 1959

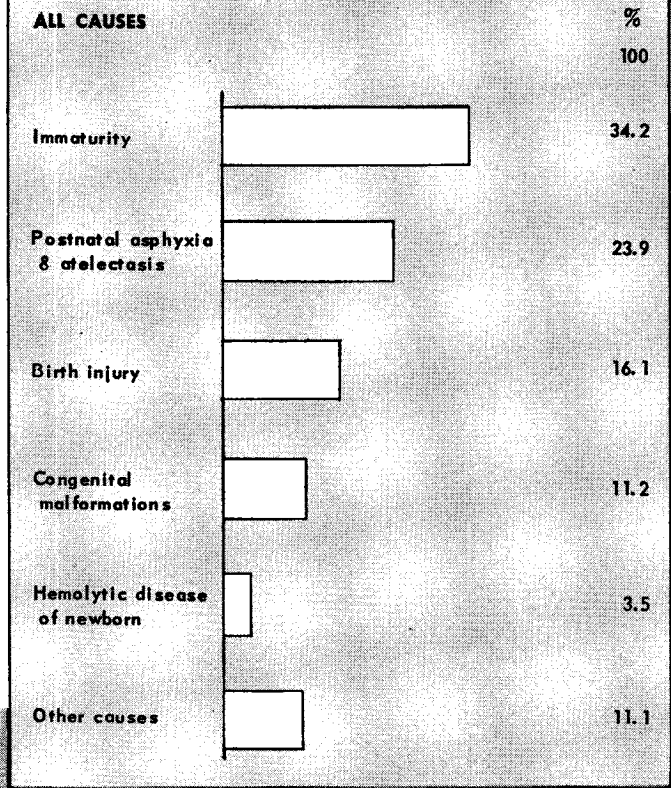
6,250 PERINATAL DEATHS



### FETAL DEATHS - 2,928



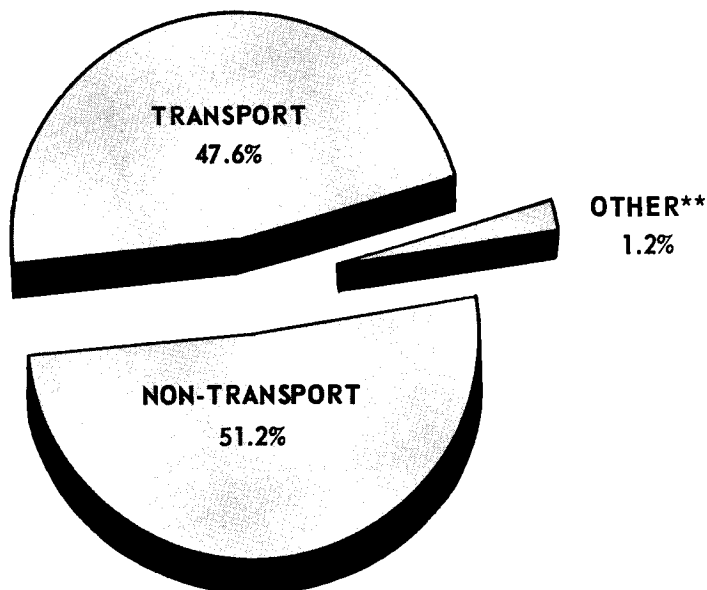
### HEBDOMADAL DEATHS - 3,322



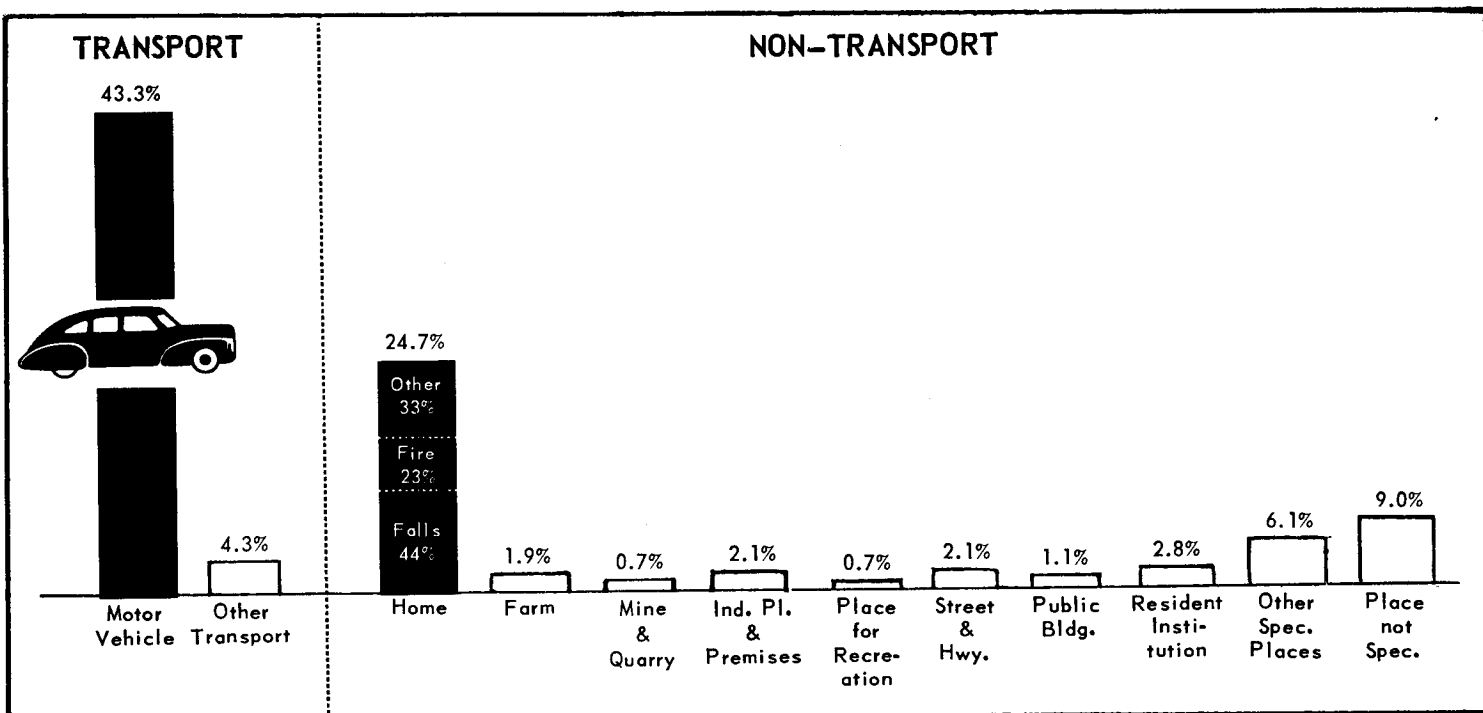
Note: Hebdomadal deaths are deaths under 1 week of age.

# 3,666 ACCIDENTAL DEATHS; 4th LEADING CAUSE OF DEATH MICHIGAN\*, 1959

(PERCENTAGE DISTRIBUTION)



## WHERE DID THEY OCCUR ?



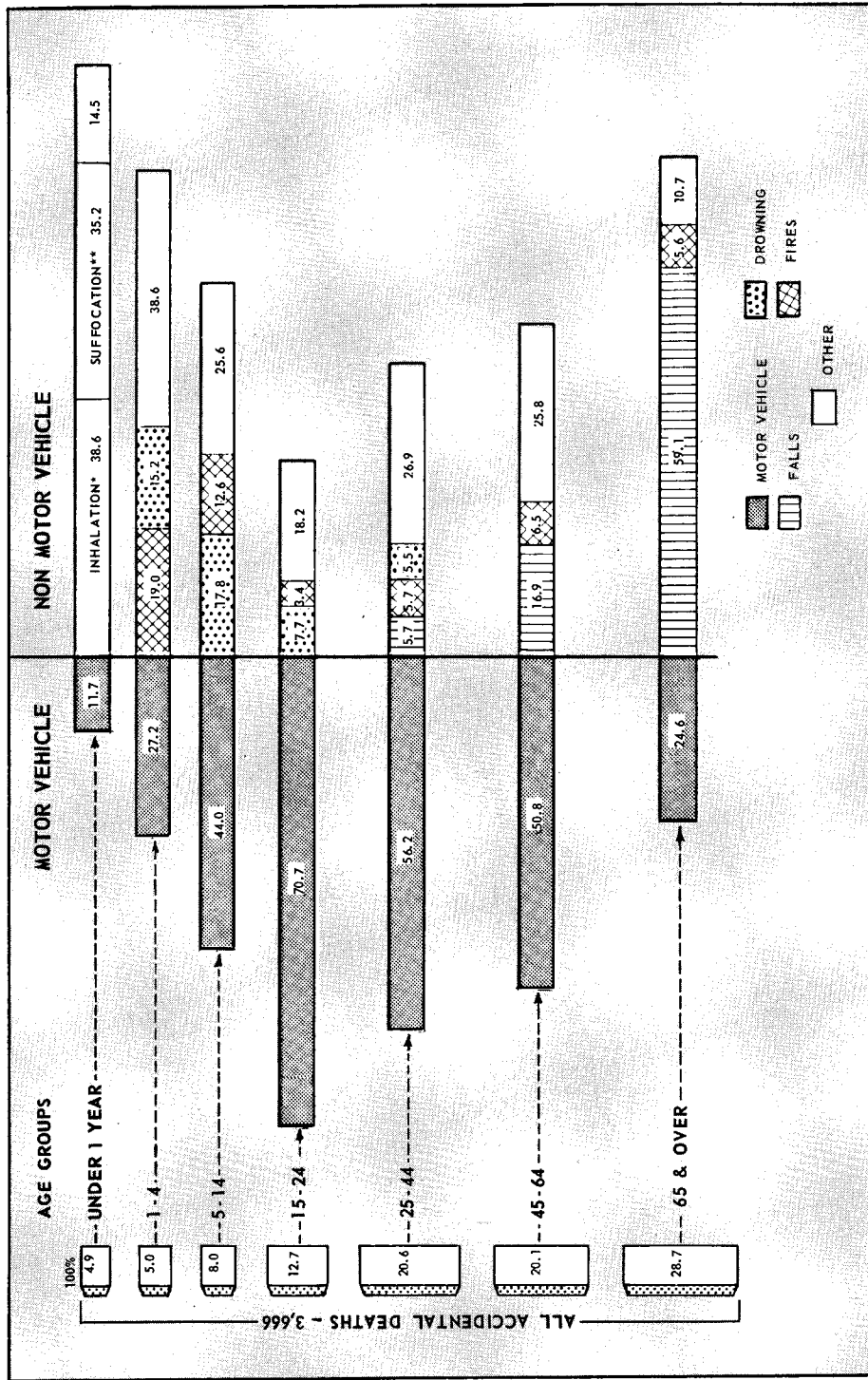
\*By place of residence

\*\*Includes therapeutic misadventures and late complications, complications of non-therapeutic procedures, late effects of injury and poisoning.

# ACCIDENTAL DEATHS BY AGE AND LEADING CAUSES

## PERCENTAGE DISTRIBUTION MICHIGAN, 1959

COMPARISON OF MOTOR VEHICLE AND NON MOTOR VEHICLE WITHIN SPECIFIED AGE GROUPS



The proportion of motor vehicle accidental deaths increases with each advancing age group reaching a peak of 71% in the 15-24 year group; the proportion then decreases with each successively older age group.

Motor vehicle accidental deaths are the leading cause of death in all but the 2 extreme age groups--"Under 1 Year" and "65 & Over." In the "Under 1 Year" group, inhalation and suffocation are leading causes. In the "65 & Over" group, falls are the leading cause accounting for 59% of all accidental deaths in this age group.

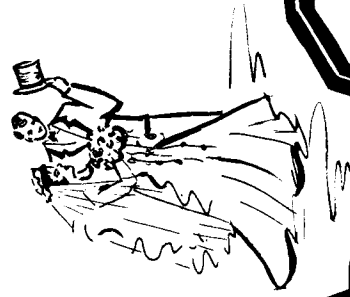
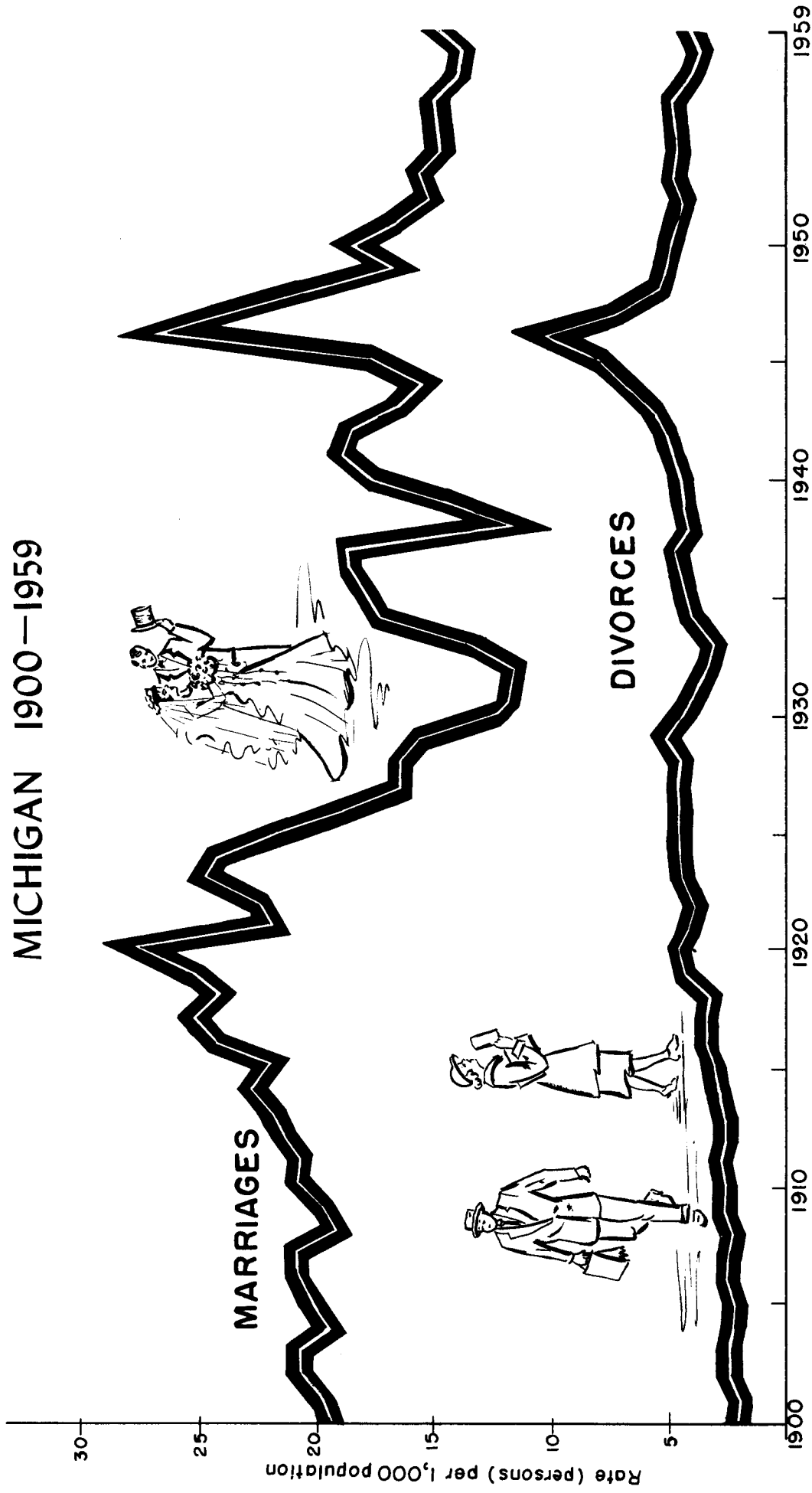
\*Inhalation or ingestion of food or other objects causing obstruction or suffocation.

\*\*Mechanical suffocation.



# MARRIAGES AND DIVORCES

## MICHIGAN 1900-1959



The two peak years for marriages were 1920 and 1946, with rates of 27.7 and 27.6, respectively, both of which reflect postwar demobilization. The marked decreases during the 1930's were undoubtedly due to the depression years. The peak year for divorces was 1946 with a rate of 10.2. This likewise reflects postwar demobilization. Since 1950 in spite of minor annual fluctuations the trend in both marriage and divorce rates has been slightly downward.

Note: All rates refer to persons married or divorced.

Statistical Methods Section  
Michigan Department of Health

# TABLES

TABLE 1A - POPULATION; LIVE BIRTHS - TOTAL AND ILLEGITIMATE; DEATHS - ALL AGES, INFANT, NEONATAL, PERINATAL, FETAL, MATERNAL, AND DEATHS DUE TO IMMATURITY; MARRIAGES; AND DIVORCES  
MICHIGAN, 1900 - 1959

(Deaths exclusive of fetal deaths. Perinatal deaths include deaths under 1 week and fetal deaths. Divorces include annulments.)

N U M B E R

Year	Population	LIVE BIRTHS		D E A T H S						Marriages	Divorces		
		Total	Illegit- imate	All Ages	Under 1 Yr	Under 28 Days	Peri- natal	Due to Immaturity	Fetal			Maternal	
1900	2,420,982	43,699	332	32,453	6,866				620	1,325	452	23,295	2,435
1901	2,459,901	43,221	365	32,834	6,319				524	1,501	531	24,079	2,448
1902	2,498,820	45,546	383	31,472	5,949				608	1,793	468	25,653	2,828
1903	2,537,739	46,020	490	33,176	6,488				542	1,814	427	26,029	2,945
1904	2,576,658	47,508	562	34,494	6,419				632	1,911	436	24,918	2,808
1905	2,615,578	46,976	444	34,679	7,054				751	2,044	416	26,307	2,825
1906	2,654,497	58,599	1,090	37,033	7,952				830	2,358	400	27,519	3,192
1907	2,693,416	59,029	1,041	36,701	6,906				855	2,358	391	27,940	3,107
1908	2,732,335	64,772	888	36,761	7,697				975	2,694	440	25,765	3,020
1909	2,771,254	64,323	1,068	36,313	7,443				1,152	2,540	405	27,353	3,516
1910	2,810,173	64,109	1,054	39,913	7,998				2,050	2,559	431	29,039	3,716
1911	2,895,997	65,756	1,083	38,007	7,131				2,223	2,716	451	29,859	4,125
1912	2,981,821	69,537	1,222	38,804	6,985				2,340	2,906	396	31,694	3,838
1913	3,067,645	73,058	1,227	40,827	7,659				2,480	2,953	528	33,529	3,978
1914	3,153,469	76,761	1,192	39,906	7,431				2,391	3,113	507	35,316	4,395
1915	3,239,293	81,100	1,363	40,441	6,943				2,207	3,357	488	35,527	4,757
1916	3,325,116	87,062	1,351	46,047	8,415				2,498	3,689	503	40,143	5,540
1917	3,410,940	89,419	1,101	47,236	7,916				2,369	3,550	586	42,791	5,627
1918	3,496,764	91,261	1,142	54,617	8,197				2,362	3,686	709	33,260	5,493
1919	3,582,588	84,062	1,002	45,636	7,560				2,183	3,361	578	45,579	7,469
1920	3,668,412	92,245	1,445	51,982	8,587				2,512	3,770	795	50,805	8,679
1921	3,785,799	96,035	1,346	44,186	7,584				2,481	3,669	605	41,508	7,676
1922	3,903,186	90,042	1,180	43,817	6,730				1,793	3,779	551	43,561	7,591
1923	4,020,573	92,956	1,210	49,333	7,477				1,911	3,657	583	49,569	8,745
1924	4,137,960	98,187	1,443	47,304	7,088	4,119	6,791		1,970	3,703	636	49,788	9,400
1925	4,255,347	98,983	1,258	49,417	7,498	4,022	6,667		1,987	3,670	629	46,276	9,650
1926	4,372,734	98,289	1,669	54,080	7,620	4,054	6,773		1,986	3,816	631	39,788	9,795
1927	4,490,121	99,940	1,872	50,600	6,766	3,915	6,794		1,911	3,834	667	36,276	10,617
1928	4,607,508	97,462	1,853	54,755	6,806	3,739	6,594		1,846	3,701	603	37,300	10,615
1929	4,724,895	98,695	1,632	56,117	6,605	3,777	6,613		1,853	3,710	617	36,816	12,094
1930	4,842,325	98,882	1,600	51,561	6,213	3,624	6,518		1,805	3,714	597	29,482	10,639
1931	4,883,703	90,547	1,633	49,068	5,187	3,084	5,643		1,473	3,220	539	28,856	9,507
1932	4,925,081	85,254	1,697	49,569	4,630	2,798	5,210		1,372	2,980	493	28,552	7,889
1933	4,966,459	80,482	2,041	48,507	4,094	2,591	4,906		1,364	2,776	447	33,132	7,671
1934	5,007,837	83,944	2,124	50,440	4,377	2,717	4,781		1,419	2,607	450	43,241	10,124
1935	5,049,216	87,403	2,194	51,051	4,170	2,550	4,832		1,389	2,717	438	45,313	10,844
1936	5,090,594	88,457	2,157	54,777	4,479	2,647	4,726		1,395	2,625	425	47,023	11,419
1937	5,131,972	91,566	2,234	53,468	4,374	2,700	4,919		1,415	2,707	326	47,954	12,472
1938	5,173,350	96,962	2,331	50,678	4,319	2,734	4,984		1,484	2,732	345	30,105	10,646
1939	5,214,728	94,432	2,217	52,017	3,952	2,594	4,706		1,396	2,572	280	37,725	11,589
1940	5,256,106	99,106	2,280	52,092	4,022	2,629	4,749		1,298	2,602	292	46,342	12,054
1941	5,437,546	107,498	2,370	52,671	4,166	2,687	4,991		1,353	2,769	298	50,989	13,317
1942	5,538,857	124,068	2,532	52,738	4,606	3,091	5,581		1,575	3,067	260	51,582	14,085
1943	5,377,329	125,441	2,569	56,774	4,804	2,979	5,563		1,488	3,213	237	44,385	15,259
1944	5,377,329	113,586	3,115	54,016	4,326	2,784	5,140		1,412	2,874	198	41,678	18,356
1945	5,435,092	111,557	3,485	53,641	4,008	2,670	4,906		1,339	2,703	166	48,329	21,133
1946	5,708,415	138,572	3,908	54,856	4,541	3,323	5,978		1,735	3,168	163	78,808	29,158
1947	6,069,000	160,275	4,311	56,807	5,055	3,677	6,583		1,953	3,422	173	71,319	21,386
1948	6,195,000	153,726	4,310	56,520	4,617	3,352	5,968		1,820	3,132	120	61,986	16,017
1949	6,352,000	156,469	3,953	57,107	4,520	3,232	5,746		1,795	2,994	105	53,109	16,274
1950	6,371,766	160,055	4,425	57,567	4,214	3,043	5,781		1,096	3,095	91	58,180	15,979
1951	6,545,000	172,451	4,367	59,181	4,505	3,296	6,088		1,232	3,158	94	53,411	15,446
1952	6,708,000	177,835	4,513	59,138	4,689	3,414	6,266		1,256	3,224	82	50,487	14,925
1953	6,852,000	182,968	4,770	62,087	4,728	3,389	6,188		1,114	3,180	79	53,308	16,537
1954	7,024,000	192,104	5,610	60,706	4,795	3,560	6,415		1,298	3,249	94	51,243	16,281
1955	7,236,000	196,294	5,883	63,087	4,873	3,707	6,381		1,272	3,029	61	55,698	17,676
1956	7,516,000	206,068	6,494	64,352	5,047	3,796	6,655		1,244	3,245	84	57,068	16,228
1957	7,803,000	208,488	6,789	66,435	5,093	3,884	6,668		1,322	3,154	79	55,121	15,442
1958	7,866,000	202,690	6,816	65,899	4,980	3,789	6,516		1,208	3,101	69	55,159	14,040
1959	7,960,000	198,301	6,729	66,812	4,846	3,674	6,250		1,201	2,928	72	58,826	16,168

Note: For the years 1900 - 1910 and 1912, illegitimate live births also include illegitimate fetal deaths. For years prior to 1950 deaths under 1 month of age are included in deaths under 28 days. From 1910 through 1921 deaths due to immaturity also include deaths from congenital debility.

TABLE 1B - LIVE BIRTH RATES - TOTAL AND ILLEGITIMATE: DEATH RATES - ALL AGES, INFANT, NEONATAL, PERINATAL, FETAL, MATERNAL AND DEATH RATES DUE TO IMMATUREITY: MARRIAGE AND DIVORCE RATES  
MICHIGAN, 1900 - 1959

(Birth rate, death rate for all ages, rate of persons married and rate of persons divorced per 1,000 population. Illegitimate live birth ratio, fetal death ratio, death rates under 1 year, under 28 days, and death rates due to immaturity per 1,000 live births. Maternal death rates per 10,000 live births. Perinatal death rate - number of deaths under 1 week and fetal deaths per 1,000 live births and fetal deaths.)

Year	RATE										
	LIVE BIRTHS		DEATHS							PERSONS	
	Total	Illegitimate	All Ages	Under 1 Yr	Under 28 Days	Perinatal	Due to Immaturity	Fetal	Maternal	Married	Divorced
1900	18.1	7.6	13.4	157.1			14.2	30.3	103.4	19.2	2.0
1901	17.6	8.4	13.3	146.2			12.1	34.7	122.9	19.6	2.0
1902	18.2	8.4	12.6	130.6			13.3	39.4	102.8	20.5	2.3
1903	18.1	10.6	13.1	141.0			11.8	39.4	92.8	20.5	2.3
1904	18.4	11.8	13.4	135.1			13.3	40.2	91.8	19.3	2.2
1905	18.0	9.5	13.3	150.2			16.0	43.5	88.6	20.1	2.2
1906	22.1	18.6	14.0	135.7			14.2	40.2	68.3	20.7	2.4
1907	21.9	17.6	13.6	117.0			14.5	39.9	66.2	20.7	2.3
1908	23.7	13.7	13.5	118.8			15.1	41.6	67.9	18.9	2.2
1909	23.2	16.6	13.1	115.7			17.9	39.5	63.0	19.7	2.5
1910	22.8	16.4	14.2	124.8			32.0	39.9	67.2	20.7	2.6
1911	22.7	16.5	13.1	108.4			33.8	41.3	68.6	20.6	2.8
1912	23.3	17.6	13.0	100.4			33.6	41.8	56.9	21.3	2.6
1913	23.8	16.8	13.3	104.8			33.9	40.4	72.3	21.9	2.6
1914	24.3	15.5	12.7	96.8			31.1	40.6	66.0	22.4	2.8
1915	25.0	16.8	12.5	85.6			27.2	41.4	60.2	21.9	2.9
1916	26.2	15.5	13.8	96.7			28.7	42.4	57.8	24.1	3.3
1917	26.2	12.3	13.8	88.5			26.5	39.7	65.5	25.1	3.3
1918	26.1	12.5	15.6	89.8			25.9	40.4	77.7	19.0	3.1
1919	23.5	11.9	12.7	89.9			26.0	40.0	68.8	25.4	4.2
1920	25.1	15.7	14.2	93.1			27.2	40.9	86.2	27.7	4.7
1921	25.4	14.0	11.7	79.0			25.8	38.2	63.0	21.9	4.1
1922	23.1	13.1	11.2	74.7			19.9	42.0	61.2	22.3	3.9
1923	23.1	13.0	12.3	80.4			20.6	39.3	62.7	24.7	4.4
1924	23.7	14.7	11.4	72.2	41.9	66.7	20.1	37.7	64.8	24.1	4.5
1925	23.3	12.7	11.6	75.7	40.6	64.9	20.1	37.1	63.5	21.7	4.5
1926	22.5	17.0	12.4	77.5	41.2	66.3	20.2	38.8	64.2	18.7	4.5
1927	22.3	18.7	11.3	67.7	39.2	65.5	19.1	38.4	66.7	16.2	4.7
1928	21.2	19.0	11.9	69.8	38.4	65.2	18.9	38.0	61.9	16.2	4.6
1929	20.9	16.5	11.9	66.9	38.3	64.6	18.8	37.6	62.5	15.6	5.1
1930	20.4	16.2	10.6	62.8	36.6	63.5	18.3	37.6	60.4	12.2	4.4
1931	18.5	18.0	10.1	57.3	34.1	60.2	16.3	35.6	59.5	11.8	3.9
1932	17.3	19.9	10.1	54.3	32.8	59.0	16.1	35.0	57.8	11.6	3.2
1933	16.2	25.4	9.8	50.9	32.2	58.9	16.9	34.5	55.5	13.3	3.1
1934	16.8	25.3	10.1	52.1	32.4	55.2	16.9	31.1	53.6	17.3	4.0
1935	17.3	25.1	10.1	47.7	29.2	53.6	15.9	31.1	50.1	17.9	4.3
1936	17.4	24.4	10.8	50.6	29.9	51.9	15.8	29.7	48.0	18.5	4.5
1937	17.8	24.4	10.4	47.8	29.5	52.2	15.5	29.6	35.6	18.7	4.9
1938	18.7	24.0	9.8	44.5	28.2	50.0	15.3	28.2	35.6	11.6	4.1
1939	18.1	23.5	10.0	41.8	27.5	48.5	14.8	27.2	29.6	14.5	4.4
1940	18.9	23.0	9.9	40.6	26.5	46.7	13.1	26.3	29.5	17.6	4.6
1941	19.8	22.0	9.7	38.8	25.0	45.3	12.6	25.8	27.7	18.8	4.9
1942	22.4	20.4	9.5	37.1	24.9	43.9	12.7	24.7	21.0	18.6	5.1
1943	23.3	20.5	10.6	38.3	23.7	43.2	11.9	25.6	18.9	16.5	5.7
1944	21.1	27.4	10.0	38.1	24.5	44.1	12.4	25.3	17.4	15.5	6.8
1945	20.5	31.2	9.9	35.9	23.9	42.9	12.0	24.2	14.9	17.8	7.8
1946	24.3	28.2	9.6	32.8	24.0	42.2	12.5	22.9	11.8	27.6	10.2
1947	26.4	26.9	9.4	31.5	22.9	40.2	12.2	21.4	10.8	23.5	7.1
1948	24.8	28.0	9.1	30.0	21.8	38.0	11.8	20.4	7.8	20.0	5.2
1949	24.6	25.3	9.0	28.9	20.7	36.0	11.5	19.1	6.7	16.7	5.1
1950	25.1	27.6	9.0	26.3	19.0	35.4	6.8	19.3	5.7	18.3	5.0
1951	26.3	25.3	9.0	26.1	19.1	34.7	7.1	18.3	5.5	16.3	4.7
1952	26.5	25.4	8.8	26.4	19.2	34.6	7.1	18.1	4.6	15.1	4.4
1953	26.7	26.1	9.1	25.8	18.5	33.2	6.1	17.4	4.3	15.6	4.8
1954	27.3	29.2	8.6	25.0	18.5	32.8	6.8	16.9	4.9	14.6	4.6
1955	27.1	30.0	8.7	24.8	18.9	32.0	6.5	15.4	3.1	15.4	4.9
1956	27.4	31.5	8.6	24.5	18.4	31.8	6.0	15.7	4.1	15.2	4.3
1957	26.7	32.6	8.5	24.4	18.6	31.5	6.3	15.1	3.8	14.1	4.0
1958	25.8	33.6	8.4	24.6	18.7	31.7	6.0	15.3	3.4	14.0	3.6
1959	24.9	33.9	8.4	24.4	18.5	31.1	6.1	14.8	3.6	14.8	4.1

Note: For the years 1900 - 1910 and 1912, illegitimate live births also include illegitimate fetal deaths. For years prior to 1950 deaths under 1 month of age are included in deaths under 28 days. From 1910 through 1921 deaths due to immaturity also include deaths from congenital debility.

TABLE 2A - REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES  
MICHIGAN, 1900 - 1959

Year	Diphtheria	Scarlet fever	Smallpox	Typhoid fever	Whooping cough	Measles	Infectious hepatitis	Tuberculosis (all forms)	Meningococcal infections	Poliomyelitis	Syphilis	Gonorrhea	Chancroid
1900	2,706	6,734	694	5,122	3,375	20,356		2,721	654				
1901	2,498	7,726	5,088	3,002	2,955	4,629		2,915	506				
1902	2,993	6,582	7,086	2,456	3,534	11,978		2,658	528				
1903	3,670	5,353	6,341	2,840	4,172	8,941		2,745	525				
1904	3,510	4,088	5,753	3,028	1,779	10,386		2,928	448				
1905	2,159	2,286	2,985	2,774	1,196	6,061		2,590	577				
1906	3,648	3,066	1,240	3,163	1,364	7,403		2,653	533				
1907	2,935	2,514	1,712	1,953	872	12,139		2,699	575				
1908	2,658	3,087	2,306	2,656	1,248	4,775		2,705	487				
1909	3,109	5,153	1,533	2,694	1,054	9,047		3,423	457				
1910	3,433	6,501	3,319	3,361	1,136	13,934		4,415	522	104			
1911	3,762	5,177	898	2,660	1,897	9,639		5,254	478	68			
1912	3,294	4,533	1,127	2,847	1,255	2,834		1,958	88	78			
1913	5,505	4,140	1,995	2,253	929	9,185		1,920	165	56			
1914	5,149	3,769	1,527	2,167	1,822	11,356		2,566	205	49			
1915	4,386	3,402	1,094	1,956	2,258	4,438		3,648	107	95			
1916	5,625	6,932	1,581	2,513	1,837	12,143		7,076	163	598			
1917	8,499	14,322	3,674	1,723	3,211	14,472		4,856	75	91			
1918	6,128	5,944	5,241	1,339	2,563	6,726		3,655	95	121	5,077	7,910	186
1919	7,896	6,269	2,381	1,254	1,829	8,885		4,231	75	155			
1920	10,360	10,280	4,818	1,421	7,171	22,364		4,994	203	67	8,117	11,463	262
1921	12,075	10,893	4,512	1,837	6,696	3,043		5,708	173	483	7,421	9,774	153
1922	8,513	9,687	1,230	1,108	5,642	12,107		5,573	159	43	7,900	9,717	90
1923	7,725	12,868	2,311	982	7,617	30,041		5,471	186	39	10,480	9,597	235
1924	6,011	12,989	4,527	782	4,364	18,290		5,570	157	647	13,000	10,490	183
1925	3,925	12,303	784	962	7,576	10,332		5,785	128	99	14,668	10,660	104
1926	5,377	12,681	549	583	8,776	39,946		5,387	96	107	14,872	10,707	103
1927	4,575	11,011	1,467	581	6,818	8,303		5,406	138	282	15,713	9,318	107
1928	3,724	10,486	1,335	390	9,700	27,039		5,885	276	77	15,323	8,592	100
1929	4,618	14,245	2,410	310	9,340	18,040		6,248	1,864	180	16,606	9,661	333
1930	3,206	11,174	2,375	504	7,937	28,129		5,128	901	208	16,538	8,554	163
1931	1,831	13,023	915	424	11,448	6,212		6,132	293	1,137	14,662	7,843	170
1932	1,188	15,255	222	513	13,091	42,129		7,103	129	112	11,969	6,963	140
1933	1,152	16,419	46	453	11,720	21,654		6,624	86	93	7,691	6,447	85
1934	614	19,238	49	486	11,255	6,528		5,264	53	230	6,483	6,188	132
1935	645	11,849	16	355	13,427	79,061		4,642	113	614	6,416	6,372	110
1936	661	12,650	32	287	14,287	2,453		5,157	120	152	6,401	6,460	133
1937	842	24,798	152	241	11,426	6,154		6,469	87	421	8,708	7,072	244
1938	619	18,362	274	285	14,563	79,400		6,335	69	59	14,684	7,046	341
1939	452	15,836	371	177	8,997	12,948		6,119	46	904	13,144	6,364	286
1940	264	10,366	76	120	11,757	20,206		6,063	49	1,228	9,999	7,650	218
1941	242	8,756	114	147	16,512	70,748		5,371	49	270	11,370	8,767	359
1942	243	7,503	17	74	11,602	8,569		5,720	66	162	12,461	8,753	276
1943	281	5,044	18	115	12,091	51,764		6,546	757	255	15,933	9,526	260
1944	419	8,963	10	78	4,049	26,711		6,419	857	884	17,288	11,987	185
1945	630	9,304	16	59	5,339	6,328	134	5,471	270	215	16,046	12,565	244
1946	385	5,977	3	85	8,116	42,261	34	5,548	185	1,091	18,051	12,635	206
1947	238	4,834	1	77	10,472	9,574	14	6,470	113	646	15,276	10,989	216
1948	126	5,934	-	49	2,668	42,952	9	6,109	107	775	12,100	9,448	465
1949	119	8,852	-	48	4,157	20,279	28	5,953	120	2,909	8,740	9,427	336
1950	84	4,665	-	43	9,184	38,245	48	5,538	133	2,029	8,830	8,678	202
1951	48	8,181	-	33	3,156	15,227	325	6,144	138	1,463	6,532	8,494	187
1952	45	8,325	-	53	1,992	32,941	283	6,152	169	3,912	7,377	7,691	58
1953	12	5,885	-	31	2,932	23,334	868	5,643	151	2,346	5,619	8,790	43
1954	57	5,142	-	30	5,620	40,725	1,419	5,764	150	2,168	4,686	9,940	47
1955	59	5,880	-	24	4,249	23,882	1,244	5,488	170	1,177	4,865	10,306	58
1956	220	7,349	-	56	1,907	41,966	814	5,515	182	656	4,785	9,598	52
1957	130	7,193	-	12	1,363	19,070	657	5,011	175	498	4,571	8,428	97
1958	6	5,380	-	18	1,233	41,448	688	5,587	228	1,228	4,267	8,621	178
1959	3	9,452	-	8	3,001	12,234	1,136	4,743	141	448	3,421	8,033	136

Note: Meningococcal infections - prior to 1952 data were for meningococcal meningitis.

TABLE 2B - CASE RATES OF CERTAIN REPORTED COMMUNICABLE DISEASES  
MICHIGAN, 1900 - 1959

(Rates per 100,000 Population)

Year	Diphtheria	Scarlet fever	Smallpox	Typhoid fever	Whooping cough	Measles	Infectious hepatitis	Tuberculosis (all forms)	Meningococcal infections	Poliomyelitis	Syphilis	Gonorrhea	Chancroid
1900	111.8	278.2	28.7	211.6	139.4	840.8		112.4	27.0				
1901	101.5	314.1	206.8	122.0	120.1	188.2		118.5	20.6				
1902	119.8	263.4	283.6	98.3	141.4	479.3		106.4	21.1				
1903	144.6	210.9	249.9	111.9	164.4	352.3		108.2	20.7				
1904	136.2	158.7	223.3	117.5	69.0	403.1		113.6	17.4				
1905	82.5	87.4	114.1	106.1	45.7	231.7		99.0	22.1				
1906	137.4	115.5	46.7	119.2	51.4	278.9		99.9	20.1				
1907	109.0	93.3	63.6	72.5	32.4	450.7		100.2	21.3				
1908	97.3	113.0	84.4	97.2	45.7	174.8		99.0	17.8				
1909	112.2	185.9	55.3	97.2	38.0	326.5		123.5	16.5				
1910	122.2	231.3	118.1	119.6	40.4	495.8		157.1	18.6	3.7			
1911	129.9	178.8	31.0	91.8	65.5	332.8		181.4	16.5	2.3			
1912	110.5	152.0	37.8	95.5	42.1	95.0		65.7	3.0	2.6			
1913	179.5	135.0	65.0	73.4	30.3	299.4		62.6	5.4	1.8			
1914	163.3	119.5	48.4	68.7	57.8	360.1		81.4	6.5	1.6			
1915	135.4	105.0	33.8	60.4	69.7	137.0		112.6	3.3	2.9			
1916	169.2	208.5	47.5	75.6	55.2	365.2		212.8	4.9	18.0			
1917	249.2	419.9	107.7	50.5	94.1	424.3		142.4	2.2	2.7			
1918	175.2	170.0	149.9	38.3	73.3	192.4		104.5	2.7	3.5			
1919	220.4	175.0	66.5	35.0	51.1	248.0		118.1	2.1	4.3	141.7	220.8	5.2
1920	282.4	280.2	131.3	38.7	195.5	609.6		136.1	5.5	1.8	221.3	312.5	7.1
1921	318.9	287.7	119.2	48.5	176.9	80.4		150.8	4.6	12.8	196.0	258.2	4.0
1922	218.1	248.2	31.5	28.4	144.5	310.2		142.8	4.1	1.1	202.4	248.9	2.3
1923	192.1	320.1	57.5	24.4	189.5	747.2		136.1	4.6	1.0	260.7	238.7	5.8
1924	145.3	313.9	109.4	18.9	105.5	442.0		134.6	3.8	15.6	314.2	253.5	4.4
1925	92.2	289.1	18.4	22.6	178.0	242.8		135.9	3.0	2.3	344.7	250.5	2.4
1926	123.0	290.0	12.6	13.3	200.7	913.5		123.2	2.2	2.4	340.1	244.9	2.4
1927	101.9	245.2	32.7	12.9	151.8	184.9		120.4	3.1	6.3	349.9	207.5	2.4
1928	80.8	227.6	29.0	8.5	210.5	586.9		127.7	6.0	1.7	332.6	186.5	2.2
1929	97.7	301.5	51.0	6.6	197.7	381.8		132.2	39.4	3.8	351.4	204.5	7.0
1930	66.2	230.8	49.0	10.4	163.9	580.9		105.9	18.6	4.3	341.5	176.6	3.4
1931	37.5	266.7	18.7	8.7	234.4	127.2		125.6	6.0	23.3	300.2	160.6	3.5
1932	24.1	309.7	4.5	10.4	265.8	855.4		144.2	2.6	2.3	243.0	141.4	2.8
1933	23.2	330.6	0.9	9.1	236.0	436.0		133.4	1.7	1.9	154.9	129.8	1.7
1934	12.3	384.2	1.0	9.7	224.8	130.4		105.1	1.1	4.6	129.5	123.6	2.6
1935	12.8	234.7	0.3	7.0	265.9	1,565.8		91.9	2.2	12.2	127.1	126.2	2.2
1936	13.0	248.5	0.6	5.6	280.7	48.2		101.3	2.4	3.0	125.7	126.9	2.6
1937	16.4	483.2	3.0	4.7	222.6	119.9		126.1	1.7	8.2	169.7	137.8	4.8
1938	12.0	354.9	5.3	5.5	281.5	1,534.8		122.5	1.3	1.1	283.8	136.2	6.6
1939	8.7	303.7	7.1	3.4	172.5	248.3		117.3	0.9	17.3	252.0	122.0	5.5
1940	5.0	197.2	1.4	2.3	223.7	384.4		115.3	0.9	23.4	190.2	145.5	4.1
1941	4.5	161.0	2.1	2.7	303.7	1,301.1		98.8	0.9	5.0	209.1	161.2	6.6
1942	4.4	135.5	0.3	1.3	209.5	154.7		103.3	1.2	2.9	225.0	158.0	5.0
1943	5.2	93.8	0.3	2.1	224.8	962.6		121.7	14.1	4.7	296.3	177.1	4.8
1944	7.8	166.7	0.2	1.5	75.3	496.7		119.4	15.9	16.4	321.5	222.9	3.4
1945	11.6	171.2	0.3	1.1	98.2	116.4	2.5	100.7	5.0	4.0	295.2	231.2	4.5
1946	6.7	104.7	0.1	1.5	142.2	740.3	0.6	97.2	3.2	19.1	316.2	221.3	3.6
1947	3.9	79.6	0.0	1.3	172.5	157.8	0.2	106.6	1.9	10.6	251.7	181.1	3.6
1948	2.0	95.8	0	0.8	43.1	693.3	0.1	98.6	1.7	12.5	195.3	152.5	7.5
1949	1.9	139.4	0	0.8	65.4	319.3	0.4	93.7	1.9	45.8	137.6	148.4	5.3
1950	1.3	73.2	0	0.7	144.1	600.2	0.8	86.9	2.1	31.8	138.6	136.2	3.2
1951	0.7	125.0	0	0.5	48.2	232.7	5.0	93.9	2.1	22.4	99.8	129.8	2.9
1952	0.7	124.1	0	0.8	29.7	491.1	4.2	91.7	2.5	58.3	110.0	114.7	0.9
1953	0.2	85.9	0	0.5	42.8	340.5	12.7	82.4	2.2	34.2	82.0	128.3	0.6
1954	0.8	73.2	0	0.4	80.0	579.8	20.2	82.1	2.1	30.9	66.7	141.5	0.7
1955	0.8	81.3	0	0.3	58.7	330.0	17.2	75.8	2.3	16.3	67.2	142.4	0.8
1956	2.9	97.8	0	0.7	25.4	558.4	10.8	73.4	2.4	8.7	63.7	127.7	0.7
1957	1.7	92.2	0	0.2	17.5	244.4	8.4	64.2	2.2	6.4	58.6	108.0	1.2
1958	0.1	68.4	0	0.2	15.7	526.9	8.7	71.0	2.9	15.6	54.2	109.6	2.3
1959	0.0	118.7	0	0.1	37.7	153.7	14.3	59.6	1.8	5.6	43.0	100.9	1.7

Note: Meningococcal infections - prior to 1952 data were for meningococcal meningitis.

TABLE 3 - DEATHS DUE TO CERTAIN COMMUNICABLE DISEASES, AND RATES  
MICHIGAN, 1900 - 1959

(Rates per 100,000 Population)

Year	Diphtheria		Scarlet Fever		Smallpox		Typhoid Fever		Whooping Cough		Measles		Tuberculosis of the Respiratory System		Tuberculosis (all forms)		Poliomyelitis		Syphilis*		Gonorrhea	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
1900	529	21.9	272	11.2	9	0.4	869	35.9	208	8.6	342	14.1	2,018	83.4	2,500	103.3						
1901	502	20.4	312	12.7	27	1.1	645	26.2	163	6.6	79	3.2	2,152	87.5	2,548	103.6			88	3.6		
1902	504	20.2	277	11.1	42	1.7	608	24.3	289	11.6	238	9.5	2,088	83.6	2,462	98.5			114	4.6		
1903	686	27.0	200	7.9	29	1.1	606	23.9	383	15.1	176	6.9	2,155	84.9	2,562	101.0			130	5.2		
1904	515	20.0	210	8.1	26	1.0	641	24.9	148	5.7	194	7.5	2,306	89.5	2,761	107.2			101	4.0		
1905	478	18.3	123	4.7	74	2.8	636	24.3	131	5.0	123	4.7	2,288	87.5	2,732	104.4			89	3.5		
1906	472	17.8	227	8.6	3	0.1	721	27.2	469	17.7	251	9.5	2,303	86.8	2,737	103.1			89	3.4		
1907	421	15.6	159	5.9	8	0.3	594	22.1	223	8.3	256	9.5	2,338	86.8	2,728	101.3			94	3.6		
1908	343	12.6	194	7.1	11	0.4	687	25.1	305	11.2	121	4.4	2,249	82.3	2,706	99.0			118	4.5		
1909	395	14.3	275	9.9	4	0.1	653	23.6	217	7.8	270	9.7	2,237	80.7	2,629	94.9			127	4.8		
1910	495	17.6	297	10.6	121	4.3	654	23.3	318	11.3	251	8.9	2,273	80.9	2,756	98.1	52	1.9	65	2.3		
1911	473	16.3	208	7.2	7	0.2	551	19.0	254	8.8	200	6.9	2,284	78.9	2,766	95.5	55	1.9	104	3.6		
1912	465	15.6	186	6.2	3	0.1	534	17.9	252	8.5	118	4.0	2,289	76.8	2,744	92.0	48	1.7	90	3.1		
1913	676	22.0	283	9.2	5	0.2	538	17.5	292	9.5	258	8.4	2,243	73.1	2,703	88.1	43	1.5	136	4.6		
1914	507	16.1	177	5.6	2	0.1	400	12.7	304	9.6	180	5.7	2,325	73.7	2,799	88.8	41	1.4	160	5.3		
1915	354	10.9	107	3.3	5	0.2	353	10.9	236	7.3	101	3.1	2,527	78.0	2,986	92.2	36	1.2	163	5.3		
1916	507	15.2	177	5.3	2	0.1	424	12.8	228	6.9	363	10.9	2,573	77.4	3,070	92.3	141	4.6	206	6.7		
1917	851	24.9	340	10.0	9	0.3	386	11.3	360	10.6	259	7.6	2,779	81.5	3,310	97.0	44	1.4	224	7.1		
1918	686	19.6	181	5.2	18	0.5	337	9.6	496	14.2	270	7.7	3,059	87.5	3,612	103.3	58	1.8	290	9.1		
1919	764	21.3	179	5.0	10	0.3	272	7.6	172	4.8	183	5.1	2,620	73.1	3,127	87.3	80	2.2	299	8.2		
1920	888	24.2	305	8.3	14	0.4	297	8.1	511	13.9	436	11.9	2,645	72.1	3,149	85.8	30	0.8	314	8.4		
1921	954	25.2	334	8.8	12	0.3	285	7.5	316	8.3	58	1.5	2,285	60.4	2,736	72.3	100	2.6	226	5.9	14	0.4
1922	620	15.9	217	5.6	20	0.5	192	4.9	232	5.9	232	5.9	2,232	57.2	2,654	68.0	21	0.5	186	4.7	6	0.2
1923	675	16.8	304	7.6	13	0.3	202	5.0	323	8.0	258	6.4	2,410	59.9	2,837	70.6	18	0.5	262	6.8	5	0.1
1924	470	11.4	265	6.4	226	5.5	149	3.6	169	4.1	221	5.3	2,474	59.8	2,952	71.3	116	3.0	271	7.0	13	0.3
1925	358	8.4	208	4.9	22	0.5	157	3.7	260	6.1	69	1.6	2,410	56.6	2,830	66.5	31	0.7	282	6.6	27	0.6
1926	677	15.5	235	5.4	4	0.1	119	2.7	355	8.1	577	13.2	2,601	59.5	3,041	69.5	34	0.8	327	7.5	12	0.3
1927	516	11.5	168	3.7	-	0	94	2.1	201	4.5	67	1.5	2,514	56.0	2,952	65.7	69	1.5	305	6.8	16	0.4
1928	384	8.3	178	3.9	2	0.0	83	1.8	219	4.8	303	6.6	2,647	57.4	3,108	67.5	27	0.6	384	8.4	19	0.4
1929	498	10.5	145	3.1	9	0.2	81	1.7	255	5.4	146	3.1	2,685	56.8	3,140	66.5	50	1.1	397	8.4	19	0.4
1930	299	6.2	130	2.7	9	0.2	87	1.8	176	3.6	231	4.8	2,443	50.5	2,912	60.1	39	0.8	395	8.2	12	0.2
1931	172	3.5	122	2.5	4	0.1	73	1.5	190	3.9	28	0.6	2,263	46.3	2,660	54.5	108	2.2	361	7.4	3	0.1
1932	106	2.2	112	2.3	1	0.0	56	1.1	199	4.0	183	3.7	2,101	42.7	2,463	50.0	23	0.5	377	7.7	2	0.0
1933	112	2.3	157	3.2	-	0	50	1.0	153	3.1	111	2.2	1,996	40.2	2,348	47.3	5	0.1	327	6.6	7	0.1
1934	38	0.8	171	3.4	-	0	65	1.3	141	2.8	36	0.9	1,909	38.1	2,199	43.9	25	0.5	402	8.0	10	0.2
1935	58	1.1	98	1.9	-	0	34	0.7	132	2.6	184	3.6	1,741	34.5	2,044	40.5	32	0.6	393	7.8	3	0.1
1936	52	1.0	114	2.2	-	0	37	0.7	107	2.1	12	0.2	1,816	35.7	2,100	41.3	21	0.4	394	7.7	6	0.1
1937	72	1.4	148	2.9	1	0.0	29	0.6	132	2.6	11	0.2	1,860	36.2	2,119	41.3	51	1.0	401	7.8	8	0.2
1938	44	0.9	87	1.7	-	0	23	0.4	116	2.2	100	1.9	1,633	31.6	1,866	36.1	10	0.2	401	7.8	8	0.2
1939	25	0.5	69	1.3	-	0	25	0.5	76	1.5	29	0.6	1,651	31.7	1,881	36.1	40	0.8	389	7.5	4	0.1
1940	20	0.4	41	0.8	1	0.0	11	0.2	59	1.1	19	0.4	1,547	29.4	1,752	33.3	72	1.4	591	11.2	3	0.0
1941	18	0.3	32	0.6	1	0.0	14	0.3	91	1.7	65	1.2	1,532	28.2	1,723	31.7	18	0.3	537	9.9	1	0.0
1942	24	0.4	23	0.4	-	0	5	0.1	72	1.3	8	0.1	1,630	29.4	1,827	33.0	10	0.2	559	10.1	7	0.1
1943	21	0.4	11	0.2	-	0	9	0.2	101	1.9	89	1.7	1,588	29.5	1,802	33.5	27	0.5	579	10.8	3	0.0
1944	32	0.6	7	0.1	1	0.0	7	0.1	33	0.6	49	0.9	1,544	28.7	1,748	32.5	45	0.8	543	10.1	2	0.0
1945	46	0.8	9	0.2	-	0	3	0.1	36	0.7	10	0.2	1,591	29.3	1,758	32.3	20	0.4	527	9.7	2	0.0
1946	27	0.5	3	0.1	-	0	6	0.1	44	0.8	47	0.8	1,645	28.8	1,843	32.3	89	1.6	547	9.6	-	0
1947	23	0.4	6	0.1	-	0	5	0.1	63	1.0	5	0.1	1,483	24.4	1,643	27.1	29	0.5	502	8.3	3	0.0
1948	8	0.1	1	0.0	-	0	4	0.1	9	0.1	43	0.7	1,395	22.5	1,561	25.2	54	0.9	512	8.3	-	0
1949	11	0.2	4	0.1	-	0	1	0.0	22	0.3	33	0.5	1,254	19.7	1,400	22.0	216	3.4	455	7.2	-	0
1950	2	0.0	1	0.0	-	0	5	0.1	28	0.4	28	0.4	1,134	17.8	1,270	19.9	128	2.0	325	5.1	1	0.0
1951	6	0.1	-	0	-	0	1	0.0	21	0.3	11	0.2	1,049	16.0	1,154	17.6	67	1.0	299	4.6	1	0.0
1952	2	0.0	-	0	-	0	-	0	8	0.1	17	0.3	689	10.3	775	11.6	213	3.2	174	2.6	2	0.0
1953	2	0.0	1	0.0	-	0	-	0	11	0.2	16	0.2	536	7.8	607	8.9	108	1.6	182	2.7	1	0.0
1954	3	0.0	3	0.0	-	0	-	0	17	0.2	17	0.2	471	6.7	530	7.5	89	1.3	139	2.0	2	0.0
1955	1	0.0	1	0.0	-	0	1	0.0	8	0.1	10	0.1	435	6.0	477	6.6	32	0.4	115	1.6	1	0.0
1956	6	0.1	3	0.0	-	0	-	0	6	0.1	26	0.3	426	5.7	466	6.2	22	0.3	114	1.5	4	0.1
1957	1	0.0	-	0	-	0	-	0	6	0.1	23	0.3	403	5.2	442	5.7	15	0.2	105	1.3	4	0.1
1958	-	0	-	0	-	0	-	0	1	0.0	18	0.2	357	4.5	395	5.0	37	0.5	84	1.1	8	0.1
1959	1	0.0	2	0.0	-	0	1	0.0	5	0.1	11	0.1	335	4.2	370	4.6	17	0.2	84	1.1	4	0.1

\* From 1901 through 1920, syphilis includes all other venereal diseases.

TABLE 4 - DEATHS DUE TO SPECIFIED CAUSES, AND RATES

MICHIGAN, 1900 - 1959

(Rates per 100,000 Population)

Year	Heart Disease		Cancer (all forms)		Vascular Lesions Affecting Central Nervous System		Accidents (all forms)		Motor Vehicle Accidents		Diabetes		Pneumonia		Immaturity		Nephritis (all forms)	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
1900	2,836	117.1	1,460	60.3	2,136	88.2	1,740	71.9			224	9.3	2,388	98.6	620	25.6	1,061	43.8
1901	3,040	123.6	1,484	60.3	2,147	87.3	1,901	77.3			264	10.7	2,901	117.9	524	21.3	1,121	45.6
1902	3,302	132.1	1,483	59.3	2,097	83.9	1,796	71.9			289	11.6	2,637	105.5	608	24.3	1,287	51.5
1903	3,702	145.9	1,694	66.8	2,321	91.5	2,017	79.5			265	10.4	2,607	102.7	542	21.4	1,413	55.7
1904	3,981	154.5	1,728	67.1	2,431	94.3	2,035	79.0			298	11.6	2,646	102.7	632	24.5	1,498	58.1
1905	3,715	142.0	1,693	64.7	2,405	91.9	2,034	77.8			267	10.2	2,417	92.4	751	28.7	1,434	54.8
1906	3,933	148.2	1,736	65.4	2,554	96.2	2,126	80.1			311	11.7	2,621	98.7	830	31.3	1,448	54.5
1907	4,269	158.5	1,747	64.9	2,690	99.9	2,209	82.0			352	13.1	3,018	112.0	855	31.7	1,499	55.7
1908	4,202	153.8	1,921	70.3	2,630	96.3	2,036	74.5			359	13.1	2,313	84.7	975	35.7	1,487	54.4
1909	4,354	157.1	1,948	70.3	2,739	98.8	1,903	68.7			374	13.5	2,265	81.7	1,152	41.6	1,521	54.9
1910	4,581	163.0	2,105	74.9	3,091	110.0	2,158	76.8	49	1.7	398	14.2	2,785	99.1	2,050	72.9	2,078	73.9
1911	4,639	160.2	2,142	74.0	2,916	100.7	2,121	73.2	44	1.5	373	12.9	2,763	95.4	2,223	76.8	1,952	67.4
1912	5,324	178.5	2,291	76.8	2,707	90.8	2,005	67.2	75	2.5	448	15.0	2,796	93.8	2,340	78.5	2,081	69.8
1913	4,908	160.0	2,388	77.8	2,834	92.4	2,333	76.1	132	4.3	483	15.7	3,082	100.5	2,480	80.8	2,332	76.0
1914	5,124	162.5	2,414	76.6	2,993	94.9	2,108	66.8	120	3.8	503	16.0	2,909	92.2	2,391	75.8	2,259	71.6
1915	5,538	171.0	2,567	79.2	3,384	104.5	2,219	68.5	190	5.9	498	15.4	3,229	99.7	2,207	68.1	2,264	69.9
1916	5,819	175.0	2,710	81.5	3,559	107.0	2,853	85.8	257	7.7	500	15.0	3,698	111.2	2,498	75.1	2,398	72.1
1917	6,103	178.9	2,765	81.1	3,703	108.6	2,925	85.8	335	9.8	569	16.7	4,455	130.6	2,369	69.5	2,765	81.1
1918	6,091	174.2	2,931	83.8	3,493	99.9	2,599	74.3	279	8.0	591	16.9	7,238	207.0	2,362	67.5	2,614	74.8
1919	5,651	157.7	2,990	83.5	3,483	97.2	2,612	72.9	328	9.2	559	15.6	4,081	113.9	2,183	60.9	2,352	65.6
1920	6,732	183.5	3,158	86.1	3,876	105.7	2,646	72.1	397	10.8	577	15.7	5,794	157.9	2,512	68.5	2,420	66.0
1921	6,176	163.1	3,373	89.1	3,931	103.8	2,476	65.4	403	10.6	586	15.5	2,849	75.3	2,481	65.5	2,362	62.4
1922	6,897	176.7	3,481	89.2	4,041	103.5	2,475	63.4	529	13.6	650	16.7	3,728	95.5	1,793	45.9	2,383	61.1
1923	7,266	180.7	3,545	88.2	4,420	109.9	2,826	70.3	677	16.8	635	15.8	4,719	117.4	1,911	47.5	2,527	62.9
1924	6,985	168.8	3,824	92.4	4,241	102.5	3,090	74.7	1,001	24.2	661	16.0	3,332	80.5	1,970	47.6	2,466	59.6
1925	7,540	177.2	3,858	90.7	4,623	108.6	3,278	77.0	1,103	25.9	746	17.5	3,294	77.4	1,987	46.7	2,554	60.0
1926	8,281	189.4	4,087	93.5	4,663	106.6	3,557	81.3	1,221	27.9	743	17.0	4,440	101.5	1,986	45.4	3,330	76.2
1927	8,780	195.5	4,264	95.0	4,378	97.5	3,634	80.9	1,389	30.9	819	18.2	3,543	78.9	1,911	42.6	3,101	69.1
1928	9,786	212.4	4,381	95.1	4,718	102.4	3,704	80.4	1,429	31.0	905	19.6	4,518	98.1	1,846	40.1	3,413	74.1
1929	10,185	215.6	4,571	96.7	4,694	99.3	3,913	82.8	1,552	32.8	935	19.8	4,216	89.2	1,853	39.2	3,137	66.4
1930	9,947	205.4	4,572	94.4	4,533	93.6	3,805	78.6	1,572	32.5	880	18.2	3,321	68.6	1,805	37.3	3,098	64.0
1931	10,206	209.0	4,763	97.5	4,388	89.8	3,630	74.3	1,516	31.0	950	19.5	2,883	59.0	1,473	30.2	2,934	60.1
1932	11,162	226.6	4,935	100.2	4,518	91.7	3,179	64.5	1,229	25.0	1,121	22.8	3,238	65.7	1,372	27.9	2,953	60.0
1933	11,509	231.7	5,055	101.8	4,318	86.9	3,304	66.5	1,278	25.7	1,103	22.2	2,756	55.5	1,364	27.5	3,008	60.6
1934	11,824	236.1	5,370	107.2	4,485	89.6	3,774	75.4	1,511	30.2	1,100	22.0	3,466	69.2	1,419	28.3	3,096	61.8
1935	12,456	246.7	5,399	106.9	4,420	87.5	3,771	74.7	1,676	33.2	1,228	24.3	3,801	75.3	1,389	27.5	2,974	58.9
1936	13,374	262.7	5,752	113.0	4,705	92.4	5,246	103.1	1,924	37.8	1,266	24.9	4,096	80.5	1,395	27.4	3,033	59.6
1937	13,233	257.8	5,732	111.7	4,378	85.3	4,580	89.2	2,187	42.6	1,255	24.5	4,098	79.8	1,415	27.6	2,931	57.1
1938	13,887	268.4	6,059	117.1	4,543	87.8	3,608	69.7	1,490	28.8	1,283	24.8	2,869	55.5	1,484	28.7	2,770	53.5
1939	14,898	285.7	6,296	120.7	4,415	84.7	3,761	72.1	1,553	29.8	1,360	26.1	2,803	53.8	1,396	26.8	2,808	53.8
1940	15,480	294.5	6,513	123.9	4,690	89.2	3,961	75.4	1,743	33.2	1,408	26.8	2,478	47.1	1,298	24.7	2,918	55.5
1941	15,761	289.8	6,551	120.5	4,698	86.4	4,450	81.8	2,156	39.6	1,382	25.4	2,235	41.1	1,353	24.9	2,853	52.5
1942	16,016	289.2	6,646	120.0	4,841	87.4	3,685	66.5	1,368	24.7	1,448	26.1	2,349	42.4	1,575	28.4	2,731	49.3
1943	17,816	331.3	7,127	132.5	5,311	98.8	3,480	64.7	1,025	19.1	1,535	28.5	2,931	54.5	1,488	27.7	2,950	54.9
1944	17,004	316.2	7,277	135.3	4,954	92.1	3,350	62.3	1,103	20.5	1,554	28.9	2,369	44.1	1,412	26.3	2,739	50.9
1945	17,421	320.5	7,486	137.7	5,295	97.4	3,432	63.1	1,199	22.1	1,561	28.7	1,932	35.5	1,339	24.6	2,655	48.8
1946	17,691	309.9	7,845	137.4	5,224	91.5	3,776	66.1	1,506	26.4	1,530	26.8	1,891	33.1	1,735	30.4	2,530	44.3
1947	18,412	303.4	8,188	134.9	5,426	89.4	3,848	63.4	1,499	24.7	1,618	26.7	2,089	34.4	1,953	32.2	2,567	42.3
1948	18,726	302.3	8,336	134.6	5,272	85.1	4,017	64.8	1,545	24.9	1,771	28.6	1,853	29.9	1,820	29.4	2,473	39.9
1949	19,137	301.3	8,697	136.9	5,438	85.6	3,838	60.4	1,493	23.5	1,884	29.7	1,885	29.7	1,795	28.3	2,435	38.3
1950	20,521	322.1	8,685	136.3	6,376	100.1	3,783	59.4	1,680	26.4	1,438	22.6	1,358	21.3	1,096	17.2	1,004	15.8
1951	21,118	322.6	9,187	140.4	6,579	100.5	3,916	59.8	1,806	27.6	1,374	21.0	1,619	24.7	1,232	18.8	1,005	15.4
1952	21,247	316.8	9,256	138.0	6,521	97.2	3,901	58.2	1,815	27.1	1,339	20.0	1,571	23.4	1,256	18.7	873	13.0
1953	22,425	327.3	9,904	144.5	7,045	102.8	4,375	63.8	2,051	29.9	1,419	20.7	1,538	22.4	1,114	16.3	820	12.0
1954	22,362	318.4	10,105	143.9	6,964	99.1	3,948	56.2	1,916	27.3	1,469	20.9	1,380	19.6	1,298	18.5	749	10.7
1955	23,440	323.9	10,297	142.3	7,362	101.7	4,213	58.2	2,129	29.4	1,415	19.6	1,538	21.3	1,272	17.6	676	9.3
1956	24,661	328.1	10,489	139.6	7,114	94.7	3,925	52.2	1,826	24.3	1,443	19.2	1,723	22.9	1,244	16.6	717	9.5
1957	25,369	325.1	10,810	138.5	7,632	97.8	3,643	46.7	1,680	21.5	1,510	19.4	2,045	26.2	1,322	16.9	671	8.6
1958	25,215	320.6	10,946	139.2	7,547	95.9	3,306	42.0	1,466	18.6	1,595	20.3	2,076	26.4	1,208	15.4	626	8.0
1959	25,323	318.1	11,113	139.6	7,700	96.7	3,666	46.1	1,587	19.9	1,715	21.5	1,810	22.7	1,201	15.1	507	6.4

Note: Heart disease includes all forms. Cancer includes leukemias, aleukemias, and Hodgkin's disease beginning with 1921. Motor vehicle accidents do not include automobile collision with heavier vehicles from 1910 through 1922. Motor cycle accidents are included beginning with 1923. Deaths related to immaturity include congenital debility from 1910 through 1921.



TABLE 5 - REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES BY PLACE OF RESIDENCE  
MICHIGAN, 1959

(Place of residence according to rural areas and urban incorporated areas having a 1950 population of 2,500 or more)

AREA	Total	Diphtheria	Streptococcal sore throat (including scarlet fever)	Typhoid fever	Whooping cough	Infectious hepatitis (incl. serum hepatitis)	Rheumatic fever	Meningococcal infections	Poliomyelitis	Undulant fever	Tuberculosis	Syphilis	Gonorrhea	All other diseases*
STATE	89,773	3	9,452	8	3,001	1,136	1,567	141	448	15	4,743	3,421	8,033	57,805
ALCONA	5	-	-	-	-	-	-	-	-	-	1	1	-	3
ALGER	79	-	5	-	-	-	2	-	-	-	9	1	-	62
Mumising	50	-	1	-	-	-	-	-	-	-	4	1	-	44
Balance of County	29	-	4	-	-	-	2	-	-	-	5	-	-	18
ALLEGAN	149	-	2	-	-	16	7	-	2	1	9	10	12	90
Allegan	31	-	-	-	-	6	1	-	1	-	-	3	1	19
Otsego	7	-	-	-	-	1	-	-	-	-	-	1	2	3
Plainwell	8	-	-	-	-	1	-	-	-	-	3	2	1	1
Balance of County	103	-	2	-	-	8	6	-	1	1	6	4	8	67
ALPENA	191	-	52	-	-	64	5	1	3	-	5	5	2	54
Alpena	135	-	40	-	-	30	-	1	3	-	3	5	1	52
Balance of County	56	-	12	-	-	34	5	-	-	-	2	-	1	2
ANTRIM	28	-	-	-	-	12	1	-	1	-	1	2	1	10
ARENAC	15	-	-	-	-	-	8	-	-	-	1	4	2	-
BARAGA	11	-	-	-	-	-	2	-	-	-	7	2	-	-
BARRY	1,253	-	178	-	3	4	9	-	1	-	4	5	2	1,047
Hastings	279	-	11	-	-	1	2	-	-	-	-	2	1	262
Balance of County	974	-	167	-	3	3	7	-	1	-	4	3	1	785
BAY	2,295	-	93	-	21	10	54	-	5	-	29	13	61	2,009
Bay City	1,229	-	48	-	3	2	24	-	3	-	22	9	52	1,066
Essexville	8	-	-	-	-	-	-	-	-	-	-	1	7	-
Balance of County	1,058	-	45	-	18	8	30	-	2	-	7	3	2	943
BENZIE	20	-	4	-	1	-	6	-	4	-	3	2	-	-
BERRIEN	301	-	4	-	-	1	5	-	1	-	39	112	70	69
Benton Harbor	128	-	-	-	-	-	3	-	-	-	14	68	43	-
Niles	85	-	1	-	-	-	2	-	-	-	8	11	13	50
St. Joseph	7	-	-	-	-	-	-	-	-	-	3	3	1	-
Buchanan	17	-	3	-	-	-	-	-	-	-	1	3	-	10
Balance of County	64	-	-	-	-	1	-	-	1	-	13	27	13	9
BRANCH	375	-	9	-	-	55	8	-	1	-	8	2	8	284
Coldwater	188	-	6	-	-	48	2	-	1	-	4	-	1	126
Balance of County	187	-	3	-	-	7	6	-	-	-	4	2	7	158
CALHOUN	1,997	-	90	-	21	21	21	10	6	1	36	56	103	1,632
Battle Creek	1,152	-	31	-	8	4	9	3	1	-	16	36	76	968
Albion	125	-	3	-	12	3	3	4	-	-	7	8	23	62
Marshall	43	-	1	-	-	-	2	-	1	-	3	7	1	28
Balance of County	677	-	55	-	1	14	7	3	4	1	10	5	3	574
CASS	193	-	11	-	11	-	6	1	2	-	16	7	1	138
Dowagiac	6	-	-	-	-	-	-	-	-	-	1	4	1	-
Balance of County	187	-	11	-	11	-	6	1	2	-	15	3	-	138
CHARLEVOIX	22	-	5	-	-	-	6	-	-	-	2	6	3	-
Boyne City	7	-	4	-	-	-	2	-	-	-	-	1	-	-
Charlevoix	6	-	-	-	-	-	1	-	-	-	1	1	3	-
Balance of County	9	-	1	-	-	-	3	-	-	-	1	4	-	-
CHEBOYGAN	38	-	4	-	-	1	1	1	2	-	6	3	-	20
Cheboygan	21	-	2	-	-	-	-	-	-	-	1	3	-	15
Balance of County	17	-	2	-	-	1	1	1	2	-	5	-	-	5
CHIPPEWA	163	-	9	-	4	-	20	1	1	-	9	9	5	105
Sault Ste. Marie	117	-	3	-	4	-	6	1	-	-	5	7	4	87
Balance of County	46	-	6	-	-	-	14	-	1	-	4	2	1	18
CLARE	15	-	-	-	-	-	4	-	-	-	3	5	2	1
CLINTON	228	-	70	-	1	-	4	-	-	-	14	8	5	126
St. Johns	13	-	-	-	-	-	1	-	-	-	3	6	2	1
Balance of County	215	-	70	-	1	-	3	-	-	-	11	2	3	125
CRAWFORD	1	-	-	-	-	-	-	-	-	-	1	-	-	-

TABLE 5 - REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES BY PLACE OF RESIDENCE (Continued)

AREA	Total	Diphtheria	Streptococcal sore throat (including scarlet fever)	Typhoid fever	Whooping cough	Infectious hepatitis (incl. serum hepatitis)	Rheumatic fever	Meningococcal infections	Poliomyelitis	Undulant fever	Tuberculosis	Syphilis	Gonorrhea	All other diseases*
DELTA	252	-	17	-	1	4	8	1	1	-	7	6	2	205
Escanaba	188	-	12	-	1	3	1	-	-	-	3	5	-	163
Gladstone	3	-	-	-	-	-	-	-	-	-	1	1	1	-
Balance of County	61	-	5	-	-	1	7	1	1	-	3	-	1	42
DICKINSON	1,103	-	285	-	-	-	-	1	-	-	12	1	-	804
Iron Mountain	315	-	123	-	-	-	-	-	-	-	6	1	-	185
Kingsford	556	-	96	-	-	-	-	1	-	-	-	-	-	459
Norway	42	-	15	-	-	-	-	-	-	-	3	-	-	24
Balance of County	190	-	51	-	-	-	-	-	-	-	3	-	-	136
EATON	239	-	90	-	6	6	15	1	2	1	3	7	22	86
Charlotte	59	-	7	-	6	3	4	1	-	-	2	3	4	29
Eaton Rapids	60	-	38	-	-	-	-	-	-	-	-	3	4	15
Grand Ledge	34	-	10	-	-	1	-	-	-	-	-	1	6	16
Balance of County	86	-	35	-	-	2	11	-	2	1	1	-	8	26
EMMET	41	-	11	-	1	2	11	-	-	-	4	2	3	7
Petoskey	19	-	5	-	-	2	1	-	-	-	2	1	1	7
Balance of County	22	-	6	-	1	-	10	-	-	-	2	1	2	-
GENESEE	3,134	-	181	1	51	253	44	14	22	-	106	230	809	1,423
Flint	1,733	-	67	-	14	100	12	12	11	-	90	211	784	432
Fenton	91	-	6	-	1	-	-	-	-	-	1	2	-	81
Mount Morris	12	-	-	-	-	-	1	-	-	-	4	6	1	-
Balance of County	1,298	-	108	1	36	153	31	2	11	-	11	11	24	910
GLADWIN	18	-	-	-	-	-	2	-	-	-	-	11	-	5
GOGEBIC	522	-	2	-	-	4	3	2	-	-	12	8	5	486
Ironwood	252	-	2	-	-	4	2	-	-	-	6	2	1	235
Bessemer	39	-	-	-	-	-	-	-	-	-	1	3	1	34
Wakefield	203	-	-	-	-	-	-	2	-	-	2	3	3	193
Balance of County	28	-	-	-	-	-	1	-	-	-	3	-	-	24
GRAND TRAVERSE	94	-	1	-	2	5	7	1	-	-	9	7	2	60
Traverse City	17	-	-	-	-	-	4	-	-	-	5	4	2	2
Balance of County	77	-	1	-	2	5	3	1	-	-	4	3	-	58
GRATIOT	268	-	35	-	6	-	14	-	6	-	12	7	2	186
Alma	230	-	35	-	6	-	1	-	-	-	5	2	1	180
St. Louis	5	-	-	-	-	-	-	-	-	-	2	1	1	1
Balance of County	33	-	-	-	-	-	13	-	6	-	5	4	-	5
HILLSDALE	133	-	24	-	7	1	5	-	1	-	10	8	19	58
Hillsdale	32	-	4	-	4	1	1	-	-	-	1	3	4	14
Balance of County	101	-	20	-	3	-	4	-	1	-	9	5	15	44
HOUGHTON	64	-	2	-	-	-	5	-	-	-	27	-	1	29
Hancock	33	-	2	-	-	-	2	-	-	-	5	-	-	24
Houghton	3	-	-	-	-	-	-	-	-	-	2	-	1	-
Laurium	4	-	-	-	-	-	-	-	-	-	2	-	-	2
Balance of County	24	-	-	-	-	-	3	-	-	-	18	-	-	3
HURON	16	-	-	-	-	-	4	-	-	2	5	5	-	-
Bad Axe	2	-	-	-	-	-	-	-	-	-	1	1	-	-
Balance of County	14	-	-	-	-	-	4	-	-	2	4	4	-	-
INGHAM	4,864	-	2,717	-	38	39	40	5	7	-	49	36	186	1,747
Lansing	3,188	-	1,710	-	32	31	22	3	5	-	36	28	161	1,160
East Lansing	523	-	272	-	2	6	5	2	1	-	1	3	9	222
Mason	45	-	27	-	-	-	-	-	-	-	2	1	4	11
Balance of County	1,108	-	708	-	4	2	13	-	1	-	10	4	12	354
IONIA	47	-	9	1	2	-	6	-	-	1	5	12	2	9
Belding	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ionia	13	-	-	-	-	-	-	-	-	-	2	9	1	1
Portland	17	-	8	-	2	-	-	-	-	-	1	-	-	6
Balance of County	17	-	1	1	-	-	6	-	-	1	2	3	1	2
IOSCO	10	-	-	-	-	-	-	-	-	-	4	1	2	3
IRON	99	-	10	-	1	-	1	-	-	-	11	5	-	71
Iron River	10	-	1	-	1	-	-	-	-	-	4	4	-	-
Balance of County	89	-	9	-	-	-	1	-	-	-	7	1	-	71
ISABELLA	476	-	8	-	-	3	16	-	4	-	6	5	-	434
Mount Pleasant	145	-	-	-	-	2	6	-	-	-	5	2	-	127
Balance of County	331	-	8	-	-	1	10	-	1	-	1	3	-	307

TABLE 5 - REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES BY PLACE OF RESIDENCE (Continued)

AREA	Total	Diphtheria	Streptococcal sore throat (including scarlet fever)	Typhoid fever	Whooping cough	Infectious hepatitis (incl. serum hepatitis)	Rheumatic fever	Meningococcal infections	Poliomyelitis	Undulant fever	Tuberculosis	Syphilis	Gonorrhea	All other diseases*
JACKSON	398	-	54	-	3	18	10	1	4	1	59	43	43	162
Jackson	298	-	26	-	3	12	3	1	1	-	38	33	39	142
Balance of County	100	-	28	-	-	6	7	-	3	1	21	10	4	20
KALAMAZOO	2,703	-	121	-	86	14	23	4	3	-	35	31	216	2,170
Kalamazoo	1,395	-	47	-	46	8	14	4	1	-	32	23	206	1,014
Balance of County	1,308	-	74	-	40	6	9	-	2	-	3	8	10	1,156
KALKASKA	17	-	-	-	-	-	1	-	-	-	-	3	1	12
KENT	4,310	1	682	1	51	33	41	7	2	-	118	85	448	2,841
Grand Rapids	2,226	-	215	-	30	5	21	-	-	-	90	78	417	1,370
E. Grand Rapids	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Balance of County	2,084	1	467	1	21	28	20	7	2	-	28	7	31	1,471
KEWEENAW	3	-	-	-	-	-	-	-	-	-	3	-	-	-
LAKE	7	-	-	-	-	-	-	-	-	-	3	1	3	-
LAPEER	474	-	71	-	-	4	8	-	-	-	7	9	2	373
Lapeer	457	-	71	-	-	3	3	-	-	-	2	4	1	373
Balance of County	17	-	-	-	-	1	5	-	-	-	5	5	1	-
LEELANAU	18	-	-	-	-	-	4	-	-	-	2	1	3	8
LENAWEE	352	-	6	1	8	25	19	-	-	-	27	24	10	232
Adrian	197	-	1	-	8	-	2	-	-	-	12	9	5	160
Hudson	6	-	-	-	-	-	-	-	-	-	2	2	2	6
Tecumseh	10	-	-	-	-	-	-	-	-	-	1	2	1	6
Balance of County	139	-	5	1	-	25	17	-	-	-	12	11	2	66
LIVINGSTON	26	-	-	-	-	-	8	-	1	-	10	5	2	-
Howell	5	-	-	-	-	-	2	-	-	-	1	2	-	-
Balance of County	21	-	-	-	-	-	6	-	1	-	9	3	2	-
LUCE	5	-	-	-	-	-	2	-	-	-	2	-	-	1
Newberry	1	-	-	-	-	-	-	-	-	-	1	-	-	-
Balance of County	4	-	-	-	-	-	2	-	-	-	1	-	-	1
MACKINAC	36	-	-	-	-	-	8	-	-	-	4	1	-	23
St. Ignace	25	-	-	-	-	-	3	-	-	-	2	-	-	20
Balance of County	11	-	-	-	-	-	5	-	-	-	2	1	-	3
MACOMB	3,791	-	210	1	55	42	43	6	45	2	222	43	65	3,057
East Detroit	339	-	27	-	1	8	4	2	3	-	30	3	4	257
Mount Clemens	405	-	8	-	1	2	2	1	5	-	44	17	18	307
Roseville	431	-	23	-	5	3	6	-	10	-	26	4	6	348
St. Clair Shores	814	-	68	1	8	5	7	-	5	-	33	5	7	675
Centerline	138	-	15	-	-	9	3	-	1	-	2	3	2	103
Romeo	26	-	-	-	-	1	1	-	-	-	-	-	3	21
Balance of County	1,638	-	69	-	40	14	20	3	21	2	87	11	25	1,346
MANISTEE	16	-	-	-	-	-	2	-	-	-	8	3	3	-
Manistee	7	-	-	-	-	-	2	-	-	-	1	3	1	-
Balance of County	9	-	-	-	-	-	-	-	-	-	7	-	2	-
MARQUETTE	617	-	45	-	12	1	12	5	-	-	42	8	10	482
Marquette	368	-	42	-	12	1	5	5	-	-	13	7	4	279
Ishpeming	216	-	3	-	-	-	-	-	-	-	9	-	1	203
Negaunee	8	-	-	-	-	-	-	-	-	-	4	-	4	-
Balance of County	25	-	-	-	-	-	7	-	-	-	16	1	1	-
MASON	221	-	6	-	6	20	6	1	2	-	4	1	5	170
Ludington	124	-	4	-	2	2	1	1	1	-	1	-	1	111
Balance of County	97	-	2	-	4	18	5	-	1	-	3	1	4	59
MECOSTA	88	-	10	-	-	1	12	-	-	1	14	2	2	46
Big Rapids	55	-	9	-	-	-	4	-	-	-	9	1	1	31
Balance of County	33	-	1	-	-	1	8	-	-	1	5	1	1	15
MENOMINEE	47	-	1	-	-	-	7	-	-	-	6	3	-	30
Menominee	15	-	-	-	-	-	3	-	-	-	2	2	-	8
Balance of County	32	-	1	-	-	-	4	-	-	-	4	1	-	22
MIDLAND	1,965	1	86	-	46	28	12	-	5	-	5	5	4	1,773
Midland	1,139	1	50	-	5	5	3	-	3	-	3	3	3	1,063
Balance of County	826	-	36	-	41	23	9	-	2	-	2	2	1	710
MISSAUKEE	21	-	-	-	3	4	8	-	-	-	1	-	-	5

TABLE 5 - REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES BY PLACE OF RESIDENCE (Continued)

AREA	Total	Diphtheria	Streptococcal sore throat (including scarlet fever)	Typhoid fever	Whooping cough	Infectious hepatitis (incl. serum hepatitis)	Rheumatic fever	Meningococcal infections	Polioomyelitis	Undulant fever	Tuberculosis	Syphilis	Gonorrhea	All other diseases*
MONROE	1,545	-	33	-	38	33	69	5	2	-	46	15	23	1,281
Monroe	53	-	-	-	-	-	18	-	2	-	16	8	8	1
Milan (Part)	4	-	-	-	-	-	-	-	-	-	4	-	-	-
Balance of County	1,488	-	33	-	38	33	51	5	-	-	26	7	15	1,280
MONTCALM	30	-	-	1	-	-	4	-	1	-	9	12	2	1
Greenville	5	-	-	1	-	-	-	-	1	-	2	1	-	-
Balance of County	25	-	-	-	-	-	4	-	-	-	7	11	2	1
MONTMORENCY	41	-	3	-	-	18	-	-	-	-	1	-	-	19
MUSKEGON	3,526	-	315	-	53	33	28	1	3	-	43	68	284	2,698
Muskegon	1,006	-	71	-	4	9	14	-	2	-	30	41	158	677
Muskegon Heights	632	-	37	-	6	2	3	-	-	-	7	16	108	453
Balance of County	1,888	-	207	-	43	22	11	1	1	-	6	11	18	1,568
NEWAYGO	62	-	23	-	6	10	4	-	-	-	3	6	3	7
Fremont	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Balance of County	62	-	23	-	6	10	4	-	-	-	3	6	3	7
OAKLAND	8,357	-	429	-	144	37	92	23	36	-	661	117	500	6,318
Pontiac	1,139	-	68	-	66	4	10	3	6	-	139	53	230	560
Ferndale	820	-	41	-	13	2	4	2	2	-	63	5	23	665
Royal Oak	380	-	8	-	2	5	15	1	2	-	92	11	22	222
Berkley	155	-	-	-	-	-	3	-	1	-	14	2	12	123
Birmingham	694	-	35	-	3	5	1	1	-	-	27	3	4	615
Hazel Park	55	-	-	-	-	-	-	-	1	-	42	2	10	-
Clawson	125	-	1	-	-	1	1	1	-	-	15	1	4	101
Holly	4	-	-	-	-	-	-	-	-	-	3	1	-	-
Huntington Woods	6	-	-	-	-	-	-	-	-	-	6	-	-	-
Northville (Part)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oak Park	32	-	-	-	-	-	-	-	-	-	26	2	4	-
Pleasant Ridge	101	-	2	-	-	2	-	-	-	-	4	1	-	92
Rochester	77	-	10	-	5	-	2	2	1	-	11	1	3	42
Balance of County	4,769	-	264	-	55	18	56	13	23	-	219	35	188	3,898
OCEANA	19	-	-	-	-	1	5	-	1	-	8	3	-	1
OGEMAW	19	-	-	-	-	4	3	-	1	-	6	2	-	3
ONTONAGON	56	-	20	-	2	5	1	-	-	-	13	1	1	13
OSCEOLA	102	-	66	-	-	-	5	-	1	-	5	1	2	22
OSCODA	9	-	-	-	-	-	4	-	-	-	1	3	-	1
OTSEGO	7	-	2	-	1	-	-	-	-	-	1	2	-	1
OTTAWA	1,651	-	563	-	29	-	10	-	4	-	12	7	22	1,004
Holland	382	-	75	-	12	-	-	-	2	-	4	-	11	278
Grand Haven	393	-	103	-	5	-	-	-	1	-	1	4	2	277
Zeeland	27	-	-	-	1	-	-	-	-	-	-	1	3	22
Balance of County	849	-	385	-	11	-	10	-	1	-	7	2	6	427
PRESQUE ISLE	247	-	39	-	-	121	2	-	-	-	2	-	-	83
Rogers City	2	-	-	-	-	2	-	-	-	-	-	-	-	-
Balance of County	245	-	39	-	-	119	2	-	-	-	2	-	-	83
ROSCOMMON	2	-	-	-	-	-	1	-	-	-	-	1	-	-
SAGINAW	2,135	-	191	-	60	16	28	11	5	-	58	104	132	1,530
Saginaw	1,568	-	57	-	35	8	15	3	1	-	47	93	130	1,179
Balance of County	567	-	134	-	25	8	13	8	4	-	11	11	2	351
ST. CLAIR	865	-	533	-	34	6	21	1	4	-	33	17	15	201
Port Huron	708	-	502	-	23	-	4	-	2	-	15	12	8	142
Algonac	8	-	-	-	-	-	-	-	-	-	6	1	-	-
Marine City	5	-	-	-	-	-	4	-	-	-	1	-	-	-
Marysville	-	-	-	-	-	-	-	-	-	-	-	-	-	-
St. Clair	8	-	-	-	-	-	3	-	-	-	2	2	-	1
Balance of County	136	-	31	-	11	6	10	1	2	-	9	2	6	58
ST. JOSEPH	44	-	-	-	-	-	9	-	3	1	8	13	9	1
Sturgis	13	-	-	-	-	-	1	-	1	-	3	3	5	-
Three Rivers	7	-	-	-	-	-	-	-	-	-	1	5	1	-
Balance of County	24	-	-	-	-	-	8	-	2	1	4	5	3	1
SANILAC	119	-	33	-	10	2	14	5	-	1	14	4	3	33

TABLE 5 - REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES BY PLACE OF RESIDENCE (Continued)

AREA	Total	Diphtheria	Streptococcal sore throat (including scarlet fever)	Typhoid fever	Whooping cough	Infectious hepatitis (incl. serum hepatitis)	Rheumatic fever	Meningococcal infections	Poliomylitis	Undulant fever	Tuberculosis	Syphilis	Gonorrhea	All other diseases*
SCHOOLCRAFT	25	-	-	-	-	-	2	1	1	-	12	-	-	9
Manistique	16	-	-	-	-	-	1	1	1	-	8	-	-	5
Balance of County	9	-	-	-	-	-	1	-	-	-	4	-	-	4
SHIAWASSEE	54	-	12	-	1	2	13	-	8	-	3	2	4	9
Owosso	12	-	-	-	-	-	2	-	4	-	3	-	2	1
Durand	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Balance of County	42	-	12	-	1	2	11	-	4	-	-	2	2	8
TUSCOLA	115	-	-	-	-	4	19	-	2	-	4	12	3	71
Caro	80	-	-	-	-	2	1	-	-	-	2	5	-	70
Vassar	2	-	-	-	-	-	-	-	-	-	-	2	-	-
Balance of County	33	-	-	-	-	2	18	-	2	-	2	5	3	1
VAN BUREN	396	1	19	-	16	12	9	1	3	-	12	27	19	277
South Haven	15	-	-	-	-	-	-	-	-	-	-	7	8	-
Balance of County	381	1	19	-	16	12	9	1	3	-	12	20	11	277
WASHTENAW	1,311	-	228	-	13	25	53	1	-	-	40	64	85	802
Ann Arbor	700	-	147	-	7	2	19	-	-	-	19	12	17	477
Ypsilanti	224	-	28	-	4	12	11	-	-	-	11	22	50	86
Chelsea	6	-	-	-	-	2	-	-	-	-	1	2	1	-
Milan (Part)	24	-	-	-	-	-	3	-	-	-	1	18	2	-
Balance of County	357	-	53	-	2	9	20	1	-	-	8	10	15	239
WAYNE	35,029	-	1,714	-	2,144	113	592	29	239	3	2,685	2,064	4,776	20,668
Detroit	27,890	-	1,354	2	2,067	58	394	24	173	3	1,753	1,849	4,441	15,772
Dearborn	409	-	1	-	1	-	8	-	-	-	324	32	26	17
Hamtramck	73	-	-	-	-	-	1	-	-	-	32	9	31	-
Highland Park	61	-	-	-	-	-	-	-	-	-	24	18	19	-
**Lincoln Park	49	-	-	-	-	-	-	-	-	-	30	9	10	-
**Wyandotte	79	-	-	-	-	-	-	-	-	-	54	8	17	-
**Allen Park	22	-	-	-	-	-	-	-	-	-	18	2	2	-
**Ecorse	85	-	-	-	-	-	-	-	-	-	49	16	20	-
**Grosse Pte. Park	7	-	-	-	-	-	-	-	-	-	7	-	-	-
**Grosse Pte. Woods	9	-	-	-	-	-	-	-	-	-	7	2	-	-
**Inkster	189	-	-	-	-	-	-	-	1	-	54	35	99	-
**Livonia	46	-	-	-	-	-	-	-	-	-	38	3	5	-
**River Rouge	102	-	-	-	-	-	-	-	-	-	37	17	48	-
**Garden City	39	-	-	-	-	-	-	-	-	-	26	6	7	-
**Grosse Pointe	22	-	-	-	-	-	-	-	-	-	19	2	1	-
**Grosse Pte. Farms	6	-	-	-	-	-	-	-	-	-	4	-	2	-
**Melvindale	17	-	-	-	-	-	-	-	-	-	13	3	1	-
**Northville (Part)	9	-	-	-	-	-	-	-	-	-	5	4	-	-
**Plymouth	15	-	-	-	-	-	-	-	-	-	10	3	2	-
**Trenton	16	-	-	-	-	-	-	-	-	-	13	1	2	-
**Wayne	54	-	-	-	-	-	-	-	-	-	21	10	23	-
Balance of County	5,830	-	359	-	76	55	189	5	65	-	147	35	20	4,879
WEXFORD	133	-	9	-	3	3	3	-	-	-	6	4	1	104
Cadillac	104	-	3	-	3	2	-	-	-	-	4	4	1	87
Balance of County	29	-	6	-	-	1	3	-	-	-	2	-	-	17

## \*Includes:

Actinomycosis	5	Infectious mononucleosis	177	Q fever	4
Bites, animal	20,155	Influenza	508	Rabies in animals	52
Chickenpox	11,365	Measles	12,234	Ringworm	2,174
Diarrhea, epidemic (infants under 1 year)	261	Meningitis, influenzal	19	Rubella	2,812
Dysentery, amebic	103	Meningitis, other	224	Salmonella infections	250
Dysentery, bacillary	453	Mumps	4,834	Scabies	72
Encephalitis, infectious	58	Pediculosis	118	Tetanus	8
Erysipelas	61	Pink eye	172	Trichinosis	5
Impetigo	1,677	Psittacosis	2	Weill's disease	2

\*\*Included in balance of county unless otherwise indicated.

TABLE 6A - ACCIDENTAL DEATHS BY CAUSE AND AGE  
MICHIGAN, 1959

(By place of residence. Cause of death classified according to Seventh Revision of International List, 1955.)

CAUSE OF DEATH	INT. LIST NUMBER	N U M B E R										P E R C E N T									
		AGE IN YEARS										AGE IN YEARS									
		ALL AGES	Under 1	1/4	1/2	5/14	15/24	25/44	45/64	65 & Over	ALL AGES	Under 1	1/4	1/2	5/14	15/24	25/44	45/64	65 & Over		
GRAND TOTAL		3,666	179	184	293	467	754	736	1,053												
TRANSPORT TOTAL		1,745	22	56	150	357	476	412	272												
Motor vehicle*	E810-E835	1,587	21	50	129	330	424	374	259												
Railroad - not with motor vehicle	E800-E802	18	-	1	-	-	7	6	4												
Other road vehicle - not with motor vehicle	E840-E845	7	-	2	2	2	-	2	1												
Water transportation**	E850-E858	103	1	4	18	20	34	20	6												
Air transportation	E860-E866	30	-	1	1	5	11	10	2												
NON-TRANSPORT TOTAL		1,879	156	127	143	109	267	312	765												
Poisoning	E870-E895	108	1	17	6	9	32	31	12												
Falls	E900-E904	822	4	12	7	10	43	124	622												
Blow from falling object	E910	51	-	3	4	4	19	12	9												
Machinery	E912	62	-	2	4	7	20	21	8												
Electric current	E914	46	-	3	3	8	20	11	1												
Fire and explosion of combustible material	E916	247	9	35	37	16	43	48	59												
Hot substance, corrosive liquid, steam, radiation	E917, E918	18	2	7	-	-	1	1	7												
Firearm	E919	50	-	-	12	8	17	9	4												
Inhalation or ingestion of food or other object	E921, E922	118	69	9	3	2	8	15	12												
Mechanical suffocation	E924, E925	80	63	3	3	2	8	-	1												
Drowning and submersion	E929	188	3	28	52	36	41	17	11												
Other causes		89	5	8	12	7	15	23	19												
THERAPEUTIC MISADVENTURE & LATE COMPLICATION, COMPLICATIONS OF NONTHERAPEUTIC PROCEDURES, LATE EFFECTS OF INJURY & POISONING	E940-E962	42	1	1	-	1	11	12	16												

\* Thirty-nine of these were non-traffic accidents.  
\*\* Ninety-seven of these were drownings resulting from water transport accidents.

TABLE 6B - NON-TRANSPORT ACCIDENTAL DEATHS BY PLACE OF ACCIDENT AND CAUSE  
MICHIGAN, 1959

(By place of residence. Cause of death classified according to Seventh Revision of International List, 1955.)

PLACE OF ACCIDENT	N U M B E R										P E R C E N T															
	TOTAL	E870 - Poisoning	E900 - Falls	E910 Blow from falling object	E912 Machinery	E914 Electric current	E916 Fire and explosion	E917, Hot substance, corrosive liquid, steam and radiation	E919 Firearm	E921, Inhalation and ingestion of food or other object causing obstruction or suffocation	E924, Mechanical suffocation	E929 Drowning	Other	TOTAL	E870 - Poisoning	E900 - Falls	E910 Blow from falling object	E912 Machinery	E914 Electric current	E916 Fire and explosion	E917, Hot substance, corrosive liquid, steam and radiation	E919 Firearm	E921, Inhalation and ingestion of food or other object causing obstruction or suffocation	E924, Mechanical suffocation	E929 Drowning	Other
NON-TRANSPORT TOTAL	1,879	108	822	51	62	46	247	18	50	118	80	188	89	100	5.7	43.7	2.7	3.3	2.5	13.1	1.0	2.7	6.3	4.3	10.0	4.7
Home	906	62	400	13	3	13	205	15	20	63	63	15	34	100	6.8	44.1	1.4	0.3	1.4	22.6	1.7	2.2	7.0	7.0	1.7	3.8
Farm	69	-	10	10	29	5	4	-	4	-	-	4	3	100	0	14.5	14.5	42.0	7.2	5.8	5.8	0	0	1.7	3.8	
Mine and quarry	27	-	4	1	2	-	7	-	1	-	4	8	3	100	0	14.8	3.7	7.4	0	25.9	3.7	0	0	5.8	4.4	
Industrial place and premises	77	5	19	10	11	12	9	-	1	-	2	8	5	100	6.5	24.6	13.0	14.3	0	11.7	1.3	2.6	14.8	29.7	0	
Place for recreation and sport	26	5	2	1	-	-	-	-	1	-	-	17	-	100	19.2	7.7	3.9	0	0	0	0	0	3.9	3.9	0	
Street and highway	78	11	41	3	6	7	4	-	1	-	2	2	3	100	14.1	52.6	3.8	7.7	5.1	1.3	0	2.6	0	0	3.8	
Public building	42	4	21	3	1	1	7	1	-	-	1	2	1	100	9.5	50.0	7.1	2.4	16.7	2.4	0	2.4	2.4	4.7	2.4	
Resident institution	101	2	77	2	-	-	3	2	-	13	1	-	1	100	2.0	76.2	2.0	0	0	0	0	1.0	0	0	1.0	
Other specified places	225	6	24	2	6	9	2	2	20	1	3	136	10	100	2.7	10.7	3.6	4.0	2.0	8.9	0.4	1.3	60.4	4.4		
Place not specified	328	13	224	-	4	-	6	-	2	40	4	3	32	100	4.0	68.3	0	1.2	1.8	0.6	12.2	1.2	0.9	9.8		
NON-TRANSPORT TOTAL	1,879	108	822	51	62	46	247	18	50	118	80	188	89	100	5.7	43.7	2.7	3.3	2.5	13.1	1.0	2.7	6.3	4.3	10.0	4.7
Home	906	62	400	13	3	13	205	15	20	63	63	15	34	100	6.8	44.1	1.4	0.3	1.4	22.6	1.7	2.2	7.0	7.0	1.7	3.8
Farm	69	-	10	10	29	5	4	-	4	-	-	4	3	100	0	14.5	14.5	42.0	7.2	5.8	5.8	0	0	1.7	3.8	
Mine and quarry	27	-	4	1	2	-	7	-	1	-	4	8	3	100	0	14.8	3.7	7.4	0	25.9	3.7	0	0	5.8	4.4	
Industrial place and premises	77	5	19	10	11	12	9	-	1	-	2	8	5	100	6.5	24.6	13.0	14.3	0	11.7	1.3	2.6	14.8	29.7	0	
Place for recreation and sport	26	5	2	1	-	-	-	-	1	-	-	17	-	100	19.2	7.7	3.9	0	0	0	0	0	3.9	3.9	0	
Street and highway	78	11	41	3	6	7	4	-	1	-	2	2	3	100	14.1	52.6	3.8	7.7	5.1	1.3	0	2.6	0	0	3.8	
Public building	42	4	21	3	1	1	7	1	-	-	1	2	1	100	9.5	50.0	7.1	2.4	16.7	2.4	0	2.4	2.4	4.7	2.4	
Resident institution	101	2	77	2	-	-	3	2	-	13	1	-	1	100	2.0	76.2	2.0	0	0	0	0	1.0	0	0	1.0	
Other specified places	225	6	24	2	6	9	2	2	20	1	3	136	10	100	2.7	10.7	3.6	4.0	2.0	8.9	0.4	1.3	60.4	4.4		
Place not specified	328	13	224	-	4	-	6	-	2	40	4	3	32	100	4.0	68.3	0	1.2	1.8	0.6	12.2	1.2	0.9	9.8		

TABLE 6C - ACCIDENTAL DEATHS BY PLACE OF ACCIDENT AND LEADING CAUSES OF DEATH  
MICHIGAN, 1959

(By place of residence. Cause of death classified according to Seventh Revision of International List, 1955.)

PLACE OF ACCIDENT AND LEADING CAUSES OF DEATH	Number	Percent	Percent of Total	
GRAND TOTAL	3,666		100	
TRANSPORT	1,745		47.6	
MOTOR VEHICLE	1,587	100		43.3
OTHER TRANSPORT	158	100		4.3
Water transportation	103	65.2		
Air transportation	30	19.0		
Railroad	18	11.4		
Other road vehicle	7	4.4		
NON-TRANSPORT	1,879		51.3	
HOME	906	100		24.7
Falls	400	44.1		
Fire & explosion of combustible material	205	22.6		
Inhalation & ingestion of food or other objects causing obstruction or suffocation	63	7.0		
Mechanical suffocation	63	7.0		
Poisoning	62	6.8		
Firearm	20	2.2		
Other	93	10.3		
FARM	69	100		1.9
Machinery	29	42.0		
Falls	10	14.5		
Blow from falling object	10	14.5		
Electric current	5	7.2		
Fire & explosion of combustible material	4	5.8		
Firearm	4	5.8		
Drowning	4	5.8		
Other	3	4.4		
MINE AND QUARRY	27	100		0.7
Drowning	8	29.7		
Fire & explosion of combustible material	7	25.9		
Falls	4	14.8		
Mechanical suffocation	4	14.8		
Other	4	14.8		
INDUSTRIAL PLACE AND PREMISES	77	100		2.1
Falls	19	24.6		
Electric current	12	15.6		
Machinery	11	14.3		
Blow from falling object	10	13.0		
Fire & explosion of combustible material	9	11.7		
Poisoning	5	6.5		
Other	11	14.3		
RECREATION AND SPORT	26	100		0.7
Drowning	17	65.3		
Poisoning	5	19.2		
Falls	2	7.7		
Other	2	7.8		
STREET AND HIGHWAY	78	100		2.1
Falls	41	52.6		
Poisoning	11	14.1		
Electric current	7	9.0		
Machinery	6	7.7		
Fire & explosion of combustible material	4	5.1		
Other	9	11.5		
PUBLIC BUILDING	42	100		1.2
Falls	21	50.0		
Fire & explosion of combustible material	7	16.7		
Poisoning	4	9.5		
Blow from falling object	3	7.1		
Other	7	16.7		
RESIDENT INSTITUTION	101	100		2.8
Falls	77	76.2		
Inhalation & ingestion of food or other objects causing obstruction or suffocation	13	12.8		
Fire & explosion of combustible material	3	3.0		
Other	8	8.0		
OTHER SPECIFIED PLACES	225	100		6.1
Drowning	136	60.4		
Falls	24	10.7		
Firearm	20	8.9		
Electric current	9	4.0		
Blow from falling object	8	3.6		
Other	28	12.4		
PLACE NOT SPECIFIED	328	100		9.0
Falls	224	68.3		
Inhalation & ingestion of food or other objects causing obstruction or suffocation	40	12.2		
Poisoning	13	4.0		
Fire & explosion of combustible material	6	1.8		
Machinery	4	1.2		
Mechanical suffocation	4	1.2		
Other	37	11.3		
THERAPEUTIC MISADVENTURE AND LATE COMPLICATIONS, COMPLICATIONS OF NONTHERAPEUTIC PROCEDURES, LATE EFFECTS OF INJURY AND POISONING	42		1.1	



TABLE 6D - ACCIDENTAL DEATHS BY PLACE OF ACCIDENT, AGE, AND CAUSE  
MICHIGAN, 1959

(By place of residence. Cause of death classified according to Seventh Revision of International List, 1955.)

PLACE OF ACCIDENT AND AGE	ALL CAUSES	S E X		Poisoning E870- E895	Falls E900- E904	Blow from falling object E910	Machinery E912	Electric current E914	Fire and explosion E916	Hot substance, corrosive liquid, steam and radiation E917, E918	Firearm E919	Inhalation and ingestion of food or other object causing obstruct- ion or suffocation E921, E922	Mechanical suffocation E924, E925	Drowning E929	Other
		MALE	FEMALE												
NON-TRANSPORT TOTAL	1,879	1,204	675	108	822	51	62	46	247	18	50	118	80	188	89
HOME-ALL AGES	906	505	401	62	400	13	3	13	205	15	20	63	63	15	34
Under 1	123	71	52	1	3	-	-	-	9	2	-	44	60	3	1
1 - 4	87	52	35	12	8	3	-	3	34	7	-	4	3	8	5
5 - 14	69	45	24	5	5	1	1	1	35	-	8	2	-	1	10
15 - 24	24	17	7	5	1	-	-	-	9	-	4	-	-	-	5
25 - 44	80	52	28	15	17	2	-	5	32	1	3	2	-	1	2
45 - 64	138	92	46	15	59	3	2	3	36	-	4	7	-	-	9
65 & Over	385	176	209	9	307	4	-	1	50	5	1	4	-	2	2
FARM-ALL AGES	69	67	2	-	10	10	29	5	4	-	4	-	-	4	3
Under 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 - 4	4	3	1	-	-	-	2	-	1	-	-	-	-	1	-
5 - 14	5	5	-	-	1	1	2	-	-	-	-	-	-	-	1
15 - 24	9	8	1	-	1	1	3	1	1	-	-	-	-	1	1
25 - 44	17	17	-	-	2	4	6	2	-	-	1	-	-	2	-
45 - 64	16	16	-	-	1	2	8	2	1	-	2	-	-	-	-
65 & Over	18	18	-	-	5	2	8	-	1	-	1	-	-	-	1
MINE & QUARRY-ALL AGES	27	26	1	-	4	1	2	-	7	-	1	-	4	8	-
Under 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 - 4	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-
5 - 14	4	3	1	-	-	-	-	-	-	-	-	-	2	2	-
15 - 24	6	6	-	-	1	-	-	-	1	-	-	-	-	4	-
25 - 44	10	10	-	-	2	-	2	-	3	-	-	-	2	1	-
45 - 64	6	6	-	-	1	1	-	-	3	-	1	-	-	-	-
65 & Over	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
INDUSTRIAL PLACE & PREMISES-ALL AGES	77	75	2	5	19	10	11	12	9	-	1	-	2	3	5
Under 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 - 4	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-
5 - 14	3	3	-	-	-	2	-	-	-	-	1	-	-	-	-
15 - 24	9	9	-	-	1	1	1	4	1	-	-	-	-	1	-
25 - 44	26	25	1	1	5	3	4	5	5	-	-	-	1	-	2
45 - 64	34	34	-	4	10	4	6	3	3	-	-	-	-	1	3
65 & Over	4	4	-	-	3	-	-	-	-	-	-	-	1	-	-
PLACE FOR RECREATION & SPORT-ALL AGES	26	23	3	5	2	1	-	-	-	-	1	-	-	17	-
Under 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 - 4	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-
5 - 14	7	7	-	-	-	-	-	-	-	-	-	-	-	7	-
15 - 24	5	3	2	-	-	-	-	-	-	-	-	-	-	5	-
25 - 44	8	8	-	3	1	1	-	-	-	-	1	-	-	2	-
45 - 64	3	3	-	1	-	-	-	-	-	-	-	-	-	2	-
65 & Over	2	2	-	1	1	-	-	-	-	-	-	-	-	-	-
STREET & HIGHWAY-ALL AGES	78	69	9	11	41	3	6	7	4	-	1	-	2	-	3
Under 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 - 4	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1
5 - 14	3	3	-	-	1	-	-	-	1	-	1	-	-	-	-
15 - 24	10	8	2	3	2	-	1	1	1	-	-	-	2	-	-
25 - 44	19	18	1	6	3	2	2	5	-	-	-	-	-	-	1
45 - 64	18	17	1	2	9	-	3	1	2	-	-	-	-	-	1
65 & Over	27	22	5	-	26	1	-	-	-	-	-	-	-	-	-
PUBLIC BUILDING-ALL AGES	42	35	7	4	21	3	1	-	7	1	-	1	1	2	1
Under 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 - 4	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-
5 - 14	2	2	-	1	-	-	-	-	-	-	-	-	-	1	-
15 - 24	3	3	-	-	-	1	-	-	2	-	-	-	-	-	-
25 - 44	8	7	1	-	3	2	1	-	1	-	-	-	1	-	-
45 - 64	18	14	4	3	12	-	-	-	2	-	-	1	-	-	-
65 & Over	10	8	2	-	6	-	-	-	2	1	-	-	-	-	1
RESIDENT INSTITUTION-ALL AGES	101	54	47	2	77	2	-	-	3	2	-	13	1	-	1
Under 1	1	-	1	-	-	-	-	-	-	-	-	1	-	-	-
1 - 4	1	1	-	-	-	-	-	-	-	-	-	1	-	-	-
5 - 14	1	1	-	-	-	-	-	-	-	-	-	-	1	-	-
15 - 24	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-
25 - 44	7	6	1	-	1	1	-	-	-	-	-	4	-	-	1
45 - 64	13	11	2	2	6	1	-	-	-	1	-	3	-	-	-
65 & Over	77	34	43	-	70	-	-	-	2	1	-	4	-	-	-
OTHER SPECIFIED PLACES-ALL AGES	225	195	30	6	24	8	6	9	2	-	20	1	3	136	10
Under 1	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-
1 - 4	14	9	5	-	-	-	-	-	-	-	-	-	-	14	-
5 - 14	47	36	11	-	-	-	-	2	-	-	2	1	-	41	1
15 - 24	37	32	5	1	3	1	2	2	-	-	3	-	-	25	-
25 - 44	74	69	5	3	6	4	3	3	1	-	12	-	3	34	5
45 - 64	31	28	3	2	8	1	1	2	-	-	2	-	-	13	2
65 & Over	21	20	1	-	6	2	-	-	1	-	1	-	-	9	2
PLACE NOT SPECIFIED-ALL AGES	328	155	173	13	224	-	4	-	6	-	2	40	4	3	32
Under 1	31	19	12	-	-	-	-	-	-	-	-	24	3	-	4
1 - 4	16	7	9	5	4	-	-	-	-	-	-	4	-	1	2
5 - 14	2	2	-	-	-	-	1	-	1	-	-	-	-	-	-
15 - 24	5	5	-	-	1	-	-	-	-	-	1	2	-	1	1
25 - 44	18	15	3	4	3	-	2	-	1	-	-	2	1	1	4
45 - 64	35	26	9	2	18	-	1	-	1	-	-	4	-	1	8
65 & Over	221	81	140	2	198	-	-	-	3	-	1	4	-	-	13

TABLE 6E - ACCIDENTAL DEATHS BY CAUSE AND COUNTY OF RESIDENCE  
MICHIGAN, 1959

(By place of residence. Cause of death classified according to Seventh Revision of International List, 1955, Intermediate List of 150 Causes.  
Rates per 100,000 population.)

COUNTY	TOTAL		AE138 Motor vehicle accidents	AE139 Other transport accidents	AE140 Accidental poisoning	AE141 Accidental falls	AE142 Accident caused by machinery	AE143 Accident caused by fire & explosion of combustible material	AE144 Accident caused by hot substance, corrosive liquid, steam & radiation	AE145 Accident caused by firearm	AE146 Accidental drowning & submersion	AE147 All other accidental causes
	Number	Rate										
STATE	3,666	46.1	1,587	158	108	822	62	247	18	50	188	426
Alcona	5	80.3	1	-	-	2	-	-	-	-	-	2
Alger	10	105.2	3	2	1	2	-	-	-	-	-	2
Allegan	32	51.9	17	1	-	5	1	1	-	1	5	1
Alpena	24	85.9	10	3	-	6	-	2	1	-	-	2
Antrim	10	90.4	5	-	-	1	1	-	-	1	2	-
Arenac	9	91.5	5	1	-	1	-	-	-	-	-	2
Baraga	9	132.7	1	1	1	1	2	1	-	-	2	-
Barry	28	87.0	21	-	1	3	1	-	-	-	-	2
Bay	40	37.9	15	2	-	12	-	4	-	-	2	5
Benzie	10	122.9	5	-	2	-	-	-	-	-	1	2
Berrien	88	58.1	44	4	-	12	1	9	1	2	3	12
Branch	20	51.7	8	2	-	5	-	-	-	1	3	1
Calhoun	85	61.4	31	5	1	28	2	2	-	1	6	9
Cass	32	87.5	16	-	-	7	-	-	-	-	4	5
Charlevoix	12	87.8	4	2	-	1	1	1	-	1	1	1
Cheboygan	12	85.0	5	-	-	5	-	-	-	1	-	1
Chippewa	22	67.8	4	4	-	6	-	-	-	1	4	3
Clare	9	75.9	2	-	-	2	-	-	-	1	-	4
Clinton	11	30.3	5	-	1	1	1	-	-	1	-	2
Crawford	6	123.0	2	-	-	1	-	2	-	-	-	1
Delta	21	62.0	7	-	-	6	1	2	-	-	2	3
Dickinson	10	42.3	4	-	-	4	-	2	-	-	-	-
Eaton	24	46.5	16	-	1	4	1	-	-	-	-	2
Emmet	17	107.7	6	1	-	2	1	2	-	-	5	-
Genesee	171	46.1	75	14	5	27	2	18	-	2	5	23
Gladwin	2	18.9	1	-	-	-	-	1	-	-	-	-
Gogebic	11	41.8	2	-	-	1	-	1	-	1	2	4
Grand Traverse	10	29.9	-	-	1	5	-	1	1	-	1	1
Gratiot	27	73.8	13	-	-	6	2	3	-	-	1	2
Hillsdale	33	96.7	11	-	-	13	-	1	-	-	1	7
Houghton	19	54.3	6	1	-	7	-	-	-	1	4	-
Huron	25	69.8	15	-	-	5	-	-	-	4	-	1
Ingham	93	43.2	41	1	2	23	3	6	1	2	2	12
Ionia	23	53.8	8	1	2	6	1	3	-	-	1	1
Iosco	8	49.5	3	-	-	3	-	-	-	-	-	2
Iron	20	107.8	8	-	-	4	-	7	-	-	-	1
Isabella	18	53.2	10	-	-	-	1	1	1	-	1	4
Jackson	75	57.4	34	2	-	23	1	4	1	1	3	6
Kalamazoo	82	50.3	33	5	5	21	1	1	-	-	3	13
Kalkaska	3	68.2	2	-	-	1	-	-	-	-	-	-
Kent	160	44.7	69	6	4	44	4	9	1	2	10	11
Keweenaw	6	241.9	2	-	-	2	-	1	-	-	-	1
Lake	5	94.9	2	-	1	2	-	-	-	-	-	-
Lapeer	20	45.1	6	-	-	7	-	4	-	-	-	3
Leelanau	5	54.2	2	1	-	-	1	-	-	-	-	1
Lenawee	42	51.3	19	-	2	12	1	2	-	2	-	4
Livingston	29	78.3	19	-	-	3	1	3	-	1	1	1
Luce	8	103.4	3	-	-	1	-	2	-	-	-	2
Mackinac	9	84.2	6	-	-	2	-	1	-	-	-	-
Macomb	155	39.5	68	13	3	17	2	13	-	1	8	30
Manistee	11	56.6	2	-	1	3	-	1	-	-	1	3
Marquette	35	63.9	7	12	2	5	-	1	-	1	2	5
Mason	14	63.3	5	-	2	2	-	4	-	-	-	1
Mecosta	11	57.5	5	-	-	3	-	-	-	-	2	1
Menominee	14	54.0	5	1	1	1	2	1	-	-	2	1
Midland	20	40.1	7	-	-	4	1	2	-	-	1	5
Missaukee	11	154.1	4	-	1	2	1	1	-	-	-	2
Monroe	64	64.3	27	4	2	7	-	3	-	-	6	15
Montcalm	20	54.2	8	-	1	6	-	2	-	-	1	2
Montmorency	4	91.7	3	-	-	-	-	-	-	-	-	1
Muskegon	74	49.9	37	9	3	13	-	4	1	1	2	4
Newaygo	13	52.8	10	-	-	1	-	1	-	-	-	1
Oakland	243	35.5	125	12	12	37	4	20	1	5	12	15
Oceana	9	54.7	4	1	-	1	1	-	-	-	-	2
Ogemaw	6	64.1	1	-	-	2	-	-	-	-	-	3
Ontonagon	10	93.5	3	-	-	1	1	-	-	1	2	2
Osceola	15	109.3	6	1	-	3	-	-	-	1	-	4
Oscoda	6	182.4	5	-	-	-	-	-	-	-	-	1
Otsego	6	82.1	4	-	1	-	-	-	-	-	-	1
Ottawa	40	40.8	22	1	4	2	-	1	-	-	4	6
Presque Isle	15	116.2	7	1	-	3	-	-	-	-	1	3
Roscommon	2	28.5	1	-	-	-	1	-	-	-	-	-
Saginaw	86	45.8	50	1	1	14	1	2	-	1	-	8
St. Clair	60	57.7	26	1	2	13	1	3	-	-	8	4
St. Joseph	20	43.9	5	2	-	9	-	-	-	-	4	10
Sanilac	20	58.0	7	1	-	2	1	3	-	-	1	5
Schoolcraft	8	89.1	3	-	-	1	-	-	-	-	4	-
Shiawassee	28	50.3	15	-	-	7	1	1	-	1	1	2
Tuscola	36	78.7	21	-	1	10	-	1	-	1	-	2
Van Buren	43	83.8	17	1	1	13	2	1	-	-	2	6
Washtenaw	77	45.8	30	2	1	18	2	4	-	3	5	12
Wayne	1,029	36.4	414	36	39	282	10	81	9	7	44	107
Wexford	11	60.1	6	-	-	5	-	-	-	-	-	-

TABLE 7A - DEATHS BY INTERMEDIATE LIST OF CAUSES, SEX, AND AGE  
MICHIGAN, 1959

(By place of residence. Exclusive of fetal deaths. Cause of death classified according to Seventh Revision of International List, 1955, Intermediate List of 150 Causes with additional subdivisions indicated by detailed list numbers. Rates per 100,000 population.)

CAUSE OF DEATH	Int. List No.	Total	Sex		AGE IN YEARS																			85	90 and Over	Not Stated	
			Number	Rate	Under 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84					
					Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year				Year
ALL CAUSES		66,812	839.3	38,763	28,049	4,846	674	397	315	454	494	548	802	1,116	1,685	2,561	3,540	4,767	6,182	8,143	8,885	8,253	6,722	4,272	2,153	3	
TUBERCULOSIS, ALL FORMS	A 1-A 5	370	4.6	275	95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tuberculosis of respiratory system	A 1	335	4.2	253	82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tuberculosis of meninges and central nervous system	A 2	6	0.1	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tuberculosis of intestines, peritoneum and mesenteric glands	A 3	6	0.1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tuberculosis of bones and joints	A 4	2	0.0	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tuberculosis, all other forms	A 5	21	0.3	14	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SYPHILIS, ALL FORMS	A 6-A10	84	1.1	60	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Congenital syphilis	A 6	4	0.1	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tabes dorsalis	A 8	4	0.1	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
General paresis of insane	A 9	9	0.1	6	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
All other syphilis	A10	67	0.8	51	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Conococcal infection	A11	4	0.1	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Typhoid fever	A12	1	0.0	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Paratyphoid fever and other Salmonella infections	A13	1	0.0	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Brucellosis (undulant fever)	A15	7	0.1	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dysentery, all forms	A16	2	0.0	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Scarlet fever	A17	7	0.1	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Streptococcal sore throat	A18	62	0.8	35	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Septicemia and pyemia	A20	1	0.0	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Diphtheria	A21	5	0.1	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Whooping cough	A22	31	0.4	15	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Meningococcal infections	A23	3	0.0	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetanus	A26	17	0.2	13	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acute poliomyelitis	A28	1	0.0	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acute infectious encephalitis	A29	24	0.3	11	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Late effects of acute poliomyelitis and acute infectious encephalitis	A30	16	0.2	7	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Measles	A32	11	0.1	6	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Infectious hepatitis	A34	42	0.5	19	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
All other diseases classified as infective and parasitic	A43	44	0.6	24	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MALIGNANT NEOPLASMS, ALL FORMS	A44-A59	11,113	139.6	6,114	4,999	11	85	56	50	41	48	73	139	208	367	651	869	1,205	1,462	1,692	1,597	1,247	822	376	114	8	
Malignant neoplasm of buccal cavity and pharynx	A44	241	3.0	190	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Malignant neoplasm of esophagus	A45	214	2.7	173	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Malignant neoplasm of stomach	A46	965	12.1	636	329	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Malignant neoplasm of intestine, except rectum	A47	1,211	13.2	585	626	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Malignant neoplasm of rectum	A48	487	6.1	288	199	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Malignant neoplasm of larynx	A49	90	1.1	76	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Malignant neoplasm of trachea, and of bronchus and lung not specified as secondary	A50	1,532	19.2	1,318	214	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Malignant neoplasm of breast	A51	975	12.2	9	966	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Malignant neoplasm of cervix uteri	A52	353	4.4	-	353	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Malignant neoplasm of other and unspecified parts of uterus	A53	258	3.2	-	258	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Malignant neoplasm of prostate	A54	644	8.1	644	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Malignant neoplasm of skin	A55	123	1.5	78	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Malignant neoplasm of bone and connective tissue	A56	123	1.5	58	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Malignant neoplasm of all other and unspecified sites	A57	2,877	36.1	1,486	1,391	7	43	25	16	15	13	23	32	53	104	161	225	312	374	453	402	309	202	86	22	3	
Leukemia and aplenkemia	A58	475	6.0	277	198	3	30	26	16	13	10	12	19	27	43	59	74	93	114	131	147	163	179	194	209	224	
Lymphosarcoma and other neoplasms of lymphatic and hematopoietic system	A59	545	6.8	316	229	-	7	2	6	7	14	11	11	18	28	48	48	65	69	86	57	42	17	7	2	-	
Benign neoplasms and neoplasms of unspecified nature	A60	183	2.3	68	115	6	4	4	7	2	8	5	4	15	7	22	12	20	9	18	16	12	8	1	3	-	
Nontoxic goiter	A61	4	0.1	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thyrotoxicosis with or without goiter	A62	26	0.3	6	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Diabetes mellitus	A63	1,715	21.5	702	1,013	2	4	4	3	6	7	21	23	36	46	74	135	210	309	375	264	168	59	17	-	-	
Avitaminosis and other deficiency states	A64	50	0.6	25	25	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Anemias	A65	138	1.7	61	77	2	8	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Allergic disorders; all other endocrine, metabolic and blood diseases	A66	443	5.6	273	170	28	13	3	3	5	4	8	12	19	15	32	37	36	52	57	44	26	3	2	-	-	
Psychoses	A67	64	0.8	38	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Psychoneuroses and disorders of personality	A68	83	1.0	65	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mental deficiency	A69	22	0.3	12	10	7	4	4	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vascular lesions affecting central nervous system	A70	7,700	96.7	3,754	3,946	1	6	7	7	5	10	14	41	50	122	154	248	357	546	896	1,259	1,405	1,285	862	424	1	



























































TABLE 8 - DEATHS BY CAUSE AND RESIDENCE (Continued)

AREA	Total	MALIGNANT NEOPLASMS																															
		A44 Buccal cavity & pharynx	A45 Esophagus	A46 Stomach	A47 Intestine, except rectum	A48 Rectum	A49 Larynx	A50 Trachea, not specified as secondary	A51 Breast	A52 Cervix uteri	A53 Other & un- specified uterus	A54 Prostate	A55 Skin	A56 Bone & con- nective tissue	A57 All other & unspecified sites	A58 Leukemia & lymphatic & hema- topoietic system	A60 Benign neoplasms & neoplasms un- specified nature	A61 Non toxic goiter	A62 Thyrotoxicosis with or without goiter	A63 Diabetes mellitus	A64 Arteriosclerosis & other deficiency states	A65 Anemias	A66 Allergic disorders; all other endo- crine, metabolic & blood diseases	A67 Psychoses	A68 Disorders of personality	A69 Mental deficiency	A70 Vascular lesions affecting central nervous system	A71 Meningococcal meningitis	A72 Multiple sclerosis	A73 Epilepsy	A75 Cataract		
CLINTON	47				11	3									2						11												
St. Johns	8		1		1				2			1	1		14				1														
Balance of County	39				8	3			1		1	1			12	2					2												
CRAWFORD	11																																
DELTA	66			12				4	5	4	3	5		23	2			2			2												
Escanaba	33		2	12		1		4	5	4	3	5		14	2						9												
Gladstone	10		1	2	1			3	1	1	2	3		3	1						4												
Balance of County	23		1	4	1			1	1	1	2	1		6	1					1													
DICKINSON	42			6	4			6	5	1	4	4		8	2						5												
Iron Mountain	18			2	3			1	2	1	3	1		5	1						2												
Kingsford	7				1			1	1	1	1	1		1	1						1												
Norway	4				1			1	2	1	1	2		1	1						1												
Balance of County	13			1				5	2	1	1	1		1	1						1												
EATON	70			5	10	1		5	11	4	6	2	1	16	2						12												
Charlotte	17			3	3			1	1	1	3	1		4	2						1												
Eaton Rapids	17			3	3			1	1	1	3	1		2	1						1												
Grand Ledge	5							1	1	1				2							1												
Balance of County	43			1	6	1		3	8	5	3	1	1	8	2						9												
EMMET	33			1	4			5	1	2	2	2		8	1						3												
Petoskey	11				1			2	1	1	1	1		1	1						1												
Balance of County	22			1	3			3	1	1	1	1		6	1						2												
GENESEE	458			8	37	35	12	77	36	21	29	5	5	112	19						58												
Flint	236			5	27	21	7	46	23	15	18	2	3	74	13						34												
Fenton	9							2	2	1	1	1	1	1	1						1												
Mount Morris	5							2	1	1				1	1						1												
Balance of County	148			1	10	14	1	28	11	6	11	2	1	34	5						22												
GLADWIN	7																																
GOGHEIC	40			1	4			7	2	1	3	1		10	1						7												
Ironwood	23			1	1			6	1	1	1	1		1	1						3												
Bessemer	3							1	1					1	1						2												
Wakefield	5								1					2							2												
Balance of County	9			1	2			1	1	1	1	1		2							3												
GRAND TRAVERSE	39			1	1	3		3	4	2	5	5		9	3						6												
Traverse City	21			1	1	3		3	3	2	4	4		4	1						2												
Balance of County	18					4		1	1	1	1	1		5	2						4												
GRATIOT	54			5	10	3		4	3	2	2	1		11	5						11												
Alma	11			1				1	1	1	1	1		4	2						4												
St. Louis	7					1		1	1					1	1						1												
Balance of County	36			4	9	1		3	2	1	1	1		6	4						8												
HILLSDALE	51			1	3	5		7	2	2	1	2	1	16	7						9												
Hilledale	15				2	1		2	1	2	1	2	1	5	3						1												
Balance of County	36			1	3	3		5	1	2	1	2	1	11	4						8												
HOUGHTON	92			14	9	5		7	10	2	7	8		24	3						11												
Hancock	12			3	1	1		1	3	1	1	1		4	1						2												
Houghton	11				1			1	2	1	1	2		4	1						1												
Leautaud	8					2		1	1	2	1	2		2	1						1												
Balance of County	61			10	6	5		6	4	1	3	4		18	2						7												
HURON	64			5	8	4		3	10	3	8	1	2	10	2						10												
Bad Axe	5			1	1	1		1	1	1	1	2	1	10	2						1												
Balance of County	59			4	7	3		3	9	2	3	8	1	10	2						10												
INGHAM	258			7	4	19		22	22	11	6	15	4	81	9						23												
Lansing	162			5	3	11		18	10	5	2	10	1	58	4						17												
East Lansing	14			1	1			1	1	3	1	1		5	1						3												
Mason	9				1			1	1	1	1	1		1	1						1												
Balance of County	73			1	1	6		3	8	6	4	4	3	14	5						6												
IONIA	39			7	8	1		6	2		3	3		8	3						19												
Belding	3				2			1	1	1	1	1		1	1						1												
Ionia	7				3			1	1	1	1	1		1	1						3												
Portland	6				1	1		1	1	1	1	1		1	1						6												
Balance of County	23			1	3	3		5	1	1	1	1		5	1						8												







TABLE 8 - DEATHS BY CAUSE AND RESIDENCE (Continued)

AREA	MALIGNANT NEOPLASMS														Total																
	A44 Buccal cavity & pharynx	A45 Esophagus	A46 Stomach	A47 Intestine, except rectum	A48 Rectum	A49 Larynx	A50 Trachea, bronchus & lung, not specified as secondary	A51 Breast	A52 Cervix uteri	A53 Other & unspecified parts of uterus	A54 Prostate	A55 Skin	A56 Bone & connective tissue	A57 All other & unspecified sites		A58 Leukemia & lymphomas & other neoplasms of lymphatic & hematopoietic system	A59 Benign neoplasms & unspecified nature	A61 Noncervix gopher	A62 Thyrotoxicosis with or without gopher	A63 Diabetes mellitus	A64 Atrial fibrillation & other deficiency states	A65 Anemias	A66 Allergic disorders; all other endocrine, metabolic & blood diseases	A67 Psychoses	A68 Psychoneuroses & disorders of personality	A69 Mental deficiency	A70 Vascular lesions affecting central nervous system	A71 Nonmeningeal meningitis	A72 Multiple sclerosis	A73 Epilepsy	A75 Cataract
SAGINAW	103	100	405	444	190	42	628	335	139	88	216	41	40	1,066	162	137	58	2	11	657	15	51	20	41	9	2,332	30	29	34	2	4,191
Detroit	84	74	299	352	136	32	459	231	105	64	163	36	30	792	97	137	42	1	4	486	11	40	113	19	5	1,797	21	23	28	2	3,071
Dearborn	5	1	16	23	12	2	12	12	3	2	7	1	2	43	12	10	2	1	1	25	1	2	4	1	1	80	1	1	1	1	177
Ramtrunk	1	1	12	13	7	2	10	4	3	2	3	1	2	14	3	4	1	1	1	22	1	1	3	1	1	49	1	1	1	1	81
Highland Park	103	3	12	13	7	2	10	10	3	8	3	1	2	28	4	8	3	1	1	11	1	1	5	1	1	56	1	1	1	1	103
Lincoln Park	77	4	4	13	2	1	11	10	1	1	2	1	2	12	4	5	3	2	1	14	1	1	1	1	1	31	1	1	1	1	77
Wyandotte	74	1	4	0	3	1	13	9	1	1	2	1	1	18	4	3	2	1	1	9	1	1	1	1	1	35	1	1	1	1	74
Allen Park	23	1	11	7	1	1	6	1	1	1	1	1	1	5	2	1	1	1	1	3	1	1	1	1	1	10	1	1	1	1	23
Allen Park	23	1	2	3	1	1	5	1	1	1	1	1	1	5	2	1	1	1	1	6	1	1	1	1	1	10	1	1	1	1	23
Ecorse	30	2	1	5	1	1	2	2	1	2	1	1	1	9	3	2	1	1	1	2	1	1	1	1	1	17	1	1	1	1	30
Grosse Pte. Park	30	1	1	3	2	1	7	2	1	2	3	1	1	3	4	2	1	1	1	6	1	1	1	1	1	10	1	1	1	1	30
Grosse Pte. Woods	34	1	2	2	1	1	6	2	1	2	5	1	1	11	4	3	1	1	1	6	1	1	1	1	1	22	2	2	1	1	34
Inster	46	1	4	6	1	1	6	8	2	2	5	1	1	11	4	3	1	1	1	6	1	1	1	1	1	14	1	1	1	1	46
Livonia	28	1	2	3	1	1	3	1	3	2	2	1	1	3	1	2	1	1	1	4	1	1	1	1	1	11	1	1	1	1	28
River Rouge	28	1	2	3	1	1	3	1	3	2	2	1	1	3	1	2	1	1	1	4	1	1	1	1	1	13	1	1	1	1	28
Garden City	19	1	2	2	2	1	4	1	1	1	1	1	1	3	1	2	1	1	1	4	1	1	1	1	1	6	1	1	1	1	19
Grosse Pointe	20	1	2	3	1	1	4	1	1	1	1	1	1	8	4	2	1	1	1	4	1	1	1	1	1	11	1	1	1	1	20
Grosse Pte. Farms	22	1	1	1	1	1	3	2	1	1	1	1	1	4	3	1	1	1	1	4	1	1	1	1	1	6	1	1	1	1	22
Northville (Part)	44	1	1	1	1	1	3	1	1	1	1	1	1	6	2	1	1	1	1	4	1	1	1	1	1	13	1	1	1	1	44
Northville	23	1	1	1	1	1	3	1	1	1	1	1	1	6	2	1	1	1	1	4	1	1	1	1	1	12	1	1	1	1	23
Plymouth	19	1	1	1	1	1	3	1	1	1	1	1	1	6	2	1	1	1	1	4	1	1	1	1	1	4	1	1	1	1	19
Trencon	31	1	4	1	2	1	6	6	1	1	1	1	1	11	1	1	1	1	1	6	2	4	1	1	1	10	1	1	1	1	31
Wayne	255	2	8	24	21	6	43	29	11	5	11	1	1	71	14	6	4	1	3	32	2	4	1	1	1	119	4	1	1	2	255
Balance of County	27	1	3	1	2	1	4	3	1	1	2	1	1	8	2	2	1	1	1	5	1	1	1	1	1	21	1	1	1	1	27
WEEKFORD	18	1	2	1	1	1	3	1	1	1	2	1	1	4	2	1	1	1	1	4	1	1	1	1	1	11	1	1	1	1	18
Cadillac	9	1	2	1	1	1	3	1	1	1	2	1	1	4	2	1	1	1	1	4	1	1	1	1	1	11	1	1	1	1	9
Balance of County	9	1	2	1	1	1	3	1	1	1	2	1	1	4	2	1	1	1	1	4	1	1	1	1	1	11	1	1	1	1	9





TABLE 8 - DEATHS BY CAUSE AND RESIDENCE (Continued)

Table with columns for AREA, HEART DISEASE, PNEUMONIA, and various cause codes (A77-A103). Rows list areas such as IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEEWENAW, LAKE, LAPEER, LEECLANAU, LEMAREE, LIVINGSTON, LUCE, MACKINAC, MACOMB, MANISTEE, MARQUETTE, and MASON.







TABLE 8 - DEATHS BY CAUSE AND RESIDENCE (Continued)

AREA	NEPHRITIS & NEPHROSIS							MATERNAL DEATHS							CONGENITAL MALFORMATIONS													
	A104 Gastro-enteritis & colitis, except diarrhoea of newborn	A105 Cirrhosis of liver	A106 Cholelithiasis & cholecystitis	A107 Other diseases of digestive system	Total	A108 Acute nephritis	A109 Chronic, other nephritis & unspecified nephritis with edema, including nephroses	A110 Infections of kidney	A111 Calculi of urinary system	A112 Hypertlasis of prostate	A114 Other diseases of genito-urinary system	Total	A115 Septis of pregnancy, chlidbirth & puerperium	A116 Tokemias of pregnancy & puerperium	A117 Hemorrhage of pregnancy & chlidbirth	A118 Abortion without mention septis or tokemias	A119 Abortion with septis	A120 Other complications of pregnancy, chlidbirth & puerperium	A121 Infections of skin & subcutaneous tissue	A122 Arthritis & spondylitis	A123 Muscular rheumatism & rheumatism unspecified	A124 Osteomyelitis & periostitis	A125 Ankylosis & acquired musculoskeletal deformities	A126 All other diseases of skin & musculoskeletal system	Total	A127 Spina bifida & meningocele	A128 Congenital malformations of circulatory system	A129 All other congenital malformations
CLINTON St. Johns Balance of County	1	1	3	1	1	1	1	3	1	2	2	1	1	1	1	1	1	1	2	1	1	1	1	5	3	2	2	
CRAWFORD	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	5	2	2	1	
DELTA	3	1	1	4	2	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	
ESCANABA Gladstone Balance of County	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
DICKINSON Iron Mountain Kingsford Norway Balance of County	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6	2	1	1	
EATON Charlotte	2	1	1	1	3	3	3	3	2	5	1	1	1	1	1	1	1	1	1	1	1	1	1	7	3	3	4	
EATON Rapids	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Grand Ledge Balance of County	1	1	1	1	1	3	3	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
EMMET	1	1	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	
Potosky Balance of County	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	
GENESSEE Flint	16	21	10	12	20	19	19	9	11	11	5	2	1	1	1	1	1	1	1	1	1	1	1	56	3	27	24	
Montmorris	8	14	8	5	14	13	13	5	6	6	3	1	1	1	1	1	1	1	1	1	1	1	1	28	1	17	10	
Balance of County	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
GLADWIN	6	7	1	7	6	6	6	3	5	5	2	1	1	1	1	1	1	1	1	1	1	1	1	24	2	9	13	
GOCELIK Ironwood	1	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	
Bessemer	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Wakefield	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Balance of County	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
GRAND TRAVERSE Traverse City	2	2	2	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	3	2	1	
Balance of County	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	
GRATIOT Alma	1	1	2	4	4	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	5	2	2	
Balance of County	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	4	1	1	
HILLSDALE Hillsdale	2	3	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	4	1	1	
Balance of County	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	4	1	1	
HOUGHTON Hancock	3	8	4	1	5	5	5	1	2	2	3	1	1	1	1	1	1	1	1	1	1	1	1	5	4	1	1	
Houghton	2	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	4	1	1	
Laurium	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	
Balance of County	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	
HURON Bad Axe	1	3	2	1	3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	4	1	1
Balance of County	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	4	1	1
INGHAM Lexing	11	12	9	9	13	13	6	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	23	1	10	12	
East Lansing	7	10	6	4	12	12	6	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	4	1	5	7	
Mason	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Balance of County	3	2	2	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	2	
IONIA Belding	1	1	1	2	6	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ionia	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Portland	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Balance of County	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	





















TABLE 9 - LEADING CAUSES OF DEATH BY AGE GROUP  
MICHIGAN, 1959

(Leading causes in each age group selected on the basis of the Intermediate List of 150 Causes with subdivisions of causes A81, A85, A109, A132, and A135.)

Under 1 Year			1 - 4			5 - 14		
Cause of Death	Number	%	Cause of Death	Number	%	Cause of Death	Number	%
All Causes	4,846	100	All Causes	674	100	All Causes	712	100
Immaturity	1,200	24.8	Accidents	184	27.3	Accidents	293	41.2
Postnatal asphyxia & atelectasis	829	17.1	Congenital malformations	95	14.1	Malignant neoplasms	106	14.9
Congenital malformations	737	15.2	Pneumonia & influenza	94	13.9	Congenital malformations	72	10.1
Pneumonia & influenza (includes pneumonia of newborn)	555	11.5	Malignant neoplasms	85	12.6	Pneumonia & influenza	30	4.2
Birth injuries	548	11.3	Gastro-enteritis & colitis	17	2.5	Vascular lesions of central nervous system	14	2.0

15 - 24			25 - 34			35 - 44		
Cause of Death	Number	%	Cause of Death	Number	%	Cause of Death	Number	%
All Causes	948	100	All Causes	1,350	100	All Causes	2,801	100
Accidents	467	49.3	Accidents	388	28.7	Diseases of heart	707	25.2
Malignant neoplasms	89	9.4	Malignant neoplasms	212	15.7	Malignant neoplasms	575	20.5
Suicide	52	5.5	Diseases of heart	142	10.5	Accidents	366	13.1
Homicide	34	3.6	Suicide	94	7.0	Vascular lesions of central nervous system	172	6.1
Diseases of heart	33	3.5	Homicide	65	4.8	Suicide	123	4.4

45 - 54			55 - 64			65 & Over*		
Cause of Death	Number	%	Cause of Death	Number	%	Cause of Death	Number	%
All Causes	6,101	100	All Causes	10,949	100	All Causes	38,431	100
Diseases of heart	2,261	37.1	Diseases of heart	4,661	42.6	Diseases of heart	17,502	45.5
Malignant neoplasms	1,520	24.9	Malignant neoplasms	2,667	24.4	Vascular lesions of central nervous system	6,132	16.0
Vascular lesions of central nervous system	402	6.6	Vascular lesions of central nervous system	903	8.2	Malignant neoplasms	5,848	15.2
Accidents	356	5.8	Accidents	380	3.5	Arteriosclerosis	1,307	3.4
Suicide	205	3.4	Diabetes	345	3.2	Diabetes	1,142	3.0

\*Includes 3 deaths of unknown age.



TABLE 10 - DEATHS UNDER 5 YEARS BY CAUSE AND DETAILED AGE (Continued)

CAUSE OF DEATH	Int. List No.	Under 5 Yrs	Under 1 Day	DAYS			Under 1 Wk	DAYS			Under 4 Wks	MONTHS												Under 1 Yr	YEARS			
				1	2	3-6		7-13	14-20	21-27		1	2	3	4	5	6	7	8	9	10	11	1		2	3	4	
																												1
PNEUMONIA, ALL FORMS	A 89-A 91	480	-	-	-	-	-	-	-	-	-	103	90	78	33	31	17	15	10	6	4	6	393	46	27	9	5	
Lobar pneumonia	A 89	29	-	-	-	-	-	-	-	-	-	5	6	1	3	3	2	2	1	1	1	1	22	3	1	1	2	
Bronchopneumonia	A 90	161	-	-	-	-	-	-	-	-	-	32	25	27	8	10	2	7	3	3	2	1	120	19	16	5	1	
Primary atypical, other and unspecified pneumonia	A 91	290	-	-	-	-	-	-	-	-	-	66	59	50	22	18	13	8	7	2	2	4	251	24	10	3	2	
Acute bronchitis	A 92	31	-	-	-	-	-	-	-	-	-	3	3	4	3	1	1	1	1	2	1	1	28	2	-	1	-	
Bronchitis, chronic and unqualified	A 93	16	-	-	-	-	-	-	-	-	-	3	2	1	3	1	1	1	1	1	1	1	14	1	-	1	-	
Hypertrophy of tonsils and adenoids	A 94	3	-	-	-	-	-	-	-	-	-	6	7	6	2	2	3	2	2	1	1	1	37	5	2	2	1	
All other respiratory diseases	A 97	47	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	35	2	-	1	-	
Ulcer of stomach	A 99	2	-	-	-	-	-	-	-	-	-	27	5	1	1	1	1	1	1	1	1	1	35	1	-	1	-	
Intestinal obstruction and hernia	A 103	38	-	-	-	-	-	-	-	-	-	13	6	5	8	6	6	3	4	5	6	4	66	11	1	4	1	
Gastro-enteritis and colitis, except diarrhea of the newborn	A 104	83	-	-	-	-	-	-	-	-	-	11	1	1	1	1	1	1	1	1	1	1	2	2	1	-	-	
Cirrhosis of liver	A 105	3	-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	6	6	6	6	19	3	4	3	2	
Other diseases of digestive system	A 107	31	-	-	-	-	-	-	-	-	-	11	2	1	1	1	1	1	1	1	1	1	19	3	4	3	2	
NEPHRITIS & NEPHROSIS, ALL FORMS	A 108-A 109	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	1	1	
Chronic, other and unspecified nephritis	A 109	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	1	1	
591 Nephritis with edema, including nephrosis		6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	1	1	
592-594 Chronic & unspecified nephritis & other renal sclerosis		2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	
Infections of kidney	A 110	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other diseases of genito-urinary system	A 114	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arthritis and spondylitis	A 122	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ankylosis and acquired musculoskeletal deformities	A 125	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
All other diseases of skin and musculoskeletal system	A 126	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	1	1	-	-	
CONGENITAL MALFORMATIONS, ALL FORMS	A 127-A 129	832	195	60	49	68	372	48	38	27	485	78	47	30	21	20	17	7	9	8	9	6	737	55	19	13	8	
Spina bifida and meningocele	A 127	71	21	3	2	28	2	2	5	5	40	10	5	4	4	2	2	2	2	1	1	1	64	6	-	1	1	
Congenital malformations of circulatory system	A 128	402	45	38	32	38	153	26	17	12	208	36	28	17	16	13	10	2	6	3	7	4	350	29	10	9	4	
All other congenital malformations	A 129	359	129	20	14	28	191	20	16	10	237	32	14	9	5	5	5	5	3	5	1	2	323	20	9	4	3	
Birth injuries	A 130	548	379	72	46	39	536	6	1	2	545	1	-	-	-	-	-	-	-	-	-	-	548	-	-	-	-	
Postnatal asphyxia and atelectasis	A 131	830	513	148	69	65	795	19	4	4	820	4	1	2	-	-	-	-	-	-	-	-	829	1	-	-	-	
Infections of the newborn	A 132	189	21	16	18	37	92	41	28	26	187	2	-	-	-	-	-	-	-	-	-	-	189	-	-	-	-	
763 Pneumonia of newborn		147	19	14	13	24	70	30	23	24	147	-	-	-	-	-	-	-	-	-	-	-	147	-	-	-	-	
764 Diarrhea of newborn		9	-	-	-	1	1	4	1	2	9	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-	
765-768 Other infections of newborn		33	2	2	5	12	21	7	1	2	31	2	-	-	-	-	-	-	-	-	-	-	33	-	-	-	-	
Hemolytic disease of newborn	A 133	117	90	8	7	12	117	2	-	-	117	-	-	-	-	-	-	-	-	-	-	-	117	-	-	-	-	
All other defined diseases of early infancy	A 134	65	24	9	3	10	46	2	2	-	50	3	3	4	3	2	-	-	-	-	-	-	65	-	-	-	-	
Ill-defined diseases peculiar to early infancy, and immaturity unqualified	A 135	1,378	898	190	111	104	1,303	44	7	2	1,356	16	2	1	1	1	1	1	1	1	1	1	1,377	1	-	-	-	
773 Ill-defined diseases		177	86	35	32	16	169	5	1	1	176	-	-	-	-	-	-	-	-	-	-	-	177	-	-	-	-	
774-776 Immaturity		1,201	812	155	79	88	1,134	39	6	1	1,180	16	1	1	1	1	1	1	1	1	1	1	1,200	1	-	-	-	
Ill-defined and unknown causes of mortality	A 137	13	2	-	1	3	6	-	-	-	6	2	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	
ACCIDENTS, ALL FORMS	AE138-AE147	363	2	-	-	-	2	4	4	6	21	34	32	16	17	11	10	12	10	6	6	4	179	60	47	46	31	
Motor vehicle accidents	AE138	71	-	-	-	-	-	-	-	-	-	5	1	1	1	4	4	1	-	1	2	2	21	11	14	13	12	
Other transport accidents	AE139	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	1	2	
Accidental poisoning	AE140	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	3	2	1	
Accidental falls	AE141	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5	3	3	1	
Accident caused by machinery	AE142	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
Accident caused by fire and explosion of combustible material	AE143	44	-	-	-	-	-	-	-	-	-	1	1	1	1	2	1	1	2	-	-	-	9	7	7	13	8	
Accident caused by hot substance, corrosive liquid, steam, and radiation	AE144	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	2	1	-	
Accidental drowning and submersion	AE146	31	1	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	3	10	9	5	4	
All other accidental causes	AE147	165	1	-	-	-	-	3	6	7	19	28	30	15	15	5	4	9	6	3	2	2	138	11	6	7	3	
Homicide and injury purposely inflicted by other persons (not in war)	AE149	19	5	-	-	-	-	5	-	1	6	-	-	-	-	-	-	-	-	-	-	-	8	4	4	1	2	



TABLE 11 - DEATHS UNDER 5 YEARS BY DETAILED AGE AND RESIDENCE (Continued)

AREA	Under 5 Yrs		D A Y S			Under 1 Wk	D A Y S			Under 4 Wks	M O N T H S											Under 1 Yr	Y E A R S			
	Under 1 Day		1	2	3-6		7-13	14-20	21-27		1	2	3	4	5	6	7	8	9	10	11		1	2	3	4
GLADWIN	7	3	-	-	-	3	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	4	2	1	-	-
GOGEBIC	11	5	-	2	-	7	1	-	-	8	-	1	-	-	-	-	-	-	-	-	-	9	1	-	1	-
Ironwood	4	-	-	2	-	2	1	-	-	3	-	1	-	-	-	-	-	-	-	-	-	4	-	-	-	-
Bessemer	1	1	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Wakefield	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Balance of County	6	4	-	-	-	4	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	4	1	-	1	-
GRAND TRAVERSE	14	8	-	1	-	9	-	-	-	9	1	1	-	2	-	-	-	-	-	1	-	14	-	-	-	-
Traverse City	9	6	-	1	-	7	-	-	-	7	1	-	-	1	-	-	-	-	-	-	-	9	-	-	-	-
Balance of County	5	2	-	-	-	2	-	-	-	2	-	1	-	1	-	-	-	-	-	1	-	5	-	-	-	-
GRATIOT	22	4	1	1	3	9	3	1	-	13	-	-	1	-	-	1	-	1	-	1	-	17	2	1	2	-
Alma	5	1	-	1	-	2	1	-	-	3	-	-	1	-	-	-	-	-	-	-	-	5	-	-	-	-
St. Louis	2	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Balance of County	15	3	1	-	3	7	1	1	-	9	-	-	-	-	-	-	-	1	-	1	-	11	2	1	1	-
HILLSDALE	22	10	2	2	1	15	-	-	-	15	3	1	-	-	-	-	-	1	-	-	-	20	1	1	-	-
Hillsdale	3	2	-	1	-	3	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-
Balance of County	19	8	2	1	1	12	-	-	-	12	3	1	-	-	-	-	-	1	-	-	-	17	1	1	-	-
HOUGHTON	26	8	1	2	2	13	2	-	-	15	2	-	2	-	-	2	2	-	-	-	-	23	2	-	1	-
Hancock	2	2	-	-	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
Houghton	5	2	1	-	-	3	1	-	-	4	1	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-
Laurium	6	1	-	1	1	3	1	-	-	4	-	-	-	-	-	1	1	-	-	-	-	6	-	-	-	-
Balance of County	13	3	-	1	1	5	-	-	-	5	1	-	2	-	-	1	1	-	-	-	-	10	2	-	1	-
HURON	18	8	1	2	-	11	-	-	-	11	1	1	3	-	-	1	-	-	-	-	-	17	1	-	-	-
Bad Axe	1	-	-	1	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Balance of County	17	8	1	1	-	10	-	-	-	10	1	1	3	-	-	1	-	-	-	-	-	16	1	-	-	-
INGHAM	160	52	22	8	12	94	8	-	1	103	8	4	4	4	1	6	3	-	1	-	1	135	9	6	6	4
Lansing	84	31	13	6	7	57	3	-	-	60	3	2	3	1	-	4	1	-	1	-	-	75	3	3	1	2
East Lansing	16	4	3	1	2	10	2	-	-	12	-	-	-	-	-	-	1	-	-	-	-	13	1	-	1	1
Mason	2	1	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-
Balance of County	58	16	6	1	3	26	3	-	1	30	5	2	1	3	1	2	1	-	-	-	1	46	4	3	4	1
IONIA	30	13	5	2	-	20	-	1	1	22	3	1	-	-	1	-	-	-	-	-	1	28	2	-	-	-
Belding	7	4	-	-	-	4	-	1	-	5	-	1	-	-	-	-	-	-	-	-	1	7	-	-	-	-
Ionia	2	1	-	-	-	1	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
Portland	5	2	-	1	-	3	-	-	-	3	-	-	-	-	1	-	-	-	-	-	-	4	1	-	-	-
Balance of County	16	6	5	1	-	12	-	-	1	13	2	-	-	-	-	-	-	-	-	-	-	15	1	-	-	-
IOSCO	12	7	-	1	-	8	-	-	-	8	2	-	-	1	1	-	-	-	-	-	-	12	-	-	-	-
IRON	5	1	1	2	-	4	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	4	-	-	1	-
Iron River	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Balance of County	5	1	1	2	-	4	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	4	-	-	1	-
ISABELLA	21	10	-	4	-	14	1	-	-	15	1	-	-	1	-	1	-	1	-	-	-	19	1	-	1	-
Mount Pleasant	6	3	-	1	-	4	1	-	-	5	1	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-
Balance of County	15	7	-	3	-	10	-	-	-	10	-	-	-	1	-	1	-	1	-	-	-	13	1	-	1	-
JACKSON	115	53	8	6	10	77	3	4	1	85	2	4	2	1	2	1	-	1	-	-	1	99	6	6	2	2
Jackson	60	33	6	3	3	45	2	-	-	47	1	-	-	1	1	-	1	-	-	-	1	52	3	2	1	2
Balance of County	55	20	2	3	7	32	1	4	1	38	1	4	2	-	1	1	-	-	-	-	-	47	3	4	1	-
KALAMAZOO	110	38	13	3	10	64	3	3	1	71	10	2	1	5	1	2	-	-	2	-	2	96	7	3	2	2
Kalamazoo	56	19	5	2	5	31	-	1	1	33	5	1	1	3	1	1	-	-	1	-	1	47	4	3	1	1
Balance of County	54	19	8	1	5	33	3	2	-	38	5	1	-	2	-	1	-	-	-	-	1	49	3	-	1	1
KALKASKA	2	1	-	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	2	-	-	-	-
KENT	215	95	20	11	14	140	9	-	3	152	11	9	4	3	5	-	4	3	1	1	-	193	11	4	2	5
Grand Rapids	118	56	7	6	5	74	6	-	2	82	6	5	1	3	4	-	1	2	-	1	-	105	5	2	2	4
East Grand Rapids	3	1	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-
Balance of County	94	38	13	5	9	65	3	-	1	69	5	4	3	-	1	-	2	1	1	-	-	86	5	2	-	1
KEWEENAW	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
LAKE	4	-	-	-	1	1	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	2	1	1	-	-
LAPEER	33	11	3	-	1	15	2	2	-	19	2	-	-	1	-	1	-	-	1	-	-	24	2	3	3	1
Lapeer	9	4	2	-	-	6	-	1	-	7	-	-	-	-	1	-	-	-	-	-	-	8	-	-	-	-
Balance of County	24	7	1	-	1	9	2	1	-	12	2	-	1	-	-	-	-	-	1	-	-	16	2	3	2	1
LEELANAU	4	1	-	-	1	2	-	-	-	2	1	-	-	-	-	-	-	-	-	-	1	4	-	-	-	-
LENAWE	49	18	1	6	1	26	1	2	1	30	1	2	4	-	4	-	2	-	-	1	-	44	2	1	1	1
Adrian	13	6	-	2	-	8	1	-	-	9	-	-	2	-	-	-	1	-	-	-	-	12	1	-	-	-
Hudson	3	1	-	-	-	1	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	2	1	-	-	-
Tecumseh	4	2	-	-	1	3	-	-	-	3	-	1	-	-	-	-	-	-	-	-	-	4	-	-	-	-
Balance of County	29	9	1	4	-	14	-	2	1	17	1	1	2	-	3	-	1	-	-	1	-	26	-	1	1	1
LIVINGSTON	45	18	3	1	3	25	-	2	1	28	3	-														

TABLE 11 - DEATHS UNDER 5 YEARS BY DETAILED AGE AND RESIDENCE (Continued)

AREA	Under 5 Yrs	Under 1 Day	DAYS			Under 1 Wk	DAYS			Under 4 Wks	MONTHS											Under 1 Yr	YEARS			
			1	2	3-6		7-13	14-20	21-27		1	2	3	4	5	6	7	8	9	10	11		1	2	3	4
MANISTEE	17	4	1	3	1	9	2	-	-	11	1	-	-	-	-	1	-	-	-	1	14	1	1	-	1	
Manistee	12	3	1	3	1	8	1	-	-	9	1	-	-	-	-	-	-	-	-	-	11	1	-	-	1	
Balance of County	5	1	-	-	-	1	1	-	-	2	-	-	-	-	-	1	-	-	-	-	3	1	1	-	-	
MARQUETTE	37	15	-	1	5	21	2	-	-	23	2	2	-	1	-	1	-	-	1	2	32	1	4	-	-	
Marquette	11	3	-	-	2	5	-	-	-	5	1	1	-	-	-	1	-	-	1	1	10	1	-	-	-	
Ishpeming	4	4	-	-	-	4	-	-	-	4	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	
Negaunee	6	3	-	1	1	5	1	-	-	6	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	
Balance of County	16	5	-	-	2	7	1	-	-	8	1	1	1	-	-	-	-	1	-	-	12	-	4	-	-	
MASON	8	5	1	-	-	6	-	-	-	6	-	-	2	-	-	-	-	-	-	-	8	-	-	-	-	
Ludington	5	3	-	-	-	3	-	-	-	3	-	-	2	-	-	-	-	-	-	-	5	-	-	-	-	
Balance of County	3	2	1	-	-	3	-	-	-	3	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	
MECOSTA	12	3	4	-	-	7	-	-	-	7	-	2	-	-	1	-	-	1	-	-	11	1	-	-	-	
Big Rapids	3	1	2	-	-	3	-	-	-	3	-	2	-	-	1	-	-	1	-	-	3	-	-	-	-	
Balance of County	9	2	2	-	-	4	-	-	-	4	-	2	-	-	1	-	-	1	-	-	8	1	-	-	-	
MENOMINEE	21	8	2	-	1	11	1	-	2	14	-	2	-	-	-	-	-	-	-	-	16	2	1	1	1	
Menominee	12	5	1	-	1	7	1	-	1	9	-	1	-	-	-	-	-	-	-	-	10	2	-	-	-	
Balance of County	9	3	1	-	-	4	-	-	1	5	-	1	-	-	-	-	-	-	-	-	6	-	1	1	1	
MIDLAND	24	6	1	2	3	12	1	-	-	13	3	2	1	1	2	-	-	-	-	1	23	1	-	-	-	
Midland	13	3	-	1	3	7	-	-	-	7	2	2	-	1	1	7	-	-	-	-	13	-	-	-	-	
Balance of County	11	3	1	1	-	5	1	-	-	6	1	-	1	-	1	-	-	-	-	1	10	1	-	-	-	
MISSAUKEE	7	1	1	-	-	2	-	-	-	2	1	-	1	1	-	-	-	-	-	-	5	-	-	1	1	
MONROE	84	32	7	5	2	46	3	3	1	53	3	4	3	2	1	-	-	-	2	2	70	5	5	4	-	
Monroe	25	13	3	-	1	17	1	1	-	19	-	1	1	-	-	-	-	-	-	-	21	2	1	1	-	
Milan (Part)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Balance of County	59	19	4	5	1	29	2	2	1	34	3	3	2	2	1	-	-	-	2	2	49	3	4	3	-	
MONTICALEM	21	7	4	2	-	13	1	1	-	15	-	1	-	-	-	1	1	1	-	-	19	1	1	-	-	
Greenville	2	1	-	1	-	2	-	-	-	2	-	-	-	-	-	1	1	1	-	-	2	-	-	-	-	
Balance of County	19	6	4	1	-	11	1	1	-	13	-	1	-	-	-	1	1	1	-	-	17	1	1	-	-	
MONTMORENCY	4	2	-	-	-	2	-	-	-	2	-	-	-	-	-	-	-	1	1	-	4	-	-	-	-	
MUSKEGON	123	46	10	7	7	70	2	2	1	75	7	6	3	7	4	3	2	2	1	-	111	5	-	5	2	
Muskegon	58	23	6	2	4	35	-	2	1	38	4	2	-	3	-	2	1	-	-	-	50	4	-	3	1	
Muskegon Heights	23	10	3	-	1	14	-	-	-	14	1	1	1	2	1	1	1	-	1	-	23	-	-	-	-	
Balance of County	42	13	1	5	2	21	2	-	-	23	2	3	2	2	3	-	-	2	-	-	38	1	-	2	1	
NEWAYGO	14	6	-	1	2	9	-	-	-	9	1	-	-	-	-	1	-	-	-	-	11	-	1	1	1	
Fremont	5	3	-	-	-	3	-	-	-	3	-	-	-	-	-	-	-	-	-	-	3	-	1	1	1	
Balance of County	9	3	-	1	2	6	-	-	-	6	1	-	-	-	-	1	-	-	-	-	8	-	-	-	1	
OAKLAND	461	199	46	30	25	300	12	7	2	321	21	19	14	3	8	6	3	6	5	1	410	18	13	10	10	
Pontiac	72	31	8	4	2	45	1	3	1	50	1	6	4	1	3	-	1	1	-	-	67	1	2	1	1	
Ferndale	27	9	5	1	1	16	1	-	-	17	1	1	2	-	-	-	1	-	-	-	22	3	1	-	1	
Royal Oak	57	26	8	4	3	41	1	-	-	42	4	2	-	-	-	2	1	-	-	-	52	1	-	1	3	
Berkley	14	5	-	-	1	8	1	-	-	9	1	2	-	-	-	-	-	-	-	-	12	2	-	-	-	
Birmingham	22	6	3	3	1	13	-	-	-	13	-	1	-	-	-	-	-	-	1	-	15	3	2	2	-	
Hazel Park	19	10	1	1	-	12	-	-	-	12	2	1	1	-	-	-	-	1	-	1	18	-	1	-	-	
Clawson	12	6	1	2	1	10	-	-	-	10	-	-	-	-	1	-	-	-	-	-	11	-	1	-	-	
Holly	5	3	1	1	-	5	-	-	-	5	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	
Huntington Woods	1	1	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	
Northville (Part)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Oak Park	21	8	2	1	-	11	2	-	-	13	-	1	-	1	-	-	-	-	-	-	15	2	-	2	2	
Pleasant Ridge	1	1	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	
Rochester	2	2	-	-	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	
Balance of County	208	91	17	11	16	135	6	4	1	146	12	5	7	1	4	4	1	5	3	-	189	6	6	4	3	
OCEANA	9	3	-	-	1	4	1	1	-	6	-	-	1	1	-	-	-	-	-	-	8	1	-	-	-	
OCEMAW	4	-	1	-	-	1	-	-	-	1	-	-	2	-	-	1	-	-	-	-	4	-	-	-	-	
ONTONAGON	10	4	-	-	1	5	-	-	1	6	1	-	-	-	-	-	-	-	-	-	7	-	1	2	-	
OSCEOLA	6	3	-	1	-	4	-	-	-	4	-	1	-	-	-	-	-	-	-	-	5	-	1	-	-	
OSCODA	6	1	1	-	-	2	-	-	-	2	3	-	-	-	-	1	-	-	-	-	6	-	-	-	-	
OTSEGO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OTTAWA	61	22	3	2	5	32	1	-	1	34	6	2	1	2	1	-	-	2	2	-	50	4	2	2	3	
Holland	11	5	-	-	2	7	-	-	-	7	1	1	-	-	-	-	-	1	-	-	10	1	-	-	-	
Grand Haven	6	1	2	-	-	3	-	-	-	3	-	-	1	-	1	-	-	-	-	-	5	-	-	1	-	
Zeeland	3	2	-	-	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	
Balance of County	41	14	1	2	3	20	1	-	1	22	5	1	-	2	-	-	-	2	1	-	33	3	2	1	2	
PRESQUE ISLE	15	5	-	-	1	6	-	-	1	7	-	-	-	2	1	1	-	-	1	-	12	2	-	1	-	
Rogers City	7	1	-	-	1	2	-	-	1	3	-	-	-	1	-	-	-	-	1	-	5	2	-	-	-	
Balance of County	8	4	-	-	-	4	-	-	-	4	-	-	-	1	1	1	-	-	-	-	7	-	-	1	-	
ROSCOMMON	4	2	-	-	-	2	-	-	-	2	1	-	-	-	1	-	-	-	-	-	4	-	-	-	-	
SAGINAW	141	40	17	7	13	77	3	4	3	87	6	7	5	4	2	2	2	2	2	1	122	8	8	1	2	
Saginaw	81	25	12	5	8	50	3	3	3	59	1	5	1	2	1	1	1	2	-	-	73	3	2	1	2	
Balance of County	60	15	5	2	5	27	-	1	-	28	5	2	4	2	1	1	-	2	2	1	49	5	6	-	-	
ST. CLAIR	67	22	7	3	5	37	1	2	3	43	2	5	2	2	1	-	-	2	-	2	59	3	2	2	1	
Port Huron	24	9	3	1	1	14	1	-	1	16	-	9	-	1	-	-	1	-	-	-	20	2	2	-	-	
Algonac	1	-	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	
Marine City	5	1	-	1	-	2	-	-	-	2	1	1	-	1	-	-	-	-	-	-	5	-	-	-	-	
Marysville	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
St. Clair	2	1	1	-	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	
Balance of County	35	11	2	1	4	18	-	2	2	22	1	4	1	1	-	-	-	1	-	1	31	1	-	2	1	
ST. JOSEPH	29	9	3	1	2	15	1	-	-	16	1	1	-	-	1	-	-	-	2	-	21	5	2	-	1	
Sturgis	9	4	-																							

TABLE 11 - DEATHS UNDER 5 YEARS BY DETAILED AGE AND RESIDENCE (Continued)

AREA	Under 5 Yrs	Under 1 Day	D A Y S			Under 1 Wk	D A Y S			Under 4 Wks	M O N T H S											Under 1 Yr	Y E A R S				
			1	2	3-6		7-13	14-20	21-27		1	2	3	4	5	6	7	8	9	10	11		1	2	3	4	
SANILAC	22	7	3	-	1	11	-	-	-	11	1	1	-	2	-	-	2	-	-	-	-	-	17	2	3	-	-
SCHOOLCRAFT	5	1	1	1	-	3	-	-	-	3	-	-	-	-	-	1	-	-	-	-	-	-	4	1	-	-	-
Manistique	4	1	1	1	-	3	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	-	-
Balance of County	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-
SHIAWASSEE	32	13	4	4	2	23	-	-	1	24	1	1	1	2	-	-	-	-	-	-	-	-	29	1	1	1	-
Owosso	12	5	2	-	1	8	-	-	1	9	1	1	-	1	-	-	-	-	-	-	-	-	12	-	-	-	-
Durand	3	1	1	-	1	3	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-
Balance of County	17	7	1	4	-	12	-	-	-	12	-	-	1	1	-	-	-	-	-	-	-	-	14	1	1	1	-
TUSCOLA	32	13	6	-	1	20	-	-	1	21	2	2	1	1	-	-	1	-	1	-	1	-	29	1	-	2	-
Caro	6	4	2	-	-	6	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-
Vassar	2	-	-	-	-	-	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-	2	-	-	-	-
Balance of County	24	9	4	-	1	14	-	-	-	14	2	2	1	-	-	-	1	-	1	-	1	-	21	1	-	2	-
VAN BUREN	38	13	3	1	1	18	2	-	2	22	3	2	3	3	-	-	1	-	-	-	-	-	34	3	1	-	-
South Haven	8	2	-	-	-	2	-	-	-	2	3	1	-	1	-	-	-	-	-	-	-	-	7	-	1	-	-
Balance of County	30	11	3	1	1	16	2	-	2	20	-	1	3	2	-	-	1	-	-	-	-	-	27	3	-	-	-
WASHTENAW	96	27	16	6	6	55	5	3	1	64	6	4	1	-	2	2	1	2	2	-	-	-	84	3	3	3	3
Ann Arbor	36	11	5	2	4	22	4	2	-	28	1	-	1	-	1	1	1	-	-	-	-	-	35	-	1	-	-
Ypsilanti	15	2	2	1	2	7	1	1	1	10	1	-	-	-	-	-	-	-	-	-	-	-	11	1	1	1	1
Chelsea	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
Milan (Part)	2	2	-	-	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
Balance of County	41	12	9	3	-	24	-	-	-	24	4	3	-	-	1	-	2	-	-	-	-	-	34	2	1	2	2
WAYNE	1,906	755	184	93	136	1,168	63	37	30	1,298	120	76	67	35	30	21	13	8	3	9	14	1,694	80	55	49	28	
Detroit	1,191	482	108	53	85	728	39	23	20	810	80	53	39	26	25	13	9	5	1	5	9	1,075	45	31	25	15	
Dearborn	83	30	12	3	6	51	4	1	2	58	2	3	3	1	-	-	-	-	-	2	-	69	7	4	2	1	
Hamtramck	20	7	2	1	1	11	-	1	-	12	-	1	1	1	-	1	-	-	-	-	-	16	1	2	1	-	
Highland Park	23	5	5	1	1	12	2	-	-	14	2	2	2	1	-	-	-	-	1	-	-	22	-	1	-	-	
Lincoln Park	40	19	1	3	-	23	1	-	1	25	5	2	1	-	-	-	-	-	-	-	-	34	2	3	-	1	
Wyandotte	42	23	3	1	2	29	3	1	1	34	-	2	1	-	-	1	-	-	-	-	-	38	1	1	2	-	
Allen Park	19	4	2	1	2	9	-	-	-	9	-	-	2	-	2	1	-	-	-	-	-	15	3	-	-	1	
Ecorse	21	6	1	-	1	8	2	4	-	14	-	-	2	1	-	-	-	1	-	-	-	18	1	1	-	1	
Grosse Pte. Park	2	1	-	-	-	1	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	
Grosse Pte. Woods	5	2	-	1	-	3	1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	1	
Inkster	49	17	7	2	4	30	3	2	1	36	2	2	-	-	1	-	-	1	-	1	-	43	1	2	3	-	
Livonia	44	17	8	1	3	29	-	1	2	32	3	1	2	-	-	1	-	-	-	-	-	39	2	-	3	-	
River Rouge	14	6	3	-	1	10	1	-	-	11	1	-	-	1	-	-	-	-	-	-	-	14	-	-	-	-	
Garden City	43	22	2	3	5	32	-	-	1	33	3	-	1	-	-	-	-	-	-	-	-	39	2	1	1	-	
Grosse Pointe	5	1	-	1	1	3	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	
Grosse Pte. Farms	4	1	1	-	1	3	-	-	-	4	1	1	-	-	1	-	-	-	-	-	-	7	-	-	-	1	
Melvindale	7	1	-	2	-	3	1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	
Northville (Part)	3	1	1	-	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-	
Plymouth	9	6	-	1	1	8	-	-	-	8	1	-	-	-	-	-	-	-	-	-	-	10	1	1	1	1	
Trenton	13	5	1	-	1	7	-	-	-	7	2	-	1	-	-	-	-	-	-	-	-	10	4	-	1	2	
Wayne	37	16	2	3	3	24	-	2	1	27	-	-	1	-	-	1	-	-	1	-	-	30	4	-	1	2	
Balance of County	232	83	25	16	18	142	6	2	1	151	17	9	11	4	1	3	2	1	1	-	1	201	9	7	10	5	
WEXFORD	12	5	-	1	-	6	1	-	-	7	1	1	-	-	1	-	-	-	-	-	-	11	-	-	-	1	
Cadillac	6	1	-	1	-	2	1	-	-	3	1	-	-	-	1	-	-	-	-	-	-	5	-	-	-	1	
Balance of County	6	4	-	-	-	4	-	-	-	4	-	1	-	-	-	-	-	-	-	-	-	6	-	-	-	-	

TABLE 12 - BIRTHS, DEATHS, DEATHS UNDER 1 YEAR, DEATHS UNDER 28 DAYS, MATERNAL DEATHS, MARRIAGES, AND DIVORCES, AND RATES BY COUNTY: POPULATION MICHIGAN, 1959

(Deaths exclusive of fetal deaths. Births and deaths by county of occurrence and residence. Marriages by county of license. Divorces by county of decree. Birth rate, death rate, rate of persons married, and rate of persons divorced per 1,000 population. Death rates under 1 year and under 28 days per 1,000 live births. Maternal death rates per 10,000 live births.)

AREA	Population Estimates July 1, 1959	O C C U R R E N C E				R E S I D E N C E						MARRIAGES		DIVORCES*					
		Live Births		Deaths		Live Births Number Rate	All Ages		Deaths		Neonatal Number Rate	Maternal Number Rate	Number	Rate	Number	Rate			
		Number	Rate	Number	Rate		Number	Rate	Number	Rate									
STATE	7,960,000	197,335	24.8	66,438	8.3	198,301	24.9	66,812	8.4	4,846	24.4	3,674	18.5	72	3.6	58,826	14.8	16,168	4.1
Alcona	6,230	61	9.8	52	8.3	129	20.7	78	12.5	5	38.8	4	31.0	-	0	49	15.7	7	2.2
Alger	9,510	147	15.5	79	8.3	217	22.8	120	12.6	5	23.0	2	9.2	-	0	58	12.2	10	2.1
Allegan	61,610	1,087	17.6	437	7.1	1,414	23.0	513	8.3	19	13.4	15	10.6	-	0	403	13.1	77	2.5
Alpena	27,940	928	33.2	255	9.1	821	29.4	249	8.9	21	25.6	19	23.1	-	0	253	18.1	34	2.4
Antrim	11,060	102	9.2	105	9.5	217	19.6	139	12.6	8	36.9	5	23.0	-	0	72	13.0	13	2.4
Arenac	9,840	143	14.5	106	10.8	228	23.2	120	12.2	11	48.2	10	43.9	-	0	101	20.5	9	1.8
Baraga	6,780	185	27.3	83	12.2	148	21.8	87	12.8	5	33.8	3	20.3	1	67.6	53	15.6	10	2.9
Barry	32,180	590	18.3	236	7.3	738	22.9	310	9.6	17	23.0	12	16.3	-	0	216	13.4	70	4.4
Bay	105,590	3,033	28.7	971	9.2	2,870	27.2	961	9.1	71	24.7	54	18.8	1	3.5	864	16.4	179	3.4
Benzie	8,140	186	22.9	119	14.6	201	24.7	128	15.7	7	34.8	6	29.9	-	0	76	18.7	17	4.2
Berrien	151,510	3,740	24.7	1,274	8.4	3,741	24.7	1,327	8.8	100	26.7	81	21.7	-	0	1,571	20.7	378	5.0
Branch	38,690	700	18.1	405	10.5	715	18.5	371	9.6	13	18.2	7	9.8	-	0	370	19.1	64	3.3
Calhoun	138,510	3,753	27.1	1,335	9.6	3,354	24.2	1,245	9.0	77	23.0	61	18.2	4	11.9	1,238	17.9	452	6.5
Cass	36,580	361	9.9	307	8.4	645	17.6	386	10.6	21	32.6	16	24.8	1	15.5	308	16.8	86	4.7
Charlevoix	13,670	182	13.3	150	11.0	330	24.1	170	12.4	5	15.2	4	12.1	-	0	87	12.7	30	4.4
Cheboygan	14,120	369	26.1	186	13.2	404	28.6	189	13.4	15	37.1	10	24.8	-	0	109	15.4	18	2.5
Chippewa	32,470	977	30.1	277	8.5	1,022	31.5	312	9.6	26	25.4	14	13.7	-	0	274	16.9	39	2.4
Clare	11,860	379	32.0	141	11.9	295	24.9	131	11.0	9	30.5	7	23.7	-	0	84	14.2	29	4.9
Clinton	36,250	556	15.3	251	6.9	1,030	28.4	327	9.0	28	27.2	24	23.3	-	0	248	13.7	50	2.8
Crawford	4,880	180	36.9	73	15.0	97	19.9	54	11.1	-	0	-	0	-	0	49	20.1	8	3.3
Delta	33,890	867	25.6	374	11.0	819	24.2	399	11.8	20	24.4	17	20.8	1	12.2	244	14.4	34	2.0
Dickinson	23,620	708	30.0	371	15.7	479	20.3	253	10.7	9	18.8	6	12.5	-	0	216	18.3	31	2.6
Eaton	51,610	692	13.4	354	6.9	1,168	22.6	464	9.0	26	22.3	22	18.8	-	0	344	13.3	93	3.6
Emmet	15,790	613	38.8	265	16.8	394	25.0	208	13.2	15	38.1	11	27.9	-	0	143	18.1	14	1.8
Genesee	371,310	11,142	30.0	2,611	7.0	10,804	29.1	2,718	7.3	277	25.6	206	19.1	2	1.9	2,938	15.8	970	5.2
Gladwin	10,590	110	10.4	85	8.0	252	23.8	85	8.0	4	15.9	3	11.9	-	0	87	16.4	10	1.9
Gogebic	26,290	628	23.9	325	12.4	443	16.9	302	11.5	9	20.3	8	18.1	-	0	202	15.4	29	2.2
Grand Traverse	33,440	1,070	32.0	628	18.8	719	21.5	285	8.5	14	19.5	9	12.5	-	0	283	16.9	61	3.6
Gratiot	36,580	850	23.2	381	10.4	972	26.6	345	9.4	17	17.5	13	13.4	-	0	294	16.1	60	3.3
Hillsdale	34,110	525	15.4	310	9.1	745	21.8	382	11.2	20	26.8	15	20.1	1	13.4	318	18.6	64	3.8
Houghton	35,010	716	20.5	503	14.4	698	19.9	519	14.8	23	33.0	15	21.5	-	0	266	15.2	37	2.1
Huron	35,830	842	23.5	344	9.6	856	23.9	371	10.4	17	19.9	11	12.9	-	0	193	10.8	28	1.6
Ingham	215,220	6,693	31.1	1,663	7.7	5,793	26.9	1,605	7.5	135	23.3	103	17.8	-	0	1,849	17.2	563	5.2
Ionia	42,760	574	13.4	335	7.8	1,001	23.4	394	9.2	28	28.0	22	22.0	-	0	318	14.9	60	2.8
Iosco	16,170	566	35.0	137	8.5	578	35.7	149	9.2	12	20.8	8	13.8	-	0	148	18.3	32	4.0
Iron	18,560	300	16.2	211	11.4	303	16.3	244	13.1	4	13.2	4	13.2	1	33.0	133	14.3	15	1.6
Isabella	33,820	882	26.1	245	7.2	966	28.6	276	8.2	19	19.7	15	15.5	-	0	264	15.6	39	2.3
Jackson	130,640	3,275	25.1	1,248	9.6	3,142	24.1	1,270	9.7	99	31.5	85	27.1	-	0	1,012	15.5	394	6.0
Kalamazoo	162,990	4,167	25.6	1,583	9.7	4,181	25.7	1,345	8.3	96	23.0	71	17.0	1	2.4	1,258	15.4	467	5.7
Kalkaska	4,400	93	21.1	50	11.4	82	18.6	55	12.5	2	24.4	1	12.2	-	0	42	19.1	7	3.2
Kent	358,260	10,248	28.6	3,398	9.5	9,535	26.6	3,196	8.9	193	20.2	152	15.9	2	2.1	2,767	15.4	481	2.7
Keweenaw	2,480	-	0	19	7.7	35	14.1	48	19.4	-	0	-	0	-	0	28	22.6	3	2.4
Lake	5,270	15	2.8	54	10.2	98	18.6	86	16.3	2	20.4	1	10.2	-	0	24	9.1	11	4.2
Lapeer	44,300	812	18.3	432	9.8	979	22.1	427	9.6	24	24.5	19	19.4	-	0	291	13.1	85	3.8
Leelanau	9,220	36	3.9	64	6.9	185	20.1	106	11.5	4	21.6	2	10.8	-	0	63	13.7	12	2.6
Lenawee	81,910	2,101	25.7	773	9.4	1,907	23.3	816	10.0	44	23.1	30	15.7	1	5.2	570	13.9	168	4.1
Livingston	37,040	779	21.0	329	8.9	954	25.8	370	10.0	38	39.8	28	29.4	1	10.5	300	16.2	73	3.9
Luce	7,740	185	23.9	172	22.2	138	17.8	75	9.7	3	21.7	3	21.7	2	144.9	42	10.9	5	1.3
Mackinac	10,690	218	20.4	64	6.0	280	26.2	98	9.2	8	28.6	5	17.9	-	0	66	12.3	13	2.4
Macomb	392,830	5,175	13.2	1,616	4.1	12,617	32.1	2,226	5.7	287	22.7	226	17.9	3	2.4	2,145	10.9	665	3.4
Manistee	19,430	437	22.5	213	11.0	453	23.3	237	12.2	14	30.9	11	24.3	-	0	135	13.9	34	3.5
Marquette	54,780	1,314	24.0	533	9.7	1,277	23.3	532	9.7	32	25.1	23	18.0	-	0	366	13.4	62	2.3
Mason	22,130	480	21.7	211	9.5	508	23.0	237	10.7	8	15.7	6	11.8	-	0	190	17.2	37	3.3
Mecosta	19,120	420	22.0	193	10.1	507	26.5	194	10.1	11	21.7	7	13.8	1	19.7	159	16.6	28	2.9
Menominee	25,940	711	27.4	276	10.6	556	21.4	263	10.1	16	28.8	14	25.2	-	0	277	21.4	21	1.6
Midland	49,910	1,546	31.0	237	4.7	1,543	30.9	288	5.8	23	14.9	13	8.4	-	0	371	14.9	42	1.7
Missaukee	7,140	4	0.6	30	4.2	148	20.7	87	12.2	5	33.8	2	13.5	-	0	54	15.1	8	2.2
Monroe	99,490	1,714	17.2	583	5.9	2,482	24.9	805	8.1	70	28.2	53	21.4	1	4.0	1,875	37.7	48	1.0
Montcalm	36,910	1,399	37.9	434	11.8	832	22.5	440	11.9	19	22.8	15	18.0	1	12.0	307	16.6	81	4.4
Montmorency	4,360	1	0.2	31	7.1	84	19.3	49	11.2	4	47.6	2	23.8	-	0	35	16.1	3	1.4
Muskegon	148,370	3,812	25.7	1,185	8.0	4,041	27.2	1,265	8.5	111	27.5	75	18.6	-	0	1,246	16.8	323	4.4
Newaygo	24,610	714	29.0	269	10.9	634	25.8												





TABLE 13 - BIRTHS, DEATHS, AND RATES BY PLACE OF OCCURRENCE AND RESIDENCE: BIRTHS BY PLACE OF DELIVERY, ATTENDANT AT BIRTH, NUMBER BORN IN PLURAL BIRTHS, SEX, COLOR, ILLEGITIMACY, AND FATAL DEATHS BY PLACE OF RESIDENCE: DEATHS UNDER 28 DAYS, MATERNAL DEATHS, AND RATES BY PLACE OF RESIDENCE: POPULATION (Continued)

Table with columns for AREA, OCCURRENCE (Live Births, Deaths), RESIDENCE (Number Born in Hospital, Triplet, Plural, etc.), and DEATHS (Infant, Neonatal, Maternal). Rows list various counties and cities such as CLINTON, CRAWFORD, DELTA, etc.

TABLE 13 - BIRTHS, DEATHS, AND RATES BY PLACE OF OCCURRENCE AND RESIDENCE: BIRTHS BY PLACE OF DELIVERY, ATTENDANT AT BIRTH, NUMBER BORN IN PLURAL BIRTHS, SEX, COLOR, ILLICITIMACY, AND FETAL DEATHS BY PLACE OF RESIDENCE: DEATHS UNDER 1 YEAR, DEATHS UNDER 28 DAYS, MATERNAL DEATHS, AND RATES BY PLACE OF RESIDENCE: POPULATION (Continued)

AREA	Population Estimates July 1, 1959	O C C U R R E N C E			R E S I D E N C E										D E A T H S							
		Live Births Number	Deaths Number	Rate	Number Born in Plural Births Twins	Number Born in Tripletts	Physician	Hospital	Non-Hospital	Other	Sex Male	Sex Female	Color White	Color Non-White	Illigiti- macy	Fetal Deaths	All Ages Number	Infant Number	Neonatal Number	Maternal Number		
IRON	18,560	300	211	11.4	4	-	298	5	-	150	153	302	1	4	4	244	4	4	4	1	33.0	
Balance of County	4,150	0	0	7.4	-	-	68	5	-	27	41	68	1	2	2	60	1	0	0	0	0	
ISABELLA	14,570	300	180	12.5	4	-	230	5	-	123	112	234	1	2	3	184	4	4	4	1	42.6	
Balance of County	33,820	882	261	7.2	33	-	959	7	-	488	478	955	11	25	10	276	19	15	15	0	0	
JACKSON	13,470	875	65.0	133	8	-	394	2	-	199	394	2	13	23	9	91	6	6	6	0	0	
Balance of County	20,350	7	0.3	112	25	-	565	2	-	291	279	561	9	12	9	185	10	10	10	0	0	
JACKSON	130,640	3,275	25.1	1,248	54	-	3,135	7	-	1,616	1,526	2,978	164	89	41	1,270	93	85	27	0	0	
Balance of County	55,940	3,244	58.0	855	16	-	1,256	4	-	974	908	1,876	6	21	21	590	47	37	37	0	0	
JACKSON	74,700	31	0.4	393	38	-	1,879	3	-	4	4	1,876	6	6	6	20	680	47	25	0	0	
Balance of County	162,990	4,167	25.6	1,583	79	-	4,170	11	-	2,138	2,043	3,964	217	122	48	1,345	96	23	0	1	2.4	
KALAMAZOO	81,440	3,980	48.9	1,264	49	-	2,515	6	-	1,075	1,082	1,962	195	104	20	784	9	7	21.8	1	4.6	
Balance of County	81,550	187	2.3	319	30	-	2,019	5	-	1,063	961	2,002	222	18	28	551	49	24.2	38	18.8	0	
KALAMAZOO	4,400	93	21.1	50	11.4	-	80	2	-	38	44	81	1	4	2	55	12.5	2	24.4	1	12.2	
Balance of County	358,260	10,248	28.6	3,998	193	-	9,495	40	-	4,871	4,664	8,977	558	274	122	3,196	193	20.2	152	15.9	2	
KENT	196,140	7,325	37.3	2,184	97	-	4,745	15	-	2,418	2,342	4,223	537	220	72	2,040	105	22.1	82	17.2	2	
Balance of County	8,950	2,885	32.3	442	9	-	1,777	6	-	69	76	165	3	2	2	89	11.7	8	54.1	7	47.3	
Balance of County	153,170	38	0.2	772	90	-	4,573	25	-	2,361	2,237	4,577	21	53	49	1,087	86	18.7	69	13.0	0	
KEMEWAN	2,480	-	0	19	7.7	-	35	-	-	17	18	34	1	-	-	48	19.4	-	0	-	0	
Balance of County	5,270	15	2.8	54	10.2	-	97	1	-	49	49	80	18	7	1	86	16.3	2	20.4	1	10.2	
LAKE	44,300	812	18.3	432	28	-	973	6	-	517	462	972	7	13	12	427	9.6	24	24.5	19	19.4	
Balance of County	36,680	807	105.9	244	4	-	1,473	5	-	69	76	165	3	4	11	338	9.2	16	19.3	12	14.4	
LEELANAU	9,220	36	3.9	64	6.9	-	184	1	-	98	87	179	6	8	5	106	11.5	4	21.6	2	10.8	
Balance of County	81,910	2,101	25.7	773	45	-	1,889	18	-	1,013	894	1,894	13	39	19	816	10.0	44	23.1	30	15.7	
LENAWEE	23,610	1,108	46.9	299	19	-	516	6	-	283	239	513	9	14	5	228	9.7	12	23.0	9	17.2	
Balance of County	3,300	299	90.6	45	6	-	206	1	-	31	29	66	-	6	1	31	9.4	2	33.3	1	16.7	
Balance of County	48,590	551	86.0	114	6	-	205	1	-	110	96	206	4	4	18	493	10.1	26	23.2	17	15.2	
LIVINGSTON	37,040	779	21.0	329	8.9	-	949	5	-	510	444	949	5	14	18	370	10.0	38	39.8	28	29.4	
Balance of County	Howell	5,490	767	139.7	132	-	130	1	-	68	63	131	1	5	9	53	9.7	3	22.9	3	22.9	
Balance of County	31,550	12	0.4	197	6.2	-	819	4	-	442	381	818	1	4	1	75	9.7	3	21.7	3	21.7	
LUKE	7,740	185	23.9	172	22.2	-	78	-	-	82	56	137	1	1	1	38	6.7	3	50.0	0	0	
Balance of County	5,680	2	0.4	112	19.7	-	60	-	-	34	26	60	6	3	3	6	6.7	3	50.0	0	0	
MACON	10,690	218	20.4	64	6.0	-	274	6	-	130	150	273	7	8	6	98	9.2	8	28.6	5	17.9	
Balance of County	St. Ignace	3,320	202	60.8	7	-	100	6	-	39	61	97	3	3	2	35	10.5	2	20.0	4	22.2	
Balance of County	7,370	16	2.2	27	3.7	-	174	6	-	91	89	176	4	5	4	63	8.5	6	33.3	4	22.2	
MACOMB	392,830	5,175	13.2	1,616	4.1	-	12,569	48	-	6,536	6,081	12,344	273	165	190	2,226	5.7	287	22.7	226	17.9	
Balance of County	East Detroit	44,400	3	0.1	66	-	1,124	4	-	614	514	1,127	1	13	16	249	5.6	26	23.0	20	17.7	
Balance of County	Mount Clemens	23,640	803	34.0	27	-	1,860	5	-	969	896	1,702	163	39	9	288	12.2	23	12.3	17	9.1	
Balance of County	Novi	46,270	1,624	35.1	25	-	1,821	3	-	834	790	1,598	28	28	28	30	18.5	30	18.5	28	17.2	
Balance of County	St. Clair Shores	11,110	9	0.1	84	-	2,538	8	-	1,315	1,223	2,534	4	18	40	340	4.5	59	23.2	46	18.1	
Balance of County	Ventureline	10,760	-	0	15	-	2,992	-	-	151	141	292	4	8	8	3	48	4.5	3	10.3	2	6.8
Balance of County	Howell	3,740	3	0.8	35	-	117	4	-	70	51	115	6	3	3	34	9.1	2	16.5	1	8.3	
Balance of County	192,910	1,366	7.1	571	3.0	-	5,025	24	-	2,583	2,466	4,976	73	39	91	1,058	5.5	144	28.5	112	22.2	
MANISTEE	19,430	437	22.5	213	11.0	-	447	6	-	224	229	447	6	11	4	237	12.2	14	30.9	11	24.3	
Balance of County	Manistee	8,770	364	41.5	128	-	227	4	-	106	125	229	2	2	5	117	13.3	11	47.6	9	39.0	
Balance of County	10,660	73	6.8	85	8.0	-	220	2	-	118	104	218	4	4	3	120	11.3	3	13.5	2	9.0	
MARQUETTE	54,780	1,314	24.0	533	9.7	-	1,273	4	-	668	609	1,259	18	30	28	532	9.7	32	25.1	23	18.0	
Balance of County	19,080	824	43.2	237	12.4	-	508	3	-	273	238	503	8	17	10	183	9.6	10	19.6	5	9.8	
Balance of County	9,380	490	52.2	168	17.9	-	244	3	-	116	128	244	4	3	5	110	11.7	4	16.4	4	16.4	
Balance of County	6,510	-	0	27	4.1	-	142	-	-	91	71	162	1	1	1	70	10.8	6	37.0	6	37.0	
Balance of County	19,810	-	0	101	5.1	-	359	1	-	188	172	350	10	9	9	169	8.5	12	33.3	8	22.2	
MASON	22,130	480	21.7	211	9.5	-	508	6	-	245	263	502	6	15	8	237	10.7	8	15.7	6	11.8	
Balance of County	10,080	480	47.6	63	5.2	-	313	4	-	143	170	311	4	4	4	116	11.5	5	16.0	3	9.6	
Balance of County	12,050	480	47.6	63	5.2	-	195	2	-	102	93	191	2	11	4	121	10.0	3	15.4	3	15.4	
MECOSTA	19,120	420	22.0	193	10.1	-	500	7	-	241	266	505	2	15	5	194	10.1	11	21.7	7	13.8	
Balance of County	6,980	339	48.6	81	11.6	-	228	3	-	111	120	231	4	4	4	73	10.5	3	13.0	3	13.0	
Balance of County	12,140	81	6.7	112	9.2	-	272	4	-	130	146	274	4	6	6	121	10.0	8	29.0	4	14.5	



TABLE 13 - BIRTHS, DEATHS, AND RATES BY PLACE OF OCCURRENCE AND RESIDENCE: BIRTHS BY PLACE OF DELIVERY, ATTENDANT AT BIRTH, NUMBER BORN IN PLURAL BIRTHS, SEX, COLOR, ILLEGITIMACY, AND FETAL DEATHS BY PLACE OF RESIDENCE: DEATHS, DEATHS UNDER 1 YEAR, MATERNAL DEATHS, AND RATES BY PLACE OF RESIDENCE: POPULATION (Continued)

Main data table with columns: AREA, OCCURRENCE, LIVE BIRTHS, DEATHS, RESIDENCE, and DEATHS. Rows include areas like ST. CLAIR, ST. JOSEPH, SANGHVI, SCHOOLCRAFT, SHILWASSIE, TUSCOLLA, VAN BUREN, WASHINGTON, WAYNE, and WEXFORD.

Note: The two cities Milan and Northville listed in this table are each located in two counties. The total population estimates are Milan 3,430 and Northville 4,280.

TABLE 14 - MARRIAGES BY ORDER OF MARRIAGE AND AGE OF BRIDE AND GROOM  
MICHIGAN, 1959

AGE (YEARS)	B R I D E						G R O O M					
	Total	Order of Marriage					Total	Order of Marriage				
		First	Second	Third	Fourth or More	Not Stated		First	Second	Third	Fourth or more	Not Stated
ALL AGES	58,826	44,446	11,203	2,642	506	29	58,826	45,147	10,929	2,306	409	35
15 - 19	22,550	22,117	414	3	-	16	7,375	7,342	28	1	-	4
20 - 24	19,250	17,131	1,978	127	8	6	26,010	24,917	1,036	35	-	22
25 - 29	5,114	2,966	1,864	250	32	2	9,929	7,982	1,775	159	10	3
30 - 34	3,159	1,082	1,655	362	60	-	4,568	2,540	1,727	273	28	-
35 - 39	2,390	490	1,384	434	79	3	2,888	1,084	1,429	330	43	2
40 - 44	1,931	291	1,130	414	96	-	2,050	534	1,156	303	56	1
45 - 49	1,517	183	944	320	70	-	1,668	311	1,005	292	59	1
50 - 54	1,062	77	659	266	60	-	1,272	170	781	262	59	-
55 - 59	749	39	490	182	38	-	1,049	129	663	201	56	-
60 - 64	500	46	301	127	35	1	724	59	487	145	33	-
65 - 69	393	20	261	98	14	-	723	60	469	159	34	1
70 - 74	127	5	75	39	7	1	340	10	225	90	14	1
75 & Over	72	2	45	19	6	-	218	3	143	55	17	-
Not Stated	12	7	3	1	1	-	12	6	5	1	-	-

TABLE 15 - MARRIAGES BY RESIDENCE STATUS OF BRIDE AND GROOM  
MICHIGAN, 1959

RESIDENCE STATUS	NUMBER	PERCENT
TOTAL	58,826	100
Both bride and groom resident of State	53,436	90.8
Bride resident, groom nonresident of State	2,527	4.3
Groom resident, bride nonresident of State	615	1.1
Both bride and groom nonresident of State	2,248	3.8
Residence status of either or both not stated	-	0

TABLE 16 - DIVORCES BY CASES CONTESTED, LIBELLANT, NUMBER OF CHILDREN: ANNULMENTS: BY COUNTY OF DECREE  
MICHIGAN, 1959

AREA	Divorces & Annulments	Annulments	D I V O R C E S												
			Total	Cases Contested	Granted to -		Children							5 or More	Not Stated
					Husband	Wife	0	1	2	3	4				
STATE	16,168	162	16,006	2,232	4,018	11,988	7,509	3,501	2,696	1,317	591	387	5		
Alcona	7	-	7	1	2	5	3	1	1	-	2	-	-		
Alger	10	-	10	1	3	7	4	3	-	-	3	-	-		
Allegan	77	-	77	31	24	53	32	19	8	10	4	2	2		
Alpena	34	2	32	4	15	17	7	7	10	7	1	-	-		
Antrim	13	-	13	1	3	10	7	2	2	-	1	1	-		
Arenac	9	-	9	-	2	7	2	2	2	2	-	1	-		
Baraga	10	-	10	3	3	7	3	3	2	1	1	-	-		
Barry	70	2	68	16	18	50	29	13	11	7	3	5	-		
Bay	179	-	179	17	43	136	66	51	42	16	2	2	-		
Benzie	17	-	17	1	5	12	7	5	3	1	1	-	-		
Berrien	378	1	377	14	80	297	164	94	64	30	17	8	-		
Branch	64	-	64	5	13	51	26	7	16	9	4	2	-		
Calhoun	452	-	452	127	112	340	210	87	86	39	19	11	-		
Cass	86	-	86	8	20	66	38	19	13	7	4	5	-		
Charlevoix	30	-	30	13	8	22	19	4	5	2	-	-	-		
Cheboygan	18	-	18	2	5	13	11	4	1	-	-	2	-		
Chippewa	39	-	39	3	11	28	14	11	4	6	3	1	-		
Clare	29	-	29	12	8	21	7	7	9	4	1	1	-		
Clinton	50	-	50	12	12	38	23	8	13	4	1	1	-		
Crawford	8	-	8	-	2	6	4	4	-	-	-	-	-		
Delta	34	-	34	-	10	24	12	9	8	2	1	2	-		
Dickinson	31	-	31	1	6	25	11	9	4	2	4	1	-		
Eaton	93	-	93	23	25	68	36	18	19	10	5	5	-		
Emmet	14	1	13	2	7	6	6	4	1	1	1	-	-		
Genesee	970	4	966	215	269	697	473	208	142	74	37	32	-		
Gladwin	10	-	10	-	-	10	4	2	4	-	-	-	-		
Gogebic	29	-	29	12	5	24	10	10	5	3	1	-	-		
Grand Traverse	61	-	61	12	20	41	28	14	13	2	3	1	-		
Gratiot	60	2	58	-	18	40	25	13	11	7	1	1	-		
Hillsdale	64	-	64	3	14	50	27	14	9	8	4	2	-		
Houghton	37	-	37	9	7	30	16	9	5	3	4	-	-		
Huron	28	-	28	10	7	21	12	7	6	3	-	-	-		
Ingham	563	7	556	67	137	419	266	113	93	50	27	7	-		
Ionia	60	-	60	10	10	50	20	8	16	6	4	6	-		
Iosco	32	-	32	2	16	16	20	4	5	1	-	2	-		
Iron	15	1	14	2	3	11	6	7	-	-	-	1	-		
Isabella	39	-	39	1	4	35	10	11	3	8	5	2	-		
Jackson	394	4	390	5	87	303	169	100	65	38	10	8	-		
Kalamazoo	467	1	466	9	118	348	195	100	79	52	23	17	-		
Kalkaska	7	-	7	3	1	6	3	3	-	-	1	-	-		
Kent	481	7	474	179	61	413	172	119	98	50	24	11	-		
Keweenaw	3	-	3	-	-	3	-	1	1	1	-	-	-		
Lake	11	-	11	3	5	6	3	-	2	3	-	3	-		
Lapeer	85	-	85	12	25	60	29	24	13	14	3	1	1		
Leelanau	12	-	12	4	2	10	4	2	2	2	-	2	-		
Lenawee	168	1	167	47	47	120	63	46	35	11	8	4	-		
Livingston	73	-	73	-	23	50	39	15	10	6	3	-	-		
Luce	5	-	5	-	2	3	2	2	1	-	-	-	-		
Mackinac	13	-	13	3	2	11	8	1	2	1	-	1	-		
Macomb	665	15	650	43	145	505	282	159	125	51	21	12	-		
Manistee	34	-	34	4	8	26	14	8	5	4	1	2	-		
Marquette	62	-	62	6	16	46	23	14	15	8	1	1	-		
Mason	37	-	37	13	11	26	14	7	7	2	5	2	-		
Mecosta	28	-	28	7	8	20	9	6	7	5	1	-	-		
Menominee	21	-	21	8	4	17	9	3	4	4	-	1	-		

TABLE 16 - DIVORCES BY CASES CONTESTED, LIBELLANT, NUMBER OF CHILDREN: ANNULMENTS: BY COUNTY OF DECREE (Continued)

AREA	Divorces & Annulments	Annulments	D I V O R C E S											
			Total	Cases Contested	Granted to -		Children						5 or More	Not Stated
					Husband	Wife	0	1	2	3	4			
Midland	42	1	41	8	13	28	11	11	7	4	5	3	-	
Missaukee	8	-	8	-	2	6	2	3	2	1	-	-	-	
Monroe	48	-	48	1	15	33	25	8	11	4	-	-	-	
Montcalm	81	-	81	9	19	62	34	17	14	6	6	4	-	
Montmorency	3	1	2	-	1	1	1	1	-	-	-	-	-	
Muskegon	323	1	322	21	91	231	131	61	62	36	20	12	-	
Newaygo	43	-	43	2	20	23	25	6	8	3	-	1	-	
Oakland	1,570	28	1,542	187	308	1,234	667	350	304	117	63	40	1	
Oceana	25	-	25	5	5	20	8	6	5	5	-	1	-	
Ogemaw	9	-	9	-	-	9	4	1	2	1	1	-	-	
Ontonagon	8	-	8	4	3	5	1	3	1	1	1	1	-	
Osceola	23	-	23	1	5	18	6	2	4	5	3	3	-	
Oscoda	5	-	5	-	1	4	2	1	2	-	-	-	-	
Otsego	12	-	12	4	3	9	4	2	4	1	1	-	-	
Ottawa	104	1	103	3	23	80	51	20	13	10	3	6	-	
Presque Isle	10	-	10	3	4	6	-	1	4	5	-	-	-	
Roscommon	17	-	17	1	8	9	10	-	4	2	-	1	-	
Saginaw	302	5	297	93	77	220	128	63	45	30	16	15	-	
St. Clair	239	3	236	26	52	184	92	62	33	31	11	7	-	
St. Joseph	113	-	113	46	28	85	48	26	16	16	6	1	-	
Sanilac	37	-	37	12	8	29	16	6	4	3	5	3	-	
Schoolcraft	7	-	7	-	1	6	3	2	1	-	1	-	-	
Shiawassee	129	-	129	42	38	91	51	30	21	9	12	6	-	
Tuscola	53	-	53	2	12	41	21	14	12	5	-	1	-	
Van Buren	80	-	80	1	24	56	34	16	18	7	4	1	-	
Washtenaw	356	1	355	126	75	280	155	70	66	37	16	11	-	
Wayne	6,205	73	6,132	637	1,663	4,469	3,270	1,291	923	396	152	99	1	
Wexford	30	-	30	12	7	23	13	7	3	5	-	2	-	