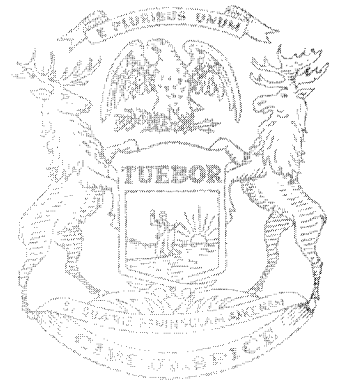


**HEALTH STATISTICS**

*1961*



**MICHIGAN HEALTH STATISTICS**  
*Annual Statistical Report*  
*1961*

**STATISTICAL METHODS SECTION  
MICHIGAN DEPARTMENT OF HEALTH  
Lansing 4, Michigan**



# CHARTS and TABLES

## CHARTS

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symbols used in this report

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# INTRODUCTION

*This report contains health statistics concerning communicable diseases, births, deaths, fetal deaths, marriages, and divorces in Michigan during 1961 and previous years. The first four tables in this report include reference information pertaining to the years 1900-1961; the remaining tables contain detailed statistics for 1961.*

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 subsequently are considered negligible for statistical purposes.

---

## *2) Population Trend:*

Population figures for the census years are those issued by the U.S. Census Bureau as of April 1 of the particular year. For the intercensal years between 1900 and 1960 estimates for the total population of the state are those of the U.S. Census Bureau; current year estimates for both the state and the political subdivisions are those of the University of Michigan Population Studies

Center. 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, intrastate allocation according to this procedure has been followed for all births and deaths occurring in Michigan. Beginning with 1950 certificates, interstate 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 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 one week of age.

These rates were computed according to the following formula:

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

---

6) *Marriage and Divorce Data:*

Marriage and divorce data are compiled only on the basis of occurrence in Michigan without regard to the place of residence of either of the persons involved. County data for marriages are by county of license and for divorces by county of decree.

---

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. Reports for the successive years have conformed with these revisions.



# CHARTS

# MICHIGAN'S HEALTH PICTURE

## 1950-1961

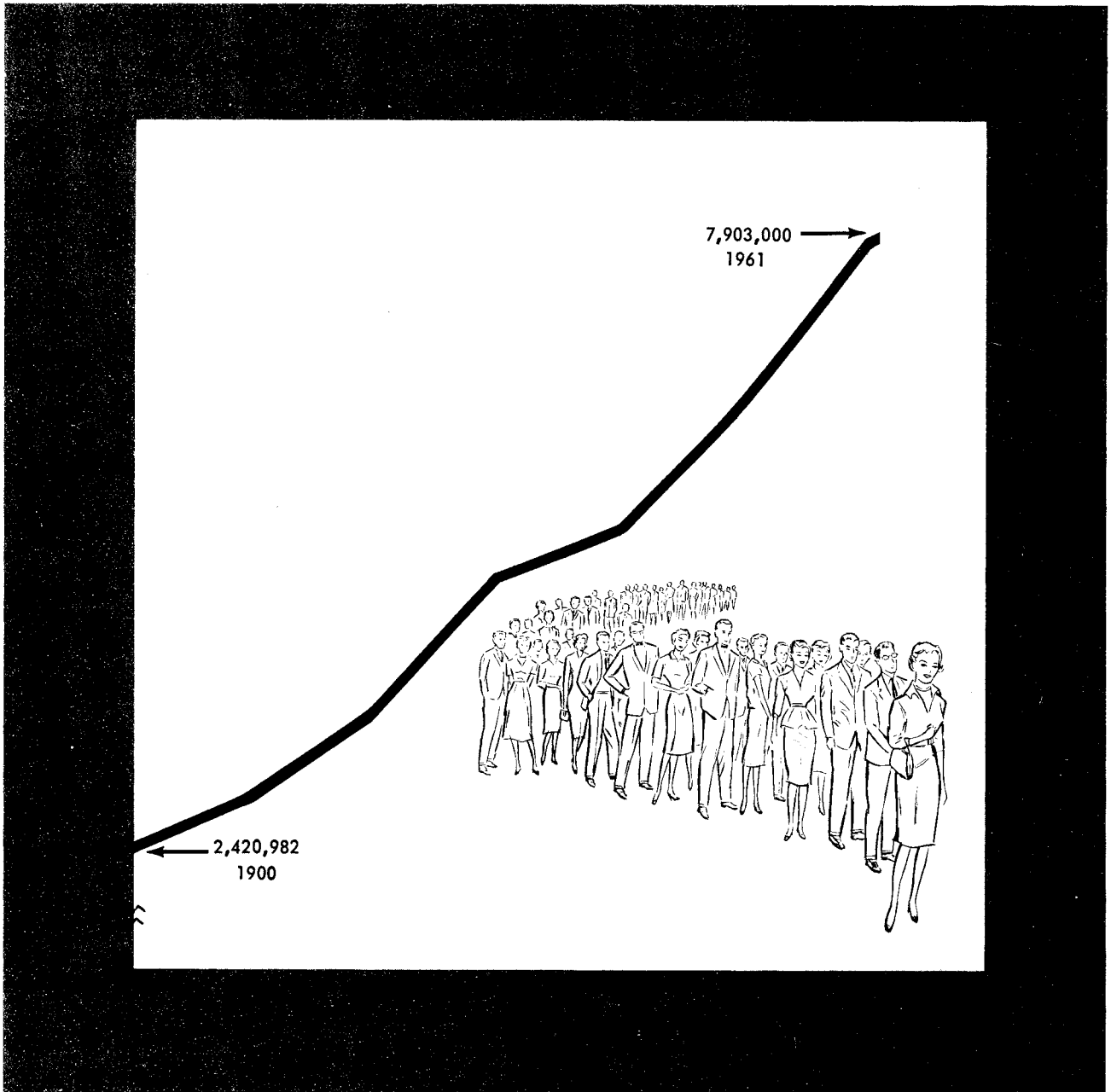


<b>POPULATION</b>	increased from 6,371,766 to 7,903,000 24% increase
<b>LIVE BIRTHS</b>	'50 - '57 7 years uninterrupted increase '57 208,488 all time high '61 192,825 4th consecutive year of decline
<b>BIRTHS IN HOSPITALS</b>	97.0% in 1950; now 99.4%
<b>ILLEGITIMACY RATE</b>	increased by 51%, from 27.6 to 41.6
<b>DEATH RATE</b>	1950 - 9.0; 1961 - 8.5, continuing slight decrease
<b>INFANT DEATH RATE</b>	declined from 26.3 to 23.9, 9% decrease
<b>MATERNAL DEATH RATE</b>	substantial decrease of 30%, from 5.7 to 4.0
<b>PERINATAL DEATH RATE</b>	declined from 35.4 to 30.0
<b>TUBERCULOSIS DEATH RATE</b>	remarkable decrease of 79%, from 19.9 to 4.2
<b>MARRIAGE RATE</b>	increasing trend in last 3 years, now 16.0
<b>DIVORCE RATE</b>	minor annual 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 GROWING POPULATION



## 1961 POPULATION TRIPLES THAT OF 1900

Source of data: Bureau of Census decennial census counts for 1900-1960, University of Michigan Population Studies Center estimate for July 1, 1961.



CHART III

# POPULATION TRENDS BY ECONOMIC AREAS Michigan 1900-1961

## Percentage Distribution

## Numerical Distribution

MICHIGAN 1900 1910 1920 1930 1940 1950 1960 1961

2,420,982 2,810,173 3,668,412 4,842,325 5,256,106 6,371,766 7,823,194 7,903,000

### UPPER PENINSULA

	1900	1910	1920	1930	1940	1950	1960	1961
TOTAL	10.8	11.6	9.1	6.6	6.1	4.7	3.9	3.9
Area 1	6.8	7.7	6.0	4.2	3.8	2.8	2.3	2.3
Area 2	4.0	3.9	3.1	2.4	2.3	1.9	1.6	1.6

	1900	1910	1920	1930	1940	1950	1960	1961
TOTAL	261,362	325,628	332,556	318,676	323,544	302,258	305,952	312,200
Area 1	164,654	215,791	218,916	204,608	200,265	178,251	177,431	180,300
Area 2	96,708	109,837	113,640	114,068	123,279	124,007	128,521	131,900

### LOWER PENINSULA upper part

	1900	1910	1920	1930	1940	1950	1960	1961
TOTAL	14.5	13.7	9.1	6.2	6.4	5.7	5.0	5.1
Area 3	4.3	4.0	2.5	1.8	1.8	1.6	1.4	1.4
Area 4	10.2	9.7	6.6	4.4	4.6	4.1	3.6	3.7

	1900	1910	1920	1930	1940	1950	1960	1961
TOTAL	351,473	385,609	332,837	297,318	334,345	359,788	390,260	399,700
Area 3	104,105	111,929	91,857	84,774	92,266	100,654	108,163	109,400
Area 4	247,568	273,680	240,980	212,544	242,077	258,134	282,097	290,300

### lower part

	1900	1910	1920	1930	1940	1950	1960	1961
TOTAL	74.7	74.7	81.3	87.2	87.5	89.6	91.1	91.0
Area 5,A	14.4	12.8	10.1	7.8	7.9	7.4	7.2	7.3
Area 6,B,C	13.5	13.2	11.6	11.0	10.8	11.1	11.2	11.2
Area 7,D,E	12.5	11.9	12.1	12.4	12.2	12.6	12.6	12.6
Area 8,F	23.2	26.5	39.5	48.7	49.4	52.0	53.0	52.7
Area 9,G	11.1	10.3	8.5	7.3	7.2	7.3	7.2	7.2

	1900	1910	1920	1930	1940	1950	1960	1961
TOTAL	348,573	359,052	371,379	380,007	417,703	473,288	567,024	574,300
Area 5,A	377,668	371,649	423,971	532,676	566,566	685,967	867,838	881,700
Area 6,B,C	302,148	335,484	444,563	598,666	642,359	769,691	981,993	998,500
Area 7,D,E	562,572	743,745	1,450,442	2,362,921	2,592,981	3,318,068	4,143,121	4,168,300
Area 8,F	266,986	289,006	312,664	352,061	378,610	463,706	567,006	568,300

### Metropolitan Areas

Area	1900	1910	1920	1930	1940	1950	1960	1961
A	3.4	3.2	2.7	2.5	2.5	2.4	2.4	2.4
B	5.4	5.7	5.0	5.0	4.7	4.5	4.6	4.7
C	1.5	1.4	1.7	1.7	1.8	1.9	1.9	1.9
D	1.7	2.3	3.4	4.4	4.3	4.3	4.8	4.8
E	1.6	1.9	2.2	2.4	2.5	2.7	2.7	2.7
F	17.6	21.8	35.6	45.0	45.2	47.3	48.1	47.9
G	1.8	2.2	1.9	1.9	1.9	2.0	2.2	2.2
Western (B,C,G)	8.7	9.3	8.6	8.6	8.4	8.4	8.7	8.8
Eastern (A,D,E,F)	24.3	29.2	43.9	54.3	54.5	56.7	58.0	57.8
Non-Metropolitan Areas	41.7	36.2	29.3	24.3	24.6	24.5	24.4	24.4

### Metropolitan Areas

Area	1900	1910	1920	1930	1940	1950	1960	1961
A	81,222	89,290	100,286	120,717	130,468	153,515	190,752	192,900
B	129,714	159,145	183,041	240,511	246,338	288,292	363,187	370,500
C	37,036	40,577	62,362	94,501	94,501	121,545	149,943	151,400
D	41,804	64,555	125,668	211,641	227,944	374,313	381,900	381,900
E	39,818	53,310	81,554	116,587	130,616	172,941	211,296	214,000
F	426,829	613,773	1,305,798	2,177,343	2,377,329	3,016,197	3,762,360	3,781,800
G	44,310	60,427	71,225	91,368	100,085	126,707	169,712	172,400
Western (B,C,G)	211,060	260,149	316,628	416,509	440,924	536,544	682,842	694,300
Eastern (A,D,E,F)	589,673	820,928	1,613,306	2,626,288	2,866,357	3,613,616	4,538,721	4,570,600
Non-Metropolitan Areas	1,007,214	1,017,859	1,073,085	1,183,534	1,290,938	1,560,560	1,905,419	1,926,200

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. Of the remaining 9%, 4% is in the Upper Peninsula and 5% is in 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.

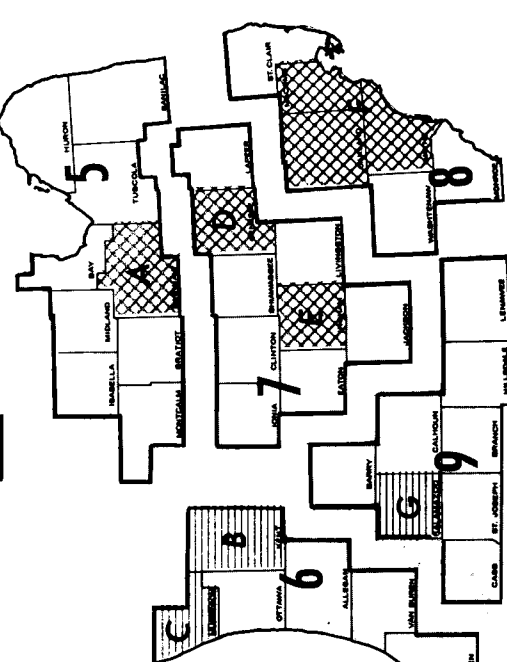
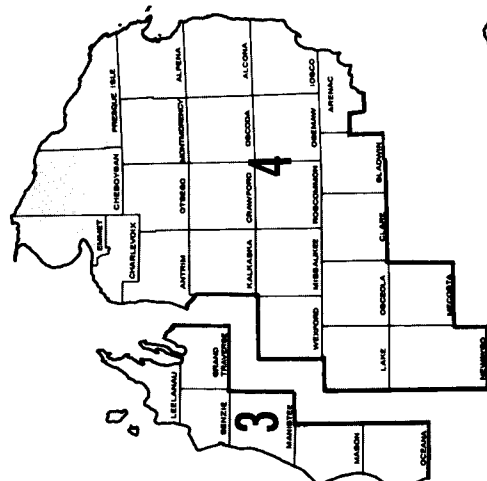
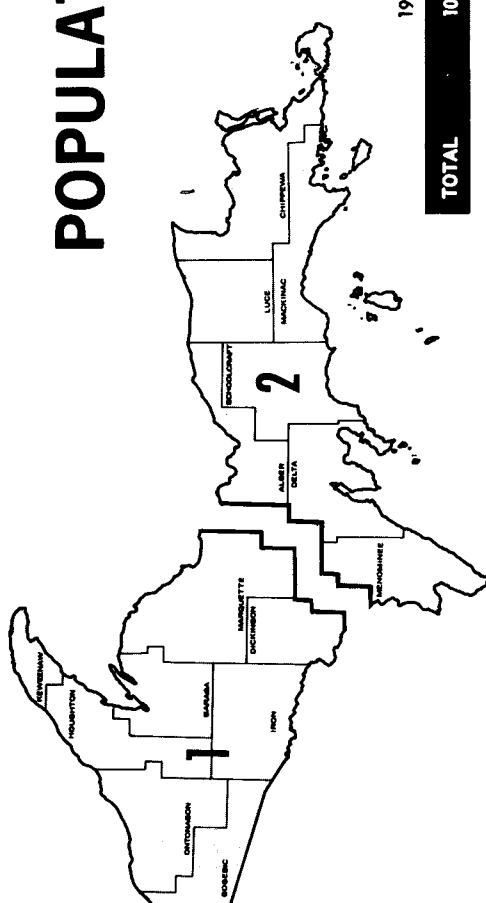
It is to be remembered that the trend of an area may be decreasing percentage wise yet increasing number wise.

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 1961 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 5,264,900 in 1961. 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 1900-1961, 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.

Source of data: Bureau of Census decennial census counts for 1900-1960, University of Michigan Population Studies Center Estimate for July 1, 1961.



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 metropolitan areas are mutually exclusive.

# BIRTH and DEATH RATES

## Michigan 1900 - 1961

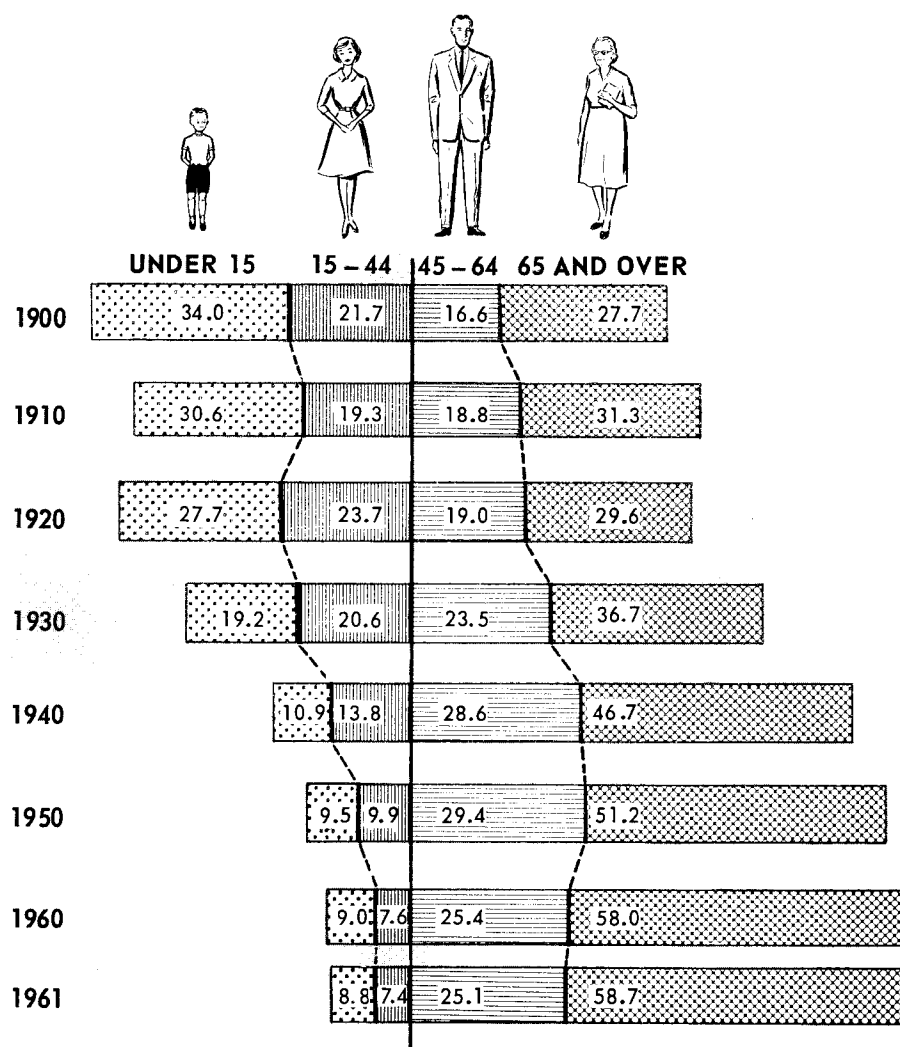


From the beginning of the century the birth rate trend was upward, reaching a high of 26.2 in 1916 and 1917. The rate then declined to an all time low of 16.2 during the depression year of 1933. With the exception of the 2 years at the close of the war 1944 and 1945, the trend continued upward again reaching an all time high of 27.4 in 1956. The trend then reversed with the rate declining to 24.9 in 1959, remaining the same in 1960, and declining to 24.4 in 1961.

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 1961 death rate of 8.5 represents a drop of 37% since 1900.

# AGE AT DEATH - a changing pattern

## Percentage Distribution - Michigan, 1900-1961



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%
1961	16%	84%

The trend has been a gradual decrease in each of the age groups under 45 years and a gradual increase in the combined 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 approximately 1/12 at the present time. In contrast only slightly over 1/4 of all deaths occurred in the 65 & over age group in 1900; the proportion in 1961 has more than doubled.

Progress during the last 30 years is indicated by the fact that in 1961 the 65 & over age group alone accounted for almost the same proportion of deaths as the combined age groups 45 - 64 and 65 & over in 1930. The proportion was 59% for the one age group 65 & over in 1961 as compared with 60% for the combined age groups 45 - 64 and 65 & over in 1930.

The above 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 1940, 1950, 1961

## 1940

1 DISEASES OF HEART	15,480	29.7%
2 CANCER	6,513	12.5%
3 VASCULAR LESIONS OF C.N.S.	4,690	9.0%
4 ACCIDENTS	3,961	7.6%
5 NEPHRITIS & NEPHROSIS	2,918	5.6%
6 PNEUMONIA & INFLUENZA	2,747	5.3%
7 TUBERCULOSIS	1,752	3.4%
8 DIABETES	1,408	2.7%
9 PREMATURE BIRTHS	1,298	2.5%
10 ARTERIO-SCLEROSIS	941	1.8%

TOTAL DEATHS 52,092 (100%)

## 1950

1 DISEASES OF HEART	20,521	35.6%
2 CANCER	8,685	15.1%
3 VASCULAR LESIONS OF C.N.S.	6,376	11.1%
4 ACCIDENTS	3,783	6.6%
5 PNEUMONIA & INFLUENZA	1,481	2.6%
6 DIABETES	1,438	2.5%
7 ARTERIO-SCLEROSIS	1,296	2.3%
8 TUBERCULOSIS	1,270	2.2%
9 IMMATUREITY	1,096	1.9%
10 NEPHRITIS & NEPHROSIS	1,004	1.7%

TOTAL DEATHS 57,567 (100%)

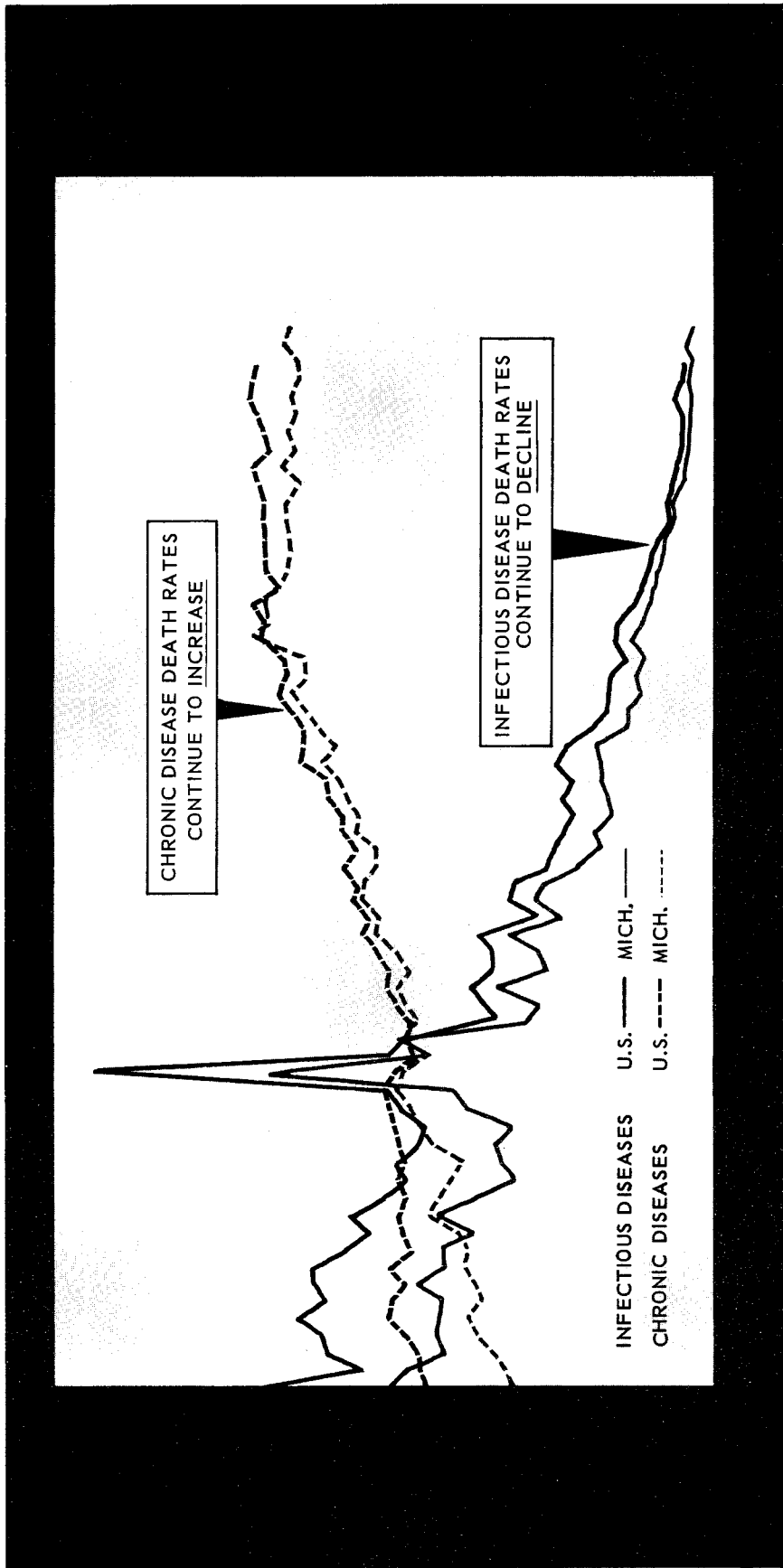
## 1961

1 DISEASES OF HEART	25,519	37.9%
2 CANCER	11,476	17.0%
3 VASCULAR LESIONS OF C.N.S.	7,745	11.5%
4 ACCIDENTS	3,692	5.5%
5 DIABETES	1,778	2.6%
6 PNEUMONIA & INFLUENZA	1,762	2.6%
7 ARTERIO-SCLEROSIS	1,448	2.2%
8 CONGENITAL MALFORMATIONS	1,095	1.6%
9 IMMATUREITY	1,003	1.5%
10 CIRRHOSIS OF LIVER	858	1.3%

TOTAL DEATHS 67,375 (100%)

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

## MICHIGAN and UNITED STATES, 1900 - 1961



\* Includes following diseases indicated by International Classification Seventh Revision Detailed List Numbers in parenthesis: Chronic Diseases - Cancer (140-205), Diabetes (260), Vascular lesions affecting central nervous system (330-334), Diseases of heart (400-443), 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).

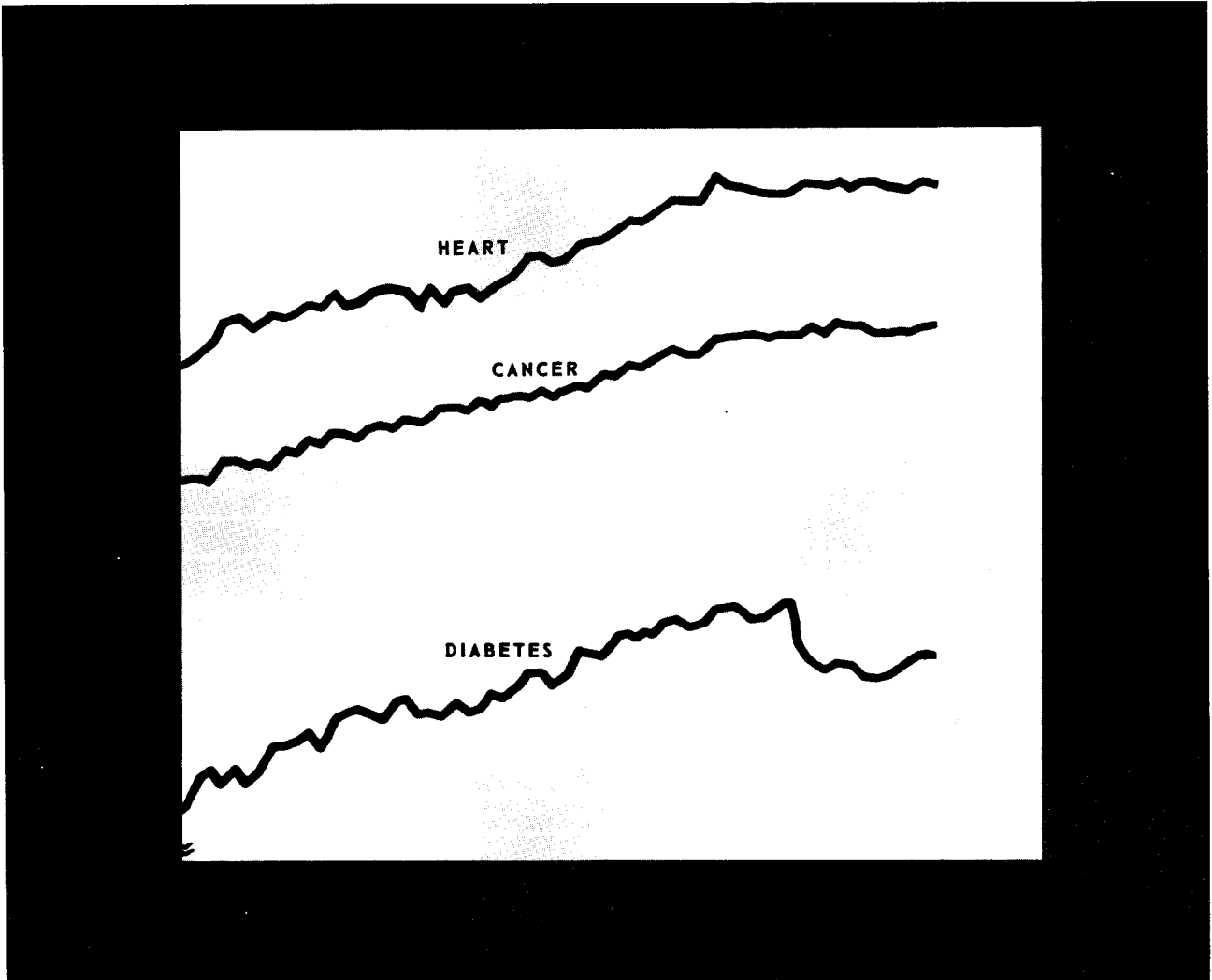
Source of United States data: *Building America's Health, Vol. III, Table 36, and Vital Statistics of United States, Vol. II, III.* (U.S. data for 1960 and 1961 not available.)

Statistical Methods Section  
Michigan Department of Health

# MORTALITY TRENDS

## heart, cancer, diabetes

### Michigan 1900-1961



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, during this period the death rates 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.

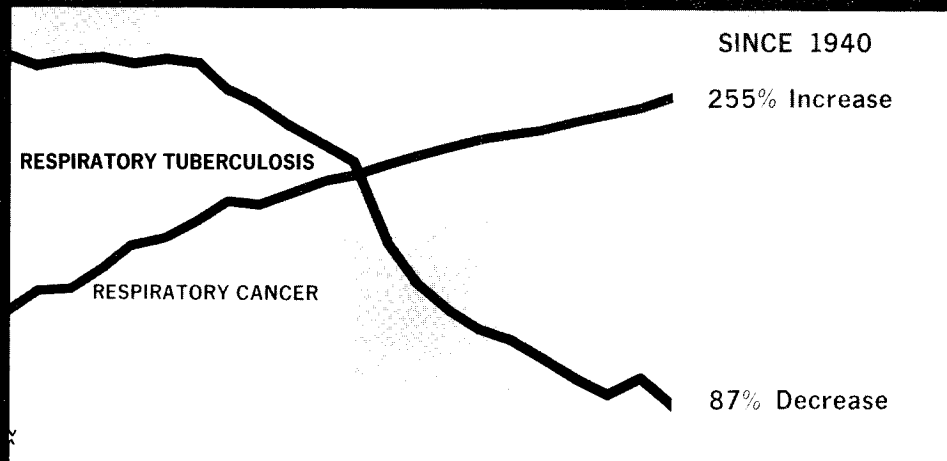
Since 1950, although there have been minor fluctuations in both heart disease and cancer death rates, they have followed similar trend patterns. The diabetes death rate dropped noticeably in 1950 due largely to classification changes; since then there have been minor fluctuations.



# CANCER MORTALITY TRENDS

## Michigan 1940 - 1961

### RESPIRATORY MORTALITY COMPARISON : CANCER WITH TUBERCULOSIS



1940: Respiratory Tuberculosis Death Rate was 4.4 times the Respiratory Cancer Death Rate.  
 1961: Respiratory Cancer Death Rate was 6.0 times the Respiratory Tuberculosis Death Rate.

### CANCER MORTALITY BY SITE

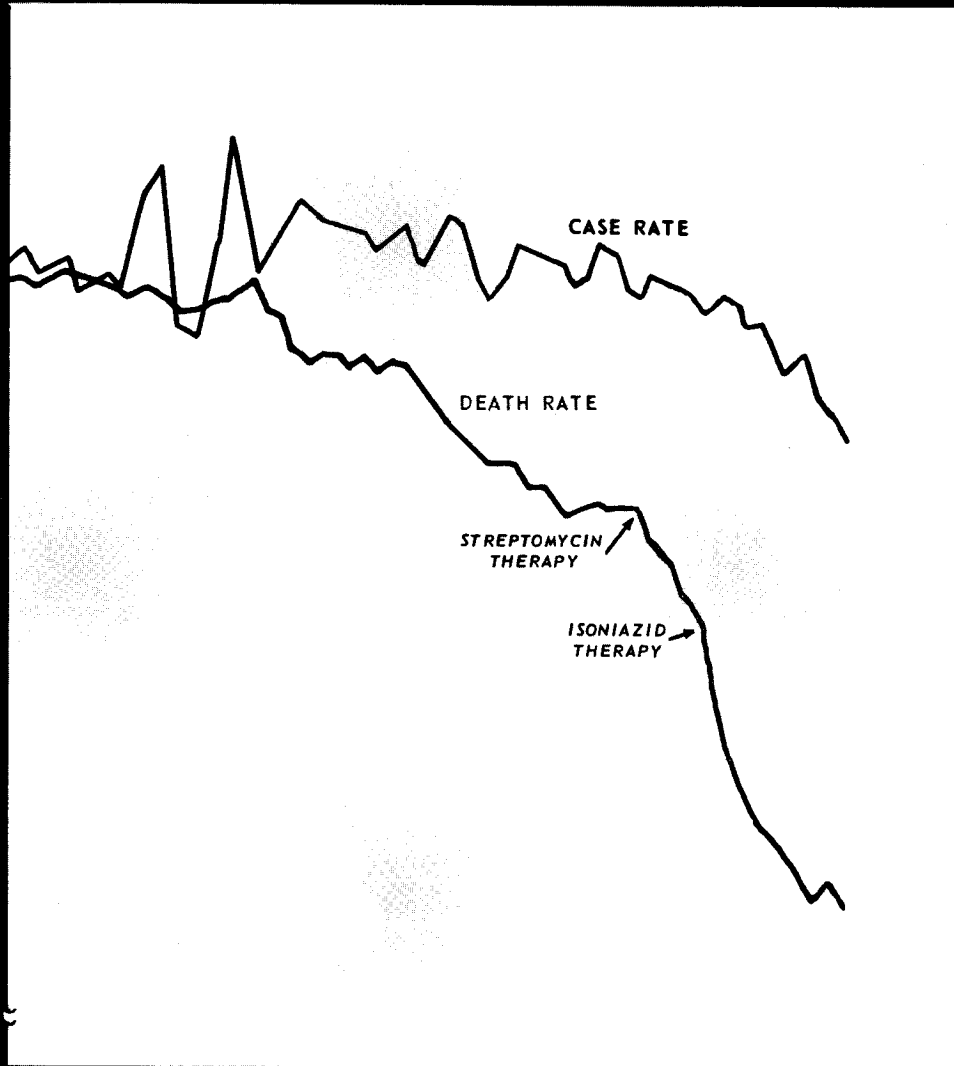
CAUSE	NUMBER						RATE PER 100,000 POPULATION					
	1940	1945	1950	1955	1960	1961	1940	1945	1950	1955	1960	1961
TOTAL	6,513	7,486	8,685	10,297	11,331	11,476	123.9	137.7	136.3	142.3	144.8	145.2
Buccal cavity & pharynx	191	206	219	222	261	247	3.6	3.8	3.4	3.1	3.3	3.1
Digestive organs & peritoneum	2,884	3,227	3,464	3,880	3,935	3,991	54.9	59.4	54.4	53.6	50.3	50.5
Esophagus	123	125	134	216	195	204	2.3	2.3	2.1	3.0	2.5	2.6
Stomach	1,133	1,119	1,076	1,030	970	937	21.6	20.6	16.9	14.2	12.4	11.9
Intestines (including duodenum & rectum)	980	1,204	1,394	1,701	1,672	1,750	18.6	22.2	21.9	23.5	21.4	22.1
Liver & biliary passages	384	453	468	411	471	430	7.3	8.3	7.3	5.7	6.0	5.4
Pancreas	202	244	329	463	570	601	3.8	4.5	5.2	6.4	7.3	7.6
Other	62	82	63	59	57	69	1.2	1.5	1.0	0.8	0.7	0.9
<b>Respiratory system</b>	<b>347</b>	<b>549</b>	<b>923</b>	<b>1,318</b>	<b>1,756</b>	<b>1,846</b>	<b>6.6</b>	<b>10.1</b>	<b>14.5</b>	<b>18.2</b>	<b>22.4</b>	<b>23.4</b>
Breast & genito-urinary organs	2,195	2,396	2,520	2,975	3,262	3,287	41.8	44.1	39.5	41.1	41.7	41.6
Breast	643	671	774	878	985	1,023	12.2	12.3	12.1	12.1	12.6	12.9
Uterus	660	704	594	677	620	660	12.6	13.0	9.3	9.4	7.9	8.4
Other female genital organs	156	217	278	347	383	354	3.0	4.0	4.4	4.8	4.9	4.5
Male genital organs	414	462	451	602	648	670	7.9	8.5	7.1	8.3	8.3	8.5
Urinary organs	322	342	423	471	626	580	6.1	6.3	6.6	6.5	8.0	7.3
Other & unspecified sites	896	1,108	1,559	1,902	2,117	2,105	17.0	20.4	24.5	26.3	27.1	26.6
Skin	84	115	106	140	134	131	1.6	2.1	1.7	1.9	1.7	1.7
Leukemia & aleukemia	215	255	321	444	516	516	4.1	4.7	5.0	6.1	6.6	6.5
Hodgkin's disease	62	80	98	126	145	150	1.2	1.5	1.5	1.7	1.9	1.9
Other	535	658	1,034	1,192	1,322	1,308	10.2	12.1	16.2	16.5	16.9	16.5

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 21 years. For every 100,000 people there were more than three times as many people dying of cancer of the respiratory system in 1961 as in 1940; the rates were 23.4 and 6.6 respectively. Also cancer of the respiratory system has become an increasingly greater proportion of the total cancer problem representing 16% of all the cancer deaths in 1961 as compared with 5% in 1940.

At the same time, death rates for cancer of the pancreas have doubled while there has been a noticeable decrease in the death rate due to cancer of the stomach.

# TUBERCULOSIS CASE & DEATH RATES

## Michigan 1900-1961

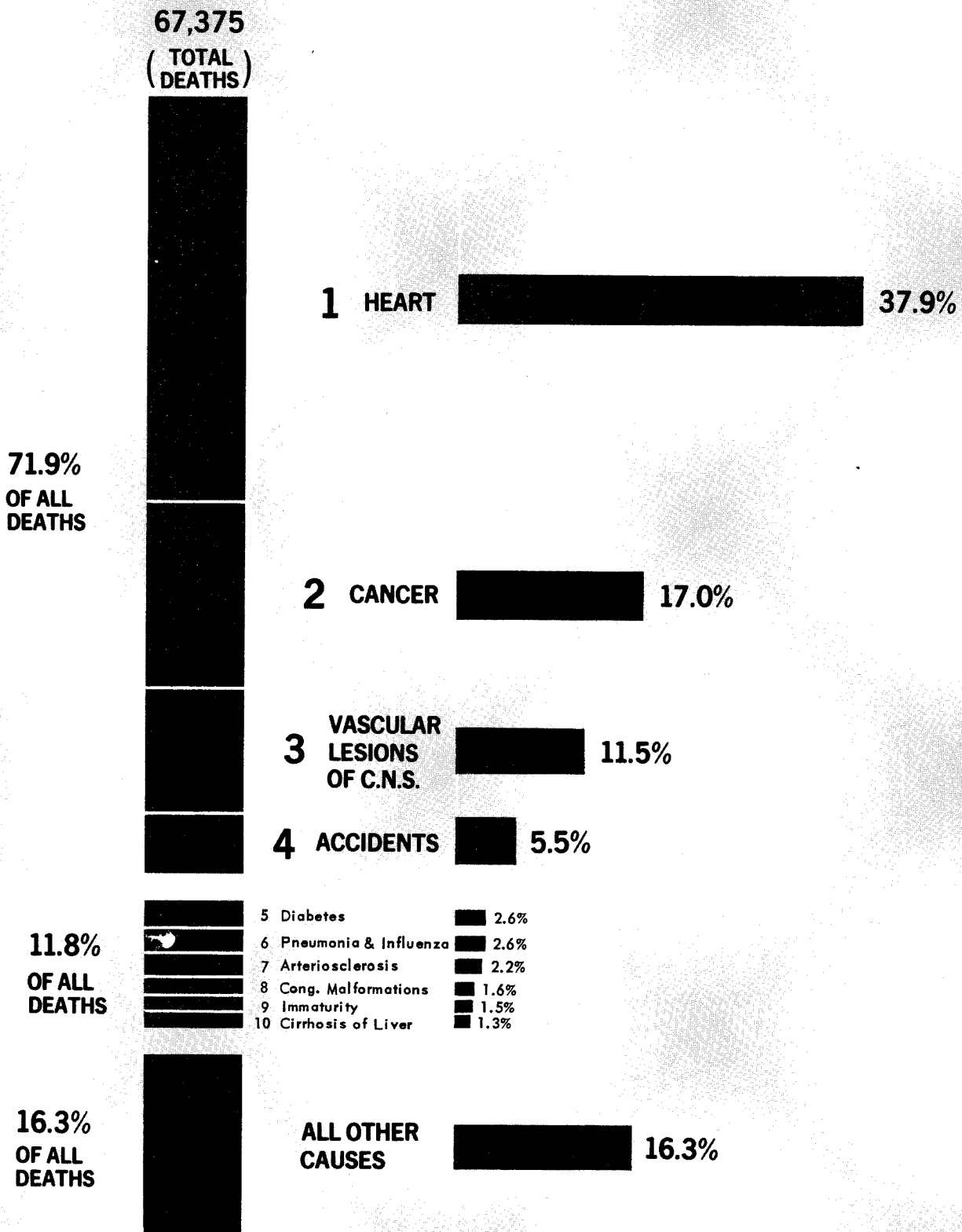


**CASE RATE LINE:** The major fluctuations in the earlier years probably represent the increased number of new cases found as a result of victims of pulmonary epidemics coming under medical care. Later fluctuations are undoubtedly due to variations in the intensity of case finding efforts and case reporting. 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 1961



# TEN LEADING CAUSES OF DEATH

## Distribution by Age Groups - Michigan 1961

CAUSE	TOTAL PERCENT	NUMBER			PERCENT				
		Under 15 Yrs	$\frac{15}{44}$	$\frac{45}{64}$ 65 & Over *	Total	Under 15 Yrs	$\frac{15}{44}$ 45 64 Over *		
All Causes	67,375 100	5,957	4,990	16,916 39,512	100	8.8	7.4	25.1	58.7
Diabetes mellitus	1,778 2.6	3	96	473 1,206	100	0.2	5.4	26.6	67.8
Pneumonia and influenza **	1,762 2.6	465	100	260 937	100	26.4	5.7	14.7	53.2
Arteriosclerosis	1,448 2.2	-	5	81 1,362	100	0	0.3	5.6	94.1
Congenital malformations	1,095 1.6	966	71	39 19	100	88.2	6.5	3.6	1.7
Immaturity	1,003 1.5	1,003	-	-	100	100	0	0	0
Cirrhosis of liver	858 1.3	5	115	457 281	100	0.6	13.4	53.3	32.7
All other causes	10,999 16.3	2,615	1,373	2,558 4,453	100	23.8	12.5	23.2	40.5

\* Includes 3 of unknown age.

\*\* Excluding pneumonia of newborn.

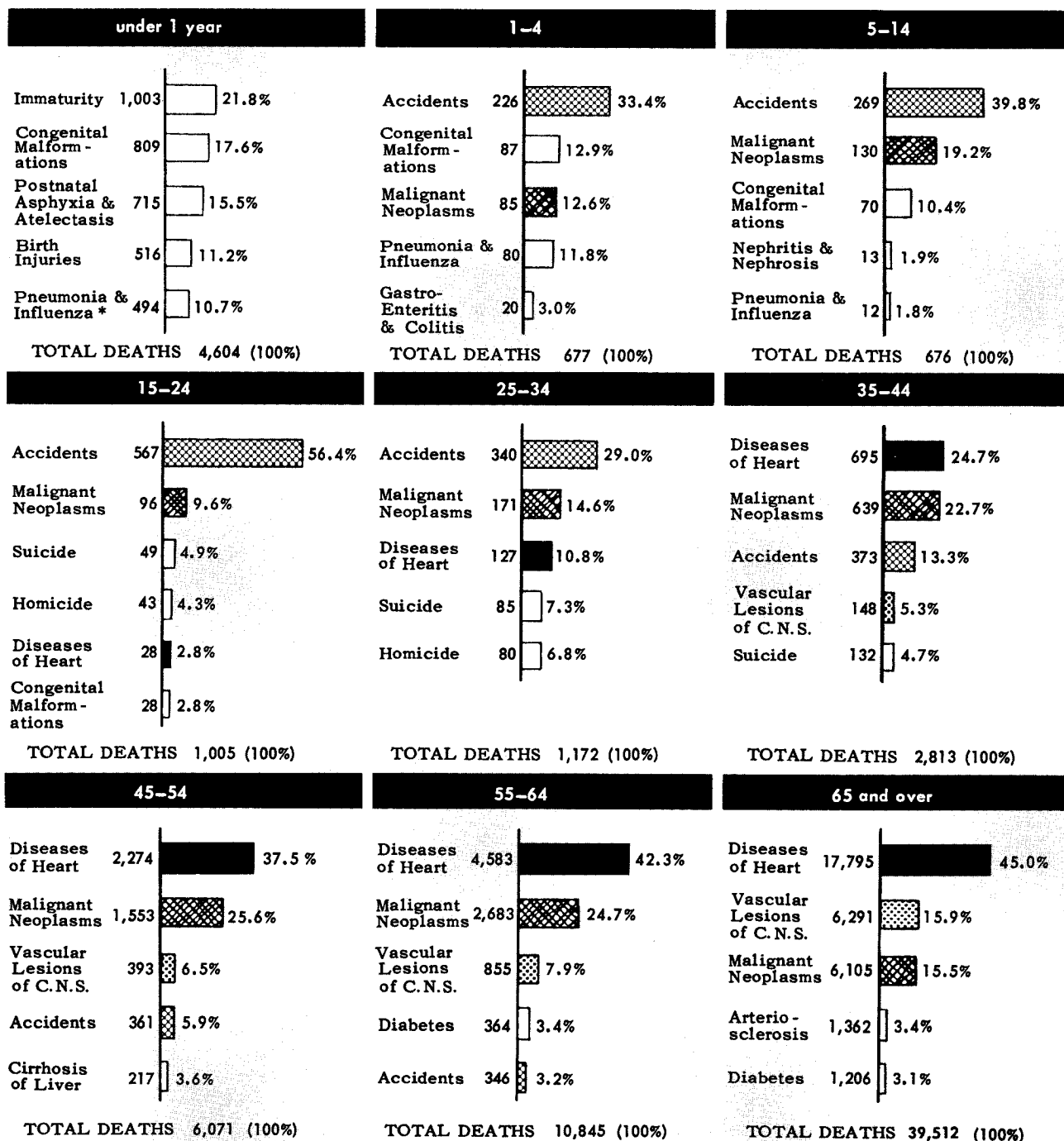
The ten leading causes of death accounted for 72% of all deaths. The first three of these, heart, cancer and vascular lesions occurred largely among the older age groups, with only 3%, 10%, and 3%, respectively, under 45 years.

However, in the fourth leading cause, accidental deaths, 52% were under 45 years of age. With the exception of deaths due to immaturity and congenital malformations, which occur largely in infancy, accidental deaths is the only one of the ten leading causes with approximately half (52%) of the deaths under 45 years of age. The sixth cause, pneumonia and influenza, follows in line in this respect with 32% of the deaths under 45 years of age.

It is interesting to note that diabetes, the fifth 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 1961



\* INCLUDES PNEUMONIA OF NEWBORN.

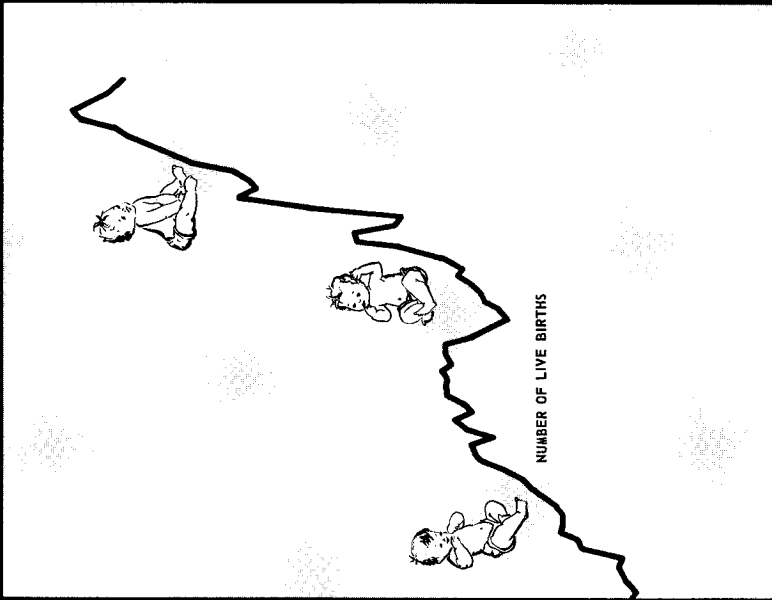
Diseases of the heart lead as a cause of death among all age groups 35 years and over and constitute an increasingly larger percentage of the total deaths in each successively older age group. In 1961 they also appear among the first 5 leading causes of death in each age group 15 years and over.

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.

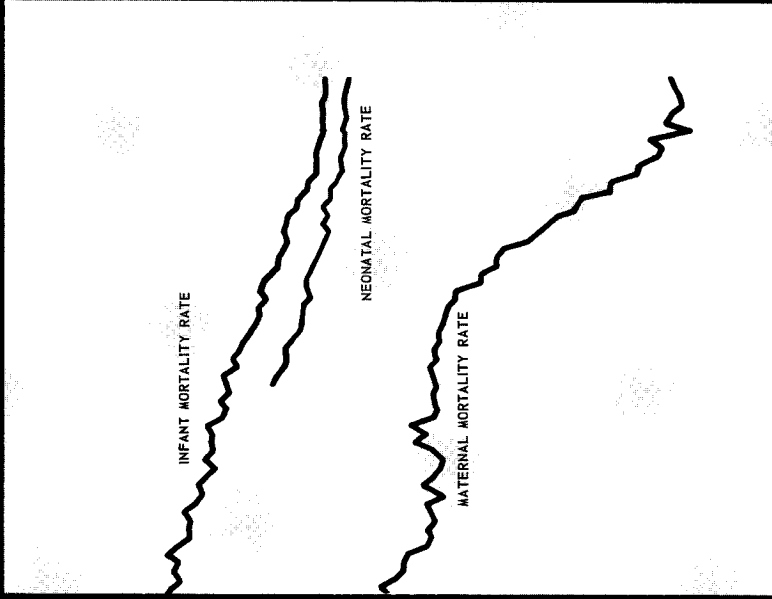
Malignant neoplasms first appear in the age group 1-4 years as the 3rd ranking cause of death. It is the 2nd leading cause in the 5-14 years age group and maintains this position in all successive age groups until shifting to 3rd position in the 65 & over group.

# LIVE BIRTHS, INFANT, NEONATAL, & MATERNAL MORTALITY RATES Michigan 1900-1961

NUMBER OF LIVE BIRTHS



INFANT, NEONATAL, & MATERNAL MORTALITY RATES



The number of live births has followed an increasingly upward trend since 1900 even though there were minor decreases during the depression years of the 1930's, the World War II years of the mid 1940's, and the past four years. An all time high of 208,488 was reached in 1957 after 9 consecutive years of increase. The year 1958 marked the beginning of a decline which has continued through 1961.

Along with this 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. From 1900-1934 the mortality rates decreased more for infants than for mothers, 67% and 48% respectively. Since 1935 the pattern has reversed;

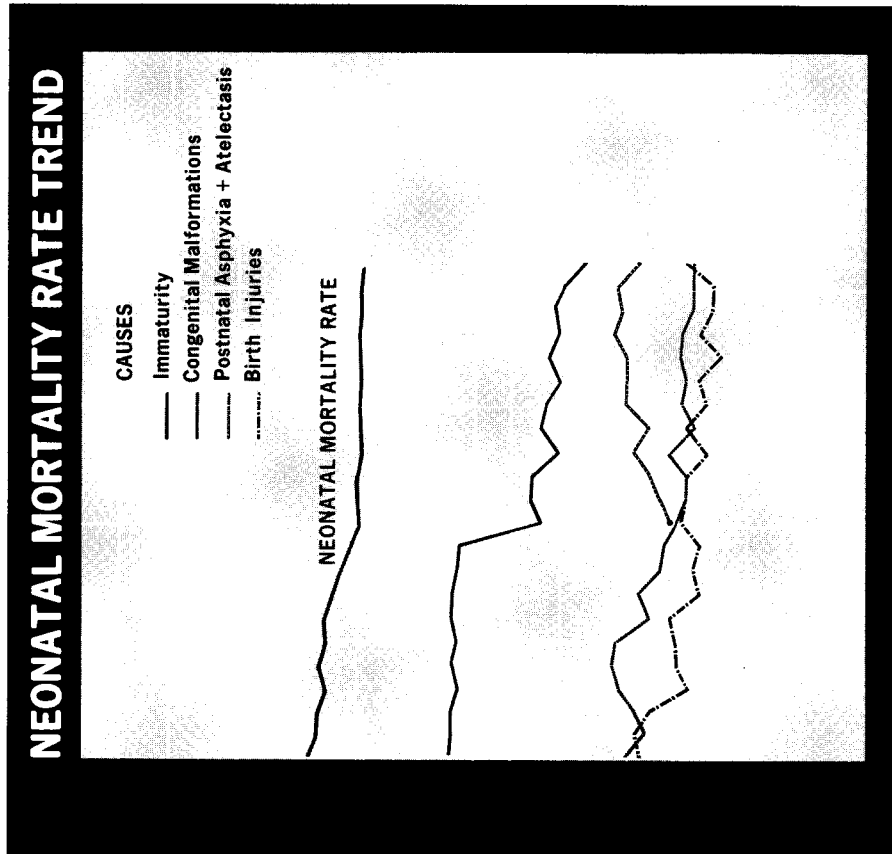
the mortality rate decreased almost twice as fast for mothers as for infants, 92% and 50% respectively.

Considerable progress, nevertheless, has been made in lowering the infant death rate with both the neonatal and postneonatal components contributing to the decline; however, the greater decline has been in the postneonatal age group. Since 1925 the postneonatal rate has declined by 83% from 35.1 to 5.9 as compared with a 56% decline in the neonatal rate from 40.6 to 18.0.

This progress in the reduction of the infant mortality rate has resulted in the number of neonatal deaths accounting for 75% of all infant deaths in 1961 as compared with slightly over 50% in 1925.

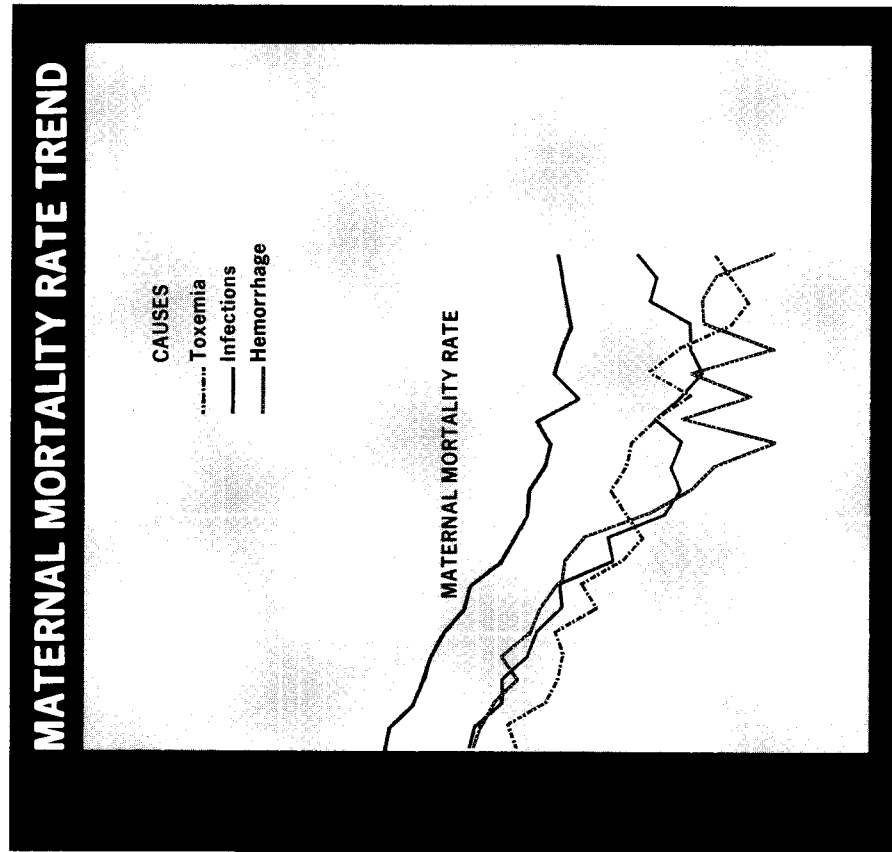
# TREND of LEADING CAUSES of NEONATAL and MATERNAL MORTALITY

Michigan 1940 - 1961



With two exceptions, the general trend of mortality rates for the above charted specific causes has been slowly downward. The two exceptions "Postnatal Asphyxia and Atelectasis" and "Pneumonia of the Newborn" have followed slightly increasing trends from 1950 through 1960 and then both declined in 1961. Immaturity, the leading cause of neonatal deaths, dropped suddenly in 1950 due largely to a change in coding classification.

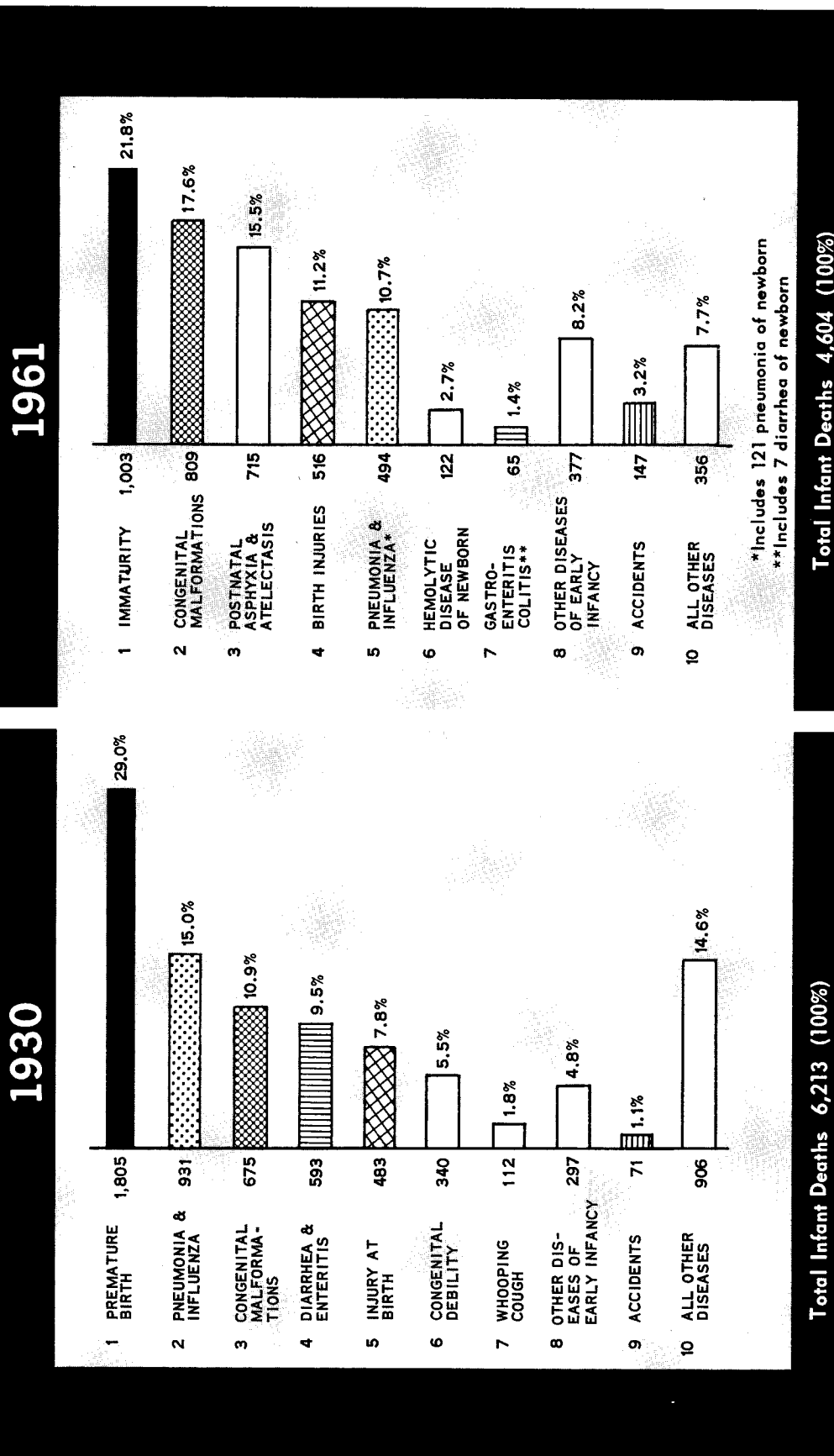
*Note: Neonatal deaths are deaths under 28 days of life.*



Prior to 1950 the mortality rates for Hemorrhage, Toxemia, and Infections, three major causes of maternal deaths followed a similar pattern of decline. Since then Toxemia and Hemorrhage, although following a fluctuating course, have continued to decline; conversely Infections have maintained an upward trend since 1956. Although there is an increase in the number of maternal deaths from septicemia, an ever increasing number of these deaths are due to the rising number of septic abortions usually self-induced or criminal.

# INFANT DEATHS: LEADING CAUSES

## Michigan 1930 & 1961



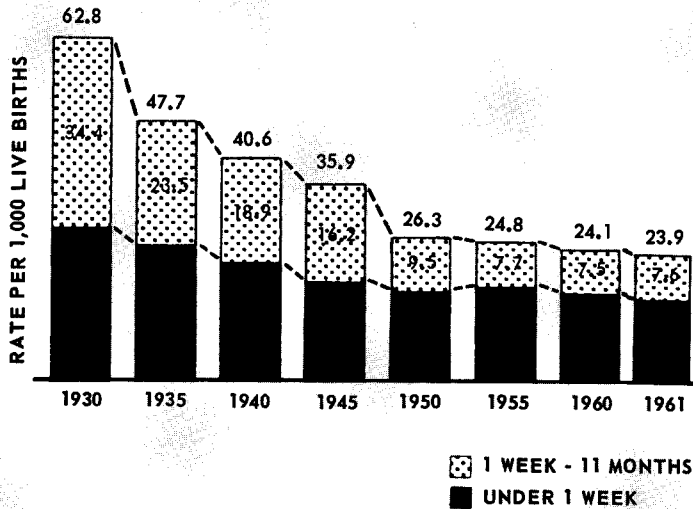
Infant deaths include deaths under 1 year of age.  
Colored bars indicate causes of death common to both years.



# INFANT MORTALITY TRENDS

## Michigan 1930-1961

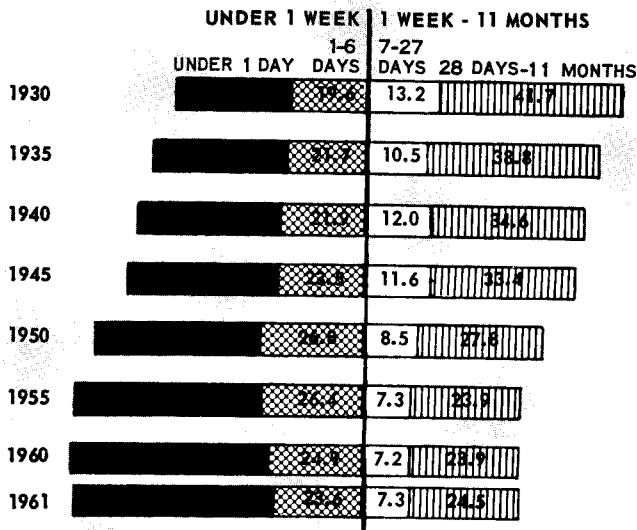
**COMPARISON OF DEATH RATES  
UNDER 1 WEEK AND 1 WEEK - 11 MONTHS**



78% decline:

43% decline:

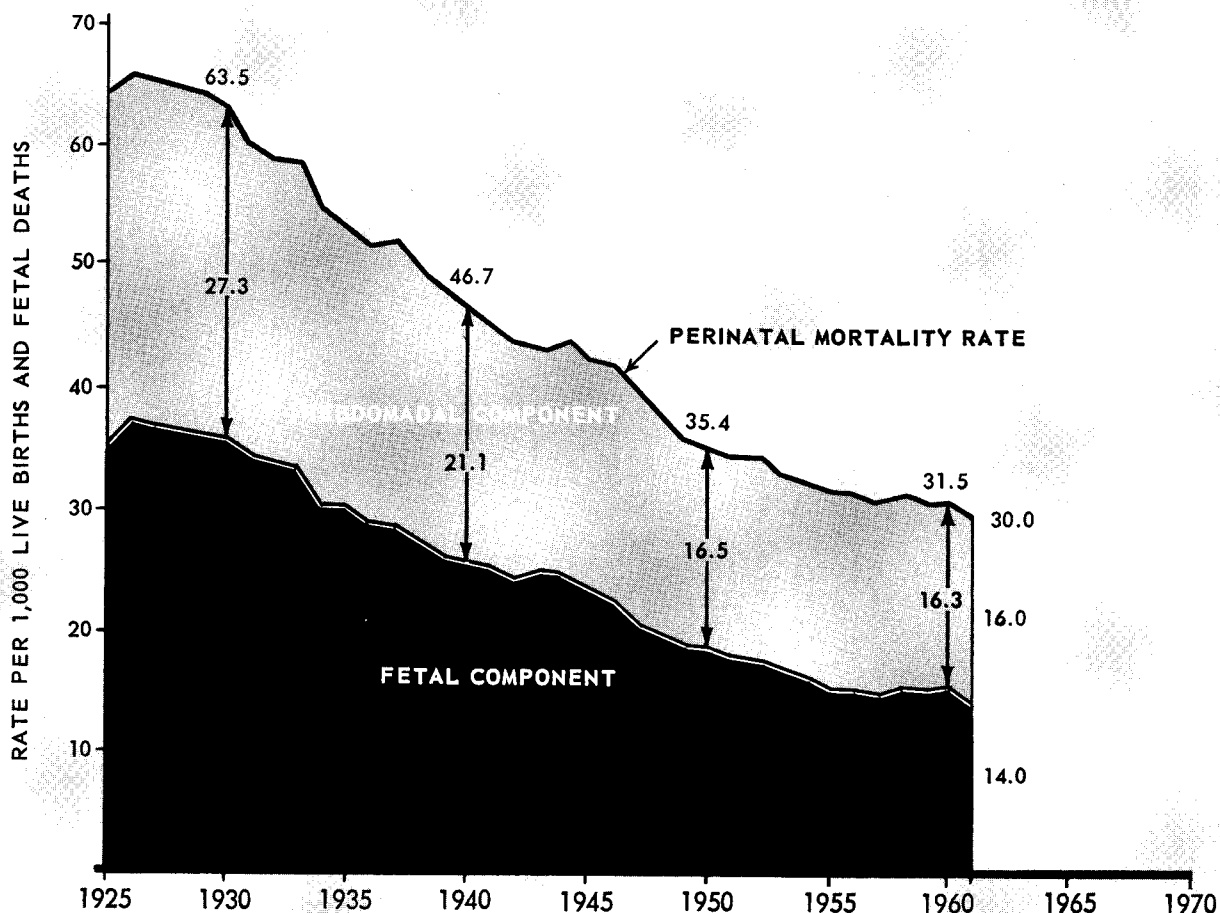
**AGE OF INFANT DEATHS - A SHIFTING PATTERN  
PERCENTAGE DISTRIBUTION**



1 to 1 ratio in 1930

2 to 1 ratio in 1961

# PERINATAL MORTALITY TRENDS and RELATIONSHIP of COMPONENT PARTS MICHIGAN 1925 - 1961



SINCE 1925

54% decrease in perinatal mortality rate:

fetal component decreased 61%  
hebdomadal component decreased 45%

Reversal in the relationship of the component parts:

	Fetal	Hebdomadal
1925	35.7	29.2
1961	14.0	16.0

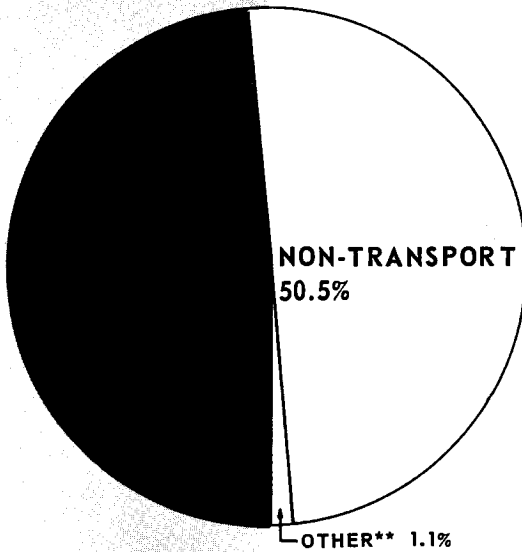
The fetal mortality rate was higher than the hebdomadal rate in 1925. Since then the decreasing pattern of these two rates has resulted in an hebdomadal rate higher than the fetal rate from 1955 through 1961. Thus, the hebdomadal component of the perinatal problem is now proportionately greater than the fetal.

*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.*

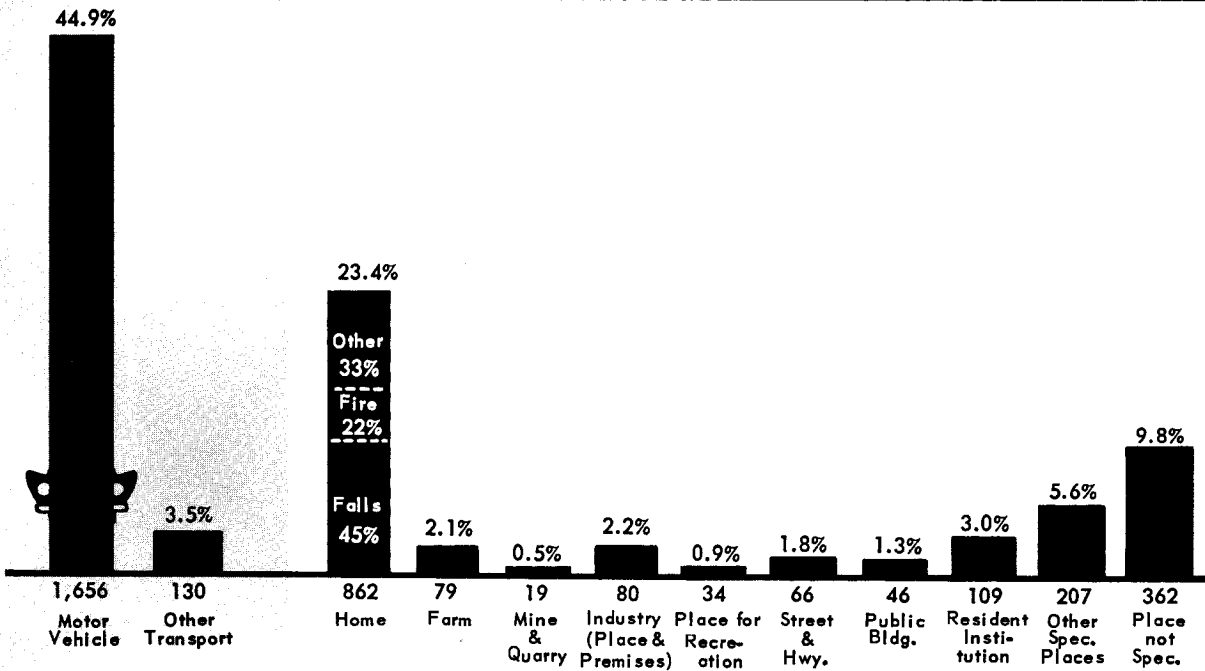
# 3,692 ACCIDENTAL DEATHS; 4th LEADING CAUSE OF DEATH

Michigan\* 1961

(percentage distribution)



TRANSPORT
NON-TRANSPORT



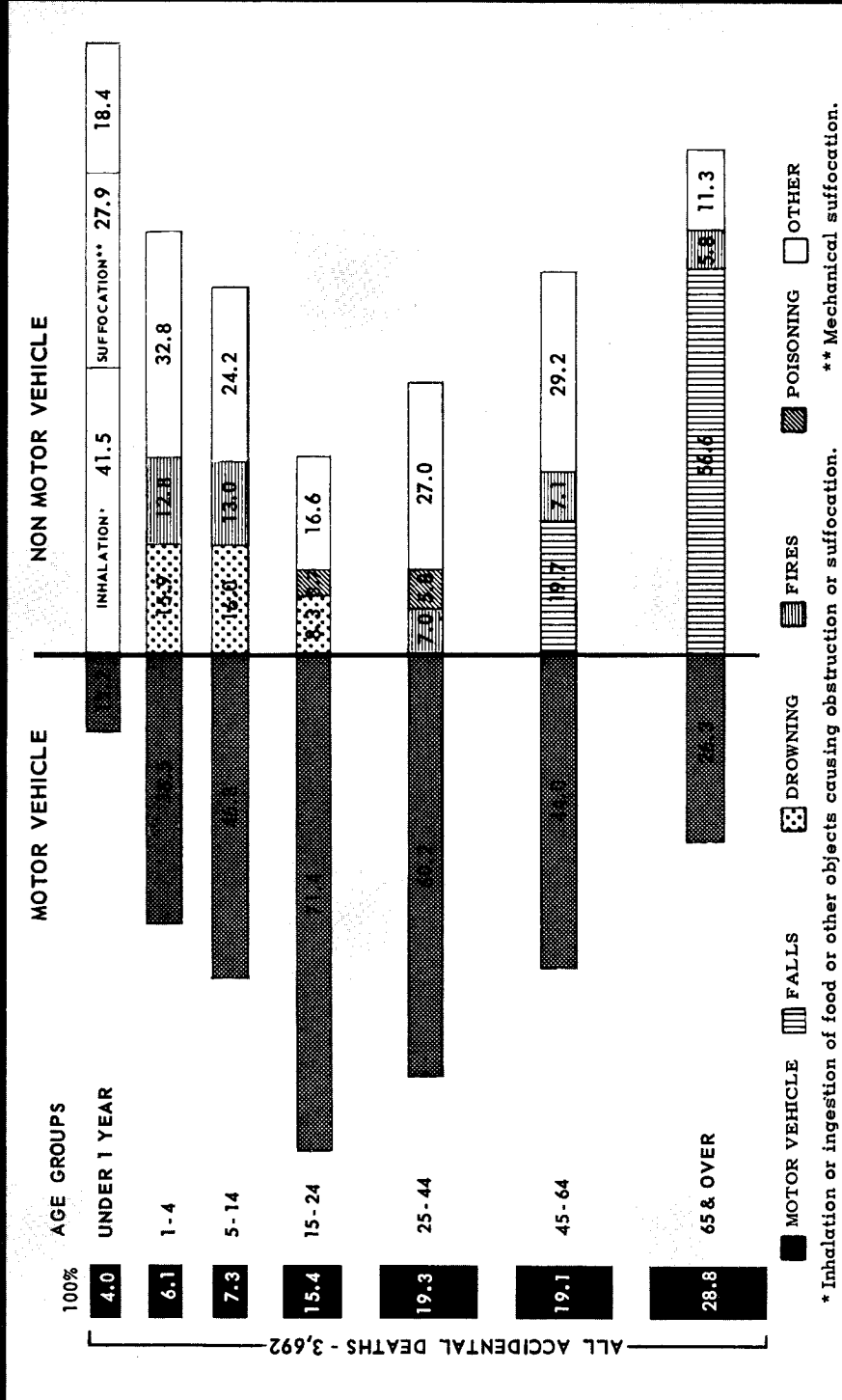
\* By place of residence

\*\* 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 1961

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

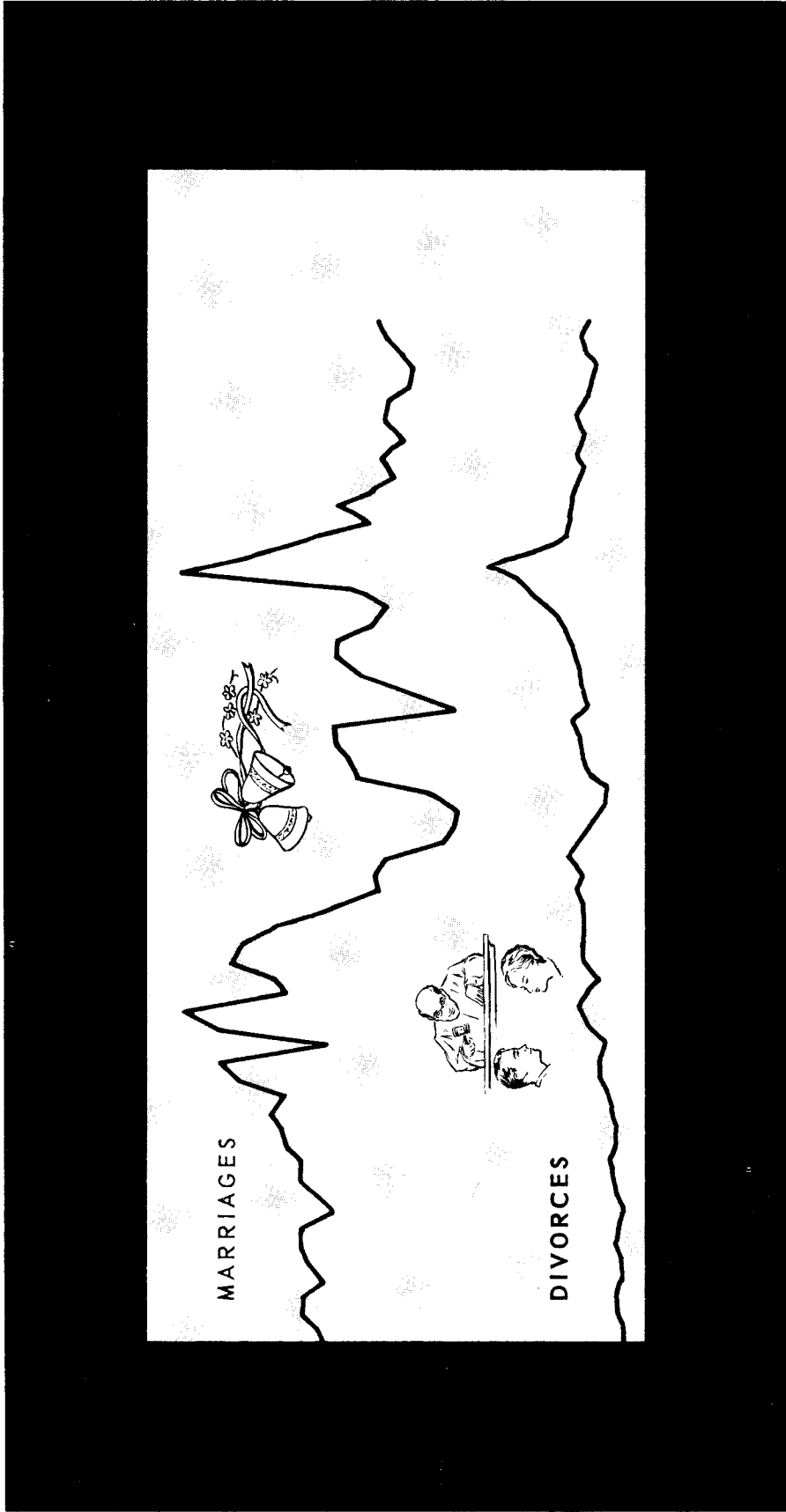


The proportion of motor vehicle accidental deaths increases with each advancing age group reaching a peak of 71% in the 15-24 year group; the proportion then decreases with each successively older age group.

Motor vehicle accidental deaths are the leading cause of accidental 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 57% of all accidental deaths in this age group.

# MARRIAGES and DIVORCES

## Michigan 1900-1961



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 there have been minor annual fluctuations in both marriage and divorce rates.

Note: All rates refer to persons married or divorced.

IRTHS

DEATHS

Illegitimate	DEATHS					
	All Ages	Under 1 Yr	Under 28 Days	Perinatal	Due to Immaturity	Fetal
332	32,453	6,866			620	1,32
365	32,834	6,319			524	1,50
383	31,472	5,949			608	1,79
490	33,176	6,488			542	1,81
562	34,494	6,419			632	1,91
444	34,679	7,054			751	2,04
1,090	37,033	7,952			830	2,35
1,041	36,701	6,906			855	2,35
888	36,761	7,697			975	2,69
1,068	36,313	7,443			1,152	2,54
1,054	39,913	7,998			2,050	2,55
1,083	38,007	7,131			2,223	2,71
1,222	38,804	6,985			2,340	2,90
1,227	40,827	7,659			2,480	2,95
1,192	39,906	7,431			2,391	3,11
1,363	40,441	6,943			2,207	3,35
1,351	46,047	8,415			2,498	3,68
1,101	47,236	7,916			2,369	3,55
1,142	54,611	8,197			2,362	3,68
1,002	45,136	5,560			2,183	3,36
1,445	51,982	8,587			2,512	3,77
1,346	44,186	7,584			2,481	3,66
1,180	43,817	6,730			1,793	3,77
1,210	49,333	7,477			1,911	3,65
1,443	47,304	7,088	4,119	6,791	1,970	3,70
1,258	49,417	7,498	4,022	6,667	1,987	3,67
1,669	54,080	7,620	4,054	6,773	1,986	3,81
1,872	50,600	6,766	3,915	6,794	1,911	3,82
1,853	54,755	6,806	3,739	6,594	1,846	3,70
1,632	56,117	6,605	3,777	6,613	1,853	3,71
1,600	51,561	6,213	3,624	6,518	1,805	3,71
1,633	49,068	5,187	3,084	5,643	1,473	3,22
1,697	49,569	4,630	2,798	5,210	1,372	2,98
2,041	48,507	4,094	2,591	4,906	1,364	2,77
2,124	50,440	4,377	2,717	4,781	1,419	2,60
2,194	51,051	4,170	2,550	4,832	1,389	2,71
2,157	54,777	4,479	2,647	4,726	1,395	2,62
2,234	53,468	4,374	2,700	4,919	1,415	2,70
2,331	50,678	4,319	2,734	4,984	1,484	2,75
2,217	52,017	3,952	2,594	4,706	1,396	2,57
2,280	52,092	4,022	2,629	4,749	1,298	2,60
2,370	52,671	4,166	2,687	4,991	1,353	2,76
2,532	52,738	4,606	3,091	5,581	1,575	3,06
2,569	56,774	4,804	2,979	5,563	1,488	3,21
3,115	54,016	4,326	2,784	5,140	1,412	2,81
3,485	53,641	4,008	2,670	4,906	1,339	2,70
3,908	54,856	4,541	3,323	5,978	1,735	3,16
4,311	56,807	5,055	3,677	6,583	1,953	3,42
4,310	56,520	4,617	3,352	5,968	1,820	3,13
3,953	57,107	4,520	3,232	5,746	1,795	2,95

# 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 - 1961

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

Year	Population*	LIVE BIRTHS		DEATHS							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	78,800	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
1960	7,823,194	195,056	7,200	67,912	4,702	3,580	6,247		1,148	3,008	75	61,090	16,656
1961	7,903,000	192,825	8,017	67,375	4,604	3,475	5,875		1,003	2,735	78	63,320	16,219

\* 1900 - 1960: United States Bureau of Census April 1 census counts and July 1 estimates.  
1961: University of Michigan Population Studies Center July 1 estimate.

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 IMMATURITY; MARRIAGE AND DIVORCE RATES  
MICHIGAN, 1900 - 1961

(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	R A T E										
	LIVE BIRTHS		D E A T H S							P E R S O N S	
	Total	Illegitimate	All Ages	Under 1 Yr	Under 28 Days	Peri-natal	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	52.0	15.5	29.6	35.6	18.7	4.9
1938	18.7	24.0	9.8	44.5	28.2	50.2	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
1960	24.9	36.9	8.7	24.1	18.4	31.5	5.9	15.4	3.8	15.6	4.3
1961	24.4	41.6	8.5	23.9	18.0	30.0	5.2	14.0	4.0	16.0	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. For 1910 through 1921 deaths due to immaturity also include deaths from congenital debility.



TABLE 2A - REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES  
MICHIGAN, 1900 - 1961

Year	Diphtheria	Scarlet fever	Smallpox	Typhoid fever	Whooping cough	Measles	Infectious hepatitis	Tuberculosis (all forms)	Meningococcal infections	Poliomylitis	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			
1919	7,896	6,269	2,381	1,254	1,829	8,885		4,231	155		5,077	7,910	186
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
1960	9	9,287	-	14	1,129	36,161	2,113	4,127	169	88	3,647	8,372	112
1961	3	8,347	-	7	639	29,391	4,607	3,838	253	40	3,309	9,505	102

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

TABLE 2B - CASE RATES OF CERTAIN REPORTED COMMUNICABLE DISEASES  
MICHIGAN, 1900 - 1961

(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
1960	0.1	118.7	0	0.2	14.4	462.2	27.0	52.8	2.2	1.1	46.6	107.0	1.4
1961	0.0	105.6	0	0.1	8.1	371.9	58.3	48.6	3.2	0.5	41.9	120.3	1.3

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

TABLE 3 - DEATHS DUE TO CERTAIN COMMUNICABLE DISEASES, AND RATES  
MICHIGAN, 1900 - 1961

(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	0.7	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
1960	2	0.0	1	0.0	-	0	-	0	1	0.0	17	0.2	364	4.7	390	5.0	4	0.1	79	1.0	7	0.1
1961	1	0.0	1	0.0	-	0	-	0	2	0.0	13	0.2	307	3.9	332	4.2	-	0	71	0.9	7	0.1

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

TABLE 4 - DEATHS DUE TO SPECIFIED CAUSES, AND RATES  
MICHIGAN, 1900 - 1961

(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		General Arterio-sclerosis	
	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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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	1,047	21.6
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	1,005	20.6
1932	11,162	226.6	4,935	100.2	4,518	91.7	3,179	64.5	1,228	25.0	1,121	22.8	3,238	65.7	1,372	27.9	948	19.2
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	966	19.5
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	914	18.3
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	897	17.8
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	997	19.6
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	1,168	22.8
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	869	16.8
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	918	17.6
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	941	17.9
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	906	16.7
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	1,015	18.3
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	1,092	20.3
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	980	18.2
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	970	17.8
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	933	16.3
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	1,031	17.0
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	1,085	17.5
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	1,135	17.9
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	1,296	20.3
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	1,312	20.0
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	1,294	19.3
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	1,270	18.5
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	1,170	16.7
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	1,237	17.1
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	1,251	16.6
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	1,248	16.0
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	1,300	16.5
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	1,403	17.6
1960	25,728	328.9	11,331	144.8	7,682	98.2	3,688	47.1	1,710	21.9	1,784	22.8	2,002	25.6	1,148	14.7	1,352	17.3
1961	25,519	322.9	11,476	145.2	7,745	98.0	3,692	46.7	1,656	21.0	1,778	22.5	1,692	21.4	1,003	12.7	1,448	18.3

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 (Continued)

AREA	Total	Diphtheria	Streptococcal sore throat (including scarlet fever)	Typhoid fever	Whooping cough	Hepatitis, infectious and serum	Rheumatic fever	Meningococcal infections	Poliomyelitis	Undulant fever	Tuberculosis	Syphilis	Gonorrhea	All other diseases*
EATON	1,280	-	446	-	83	43	22	4	-	-	7	9	21	645
Charlotte	222	-	36	-	-	7	9	3	-	-	2	1	3	161
Eaton Rapids	91	-	1	-	-	3	-	-	-	-	1	2	5	79
Grand Ledge	720	-	399	-	76	4	-	1	-	-	3	2	6	229
Balance of County	247	-	10	-	7	29	13	-	-	-	1	4	7	176
EMMET	21	-	7	-	-	-	7	-	-	-	2	3	1	1
Petoskey	9	-	3	-	-	-	2	-	-	-	-	3	1	-
Balance of County	12	-	4	-	-	-	5	-	-	-	2	-	-	1
GENESEE	6,183	-	389	1	9	447	91	19	1	-	75	100	598	4,453
**Davison	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fenton	12	-	-	-	-	-	-	-	-	-	-	1	9	-
Flint	2,369	-	179	-	5	174	26	19	-	-	57	90	548	1,271
**Flushing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mount Morris	11	-	-	-	-	-	-	-	-	-	-	4	5	-
**Swartz Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Balance of County	3,791	-	210	1	4	273	65	-	1	-	14	5	36	3,182
GLADWIN	39	-	-	-	-	15	4	-	-	1	1	1	1	16
GOGEBIC	433	-	4	-	-	-	2	1	-	-	38	9	5	374
Bessemer	123	-	-	-	-	-	-	-	-	-	4	1	-	118
Ironwood	116	-	1	-	-	-	1	-	-	-	25	6	2	81
Wakefield	125	-	3	-	-	-	-	-	-	-	3	1	2	116
Balance of County	69	-	-	-	-	-	1	1	-	-	6	1	1	59
GRAND TRAVERSE	487	-	2	-	-	1	6	1	-	-	26	14	22	415
Traverse City	51	-	-	-	-	-	2	-	-	-	9	11	20	9
Balance of County	436	-	2	-	-	1	4	1	-	-	17	3	2	406
GRATIOT	231	-	7	1	1	-	7	-	-	-	2	6	5	202
Alma	216	-	7	-	1	-	1	-	-	-	1	5	2	199
**Ithaca	-	-	-	-	-	-	-	-	-	-	-	-	-	-
St. Louis	2	-	-	-	-	-	1	-	-	-	-	1	-	-
Balance of County	13	-	-	1	-	-	5	-	-	-	1	-	3	3
HILLSDALE	189	-	27	-	1	13	9	-	-	-	5	6	9	119
Hillsdale	29	-	6	-	-	2	-	-	-	-	-	2	4	15
Balance of County	160	-	21	-	1	11	9	-	-	-	5	4	5	104
HOUGHTON	42	-	-	-	-	-	9	-	-	-	12	17	4	-
Hancock	8	-	-	-	-	-	1	-	-	-	1	5	1	-
Houghton	8	-	-	-	-	-	1	-	-	-	2	3	2	-
Laurium	1	-	-	-	-	-	-	-	-	-	1	-	-	-
Balance of County	25	-	-	-	-	-	7	-	-	-	8	9	1	-
HURON	29	-	-	-	-	4	2	-	-	-	6	4	2	11
Bad Axe	6	-	-	-	-	-	1	-	-	-	2	3	-	-
Balance of County	23	-	-	-	-	4	1	-	-	-	4	1	2	11
INGHAM	5,657	-	3,069	-	19	124	38	9	2	-	44	64	320	1,968
East Lansing	617	-	379	-	-	4	4	1	-	-	2	7	13	207
Lansing	3,215	-	1,969	-	13	58	12	7	2	-	28	49	280	797
Mason	137	-	71	-	-	1	2	-	-	-	3	-	3	57
Balance of County	1,688	-	650	-	6	61	20	1	-	-	11	8	24	907
IONIA	48	-	-	-	-	-	3	-	1	-	5	16	17	6
Belding	5	-	-	-	-	-	-	-	-	-	1	2	2	-
Ionia	12	-	-	-	-	-	-	-	-	-	2	9	1	-
Portland	6	-	-	-	-	-	-	-	-	-	-	2	2	2
Balance of County	25	-	-	-	-	-	3	-	1	-	2	3	12	4
IOSCO	157	-	4	-	1	19	2	-	-	-	4	10	6	111
IRON	113	-	7	-	-	1	7	1	-	-	23	3	2	69
Iron River	31	-	3	-	-	-	-	1	-	-	5	2	2	18
Balance of County	82	-	4	-	-	1	7	-	-	-	18	1	-	51
ISABELLA	513	-	10	-	-	54	19	1	-	-	1	5	13	410
Mount Pleasant	487	-	10	-	-	53	7	1	-	-	-	-	8	408
Balance of County	26	-	-	-	-	1	12	-	-	-	1	5	5	2
JACKSON	1,483	-	19	-	6	318	16	2	6	-	32	62	90	932
Jackson	719	-	9	-	5	141	7	1	1	-	23	41	73	415
Balance of County	764	-	10	-	1	177	5	2	5	-	9	21	17	517
KALAMAZOO	3,139	-	184	-	14	222	43	14	-	-	38	72	302	2,250
Kalamazoo	1,566	-	67	-	4	93	20	8	-	-	30	69	289	986
Balance of County	1,573	-	117	-	10	129	23	6	-	-	8	3	13	1,264
KALKASKA	75	-	18	-	-	-	1	-	-	-	-	4	-	52
KENT	3,577	1	451	-	9	80	42	4	-	-	126	95	534	2,235
East Grand Rapids	1	-	-	-	-	-	-	-	-	-	1	-	-	-
Grand Rapids	1,828	-	92	-	4	38	24	2	-	-	96	86	513	973
**Grandville	-	-	-	-	-	-	-	-	-	-	-	-	-	-
**Lowell	-	-	-	-	-	-	-	-	-	-	-	-	-	-
**Sparta	-	-	-	-	-	-	-	-	-	-	-	-	-	-
**Wyoming	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Balance of County	1,748	1	359	-	5	42	18	2	-	-	29	9	21	1,262

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	Hepatitis, infectious and serum	Rheumatic fever	Meningococcal infections	Poliomyelitis	Undulant fever	Tuberculosis	Syphilis	Gonorrhea	All other diseases*
KEWEENAW	2	-	-	-	-	-	-	-	-	-	1	-	1	-
LAKE	13	-	-	-	-	-	1	-	-	-	2	7	3	-
LAPEER	322	-	5	-	1	21	20	-	1	-	10	10	7	247
Lapeer	279	-	4	-	-	11	6	-	-	-	2	7	5	244
Balance of County	43	-	1	-	1	10	14	-	1	-	8	3	2	3
LEELANAU	75	-	-	-	-	2	-	-	-	-	9	4	9	51
LENAWEE	274	-	8	-	12	23	51	2	2	-	45	13	14	104
Adrian	76	-	2	-	-	4	2	1	2	-	18	9	8	30
**Blissfield	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hudson	5	-	-	-	-	-	-	-	-	-	3	1	1	-
Tecumseh	28	-	-	-	-	7	4	-	-	-	7	1	-	9
Balance of County	165	-	6	-	12	12	45	1	-	-	17	2	5	65
LIVINGSTON	261	-	9	-	1	56	22	1	1	-	10	8	5	148
Howell	121	-	7	-	1	21	7	-	1	-	2	6	1	75
Balance of County	140	-	2	-	-	35	15	1	-	-	8	2	4	73
LUCE	281	-	-	-	-	2	3	-	-	-	1	3	3	269
Newberry	279	-	-	-	-	2	1	-	-	-	1	3	3	269
Balance of County	2	-	-	-	-	-	2	-	-	-	-	-	-	-
MACKINAC	165	-	-	-	-	25	1	-	-	-	1	1	2	135
St. Ignace	161	-	-	-	-	25	-	-	-	-	-	-	1	135
Balance of County	4	-	-	-	-	-	1	-	-	-	1	1	1	-
MACOMB	7,217	-	316	-	30	123	98	5	3	1	166	64	72	6,339
Center Line	316	-	5	-	-	1	1	-	-	-	1	-	2	306
East Detroit	840	-	68	-	4	4	10	2	-	-	27	3	9	713
**Fraser	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mount Clemens	313	-	2	-	-	9	3	-	1	-	32	23	13	230
**New Baltimore Pt.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
**Richmond	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Romeo	25	-	-	-	-	1	-	-	-	-	1	3	3	17
Roseville	611	-	32	-	24	14	14	1	-	-	18	5	6	497
St. Clair Shores	2,171	-	129	-	2	28	20	1	1	-	25	6	4	1,955
**Warren	37	-	-	-	-	-	-	-	1	-	-	17	19	-
Balance of County	2,904	-	80	-	-	66	50	1	-	1	62	7	16	2,621
MANISTEE	163	-	1	-	-	-	7	-	-	-	2	4	2	147
Manistee	94	-	-	-	-	-	4	-	-	-	1	2	2	85
Balance of County	69	-	1	-	-	-	3	-	-	-	1	2	-	62
MARQUETTE	894	-	74	-	6	1	8	-	-	-	24	13	5	763
Ishpeming	132	-	4	-	1	-	-	-	-	-	7	5	1	114
Marquette	648	-	10	-	5	1	3	-	-	-	7	6	2	614
Negaunee	2	-	-	-	-	-	-	-	-	-	2	-	-	-
Balance of County	112	-	60	-	-	-	5	-	-	-	8	2	2	35
MASON	174	-	2	-	-	12	23	1	1	-	7	4	5	119
Ludington	98	-	1	-	-	6	10	1	-	-	6	3	3	68
Balance of County	76	-	1	-	-	6	13	-	1	-	1	1	2	51
MECOSTA	70	-	1	-	2	-	8	2	-	-	4	7	4	42
Big Rapids	57	-	1	-	2	-	2	2	-	-	2	4	3	41
Balance of County	13	-	-	-	-	-	6	-	-	-	2	3	1	1
MENOMINEE	162	-	29	-	-	-	7	-	-	-	8	12	1	105
Menominee	134	-	27	-	-	-	4	-	-	-	2	4	1	96
Balance of County	28	-	2	-	-	-	3	-	-	-	6	8	-	9
MIDLAND	1,330	-	82	-	9	136	16	-	-	-	7	4	11	1,065
Midland	700	-	51	-	6	56	7	-	-	-	6	3	10	561
Balance of County	630	-	31	-	3	80	9	-	-	-	1	1	1	504
MISSAUKEE	188	-	4	-	-	18	-	-	-	-	4	-	1	161
MONROE	832	-	60	-	6	262	51	7	1	-	32	13	26	374
Milan Pt.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monroe	52	-	-	-	-	5	4	-	-	-	22	6	11	4
Balance of County	780	-	60	-	6	257	47	7	1	-	10	7	15	370
MONTCALM	43	-	-	-	-	-	14	-	-	1	4	11	8	5
Greenville	6	-	-	-	-	-	-	-	-	-	2	1	3	-
Balance of County	37	-	-	-	-	-	14	-	-	1	2	10	5	5
MONTMORENCY	21	-	-	-	-	-	-	-	-	-	-	3	2	16
MUSKEGON	2,282	-	146	-	14	187	58	11	1	-	27	67	254	1,517
Muskegon	442	-	20	-	1	25	22	5	1	-	9	39	152	168
Muskegon Heights	340	-	9	-	1	23	4	-	-	-	15	17	73	198
**North Muskegon	-	-	-	-	-	-	-	-	-	-	-	-	-	-
**Roosevelt Park	-	-	-	-	-	-	-	-	-	-	-	-	-	-
**Whitehall	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Balance of County	1,500	-	117	-	12	139	32	6	-	-	3	11	29	1,151
NEWAYGO	39	-	2	-	1	12	7	-	-	1	3	7	4	2
Fremont	3	-	-	-	-	-	-	-	-	-	-	2	1	-
Balance of County	36	-	2	-	1	12	7	-	-	1	3	5	3	2

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	Hepatitis, infectious and serum	Rheumatic fever	Meningococcal infections	Poliomyelitis	Undulant fever	Tuberculosis	Syphilis	Gonorrhea	All other diseases*
OAKLAND	15,933	-	478	2	46	356	161	48	-	1	263	118	404	14,056
Berkley	610	-	22	-	1	1	6	-	-	1	8	2	6	563
**Beverly Hills	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Birmingham	1,219	-	27	-	1	6	1	-	-	-	10	1	4	1,169
Clawson	210	-	7	-	1	4	4	1	-	-	3	-	1	189
**Farmington	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferndale	560	-	24	-	-	4	8	2	-	-	20	8	12	482
Hazel Park	37	-	-	-	-	-	-	-	-	-	16	5	16	-
Holly	11	-	-	-	-	-	-	-	-	-	2	2	7	-
Huntington Woods	-	-	-	-	-	-	-	-	-	-	-	-	-	-
**Keego Harbor	-	-	-	-	-	-	-	-	-	-	-	-	-	-
**Lake Orion	-	-	-	-	-	-	-	-	-	-	-	-	-	-
**Lathrup Village	-	-	-	-	-	-	-	-	-	-	-	-	-	-
**Madison Heights	-	-	-	-	-	-	-	-	-	-	-	-	-	-
**Milford	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Northville Pt.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
**Novi	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oak Park	48	-	-	-	-	-	-	-	-	-	11	3	6	28
Pleasant Ridge	69	-	1	-	-	2	-	-	-	-	1	-	1	64
Pontiac	2,062	-	32	-	18	82	30	3	-	-	68	52	229	1,548
Rochester	64	-	-	-	1	1	2	-	-	-	4	5	13	38
Royal Oak	1,703	-	110	-	1	21	18	6	-	-	28	12	26	1,481
**Southfield	-	-	-	-	-	-	-	-	-	-	-	-	-	-
**Troy	-	-	-	-	-	-	-	-	-	-	-	-	-	-
**Walled Lake	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Balance of County	9,340	-	255	2	23	235	92	36	-	-	92	28	83	8,494
OCEANA	48	-	-	-	-	29	7	-	-	-	3	4	3	2
OGEMAW	29	-	-	-	-	4	8	-	-	-	4	9	3	1
ONTONAGON	114	-	-	-	-	-	1	-	-	-	6	4	1	102
OSCEOLA	62	-	9	-	-	10	2	1	1	-	5	5	5	24
OSCODA	18	-	-	-	-	-	6	-	-	-	1	1	-	10
OTSAGO	10	-	2	-	-	2	1	-	-	-	3	2	-	-
**Gaylord	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Balance of County	10	-	2	-	-	2	1	-	-	-	3	2	-	-
OTTAWA	1,262	-	57	-	8	81	24	-	-	-	19	10	21	1,042
Grand Haven	311	-	9	-	-	9	1	-	-	-	1	2	2	287
Holland Pt.	127	-	4	-	-	13	9	-	-	-	4	5	8	84
**Hudsonville	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zeeland	16	-	1	-	-	1	-	-	-	-	4	1	3	6
Balance of County	808	-	43	-	8	58	14	-	-	-	10	2	8	665
PRESQUE ISLE	62	-	1	-	-	-	5	-	-	-	1	1	1	53
Rogers City	43	-	1	-	-	-	3	-	-	-	-	-	-	39
Balance of County	19	-	-	-	-	-	2	-	-	-	1	1	1	14
ROSCOMMON	498	-	13	-	-	3	4	-	-	1	1	9	1	466
SAGINAW	3,389	-	163	-	11	161	53	8	2	-	63	113	164	2,651
**Chesaning	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saginaw	2,367	-	60	-	6	50	21	4	1	-	44	106	151	1,924
Balance of County	1,022	-	103	-	5	111	32	4	1	-	19	7	13	727
ST. CLAIR	907	-	81	-	10	110	27	6	-	-	24	26	24	599
Algonac	5	-	-	-	-	-	-	-	-	-	1	4	-	-
Marine City	8	-	-	-	-	-	-	-	-	-	5	3	-	-
Marysville	1	-	-	-	-	-	-	-	-	-	-	1	-	-
**New Baltimore Pt.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Port Huron	737	-	81	-	10	10	22	6	-	-	10	15	22	561
St. Clair	8	-	-	-	-	-	3	-	-	-	3	2	-	-
Balance of County	148	-	-	-	-	100	2	-	-	-	5	1	2	38
ST. JOSEPH	83	-	-	-	-	15	5	1	-	-	4	23	4	31
Sturgis	8	-	-	-	-	-	2	-	-	-	-	2	1	3
Three Rivers	21	-	-	-	-	-	1	-	-	-	1	15	2	2
Balance of County	54	-	-	-	-	15	2	1	-	-	3	6	1	26
SANILAC	76	-	3	-	5	6	7	-	-	1	7	6	1	40
SCHOOLCRAFT	22	-	-	-	-	17	2	-	-	-	3	-	-	-
Manistique	10	-	-	-	-	7	1	-	-	-	2	-	-	-
Balance of County	12	-	-	-	-	10	1	-	-	-	1	-	-	-
SHIawassee	216	-	40	-	7	16	21	-	-	-	7	7	9	109
**Corunna	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Durand	3	-	-	-	-	-	-	-	-	-	1	1	1	-
Owosso	15	-	-	-	-	-	4	-	-	-	4	4	3	-
Balance of County	198	-	40	-	7	16	17	-	-	-	2	2	5	109
TUSCOLA	90	-	1	-	-	11	24	-	-	-	6	10	4	34
Caro	43	-	1	-	-	6	1	-	-	-	2	3	1	29
Vassar	2	-	-	-	-	1	-	-	-	-	-	-	-	-
Balance of County	45	-	-	-	-	4	23	-	-	-	4	6	3	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	Hepatitis, infectious and serum	Rheumatic fever	Meningococcal infections	Poliomyelitis	Undulant fever	Tuberculosis	Syphilis	Gonorrhea	All other diseases*
VAN BUREN	718	-	48	-	11	50	15	3	-	-	12	38	68	473
**Paw Paw	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South Haven	40	-	-	-	-	-	-	-	-	-	5	11	24	-
Balance of County	678	-	48	-	11	50	15	3	-	-	7	27	44	473
WASHTENAW	3,713	-	213	1	31	114	47	5	-	-	36	51	203	3,012
Ann Arbor	2,684	-	189	-	2	25	22	1	-	-	16	16	50	2,363
Chelsea	2	-	-	-	-	-	-	-	-	-	1	-	1	-
Milan Pt.	19	-	-	-	-	-	-	-	-	-	2	13	4	-
Ypsilanti	497	-	3	1	29	15	12	1	-	-	10	19	130	277
Balance of County	511	-	21	-	-	74	13	3	-	-	7	3	18	372
WAYNE	48,714	2	1,307	2	217	734	628	74	11	1	2,319	1,807	5,713	35,899
**Allen Park	18	-	-	-	-	-	-	-	-	-	18	-	-	-
**Dearborn	149	-	-	-	-	-	6	-	-	-	82	34	27	-
Detroit	35,925	2	1,073	2	195	368	345	24	9	1	1,642	1,544	5,329	25,391
**Ecorse	75	-	-	-	-	-	-	-	-	-	18	25	32	-
**Flat Rock	-	-	-	-	-	-	-	-	-	-	-	-	-	-
**Garden City	47	-	-	-	-	-	-	-	-	-	36	3	8	-
**Grosse Pointe	16	-	-	-	-	-	-	-	-	-	10	3	3	-
**Grosse Pte. Farms	-	-	-	-	-	-	-	-	-	-	-	-	-	-
**Grosse Pte. Park	6	-	-	-	-	-	-	-	-	-	5	-	1	-
**Grosse Pte. Woods	7	-	-	-	-	-	-	-	-	-	3	2	2	-
**Hamtramck	104	-	-	-	-	-	-	-	-	-	41	22	41	-
**Harper Woods	-	-	-	-	-	-	-	-	-	-	-	-	-	-
**Highland Park	95	-	-	-	-	-	-	-	-	-	33	32	30	-
**Inkster	169	-	-	-	-	-	-	-	-	-	39	36	94	-
**Lincoln Park	61	-	-	-	-	-	-	-	-	-	36	13	12	-
**Livonia	53	-	-	-	-	-	-	-	-	-	35	10	8	-
**Melvindale	7	-	-	-	-	-	-	-	-	-	7	-	-	-
**Northville Pt.	10	-	-	-	-	-	-	-	-	-	7	2	1	-
**Plymouth	23	-	-	-	-	-	-	-	-	-	17	2	4	-
**River Rouge	72	-	-	-	-	-	-	-	-	-	21	18	33	-
**Riverview	-	-	-	-	-	-	-	-	-	-	-	-	-	-
**Southgate	-	-	-	-	-	-	-	-	-	-	-	-	-	-
**Trenton	19	-	-	-	-	-	-	-	-	-	13	4	2	-
**Wayne	74	-	-	-	-	-	-	-	-	-	30	10	34	-
**Wyandotte	61	-	-	-	-	-	1	-	-	-	40	11	9	-
Balance of County	11,723	-	234	-	22	366	276	50	2	-	186	36	43	10,508
WEXFORD	349	-	6	-	4	8	8	-	-	-	3	3	1	316
Cadillac	74	-	-	-	2	5	3	-	-	-	3	3	1	57
Balance of County	275	-	6	-	2	3	5	-	-	-	-	-	-	259

\*Includes:

Actinomycosis	1	Impetigo	1,709	Pink eye	467
Bites, animal	21,714	Infectious mononucleosis	293	Psittacosis	2
Chickenpox	15,778	Influenza	622	Rabies in animals	80
Conjunctivitis (Kerato)	33	Malaria	1	Ringworm	2,053
Diarrhea, epidemic (infants under 1 year)	484	Measles	29,391	Rubella	1,224
Dysentery, amebic	84	Meningitis, aseptic	298	Salmonella infections	296
Dysentery, bacillary	370	Meningitis, influenzal	19	Scabies	74
Encephalitis, infectious	51	Meningitis, other	158	Tetanus	9
Erysipelas	35	Mumps	17,206	Trichinosis	8
		Pediculosis	66		

\*\*Data included in balance of county unless otherwise indicated.

TABLE 6A - ACCIDENTAL DEATHS BY CAUSE, SEX, AND AGE  
MICHIGAN, 1961

(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	15/24	25/44	45/64	65/74	75 & Over*	All Ages	Under 1	1/4	1/2	15/24	25/44	45/64	65/74	75 & Over*		
GRAND TOTAL	E800-E962	3,692	147	226	269	567	713	707	425	638	100	3.2	5.5	7.1	18.5	21.3	21.3	11.3	17.3		
Male		2,498	80	138	178	463	543	532	283	281	100	3.2	5.5	7.1	18.5	21.3	21.3	11.3	17.3		
Female		1,194	67	88	91	104	170	175	142	357	100	5.6	7.4	7.6	8.7	14.7	11.9	29.9	29.9		
TRANSPORT TOTAL	E800-E866	1,786	18	89	133	441	475	342	176	112	448.4	12.2	39.4	49.4	77.8	66.6	48.4	41.4	17.6		
Male		1,292	10	51	87	345	368	239	123	69	35.0	6.8	22.6	32.3	60.9	51.6	33.8	28.9	10.8		
Female		494	8	38	46	96	107	103	53	43	13.4	5.4	16.8	17.1	16.9	14.6	12.5	6.8	6.8		
Motor vehicle**	E810-E835	1,656	18	87	126	405	429	311	172	108	44.9	12.2	38.6	46.8	71.4	60.2	44.1	40.5	16.9		
Railroad - not with motor vehicle	E800-E802	17	-	-	3	4	6	-	-	4	0.4	0	0	0.5	0.6	0.8	0	0	0.7		
Other road vehicle - not with motor vehicle	E840-E845	6	-	-	3	2	-	-	1	-	0.2	0	0	1.1	0.4	0	0	0	0		
Water transportation***	E850-E858	73	-	1	4	24	23	19	2	-	2.0	0	0.4	1.5	4.3	3.2	2.7	0.5	0		
Air transportation	E860-E866	34	-	1	-	7	19	6	1	-	0.9	0	0.4	0	1.2	2.6	0.8	0.2	0		
NON-TRANSPORT TOTAL	E870-E936	1,864	129	136	135	124	231	352	242	515	50.5	87.8	60.2	50.2	21.8	32.4	49.8	56.9	80.7		
Male		1,184	70	87	91	117	170	284	154	211	32.1	47.6	38.5	33.8	20.6	23.8	40.2	36.2	33.1		
Female		680	59	49	44	7	61	68	88	304	18.4	40.2	21.7	16.4	1.2	8.6	9.6	20.7	47.6		
Poisoning	E870-E895	145	2	16	3	21	41	48	5	9	3.9	1.4	7.1	1.1	3.7	5.8	6.8	1.2	1.4		
Falls	E900-E904	816	5	14	7	10	39	139	161	441	22.1	3.4	6.2	2.6	1.7	5.5	19.7	37.9	69.1		
Blow from falling object	E910	43	-	5	6	10	7	13	2	-	1.2	0	2.2	2.2	1.7	1.0	1.8	0.5	0		
Machinery	E912	76	-	7	4	2	16	31	8	8	2.1	0	3.1	1.5	0.4	2.2	4.4	1.9	1.2		
Electric current	E914	21	-	2	1	4	8	5	1	-	0.6	0	0.9	0.4	0.7	1.1	0.7	0.2	0		
Fire and explosion of combustible material	E916	235	2	29	35	7	50	50	29	33	6.4	1.4	12.8	13.0	1.2	7.0	7.1	6.8	5.2		
Hot substance, corrosive liquid, steam, radiation	E917,E918	13	3	4	-	-	1	3	1	1	0.3	2.0	1.8	0	0	0.1	0.4	0.2	0.2		
Firearm	E919	53	1	2	12	14	11	8	3	2	1.4	0.7	0.9	4.5	2.5	1.5	1.1	0.7	0.3		
Inhalation or ingestion of food or other object	E921,E922	110	61	13	6	1	5	9	6	9	3.0	41.5	5.7	2.2	0.2	1.3	1.4	1.4	1.4		
Mechanical suffocation	E924,E925	59	41	2	5	2	7	2	-	-	1.6	27.9	0.9	1.9	0.4	1.0	0.3	0	0		
Drowning and submersion	E929	203	1	36	43	47	34	26	11	5	5.5	0.7	15.9	16.0	8.3	4.8	3.7	2.6	0.8		
Other causes		90	13	6	13	6	12	18	15	7	2.4	8.8	2.7	4.8	1.0	1.7	2.5	3.5	1.1		
THERAPEUTIC MISADVENTURE & LATE COMPLICATION, COMPLICATIONS OF NONTHERAPEUTIC PROCEDURES, LATE EFFECTS OF INJURY & POISONING	E940-E962	42	-	1	1	2	7	13	7	11	1.1	0	0.4	0.4	1.0	1.8	1.7	1.7	1.7		

\* Includes 1 with age not stated.

\*\* Fifty two of these were non-traffic accidents.

\*\*\* Seventy one of these were drownings resulting from water transport accidents.



TABLE 6C - ACCIDENTAL DEATHS BY PLACE OF ACCIDENT AND LEADING CAUSES OF DEATH  
MICHIGAN, 1961

(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	3,692		100	
TRANSPORT	1,786		48.4	
MOTOR VEHICLE	1,656	100		44.9
OTHER TRANSPORT	130	100		3.5
Water transportation	73	56.1		
Air transportation	34	26.2		
Railroad	17	13.1		
Other road vehicle	6	4.6		
NON-TRANSPORT	1,864		50.5	
HOME	862	100		23.4
Falls	385	44.7		
Fire & explosion of combustible material	192	22.3		
Poisoning	82	9.5		
Inhalation & ingestion of food or other objects causing obstruction or suffocation	46	5.3		
Mechanical suffocation	44	5.1		
Firearm	23	2.7		
Other	90	10.4		
FARM	79	100		2.1
Machinery	41	51.9		
Firearm	9	11.4		
Drowning	6	7.6		
Fire & explosion of combustible material	6	7.6		
Blow from falling object	5	6.3		
Other	12	15.2		
MINE AND QUARRY	19	100		0.5
Drowning	12	63.2		
Machinery	3	15.8		
Mechanical suffocation	2	10.5		
Other	2	10.5		
INDUSTRIAL PLACE AND PREMISES	80	100		2.2
Machinery	19	23.8		
Falls	18	22.5		
Fire & explosion of combustible material	17	21.2		
Blow from falling object	11	13.8		
Electric current	7	8.8		
Drowning	5	6.2		
Other	3	3.7		
RECREATION AND SPORT	34	100		0.9
Drowning	21	61.8		
Falls	4	11.8		
Blow from falling object	3	8.8		
Other	6	17.6		
STREET AND HIGHWAY	66	100		1.8
Falls	42	63.6		
Poisoning	8	12.1		
Firearm	3	4.6		
Other	13	19.7		
PUBLIC BUILDING	46	100		1.2
Falls	25	54.3		
Poisoning	9	19.6		
Fire & explosion of combustible material	4	8.7		
Other	8	17.4		
RESIDENT INSTITUTION	109	100		3.0
Falls	83	76.2		
Inhalation & ingestion of food or other objects causing obstruction or suffocation	14	12.8		
Fire & explosion of combustible material	4	3.7		
Drowning	2	1.8		
Poisoning	2	1.8		
Other	4	3.7		
OTHER SPECIFIED PLACES	207	100		5.6
Drowning	139	67.2		
Falls	19	9.2		
Firearm	14	6.8		
Poisoning	10	4.8		
Fire & explosion of combustible material	5	2.4		
Blow from falling object	4	1.9		
Other	16	7.7		
PLACE NOT SPECIFIED	362	100		9.8
Falls	235	64.9		
Inhalation & ingestion of food or other objects causing obstruction or suffocation	49	13.5		
Poisoning	29	8.0		
Foreign body entering other orifice	9	2.5		
Fire & explosion of combustible material	5	1.4		
Other	35	9.7		
THERAPEUTIC MISADVENTURE AND LATE COMPLICATIONS, COMPLICATIONS OF NONTHERAPEUTIC PROCEDURES, LATE EFFECTS OF INJURY AND POISONING	42		1.1	

TABLE 6D - NON-TRANSPORT ACCIDENTAL DEATHS BY PLACE OF ACCIDENT, AGE, AND CAUSE  
MICHIGAN, 1961

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

PLACE OF ACCIDENT AND AGE	TOTAL	SEX		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 obstruction or suffocation E921, E922	Mechanical suffocation E924, E925	Drowning E929	Other
		Male	Female												
NON-TRANSPORT TOTAL	1,864	1,184	680	145	816	43	76	21	235	13	53	110	59	203	90
HOME-ALL AGES	862	479	383	82	385	14	4	7	192	12	23	46	44	17	36
Under 1	90	48	42	2	5	-	-	-	2	3	1	30	39	1	7
1 - 4	86	53	33	11	12	4	1	2	29	4	2	6	1	6	
5 - 14	65	35	30	3	4	2	2	1	32	-	9	6	2	9	
15 - 24	23	20	3	7	2	4	-	-	2	-	6	1	1	-	
25 - 44	93	53	40	20	25	1	-	2	35	-	2	3	1	5	
45 - 64	149	104	45	30	67	1	-	-	37	3	2	1	1	4	
65 & Over	356	166	190	9	270	2	1	1	55	2	1	6	-	7	
FARM-ALL AGES	79	74	5	2	4	5	41	1	6	-	9	-	2	6	3
Under 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 - 4	10	8	2	-	-	1	6	-	-	-	-	-	-	3	
5 - 14	8	7	1	-	-	1	2	-	1	-	-	-	1	2	
15 - 24	11	11	-	-	1	1	2	1	-	-	4	-	-	1	
25 - 44	10	9	1	1	-	-	4	-	1	-	2	-	1	-	
45 - 64	21	20	1	1	1	2	13	-	2	-	2	-	-	-	
65 & Over	19	19	-	-	2	-	14	-	2	-	1	-	-	-	
MINE & QUARRY-ALL AGES	19	19	-	-	1	-	3	-	-	-	-	-	2	12	1
Under 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 - 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5 - 14	3	3	-	-	-	-	-	-	-	-	-	-	-	3	
15 - 24	9	9	-	-	-	-	-	-	-	-	-	-	-	9	
25 - 44	3	3	-	-	-	-	2	-	-	-	-	-	1	-	
45 - 64	4	4	-	-	1	-	1	-	-	-	-	-	1	1	
65 & Over	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
INDUSTRIAL PLACE & PREMISES-ALL AGES	80	77	3	1	18	11	19	7	17	-	-	-	1	5	1
Under 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 - 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5 - 14	3	3	-	-	1	1	-	-	-	-	-	-	-	1	
15 - 24	7	7	-	-	2	-	-	2	3	-	-	-	-	-	
25 - 44	28	25	3	1	4	2	7	2	9	-	-	-	1	2	
45 - 64	39	39	-	-	8	8	12	3	5	-	-	-	-	2	
65 & Over	3	3	-	-	3	-	-	-	-	-	-	-	-	1	
PLACE FOR RECREATION & SPORT-ALL AGES	34	28	6	2	4	3	1	1	-	-	-	-	-	21	2
Under 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 - 4	2	2	-	-	-	-	-	-	-	-	-	-	-	2	
5 - 14	16	11	5	-	-	2	-	-	-	-	-	-	-	13	
15 - 24	8	7	1	1	1	-	-	-	-	-	-	-	-	5	
25 - 44	3	3	-	1	-	1	1	-	-	-	-	-	-	-	
45 - 64	3	3	-	-	1	-	-	1	-	-	-	-	-	1	
65 & Over	2	2	-	-	2	-	-	-	-	-	-	-	-	-	
STREET & HIGHWAY-ALL AGES	66	57	9	8	42	2	2	-	2	-	3	-	2	-	5
Under 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 - 4	1	1	-	-	1	-	-	-	-	-	-	-	-	-	
5 - 14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15 - 24	4	4	-	2	-	-	-	-	-	-	1	-	-	1	
25 - 44	12	9	3	4	2	2	-	-	-	-	1	-	2	1	
45 - 64	24	24	-	2	17	-	2	-	2	-	1	-	-	-	
65 & Over	25	19	6	-	22	-	-	-	-	-	1	-	-	3	
PUBLIC BUILDING-ALL AGES	46	37	9	9	25	2	-	2	4	-	-	1	-	-	3
Under 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 - 4	1	1	-	-	-	-	-	-	-	-	-	1	-	-	
5 - 14	1	1	-	-	1	-	-	-	-	-	-	-	-	-	
15 - 24	5	5	-	1	-	2	-	-	1	-	-	-	-	1	
25 - 44	8	8	-	3	2	-	-	1	1	-	-	-	1	1	
45 - 64	21	19	2	4	13	-	-	1	2	-	-	-	-	1	
65 & Over	10	4	6	1	9	-	-	-	-	-	-	-	-	-	
RESIDENT INSTITUTION-ALL AGES	109	52	57	2	83	-	-	-	4	1	-	14	1	2	2
Under 1	3	3	-	-	-	-	-	-	-	-	-	3	-	-	
1 - 4	1	1	-	-	-	-	-	-	-	-	-	3	1	-	
5 - 14	4	2	2	-	-	-	-	-	-	-	-	3	-	1	
15 - 24	1	1	-	-	-	-	-	-	-	-	-	1	-	-	
25 - 44	6	4	2	1	1	-	-	1	1	1	-	1	-	-	
45 - 64	11	6	5	1	6	-	-	-	1	-	-	3	-	-	
65 & Over	83	35	48	-	76	-	-	-	2	-	-	3	-	1	
OTHER SPECIFIED PLACES-ALL AGES	207	184	23	10	19	4	3	1	5	-	14	-	3	139	9
Under 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 - 4	22	13	9	-	-	-	-	-	-	-	-	-	-	21	
5 - 14	29	24	5	-	1	-	-	-	-	-	2	-	1	25	
15 - 24	49	48	1	4	4	3	-	-	1	-	3	-	1	32	
25 - 44	49	47	2	4	3	-	1	1	3	-	5	-	1	30	
45 - 64	33	31	2	2	4	1	2	-	1	-	2	-	-	18	
65 & Over*	25	21	4	-	7	-	-	-	-	-	2	-	-	13	
PLACE NOT SPECIFIED-ALL AGES	362	177	185	29	235	2	3	2	5	-	4	49	4	1	28
Under 1	36	19	17	-	-	-	-	-	-	-	-	28	2	-	6
1 - 4	13	9	4	5	1	-	-	-	-	-	-	6	-	-	
5 - 14	6	5	1	-	-	-	-	-	2	-	1	2	1	-	
15 - 24	7	5	2	6	-	-	-	-	-	-	-	-	-	1	
25 - 44	19	9	10	6	2	1	1	2	-	-	1	1	1	4	
45 - 64	47	34	13	8	21	1	1	-	-	-	1	6	-	8	
65 & Over	234	96	138	4	211	-	1	-	3	-	1	6	-	8	

\* Includes 1 with age not stated.

TABLE 6E - ACCIDENTAL DEATHS BY CAUSE AND COUNTY OF RESIDENCE  
MICHIGAN, 1961

(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		Motor vehicle accidents AE138	Other transport accidents AE139	Accidental poisoning AE140	Accidental falls AE141	Accident caused by machinery AE142	Accident caused by fire & explosion of combustible material AE143	Accident caused by hot substance, corrosive liquid, steam & radiation AE144	Accident caused by firearm AE145	Accidental drowning & submersion AE146	All other accidental causes AE147
	Number	Rate										
STATE	3,692	46.7	1,656	130	145	816	76	235	13	53	203	365
Alcona	1	15.6	-	-	-	-	-	-	-	-	1	-
Alger	7	75.3	6	-	-	-	-	-	-	-	-	1
Allegan	41	69.8	24	1	2	8	2	1	-	-	1	2
Alpena	12	41.4	5	1	-	5	-	-	-	1	-	-
Antrim	6	57.7	5	-	-	-	-	-	-	-	-	1
Arenac	12	121.2	5	-	-	-	-	-	-	2	4	-
Baraga	7	95.9	3	1	-	-	-	-	1	3	-	-
Barry	23	75.4	14	-	-	6	-	-	-	-	-	-
Bay	44	40.6	20	4	2	7	1	2	-	-	3	5
Benzie	5	63.3	-	1	-	2	1	1	-	-	-	-
Berrien	97	63.7	41	4	7	14	4	5	-	3	11	8
Branch	16	45.6	6	-	1	4	-	2	-	-	1	2
Calhoun	71	50.9	34	1	2	15	2	-	1	2	4	10
Cass	22	59.6	11	1	2	5	-	-	1	-	-	2
Charlevoix	11	80.3	3	-	-	5	-	1	-	-	1	1
Cheboygan	14	93.3	5	3	-	5	-	-	-	-	-	1
Chippewa	34	98.3	14	1	1	5	1	3	-	1	2	6
Clare	11	88.7	7	1	-	-	1	-	1	-	1	-
Clinton	21	54.1	10	-	2	4	1	1	-	-	1	2
Crawford	2	37.7	2	-	-	-	-	-	-	-	-	-
Delta	21	60.0	7	-	1	4	-	2	-	1	2	4
Dickinson	11	45.3	7	-	-	3	-	-	-	-	-	1
Eaton	20	39.7	7	-	2	6	1	1	-	1	-	2
Emmet	10	62.1	2	2	-	2	1	1	-	-	2	-
Genesee	181	47.4	90	6	3	32	3	14	-	1	9	23
Gladwin	12	109.1	3	2	-	1	-	-	-	-	3	3
Gogebic	12	48.8	6	-	1	2	-	-	-	-	-	3
Grand Traverse	18	52.9	7	-	-	5	2	1	-	-	2	1
Gratiot	25	67.6	14	-	-	8	1	-	-	-	-	2
Hillsdale	26	74.5	14	-	1	5	3	1	-	-	1	1
Houghton	23	65.0	6	2	-	10	2	-	-	-	-	3
Huron	25	73.3	11	-	-	7	3	2	-	-	2	-
Ingham	78	36.4	37	-	5	16	1	5	-	2	5	7
Ionia	24	53.6	14	1	1	4	-	1	-	1	-	2
Iosco	11	55.6	6	1	-	-	-	4	-	-	-	-
Iron	11	63.2	6	-	-	1	-	1	-	1	-	2
Isabella	21	58.0	10	2	2	4	-	-	-	-	-	3
Jackson	63	47.4	30	2	2	13	2	2	-	1	4	7
Kalamazoo	84	48.7	41	2	6	17	1	2	1	2	4	8
Kalkaska	6	136.4	-	2	-	2	-	1	-	-	-	1
Kent	193	52.1	81	2	13	49	2	12	-	2	16	16
Keeweenaw	3	120.0	1	-	-	1	-	1	-	-	-	-
Lake	4	74.1	1	-	-	1	-	1	-	-	-	1
Lapeer	25	59.0	12	-	1	2	2	1	-	-	1	6
Leelanau	6	62.5	1	1	-	3	-	1	-	-	-	-
Lenawee	42	54.8	17	-	-	11	4	6	-	1	1	2
Livingston	28	72.4	17	-	2	5	-	2	-	-	-	2
Luce	6	75.9	1	-	1	1	-	2	-	1	-	-
Mackinac	12	107.1	4	-	2	1	-	2	-	1	1	1
Macomb	144	33.9	65	11	5	17	4	7	1	1	8	25
Manistee	17	88.5	4	-	-	6	1	1	-	-	2	3
Marquette	35	60.4	14	-	3	8	-	2	-	-	3	5
Mason	12	54.3	7	-	1	-	1	1	-	-	1	1
Mecosta	11	51.9	5	1	1	3	1	-	-	-	-	-
Menominee	14	56.2	9	-	-	1	-	1	-	1	1	1
Midland	29	54.6	15	4	1	3	-	3	-	-	2	1
Missaukee	3	43.5	1	-	-	1	-	-	-	1	-	-
Monroe	61	59.5	38	3	1	8	-	1	-	1	2	7
Montcalm	32	87.7	19	-	1	6	-	3	-	1	-	2
Montmorency	2	45.5	1	-	-	1	-	-	-	-	-	-
Muskegon	71	46.9	35	3	6	11	2	3	-	1	1	9
Newaygo	18	72.9	7	-	-	6	1	2	-	1	-	1
Oakland	250	35.7	135	10	6	43	3	9	-	3	16	25
Oceana	9	54.2	5	-	-	3	-	1	-	-	-	-
Ogemaw	5	52.1	2	-	-	3	-	-	-	-	-	-
Ontonagon	6	55.0	1	-	1	2	-	-	-	-	-	2
Osceola	5	36.2	2	1	-	1	-	-	-	-	-	1
Oscoda	5	138.9	2	-	-	2	1	-	-	-	-	-
Otsego	4	50.0	2	1	-	1	-	-	-	-	-	-
Ottawa	51	51.1	22	4	-	5	-	1	2	2	11	4
Presque Isle	10	75.8	3	1	-	3	2	-	-	-	-	1
Roscommon	5	66.7	3	-	-	1	-	1	-	-	-	-
Saginaw	97	50.3	54	3	1	15	2	13	-	1	2	6
St. Clair	70	65.1	28	-	3	19	-	2	-	1	6	12
St. Joseph	26	61.3	8	3	1	4	1	2	-	2	-	5
Sanilac	25	76.9	17	2	-	3	2	-	-	-	-	1
Schoolcraft	8	88.9	2	-	-	2	-	-	-	-	-	3
Shiawassee	47	86.1	26	1	-	11	1	2	-	1	4	2
Tuscola	35	80.3	21	1	1	3	-	1	-	-	3	5
Van Buren	38	77.6	19	1	1	9	3	2	-	1	-	2
Washtenaw	69	39.1	38	3	1	14	-	3	1	1	2	6
Wayne	1,005	37.8	368	33	47	298	10	92	4	8	55	90
Wexford	15	80.6	10	-	2	2	-	-	-	-	1	-

TABLE 7A - DEATHS BY INTERMEDIATE LIST OF CAUSES, SEX, COLOR, AND AGE  
HIGHLAND, 1961

(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. Rate per 100,000 population.)

CAUSE OF DEATH	INT. LIST NO.	TOTAL	SEX		AGE AT DEATH										90 and over	Not stated														
			Number	Rate	Male	Female	1	5	10	15	20	25	30	35			40	45	50	55	60	65	70	75	80	85				
																											Under 1 Day	1 Week	28 Days	1 Year
ALL CAUSES		67,375	852.5	39,150	28,225	5,768	2,053	3,140	3,475	4,604	677	403	273	478	527	454	718	1,143	1,670	2,570	3,501	4,703	6,142	9,070	8,629	6,980	4,481	2,373	3	
White		61,607		35,949		1,725	2,657	2,929	3,873	587	351	247	444	463	370	553	899	1,373	2,184	3,002	4,151	5,484	7,340	8,547	6,288	5,800	4,361	2,287	3	
Female						981	1,537	1,705	2,242	342	216	150	319	330	238	363	528	806	1,391	1,973	2,813	3,623	4,730	5,157	4,274	3,584	2,582	1,606	2	
Male						744	1,120	1,224	1,631	245	135	97	125	133	132	190	371	567	793	1,029	1,338	1,861	2,610	3,390	3,714	3,216	2,379	1,401	1	
Nonwhite		5,768		3,201		328	483	546	731	90	52	34	64	84	64	165	244	287	386	499	552	658	636	523	341	180	120	86	-	
Male						187	269	300	397	52	27	16	18	40	37	84	135	158	218	303	311	368	406	275	192	87	55	35	-	
Female						141	214	246	334	38	25	10	16	24	47	81	129	129	171	196	241	290	230	248	149	93	65	51	-	
A 1-A 5		332	4.2	249	83	80	-	-	-	1	5	-	-	-	3	2	8	5	32	26	29	42	31	47	43	27	23	6	2	
A 1		307	3.9	237	70	68	-	-	-	4	-	-	-	-	3	2	6	5	30	22	26	40	27	45	40	27	23	6	1	
A 2		4	0.1	3	1	4	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
A 3		3	0.0	1	2	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
A 4		2	0.0	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
A 5		16	0.2	7	9	5	-	-	-	1	-	-	-	-	1	1	3	3	1	2	2	2	2	2	2	2	2	2	2	1
A 6-A10		71	0.9	54	17	21	-	-	-	-	-	-	-	-	-	-	-	-	2	8	12	15	13	7	8	3	1	1	1	
A 6		4	0.0	1	3	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
A 7		4	0.0	1	3	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
A 8		4	0.0	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
A 9		63	0.8	50	13	19	-	-	-	-	-	-	-	-	-	-	-	-	2	7	12	12	13	7	6	2	1	1	1	
A 10		7	0.1	6	1	3	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	1	1	1	1	2	2	2	
A 11		1	0.0	1	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A 12		5	0.1	4	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A 13		1	0.0	1	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A 14		5	0.1	4	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A 15		1	0.0	1	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A 16		5	0.1	4	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A 17		1	0.0	1	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A 18		5	0.1	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A 19		1	0.0	1	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A 20		36	0.5	18	18	3	-	-	-	1	10	4	2	2	2	2	2	2	2	4	2	2	3	2	3	2	2	1	1	1
A 21		1	0.0	1	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A 22		2	0.0	2	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A 23		36	0.5	18	18	3	-	-	-	1	10	4	2	2	2	2	2	2	2	4	2	2	3	2	3	2	2	1	1	1
A 24		6	0.1	4	2	2	-	-	-	1	1	1	1	1	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1
A 25		24	0.3	14	10	5	-	-	-	1	4	9	6	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2
A 26		12	0.2	8	4	4	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A 27		13	0.2	6	7	3	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A 28		50	0.6	29	21	4	-	-	-	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A 29		1	0.0	1	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 30		59	0.7	30	29	8	-	-	-	1	15	8	3	2	1	1	1	1	1	3	4	7	3	2	1	1	1	2	2	2
A 31		11,476	145.2	6,349	5,127	900	-	-	-	1	14	85	47	53	43	61	110	264	375	667	886	1,181	1,502	1,746	1,671	1,363	804	379	142	-
A 32		247	3.1	189	58	14	-	-	-	1	1	1	1	1	1	1	1	1	4	5	16	20	44	36	37	38	25	8	7	3
A 33		204	2.6	165	39	31	-	-	-	-	-	-	-	-	-	-	-	-	5	16	20	44	36	37	38	25	8	7	3	
A 34		937	11.9	622	315	88	-	-	-	1	3	3	5	22	33	55	65	105	167	221	37	40	29	26	26	14	7	1	1	
A 35		1,262	16.0	596	666	77	-	-	-	1	1	1	1	1	1	1	1	1	16	21	52	94	110	154	205	215	172	105	78	28
A 36		488	6.2	294	194	28	-	-	-	-	-	-	-	-	-	-	-	-	11	25	33	58	62	68	76	70	40	19	10	
A 37		110	1.4	106	4	6	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	
A 38		1,672	21.2	1,430	242	136	-	-	-	1	1	1	1	1	1	1	1	1	29	48	102	156	232	311	314	231	151	59	20	5
A 39		1,023	12.9	6	1,017	73	-	-	-	-	-	-	-	-	-	-	-	-	50	80	105	110	127	133	99	88	56	21	12	
A 40		389	4.9	-	389	67	-	-	-	-	-	-	-	-	-	-	-	-	43	54	39	55	34	38	28	13	5	2	2	
A 41		271	3.4	271	0	0	-	-	-	-	-	-	-	-	-	-	-	-	9	14	21	31	46	36	45	27	19	12	4	
A 42		626	7.9	626	0	0	-	-	-	-	-	-	-	-	-	-	-	-	4	11	26	38	92	127	148	111	52	15	4	
A 43		131	1.7	75	56	3	-	-	-	-	-	-	-	-	-	-	-	-	7	12	6	7	13	19	17	9	7	11	1	
A 44		122	1.5	75	47	10	-	-	-	6	5	14	5	3	4	6	2	4	7	12	6	7	16							







TABLE 7B - DEATHS BY DETAILED LIST OF CAUSES, SEX, COLOR, AND AGE  
MICHIGAN, 1961

(By place of residence. Exclusive of fetal deaths. Cause of death classified according to Seventh Revision of International List, 1955. Rates per 100,000 population.)

CAUSE OF DEATH	INT. LIST NO.	TOTAL Number Rate	SEX		AGE AT DEATH												90 and over													
			Male	Female	I n f a n t		1	5	10	15	20	25	30	35	40	45		50	55	60	65	70	75	80	85					
					Under 1 Day	Under 1 Year	1	5	10	15	20	25	30	35	40	45		50	55	60	65	70	75	80	85					
I Infective and parasitic diseases		67,375	852.5	39,150	28,225	2,053	3,140	3,475	4,604	677	403	273	478	527	454	718	1,143	1,670	2,570	3,501	4,703	6,142	7,976	9,070	10,629	12,373	3			
Tuberculosis of respiratory system (001-008)		307	3.9	237	70	-	-	-	-	4	-	-	-	-	-	3	2	5	30	22	26	40	27	45	40	27	6	1		
Respiratory with mention of occupational disease of lung		15	0.2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	2	4	2	-	-		
Pulmonary		281	3.6	212	69	-	-	-	-	3	-	-	-	-	-	3	2	5	30	22	24	36	25	41	34	23	20	6	1	
Pleural		3	0.0	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Specified as tuberculous		1	0.0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
With effusion without mention of cause		2	0.0	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Primary complex with symptoms		1	0.0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Unspecified site		7	0.1	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tuberculosis, other forms (010-019)		25	0.3	12	13	-	-	-	-	1	1	-	-	-	-	2	4	3	2	4	3	2	4	2	3	-	-	-	-	-
Meninges and central nervous system		4	0.1	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lungs, peritoneum, and mesenteric		3	0.0	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bones and joints, active or unspecified		2	0.0	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
of vertebral column		7	0.1	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Genito-urinary system		1	0.0	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Adrenal glands		1	0.0	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other organs		1	0.0	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Disseminated tuberculosis, other forms		7	0.1	5	2	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Syphilis and its sequelae (020-029)		71	0.9	54	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Congenital syphilis, other		1	0.0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aneurysm of aorta		19	0.2	18	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other cardiovascular syphilis		23	0.3	18	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tabes dorsalis		4	0.1	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General paralysis of insane		3	0.0	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other syphilis of central nervous system		9	0.1	6	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other forms of late syphilis		5	0.1	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Latent syphilis		4	0.1	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Late		1	0.0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unspecified		3	0.0	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Syphilis, unqualified		3	0.0	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gonococcal infection and other venereal diseases (030-039)		7	0.1	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chronic gonococcal infection of genito-urinary system		1	0.0	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Late effects of gonococcal infection		6	0.1	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Infectious diseases commonly arising in intestinal tract (040-049)		6	0.1	5	1	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Salmonella infections, without mention of food as vehicle of infection		1	0.0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bacillary dysentery		4	0.1	3	1	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flexner-Boyd group		1	0.0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flexner-Boyd group		3	0.0	2	1	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other and unspecified		1	0.0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unspecified forms of dysentery		3	0.0	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other bacterial diseases (050-064)		92	1.2	47	45	-	-	-	-	2	23	9	1	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever		1	0.0	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Streptococcal sore throat		5	0.1	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Erysipelas		1	0.0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Septicemia and pyemia		36	0.5	18	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Staphylococcus		16	0.2	10	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other specified organisms		3	0.0	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Organism unspecified		16	0.2	7	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diphtheria		2	0.0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Whooping cough		1	0.0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Without mention of pneumonia		1	0.0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
With pneumonia		36	0.5	18	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Meningococcal infections		17	0.2	10	7	-	-	-	-	1	3	9	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Meningococcal meningitis		19	0.2	8	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acute and unspecified meningococemia		6	0.1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetanus		1	0.0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gas gangrene		1	0.0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other bacterial diseases		3	0.0	1	2	-	-	-	-	-																				

















TABLE 7b - DEATH BY DETAILED LIST OF CAUSES, SEX, COLOR, AND AGE (Continued)

Table with 29 columns: CAUSE OF DEATH, INT. LIST NO., TOTAL (Male/Female), SEX (Male/Female), NON-WHITE, I n f a n t (Under 1 Day/1 Week/28 Days/1 Year), AGE AT DEATH (1-24), 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, Not and stat- over ed.

TABLE 7b - DEATHS BY DETAILED LIST OF CAUSES, SEX, COLOR, AND AGE (Continued)

Table with 47 columns: CAUSE OF DEATH, INT. LIST NO., TOTAL (Number, Rate), SEX (Male, Female), NON-WHITE, AGE AT DEATH (1-79), and Not reported. The table lists various causes of death such as 'IX Diseases of the digestive system', 'Diseases of buccal cavity and esophagus', 'Acute appendicitis', and 'Hernia of abdominal cavity', among others, with corresponding numerical data for deaths and rates across different age groups and sexes.





TABLE 78 - DEATHS BY DETAILED LIST OF CAUSES, SEX, COLOR, AND AGE (Continued)

CAUSE OF DEATH	INT. LIST NO.	TOTAL	SEX		NON-WHITE	AGE AT DEATH												85-89	90 and over									
			Number	Rate		Male	Female	1	5	10	15	20	25	30	35	40	45			50	55	60	65	70	75	80		
																											Under 1 Day	Under 1 Week
Other diseases of skin and subcutaneous tissue (continued)																												
Pemphigus	704	4	0.1	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	-	-	-	-	-	-	-
Dermatitis herpetiformis	.0	1	0.0	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
Other	705	3	0.0	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	-	-	-	-	-	-	-
Erythematous conditions		4	0.1	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
Erythema multiforme (erythema iris)	.1	3	0.0	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
Other and unqualified	.5	1	0.0	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
Corns and calluses		1	0.0	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
Warts, verrucae, and atrophic conditions of skin	710	24	0.3	11	13	6	-	-	-	-	-	-	-	-	-	-	-	-	5	2	3	1	1	2	-	-	-	-
Chronic ulcer of skin	715	9	0.1	2	7	2	-	-	-	-	-	-	-	-	-	-	-	-	1	2	3	1	2	-	-	-	-	-
XIII Diseases of the bones and organs of movement																												
Arthritis and rheumatism, except rheumatic fever (720-727)		96	1.2	41	55	3	-	-	-	-	-	-	-	-	-	-	-	-	4	7	10	16	21	10	8	4	-	
Acute arthritis due to pyogenic organisms	720	3	0.0	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	
Rheumatoid arthritis and allied conditions	722	57	0.7	18	39	1	-	-	-	-	-	-	-	-	-	-	-	-	3	5	6	13	10	6	2	2		
Rheumatoid arthritis	.0	56	0.7	17	39	1	-	-	-	-	-	-	-	-	-	-	-	-	3	5	5	13	10	6	2	2		
Spondylitis ankylopoietica	.1	1	0.0	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	
Osteo-arthritis (arthrosis) and allied conditions	723	18	0.2	11	7	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	2	6	2	3	1		
Osteo-arthritis (arthrosis)	.0	16	0.2	9	7	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	2	6	2	3	1		
Spondylitis osteo-arthritis (spondylarthrosis)	.1	2	0.0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	
Other specified forms of arthritis	724	2	0.0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	
Arthritis, unspecified	725	13	0.2	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	3	2	3	1		
Muscular rheumatism, fibrositis, and myalgia	726	3	0.0	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	
Osteomyelitis and other diseases of bone and joint (730-738)		21	0.3	12	9	3	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	3	4	1	2	2		
Osteomyelitis and periostitis	730	5	0.1	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	3	4	1	2	2		
Chronic osteomyelitis	.1	2	0.0	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-		
Unspecified osteomyelitis	.2	3	0.0	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-		
Osteitis deformans	731	7	0.1	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	2	3	1	1	1		
Other diseases of bone	733	7	0.1	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	2	3	1	1	1		
Displacement of intervertebral disc	735	2	0.0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-		
Other diseases of musculoskeletal system (740-749)		43	0.5	21	22	7	-	-	-	-	-	-	-	-	-	-	-	-	4	3	1	3	2	1	2	-		
Other diseases of muscle, tendon, and fascia	744	39	0.5	20	19	7	-	-	-	-	-	-	-	-	-	-	-	-	2	4	2	1	2	1	1	1		
Myasthenia gravis	.0	13	0.2	3	10	5	-	-	-	-	-	-	-	-	-	-	-	-	1	2	4	2	1	3	1	1		
Inborn defect of muscle	.1	26	0.3	17	9	2	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	2	1	1	1	1		
Curvature of spine	745	3	0.0	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	2	1	1	1	1	1		
Other deformities	749	1	0.0	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-		
XIV Congenital malformations																												
Congenital malformations (750-759)		1,095	13.9	612	483	108	-	-	-	-	-	-	-	-	-	-	-	-	17	11	5	10	4	3	2	-		
Monstrosity	750	66	0.8	29	37	4	-	-	-	-	-	-	-	-	-	-	-	-	6	6	3	5	10	4	-	-		
Spina bifida and meningocele	751	65	0.8	30	35	5	-	-	-	-	-	-	-	-	-	-	-	-	3	2	1	2	1	3	1	1		
Congenital hydrocephalus	752	72	0.9	43	29	4	-	-	-	-	-	-	-	-	-	-	-	-	12	4	3	1	1	1	1	1		
Other congenital malformations of nervous system and sense organs	753	49	0.6	21	28	4	-	-	-	-	-	-	-	-	-	-	-	-	8	11	12	2	1	1	1	1		
Congenital malformations of circulatory system	754	571	7.2	326	245	71	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	5	1	1	1	1		
Tetralogy of Fallot	.0	32	0.4	21	11	1	-	-	-	-	-	-	-	-	-	-	-	-	3	5	14	2	2	5	1	1		
Patent ductus arteriosus (Botalli)	.1	16	0.2	6	10	1	-	-	-	-	-	-	-	-	-	-	-	-	4	8	11	1	1	1	1	1		
Interventricular septal defect	.2	34	0.4	20	14	2	-	-	-	-	-	-	-	-	-	-	-	-	6	7	20	6	2	1	1	1		
Interauricular septal defect	.3	22	0.3	10	12	2	-	-	-	-	-	-	-	-	-	-	-	-	3	3	6	4	1	1	1	1		
Fibrosistosis cordis	.4	22	0.3	13	9	2	-	-	-	-	-	-	-	-	-	-	-	-	5	7	13	5	1	1	1	1		
Other and unspecified malformations of heart	.5	368	4.4	193	155	56	-	-	-	-	-	-	-	-	-	-	-	-	37	126	181	282	10	3	2	1		
Obstruction of aorta	.7	19	0.2	13	6	1	-	-	-	-	-	-	-	-	-	-	-	-	4	7	8	13	1	1	1	1		
Obstructive malformations of circulatory system	.7	78	0.9	48	30	6	-	-	-	-	-	-	-	-	-	-	-	-	8	21	30	52	6	2	3	3		
Cleft palate and hare lip	755	4	0.1	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	4	-	-	-	-		
Congenital malformations of digestive system	756	88	1.1	62	26	7	-	-	-	-	-	-	-	-	-	-	-	-	7	26	48	67	9	1	1	1		
Hypertrophic pyloric stenosis	.0	7	0.1	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1		
Imperforate anus	.1	6	0.1	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5	6	7	-	-	-	-		
Other	.2	75	0.9	51	24	7	-	-	-	-	-	-	-	-	-	-	-	-	3	21	37	54	9	1	1	1		





































TABLE 8 - DEATHS BY CAUSE AND RESIDENCE (Continued)

AREA	MALIGNANT NEOPLASMS																						
	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 & hematopoietic system	A59 Lymphosarcoma & other neoplasms	A60 Benign neoplasms & neoplasms unspecified nature	A61 Neoplasm of gartner	A62 Thyroxinosis with or without goiter	A63 Diabetes mellitus	A64 Avitaminosis & other deficiency states	A65 Anemias	
Total	777	48	82	25	10	99	87	21	21	35	12	13	210	42	41	13	1	1	93	41	1	8	3
OAKLAND	30	2	3	-	-	4	1	2	1	2	2	2	4	3	3	-	-	-	6	-	-	-	8
Backley	6	-	1	-	-	4	3	-	-	-	-	-	-	1	1	-	-	-	1	-	-	-	4
Beverly Hills	6	-	1	-	-	4	8	-	-	-	-	-	16	1	4	-	-	-	1	-	-	-	30
Birmingham	58	4	12	2	-	5	-	1	1	3	2	1	4	1	1	-	-	-	8	-	-	2	4
Birmingham	18	1	2	2	-	5	-	-	-	-	-	-	4	1	1	-	-	-	1	-	-	1	5
Claxson	7	-	1	-	-	12	13	2	1	4	-	-	8	2	2	-	-	-	11	-	-	-	22
Farmington	55	1	3	1	1	5	-	-	-	4	1	2	8	2	1	-	-	-	6	-	-	-	9
Farmington	7	-	1	-	-	1	-	-	-	-	-	-	1	1	1	-	-	-	2	-	-	-	2
Farmington	7	-	1	-	-	1	-	-	-	-	-	-	1	1	1	-	-	-	1	-	-	-	8
Holly Park	6	-	1	-	-	1	1	-	-	2	1	-	3	1	1	-	-	-	2	-	-	-	2
Holly Park	6	-	1	-	-	1	1	-	-	-	-	-	1	1	1	-	-	-	3	-	-	-	7
Huntington Woods	6	-	1	-	-	2	-	-	-	2	1	-	1	1	1	-	-	-	2	-	-	-	3
Keego Harbor	4	-	1	-	-	2	-	-	-	-	-	-	1	1	1	-	-	-	1	-	-	-	3
Lake Orion	1	-	1	-	-	1	-	-	-	-	-	-	1	1	1	-	-	-	1	-	-	-	3
Lathrup Village	6	-	1	-	-	1	-	-	-	1	1	-	7	2	1	-	-	-	2	-	-	-	7
Madison Heights	20	-	3	-	-	4	-	-	-	1	1	-	1	2	1	-	-	-	1	-	-	-	1
Madison Heights	6	-	1	-	-	1	-	-	-	-	-	-	1	1	1	-	-	-	1	-	-	-	2
Milford	6	2	1	-	-	1	-	-	-	-	-	-	1	2	1	-	-	-	1	-	-	-	1
Milford	4	-	1	-	-	1	-	-	-	-	-	-	1	1	1	-	-	-	1	-	-	-	4
Northville Pt.	4	-	1	-	-	1	-	-	-	1	1	-	1	1	1	-	-	-	1	-	-	-	4
Novi	4	-	1	-	-	4	-	-	-	1	1	-	1	1	1	-	-	-	1	-	-	-	4
Oak Park	42	1	6	1	1	4	6	-	2	1	1	1	11	2	4	-	-	-	6	-	-	2	13
Pleasant Ridge	6	-	1	-	-	4	-	-	-	1	1	-	1	1	1	-	-	-	1	-	-	-	5
Pontiac	115	2	14	8	4	15	7	1	4	4	2	1	34	6	3	2	-	-	15	-	-	1	72
Rochester	14	-	6	2	1	10	10	4	2	3	2	2	22	3	5	1	-	-	8	-	-	2	42
Royal Oak	75	2	6	2	1	3	4	1	1	1	1	1	11	1	1	1	-	-	3	-	-	1	16
Southfield	17	2	1	-	-	4	4	1	1	2	1	-	5	2	1	1	-	-	3	-	-	-	11
Troy	8	1	2	-	-	2	1	1	1	1	1	-	4	1	1	1	-	-	1	-	-	-	4
Walled Lake	18	1	1	-	-	2	1	1	1	1	1	-	6	1	7	20	3	1	16	-	-	1	132
Balance of County	210	8	18	9	3	19	18	7	6	13	2	4	61	7	20	3	1	1	1	-	-	2	35
OCENA	35	-	9	-	1	2	2	3	-	3	2	-	4	4	5	1	-	-	3	-	-	-	28
OCEMAW	18	-	2	1	-	1	1	-	-	3	-	-	6	1	-	-	-	-	5	-	-	-	21
ONTONAGON	14	-	3	-	-	2	-	1	-	1	-	-	6	1	-	-	-	-	1	-	-	-	20
OSCEOLA	26	-	7	1	1	3	1	-	2	2	-	-	5	-	-	-	-	-	1	-	-	-	6
OSCODA	7	-	1	-	-	2	-	-	1	-	-	-	2	-	-	-	-	-	1	-	-	-	9
OTSEGO	17	-	2	2	2	4	-	-	-	2	1	-	4	-	-	-	-	-	1	-	-	-	3
Gaylord	6	-	1	-	-	2	-	-	-	1	-	-	2	-	-	-	-	-	1	-	-	-	6
Balance of County	11	-	2	2	-	2	-	-	-	1	-	-	1	-	-	-	-	-	1	-	-	-	9
OTTAWA	126	3	11	5	-	14	6	3	3	13	2	3	41	2	7	1	-	-	28	-	-	2	100
Grand Haven	29	-	4	1	-	3	1	1	1	4	1	-	18	1	2	1	-	-	7	-	-	1	10
Holland Pt.	37	1	3	3	1	1	3	1	1	5	2	2	13	1	2	1	-	-	3	-	-	1	30
Hudsonville	-	-	1	-	-	2	-	-	-	-	-	-	1	1	1	-	-	-	1	-	-	-	2
Zeeland	11	-	1	1	-	2	-	-	-	2	-	-	3	-	1	-	-	-	3	-	-	-	12
Balance of County	49	-	3	4	2	8	2	1	1	4	-	-	17	1	4	-	-	-	14	-	-	1	46
PRESQUE ISLE	23	-	2	1	-	2	2	1	-	3	-	1	7	4	4	-	-	-	2	-	-	-	18
Rogers City	6	-	2	1	-	2	1	1	-	2	-	1	5	-	3	-	-	-	2	-	-	-	14
Balance of County	15	-	1	-	-	2	-	-	-	2	-	-	1	-	-	-	-	-	2	-	-	-	14
ROSCOMON	12	-	1	-	-	3	-	-	1	1	-	-	3	-	2	2	-	-	2	-	-	-	14
SAGINAW	274	3	19	34	11	35	32	11	5	13	4	4	71	11	14	2	-	-	50	-	-	1	197
Cheaning	6	-	2	-	-	1	1	-	-	1	-	-	1	-	-	-	-	-	1	-	-	-	5
Saginaw	165	3	10	24	5	24	22	8	4	9	2	-	36	7	5	1	-	-	34	-	-	2	123
Balance of County	107	1	9	10	6	11	9	3	1	4	4	4	34	4	9	1	-	-	16	-	-	1	69
ST. CLAIR	183	-	11	22	12	22	25	-	7	16	1	2	50	8	4	4	-	-	25	-	-	1	142
Algonac	5	-	1	-	-	3	-	-	-	1	-	-	6	-	-	-	-	-	1	-	-	-	8
Marine City	14	-	2	1	1	1	1	-	-	2	-	-	1	-	-	-	-	-	3	-	-	-	9
Marysville	3	-	-	-	-	1	1	-	1	1	-	-	1	-	-	-	-	-	1	-	-	-	1
New Baltimore Pt.	1	-	-	-	-	1	1	-	1	1	-	-	1	-	-	-	-	-	1	-	-	-	1
Port Huron	69	-	10	7	3	4	10	-	5	4	-	-	17	6	2	2	-	-	10	-	-	-	62
St. Clair	11	-	2	1	-	11	2	1	-	7	1	2	3	1	1	2	-	-	8	-	-	-	55
Balance of County	80	-	1	11	8	11	12	-	1	7	1	2	23	1	2	-	-	-	1	-	-	-	5





TABLE 8 - DEATHS BY CAUSE AND RESIDENCE (Continued)

Table with columns for AREA, HEART DISEASE, PNEUMONIA, and various medical categories (A 77 to A 103). Rows list locations from ALCONA to CHEBOYGAN.







TABLE 8 - DEATHS BY CAUSE AND RESIDENCE (Continued)

AREA	HEART DISEASE			PNEUMONIA											A 77 Otitis media & mastoiditis	A 78 All other diseases of nervous system & sense organs	Total										
	A 79 Rheumatic fever	A 80 Chronic rheumatic heart disease	A 81 Arteriosclerotic & degenerative heart disease	A 82 Other diseases of heart	A 83 Hypertension with heart disease	A 84 Hypertension without mention of heart	A 85 Diseases of arteries	A 86 Other diseases of circulatory system	A 87 Acute upper respiratory infections	A 88 Influenza	Total	A 89 Lobar pneumonia	A 90 Bronchopneumonia	A 91 Primary atypical, other & unspecified pneumonia				A 92 Acute bronchitis	A 93 Bronchitis, chronic & unqualified	A 94 Hypertrophy of tonsils & adenoids	A 95 Empyema & abscess of lung	A 96 Pleurisy	A 97 All other respiratory diseases	A 98 Diseases of teeth & supporting structures	A 99 Ulcer of stomach	A 100 Ulcer of duodenum	A 101 Gastritis & duodenitis
OAKLAND	2	16	1,543	1	47	1,208	109	58	109	29	115	69	46	13	3	4	100	20	46	34	2	11	1	14	14	6	23
Berkley			1,317	3	38	36	2	2	4	2	2	3	2	1	1	1	3	1	1	1	1	1	1	1	1	1	2
Berkeley Hills			10	1	10	1	1	1	1	2	3	3	6	1	1	1	1	1	1	1	1	1	1	1	1	1	2
Birmingham			56	4	48	8	2	2	3	1	12	6	6	1	1	1	3	3	3	1	1	2	1	1	1	1	2
Clawson			20	2	18	2	2	2	4	2	1	1	1	1	1	1	2	2	2	4	1	1	1	1	1	1	1
Farmington			34	3	24	1	3	4	2	4	4	4	4	1	1	1	8	2	2	4	1	1	1	1	1	1	1
Ferndale			84	5	78	6	3	3	6	3	3	3	2	2	2	4	4	4	1	1	1	1	1	1	1	1	1
Hazel Park			48	1	45	3	1	1	6	3	3	3	2	2	2	2	2	2	4	1	1	1	1	1	1	1	1
Holly			9	1	8	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Huntington Woods			23	1	22	21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Keego Harbor			12	1	11	7	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Lake Orion			14	1	13	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Lathrup Village			14	1	14	14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Madison Heights			37	1	36	30	3	1	2	1	4	1	3	1	1	1	4	1	1	1	1	1	1	1	1	1	1
Milford			6	1	5	5	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1
Northville Pt.			2	1	2	2	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1
Novi			11	1	10	9	2	2	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1
Oak Park			49	1	48	46	2	2	1	1	2	1	1	1	1	2	3	2	2	2	1	1	1	1	1	1	1
Pleasant Ridge			15	1	14	13	2	2	1	1	2	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1
Pontiac			202	14	188	174	16	16	17	4	20	9	11	2	2	2	21	5	9	7	10	10	10	10	10	10	10
Rochester			5	1	4	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Royal Oak			169	1	168	151	9	8	14	2	17	14	3	1	1	1	9	3	4	2	4	4	4	4	4	4	4
Southfield			46	3	43	42	1	1	1	2	2	2	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1
Troy			47	1	46	37	5	3	3	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Warren			13	1	12	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Walled Lake			369	13	356	316	33	14	39	6	34	24	10	4	4	1	27	2	15	10	2	2	2	2	2	2	2
Balance of County			415	13	302	269	14	14	39	6	34	24	10	4	4	1	27	2	15	10	2	2	2	2	2	2	2
OCEANA			2	68	66	4	53	2	2	9	10	9	1	1	1	10	6	1	5	1	1	1	1	1	1	1	1
OCEMAW			40	1	39	32	5	1	1	1	7	5	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ONTONAGON			49	1	48	41	1	2	3	1	7	5	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
OSCEOLA			81	1	80	62	12	3	4	1	7	7	1	1	1	1	4	2	2	1	1	1	1	1	1	1	1
OSCODA			19	1	18	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1
OTSEGO			29	1	28	25	1	1	2	2	3	1	2	2	2	2	6	3	2	1	1	1	1	1	1	1	1
Gaylord			13	1	12	11	1	1	1	1	2	1	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1
Balance of County			16	1	15	14	1	1	1	1	3	1	2	2	2	4	3	1	1	1	1	1	1	1	1	1	1
OTTAWA			267	9	258	215	21	5	16	6	35	26	9	4	4	3	7	5	2	1	2	2	2	2	2	2	2
Grand Haven			29	2	27	24	4	1	5	2	14	11	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Holland Pt.			76	2	74	62	6	1	1	1	16	11	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Hudsonville			3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Zeeland			20	1	19	14	2	2	2	1	4	4	1	1	1	1	5	3	2	1	2	1	1	1	1	1	1
Balance of County			139	6	133	113	9	2	8	2	10	6	4	2	2	1	5	3	2	1	2	1	1	1	1	1	1
PRESQUE ISLE			45	1	44	32	1	1	12	1	4	4	1	1	1	4	3	3	3	1	1	1	1	1	1	1	1
Rogers City			12	1	11	10	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Balance of County			33	1	32	22	1	1	10	1	3	3	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1
ROSCOMMON			38	1	37	29	2	2	4	1	4	4	1	1	1	4	2	1	1	1	1	1	1	1	1	1	1
SAGINAW			627	12	542	519	23	34	39	16	53	42	11	1	1	1	31	1	13	17	1	1	1	1	1	1	1
Cheshaming			1	1	8	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Saginaw			4	399	346	333	13	20	25	13	30	25	5	1	1	1	21	1	7	13	1	1	1	1	1	1	1
Balance of County			2	218	188	178	10	14	13	3	23	17	6	1	1	1	9	5	4	4	1	1	1	1	1	1	1
ST. CLAIR			3	421	327	296	31	9	76	16	40	23	17	7	7	1	31	2	15	14	1	1	1	1	1	1	1
Algonac			13	1	12	10	2	1	1	1	3	3	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1
Marine City			20	1	19	15	2	1	3	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1
Marysville			8	1	7	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
New Baltimore Pt.			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
Port Huron			176	5	171	150	9	1	41	8	16	7	9	2	2	1	14	8	5	5	1	1	1	1	1	1	1
St. Clair			36	1	35	30	3	3	8	2	17	10	7	1	1	1	13	1	7	5	1	1	1	1	1	1	1
Balance of County			167	3	164	113	14	8	29	7	17	10	7	1	1	1	13	1	7	5	1	1	1	1	1	1	1

TABLE 8 - DEATHS BY CAUSE AND RESIDENCE (Continued)

AREA	HEART DISEASE								PNEUMONIA										Other							
	A 79 Rheumatic fever	A 80 Chronic rheumatic heart disease	A 81 Arteriosclerotic & degenerative heart disease	A 82 Other diseases of heart	A 83 Hypertension with heart disease	A 84 Hypertension without mention of heart	A 85 Diseases of arteries	A 86 Other diseases of circulatory system	A 87 Acute upper respiratory infections	A 88 Influenza	Total	A 89 Lobar pneumonia	A 90 Bronchopneumonia	A 91 Primary atypical, other & unspecified pneumonia	A 92 Acute bronchitis	A 93 Chronic, unqualified bronchitis	A 94 Hypertrophy of conils & adenoids	A 95 Empyema & abscess of lung	A 96 Pleurisy	A 97 All other respiratory diseases	A 98 Diseases of teeth structures & supporting	A 99 Ulcer of stomach	A 100 Ulcer of duodenum	A 101 Gastritis & duodenitis	A 102 Appendicitis	A 103 Intestinal obstruction & hernia
ST. JOSEPH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sturgis	2	10	159	145	14	2	18	14	4	1	1	4	4	-	-	-	-	-	-	4	1	1	3	1	2	
Three Rivers	36	31	31	31	-	2	4	3	2	2	4	4	3	2	1	1	1	1	1	3	1	1	1	1	1	
Balance of County	2	131	112	99	13	4	10	9	1	1	1	2	2	-	-	-	-	-	1	2	1	1	2	1	1	
SANTRAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SANTRAL	166	1	142	124	18	7	12	7	5	1	1	10	1	7	2	1	1	1	2	10	1	2	1	3		
SCHONCRAFT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manistique	40	-	38	26	12	1	1	1	-	-	-	4	3	1	1	1	1	1	1	1	1	1	1	1		
Balance of County	1	30	29	19	10	1	1	1	-	-	-	2	2	-	-	-	-	-	-	2	1	1	1	1		
SHANASSEE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Coruna	189	8	152	139	13	16	2	12	7	5	2	15	2	11	2	3	1	1	7	1	1	4	2	1		
Oshtemo	16	-	14	14	-	2	1	1	-	-	-	1	1	-	-	-	-	-	-	1	1	1	1	1		
Oshtemo	63	4	34	51	3	2	4	7	4	3	2	1	1	1	1	1	1	1	3	1	1	1	1	1		
Balance of County	86	3	70	63	7	4	9	1	4	3	1	6	2	5	1	2	1	1	3	1	2	2	2	1		
TUSCOLA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Caro	174	3	154	136	18	8	7	13	11	2	-	7	1	3	3	1	1	1	2	1	1	1	1	4		
Vassar	15	-	15	13	2	1	1	1	-	-	-	1	1	-	-	-	-	-	-	1	-	-	-	-		
Balance of County	14	-	11	10	15	7	7	12	10	2	-	7	1	3	3	-	-	-	2	-	-	-	-	-		
VAN BUREN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Paw Paw	212	7	186	175	11	5	14	6	35	24	11	5	1	3	1	1	1	1	6	-	-	-	-	6		
South Haven	17	-	16	16	-	1	8	8	2	1	1	1	1	-	-	-	-	-	2	-	-	-	-	4		
Balance of County	25	7	21	19	2	4	6	8	2	1	1	1	1	-	-	-	-	-	1	-	-	-	-	1		
WASHINGTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ann Arbor	362	17	309	291	18	15	21	4	50	40	10	26	3	10	11	1	1	1	20	1	1	1	1	7		
Chelsea	129	1	119	113	6	4	5	1	19	14	5	9	5	4	4	1	1	1	12	1	1	1	1	3		
Millan Pt.	20	1	15	15	-	1	3	-	4	2	2	4	2	-	-	-	-	-	2	-	-	-	-	1		
Spasianti	1	3	3	3	-	2	4	2	2	2	2	1	1	1	1	1	1	1	2	-	-	-	-	1		
Balance of County	4	160	133	123	10	8	9	1	19	15	4	13	3	4	6	1	1	1	2	-	-	-	-	3		
WAYNE	126	6	348	7,453	372	252	823	184	524	314	210	112	6	17	794	134	305	355	7	34	2	105	82	111		
Allen Park	1	52	3	39	39	3	7	4	4	3	1	1	1	1	3	-	-	-	-	2	1	1	1	1		
Dearborn	11	384	16	332	328	4	14	21	4	23	12	11	2	1	28	2	10	16	4	4	-	-	-	7		
Ecorse	69	5,940	5	5,818	5,231	287	194	668	376	225	151	86	3	10	544	109	199	236	22	2	2	70	57	85		
Flat Rock	2	62	3	56	53	3	1	2	3	3	1	2	2	1	13	1	1	1	21	2	1	1	1	1		
Garden City	1	56	1	12	11	1	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-		
Grosse Pointe	1	37	3	46	3	2	2	2	2	1	1	1	1	1	6	1	1	1	2	1	-	-	-	-		
Grosse Pointe Farms	30	2	30	28	2	3	2	1	5	2	3	1	1	2	2	1	1	2	2	1	-	-	-	-		
Grosse Pointe Park	2	60	2	59	6	4	4	3	1	4	3	1	1	1	2	1	1	2	2	1	-	-	-	-		
Grosse Pte., Woods	2	42	3	35	31	6	3	3	5	1	4	4	1	1	2	1	1	2	2	1	-	-	-	-		
Hamtramck	1	56	1	12	11	1	1	1	8	4	4	1	1	1	1	1	1	1	1	1	-	-	-	-		
Harper Woods	42	3	36	34	7	2	14	5	11	9	2	3	1	1	25	4	11	10	2	1	-	-	-	-		
Highland Park	3	193	3	168	162	7	5	3	12	8	4	1	1	1	18	3	7	18	5	1	-	-	-	-		
Inkster	53	2	42	37	5	17	3	5	3	2	2	1	1	1	17	2	5	10	3	3	-	-	-	-		
Lincoln Park	1	103	5	88	7	4	9	3	8	2	2	1	1	1	10	2	3	7	3	1	-	-	-	-		
Livonia	29	144	5	126	119	7	4	3	5	3	2	1	1	1	12	2	3	7	3	1	-	-	-	-		
Melvindale	18	39	2	35	32	3	2	2	2	1	1	1	1	1	3	2	1	1	3	1	-	-	-	-		
Northville Pt.	55	1	50	49	1	5	2	5	4	1	1	2	1	2	5	3	3	4	4	1	-	-	-	-		
Plymouth	6	32	4	27	27	1	1	1	1	1	1	1	1	1	7	1	1	1	3	1	-	-	-	-		
River Rouge	1	38	1	35	35	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-		
Riverview	2	71	5	60	57	3	2	4	1	1	1	1	1	1	3	1	1	1	3	1	-	-	-	-		
Southgate	129	5	113	107	6	2	9	3	8	3	5	2	1	1	18	2	10	6	4	1	-	-	-	-		
Trenton	9	438	19	381	364	17	13	25	13	35	24	11	7	1	61	6	28	27	2	2	-	-	-	-		
Wayne	80	1	69	61	8	3	7	3	7	6	1	2	1	1	5	1	1	1	13	1	-	-	-	-		
Wyandotte	49	-	42	36	6	1	2	2	2	2	1	2	1	1	1	1	1	1	1	1	-	-	-	-		
Balance of County	1	31	27	25	2	2	1	2	5	4	1	4	1	4	4	1	1	1	1	1	-	-	-	-		
WEXFORD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bedford	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	-	-	-	-		













TABLE 8 - DEATHS BY CAUSE AND RESIDENCE (Continued)

AREA	NEPHRITIS & NEPHROSIS													MATERNAL DEATHS								CONGENITAL MALFORMATIONS													
	A104 Gastro-enteritis & colitis, except diarrhea of newborn	A105 Liver Chirosis	A106 Cholelithiasis	A107 Other diseases of digestive system	Total	A108 Acute nephritis	A109 Chronic, other nephritis	A109 Chronic, other nephritis & unspecified nephritis	A109 Chronic, other nephritis with edema, including nephroses	A109 Chronic, other nephritis & unspecified nephritis & other renal scleroses	A110 Infections of kidney	A111 Calculi of urinary system	A112 Hypertasia of prostate	A114 Other diseases of genit-urinary system	Total	A115 Sepsis of preg-nancy, childbirth & puerperium	A116 Toxemia of pregnancy & puerperium	A117 Hemorrhage of pregnancy & childbirth	A118 Abortion without mention sepsis or toxemia	A119 Abortion with sepsis	A120 Other complications of preg-nancy, childbirth & puerperium	A121 Infections of skin & subcutaneous tissue	A122 Arthritis & spondylitis	A123 Muscular rheumatism & rheumatism unspecified	A124 Osteomyelitis & pericostitis	A125 Ankylosis & acquired musculoskeletal deformities	A126 All other diseases of skin & musculo-skeletal system	Total	A127 Spina bifida & meningocele	A128 Congenital malformations of circulatory system	A129 All other congenital malformations				
ST. JOSEPH																																			
Sturgis	5	2		1	6		6	1		1		2																7	1	4	2				
Three Rivers	1	1		1	3		3			1																	1	1	1	1	1				
Balance of County	3	2	1	1	3		3	1	2	1		2															5	1	3	1	1				
SANILAC																																			
SANTOUG																																			
SCHOOLEDRAPE																																			
Balance of County	1	1	1	1	4		4																				2	1	1	1	1	1	1		
SHIMASSIE																																			
Conasa	1	3		6	2		2		2	3		1															10		7	3					
Dorand																																			
Oeasso		1		1	2		2		2	1		1															3		1	2	1				
Balance of County	1	2	1	3	3		3		3	1		1															7		3	2	1	1			
TUSCOLA																																			
Caro	1	3	1	2	7		7	1	6	1	1	2															5	1	1	3					
Vassar																																			
Balance of County	1	3	1	2	5		5		5	1		2															5	1	1	3					
VAN BUREN																																			
Paw Paw	4	2	3	4	1		1		1																		8		3	5					
South Haven	1																																		
Balance of County	3	2	3	4	1		1		1																		7		1	2	5				
WASHINGTON																																			
Ann Arbor	9	7	2	3	7		7	1	6	3		5															33		18	15					
Chelsea	2	3	1	2	3		3	1	2																		4		2	2					
Chelsea	1																																		
Michigan Pt.	1																																		
Ypsilanti	2																																		
Balance of County	4	3	1	1	2		2		2	3		1															13		6	7					
WAYNE																																			
Allen Park	74	446	83	118	163		163	10	135	111	20	59	34	37	4	3	3	10	14	3	28	3	3	1	37	323	15	163	145						
Dearborn	4	13		8	4		4		4	5	1	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1			
Detroit	50	354	62	82	128		128	6	108	83	17	50	30	28	3	3	9	11	3	23	3	3	1	25	172	7	95	73							
Escanaba																																			
Flint Rock																																			
Garden City	2	1		1																															
Grosse Pointe	1	4	1	1																															
Grosse Pointe Farms																																			
Grosse Pte. Park																																			
Grosse Pte. Woods																																			
Hamtramck	1	1		1																															
Harper Woods	14			7	2		2		2	1	3	1	1	1	1	1																			
Highland Park	2	8	1	1	3		3	1	2	2	1	1	1	1	1	1																			
Inkster																																			
Lincoln Park	1	1	3	2	2		2		2	2																									
Livonia	2	8	2	1	3		3		3	2																									
Livonia	1	1		1																															
Meivindale	1	1		1																															
Northville Pt.																																			
Plymouth	1	1		1																															
River Rouge		3		1	3		3	1	2																										
Riverview																																			
Southgate		2	1	1	3		3		3																										
Trenton	1	3		1	4		4		4	1																									
Wyne		2		1	3		3		3	1		2																							
Wyandotte	2	5	1	2	6		6	1	5	4	7	1	2	1	2		1	1	1	1	1	1	1	1	1	3	44	3	22	19					
Balance of County	6	14	6	6	6		6	1	4	7	1	2	1	2	1	2	1	1	1	1	1	1	1	1	1	5	2	1	1	1	1	1	1		
WEXFORD																																			
Gadillac	1	2		1	5		5	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1		
Balance of County	1	2		1	4		4	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1		



TABLE 8 - DEATHS BY CAUSE AND RESIDENCE (Continued)

AREA	A 130 Birth injuries	A 131 Postnatal asphyxia & asphyxia	A 132 Infections of newborn	A 133 Hemolytic disease of newborn	A 134 All other defined diseases of early infancy	A 135 Ill-defined diseases peculiar to early infancy & immaturity unqualified	A 136 Sentries without mention of psychosis	A 137 Ill-defined & unknown causes of mortality	ACCIDENTS												Total	A 138 Motor vehicle accidents	A 139 Other transport accidents	A 140 Accidental poisoning	A 141 Accidental falls	A 142 Accident caused by machinery	A 143 Accident caused by fire & explosion of combustible material	A 144 Accident caused by hot substance, steam & radiation	A 145 Accident caused by firearm	A 146 Accidental drowning & submersion	A 147 All other accidental causes	A 148 Suicide & self-inflicted injury	A 149 Homicide & injury by other persons (not in war) purposely inflicted
									773 Ill-defined diseases	774-776 Immaturity	763 Pneumonia of newborn	764 Diphtheria of newborn	765-768 Other infections of newborn	763 Pneumonia of newborn	764 Diphtheria of newborn	765-768 Other infections of newborn	773 Ill-defined diseases	774-776 Immaturity	763 Pneumonia of newborn	764 Diphtheria of newborn													
CHIPPEWA Sault Ste. Marie Balance of County	-	5	-	-	-	8	7	-	14	1	5	1	3	3	1	1	1	1	1	1	1	1	2	6	3	2							
CLARE	2	1	-	-	-	6	6	-	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-							
CLINTON St. Johns Balance of County	4	1	3	3	2	8	7	-	21	2	4	1	1	1	1	1	1	1	1	1	1	1	2	3	3	-							
GRAFFORD	1	-	-	-	-	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-							
DELTA Escanaba Gladstone Balance of County	6	2	-	-	-	3	1	-	21	7	2	1	1	1	1	1	1	1	1	1	1	1	2	4	6	3							
DICKINSON Iron Mountain Kingsford Norway Balance of County	3	3	-	-	-	1	-	-	11	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	-							
EATON Charlotte Eaton Rapids Grand Ledge Balance of County	2	1	-	-	-	2	2	2	20	7	2	6	1	1	1	1	1	1	1	1	1	1	2	7	7	1							
EMMET Petoskey Balance of County	2	2	-	-	-	1	-	-	10	2	2	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1							
GENESSEE Davison Fenton Flint Flushing Mount Morris Swartz Creek Balance of County	24	45	7	6	5	89	76	-	181	90	3	32	3	14	1	9	23	35	20	2	2	1	9	23	35	20							
GLADWIN	-	-	-	-	-	2	2	-	12	3	2	1	-	-	-	3	3	1	-	-	-	-	3	3	1	-							
COGEBIC Bessemer Ironwood Wakefield Balance of County	1	-	1	1	-	7	5	-	12	6	1	2	-	-	-	1	2	-	-	-	-	-	3	4	4	-							
GRAND TRAVERSE Traverse City Balance of County	4	2	-	-	-	8	6	-	18	7	-	5	2	1	-	2	1	-	-	-	-	2	1	1	6	1							
GRATIOT Alma Ithaca St. Louis Balance of County	-	-	1	1	3	6	5	-	25	14	-	8	1	-	-	8	1	-	-	-	-	-	2	2	2	-							
HILLSDALE Hillsdale Balance of County	2	2	1	1	-	5	5	-	26	14	-	1	2	1	-	3	1	-	-	-	-	1	1	1	11	1							
HOUGHTON Hancock Houghton Laurium Balance of County	2	3	-	-	-	5	5	-	23	6	2	10	2	1	-	2	2	-	-	-	-	1	1	3	5	-							
	1	1	1	1	1	2	2	-	15	4	1	6	1	-	-	1	1	-	-	-	-	1	1	3	2	-							







TABLE 8 - DEATHS BY CAUSE AND RESIDENCE (Continued)

AREA	ACCIDENTS										Total	A 138 Motor vehicle accidents	A 139 Other transport accidents	A 140 Accidental poisoning	A 141 Accidental falls	A 142 Accident caused by machinery	A 143 Accident caused by fire & explosion of combustible material	A 144 Accident caused by hot substance, corrosive liquid, steam & radiation	A 145 Accident caused by firearm	A 146 Accidental drowning & submersion	A 147 All other accidental causes	A 148 Suicide & self-inflicted injury	A 149 Homicide & injury by other persons (not in war)	
	A 130 Birth injuries	A 131 Postnatal asphyxia & atelectasis	A 132 Infections of newborn	A 133 Hemolytic disease of newborn	A 134 All other defined diseases of early infancy	A 135 Ill-defined diseases peculiar to early infancy & immaturity unqualified	A 136 Semility without 774-776 immaturity diseases	A 137 Ill-defined & unknown causes of mortality																
OAKLAND	41	60	13	11	2	85	15	70	1	4	250	135	10	6	43	3	9	1	3	16	25	55	16	
Berkley Hills	1	1	1	1	1	3	1	3	1	1	10	5	1	1	2	1	1	1	1	1	1	2	2	1
Beverly Hills	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1
Birmingham	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1
Clavson	1	1	1	1	1	1	1	1	1	1	9	2	1	1	1	1	1	1	1	1	1	1	1	1
Farmington	1	1	1	1	1	1	1	1	1	1	5	3	1	1	1	1	1	1	1	1	1	1	1	1
Ferndale	1	1	1	1	1	1	1	1	1	1	11	6	1	1	1	1	1	1	1	1	1	1	1	1
Hazel Park	1	1	1	1	1	1	1	1	1	1	9	5	1	1	1	1	1	1	1	1	1	1	1	1
Holly	1	1	1	1	1	1	1	1	1	1	6	2	1	1	1	1	1	1	1	1	1	1	1	1
Huntington Woods	1	1	1	1	1	1	1	1	1	1	3	2	1	1	1	1	1	1	1	1	1	1	1	1
Keego Harbor	1	1	1	1	1	1	1	1	1	1	3	2	1	1	1	1	1	1	1	1	1	1	1	1
Lake Orion	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1
Lathrup Village	1	1	1	1	1	1	1	1	1	1	9	5	1	1	1	1	1	1	1	1	1	1	1	1
Madison Heights	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
Millford	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Northville Pt.	1	1	1	1	1	1	1	1	1	1	3	2	1	1	1	1	1	1	1	1	1	1	1	1
Novi Park	1	1	1	1	1	1	1	1	1	1	3	2	1	1	1	1	1	1	1	1	1	1	1	1
Oak Park	1	1	1	1	1	1	1	1	1	1	7	4	1	1	1	1	1	1	1	1	1	1	1	1
Pleasant Ridge	1	1	1	1	1	1	1	1	1	1	3	2	1	1	1	1	1	1	1	1	1	1	1	1
Redwood	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Rochester	1	1	1	1	1	1	1	1	1	1	40	18	3	1	1	1	1	1	1	1	1	1	1	1
Royal Oak	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
Southfield	1	1	1	1	1	1	1	1	1	1	18	9	3	1	1	1	1	1	1	1	1	1	1	1
Troy	1	1	1	1	1	1	1	1	1	1	9	7	1	1	1	1	1	1	1	1	1	1	1	1
Walled Lake	1	1	1	1	1	1	1	1	1	1	9	4	1	1	1	1	1	1	1	1	1	1	1	1
Balance of County	9	10	4	3	1	31	7	24	2	1	84	53	2	9	2	2	2	2	2	7	7	19	7	1
OCEANA	1	1	1	1	1	3	1	2	1	1	9	5	1	1	1	1	1	1	1	1	1	1	1	1
OGEAWA	1	1	1	1	1	1	1	1	1	1	5	2	1	1	1	1	1	1	1	1	1	1	1	1
ONTONAGON	1	1	1	1	1	4	1	3	1	1	6	1	1	1	1	1	1	1	1	1	1	1	1	1
OSCEOLA	1	1	1	1	1	3	1	3	1	1	5	2	1	1	1	1	1	1	1	1	1	1	1	1
OSCODA	1	1	1	1	1	3	1	3	1	1	5	2	1	1	1	1	1	1	1	1	1	1	1	1
OTSEGO	1	1	1	1	1	4	2	2	1	1	4	2	1	1	1	1	1	1	1	1	1	1	1	1
Gaylord	1	1	1	1	1	3	2	1	1	1	3	2	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
OTTAWA	2	6	2	2	4	9	2	7	1	1	51	22	4	5	5	2	1	1	2	11	4	3	2	2
Grand Haven	1	1	1	1	1	4	1	3	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
Holland Pt.	1	1	1	1	1	4	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
Hudsonville	1	1	1	1	1	2	1	2	1	1	15	5	1	1	1	1	1	1	1	1	1	1	1	1
Zeeland	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	2	4	1	1	3	2	1	2	1	1	31	14	3	3	3	1	1	1	1	6	3	1	2	2
PRESQUE ISLE	2	2	1	1	1	1	1	1	1	1	10	3	1	1	1	1	1	1	1	1	1	1	1	1
Rogers City	1	1	1	1	1	1	1	1	1	1	2	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	8	2	1	1	1	1	1	1	1	1	1	1	1	1
ROSCOMMON	1	1	1	1	1	1	1	1	1	1	5	3	1	1	1	1	1	1	1	1	1	1	1	1
SAGINAW	10	18	6	2	4	37	6	31	2	3	97	54	3	1	15	2	13	1	1	2	6	8	10	10
Chesaning	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1
Saginaw	7	10	3	1	1	23	5	18	1	2	48	22	2	8	1	1	10	1	1	2	5	4	8	8
Balance of County	3	8	3	1	2	13	1	12	1	1	46	29	1	7	1	1	5	1	1	2	1	4	2	2
ST. CLAIR	7	9	1	1	1	16	3	13	1	1	70	28	1	3	19	1	2	1	1	6	12	7	2	2
Algonac	1	1	1	1	1	3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Marine City	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
Marysville	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
New Baltimore Pt.	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
Port Huron	2	4	1	1	1	6	1	6	1	1	27	8	1	2	10	1	2	1	1	2	2	2	2	2
St. Clair	1	1	1	1	1	1	1	1	1	1	5	1	1	6	1	1	1	1	1	4	1	1	1	1
Balance of County	3	5	1	1	1	7	2	5	1	1	33	15	1	6	1	1	1	1	1	4	7	3	2	2







TABLE 11 - LIVE BIRTHS, DEATHS, AND RATES BY OCCURRENCE AND RESIDENCE: LIVE BIRTHS BY LEGITIMACY AND IMMATURITY, FETAL DEATHS, DEATHS UNDER 1 YEAR BY AGE GROUPS, MATERNAL DEATHS, AND RATES (OR RATIOS) BY RESIDENCE FOR CITIES OF 10,000 POPULATION OR MORE: POPULATION MICHIGAN, 1961

(Deaths exclusive of fetal deaths. Birth and death rates per 1,000 population. Illegitimate and immature birth ratios, fetal death ratios, and death rates under 1 year by age groups per 1,000 live births. Maternal death rates per 10,000 live births.)

Table with columns: CITIES (10,000 Population or More), POPULATION ESTIMATES (Jul.1,1961), LIVE BIRTHS (Occurrence, Total, Illegitimate, Immature\*), FETAL DEATHS (Residence), DEATHS (All Ages, Under 1 Day, Under 1 Week, Under 28 Days, Under 1 Year, Maternal). Rows list various Michigan cities like Detroit, Ann Arbor, Grand Rapids, etc.

\* Defined by the World Health Organization for statistical purposes as all infants weighing 5 lb. 8 oz. (2,500 grams) or less.

Note: Population Estimates prepared by University of Michigan Population Studies Center.









TABLE 12 - LIVE BIRTHS, DEATHS, AND RATES BY OCCURRENCE AND RESIDENCE: LIVE BIRTHS BY SEX, COLOR, PLURALITY, PLACE OF DELIVERY, ATTENDANT AT BIRTH, LEGITIMACY, AND IMMATURITY BY RESIDENCE: FETAL DEATHS BY RESIDENCE: DEATHS BY COLOR, AGE GROUPS UNDER 1 YEAR, AND MATERNAL DEATHS BY RESIDENCE: POPULATION (Continued)

AREA	POPULATION ESTIMATES		LIVE BIRTHS										FETAL DEATHS										DEATHS									
	Jul. 1, 1961		Occurrence		Sex		Residence		Place of Delivery		Illegitimacy		Immature Births		Residence		Occurrence		Nonwhite		Under 1 Year		Under 28 Days		Maternal							
	Number	Rate	Male	Female	Nonwhite	Negro	Other	Twins	Triplets	Hospital	Non-hospital	Physician	Other	Physician	Other	Number	Rate	Number	Rate	Negro	Other	Under 1 Day	Under 1 Week	Under 28 Days	Under 1 Year	Maternal						
MANISTEE	19,200	446	240	201	1	14	-	-	437	4	-	14	23	231	12.0	259	13.5	1	2	3	6	7	12	-	-							
Manistee	8,400	337	219	118	-	8	-	-	218	1	-	7	13	142	16.9	124	14.8	1	2	3	6	7	12	-	-							
Balance of County	10,800	109	10.1	222	20.6	118	104	6	215	3	-	7	10	89	8.2	135	12.5	1	2	-	-	-	-	-	-							
MARQUETTE	57,900	1,596	803	774	31	20	23	109	1,574	2	1	30	109	526	9.1	535	9.2	1	1	14	23	25	33	-	-							
Marquette	9,100	538	311	227	2	7	6	21	268	2	1	7	21	162	17.8	92	10.1	1	1	3	3	4	5	-	-							
Balance of County	20,500	956	461.6	560	27.3	286	274	7	560	-	-	10	41	24	11.0	182	8.9	-	-	5	9	10	14	-	-							
MASON	6,300	82	3	79	2	4	4	11	166	-	-	10	2	14	2.2	65	10.3	-	-	1	1	1	1	-	-							
Balance of County	22,000	428	19.4	302	28.1	302	281	12	580	2	1	11	36	125	5.7	196	8.9	1	1	6	10	10	13	-	-							
MICHIGAN	2,100	428	19.4	302	28.1	302	281	12	580	2	1	11	36	125	5.7	196	8.9	1	1	6	10	10	13	-	-							
Balance of County	9,600	428	44.6	163	13.0	90	73	4	163	-	-	4	13	52	4.2	131	10.5	1	2	6	8	8	10	-	-							
MENOMINEE	21,200	453	21.4	493	23.3	251	242	10	491	1	1	18	23	222	10.5	227	10.7	2	2	3	5	7	9	1	-							
Balance of County	8,800	343	39.0	186	21.1	104	82	2	186	-	-	7	13	99	11.2	78	8.9	-	-	1	3	4	5	1	-							
MENOMONIE	12,400	110	8.9	307	24.8	147	160	3	305	1	1	11	10	123	9.9	149	12.0	2	2	2	2	3	5	1	-							
Balance of County	24,900	676	27.1	519	20.8	260	259	9	518	1	-	5	35	317	12.7	275	11.0	-	-	8	12	12	14	-	-							
MIDLAND	11,500	675	58.7	244	21.2	126	118	8	244	-	-	4	21	198	17.2	113	9.8	-	-	4	6	6	6	-	-							
Balance of County	13,400	1	0.1	275	20.5	134	141	9	274	1	-	1	14	119	8.9	162	12.1	-	-	5	4	6	6	-	-							
MIDLAND	53,100	1,511	28.5	1,502	28.3	748	754	31	1,494	8	-	26	89	286	5.4	336	6.3	-	-	14	20	23	30	-	-							
Balance of County	28,900	1,505	52.1	871	30.1	422	449	2	869	-	-	17	51	227	7.9	167	5.8	-	-	9	13	15	18	-	-							
MISSAIGEE	24,200	6	0.2	631	26.1	326	305	1	625	6	-	9	38	59	2.4	169	7.0	-	-	5	7	8	12	-	-							
Balance of County	6,900	1	0.1	146	21.2	79	67	-	144	-	-	2	6	24	3.5	72	10.4	-	-	3	4	4	5	-	-							
MONROE	102,600	1,616	15.8	2,706	26.4	1,362	1,344	61	2,696	9	1	44	198	589	5.7	800	7.8	16	-	32	44	49	64	1	-							
Balance of County	8,800	1	1.2	31	38.8	16	15	3	20	-	-	3	3	3	3.8	13	16.2	2	-	2	3	3	3	-	-							
MONTCALM	23,500	1,607	68.4	765	32.6	393	372	41	1,603	1	1	16	71	272	11.6	228	9.7	8	-	10	16	18	21	-	-							
Balance of County	78,300	8	0.1	1,910	24.4	953	957	17	1,903	7	-	27	125	314	4.0	559	7.1	6	-	20	25	28	40	1	-							
MONTGOMERY	36,500	1,508	41.3	856	23.5	421	435	1	852	4	-	12	46	429	11.8	402	11.0	1	-	4	12	13	21	-	-							
Balance of County	7,600	618	81.3	172	22.6	82	87	4	172	-	-	4	8	128	16.8	76	10.0	1	-	4	2	2	4	-	-							
MUSKOGEE	28,900	890	30.8	684	23.7	336	348	1	680	4	-	8	38	301	10.4	326	11.3	1	-	2	2	2	4	-	-							
Balance of County	4,400	7	1.6	95	21.6	49	46	-	88	5	2	2	11	35	8.0	51	11.6	-	-	2	2	2	2	-	-							
MUSKOGEE	151,400	3,898	25.7	4,075	26.9	2,115	1,960	78	4,057	14	4	207	294	1,140	7.5	1,203	7.9	88	2	44	72	79	106	-	-							
Balance of County	15,600	3,887	85.2	1,284	28.2	668	616	132	1,280	14	4	96	87	857	18.8	499	10.9	34	1	12	17	19	24	-	-							
MUSKOGEE HILLS	25,800	3	0.2	640	32.3	332	308	291	637	2	1	66	60	39	2.0	178	9.0	48	-	12	19	20	26	-	-							
Balance of County	3,900	2	0.8	44	16.9	25	19	-	93	-	-	3	5	11	2.8	24	6.2	-	-	1	1	1	1	-	-							
MUSKOGEE	2,600	2	0.8	44	16.9	25	19	-	43	1	-	1	4	9	3.3	17	6.3	-	-	1	1	1	1	-	-							
Balance of County	76,800	6	0.1	1,942	25.3	1,004	938	40	1,932	7	3	41	137	221	2.9	473	6.2	6	1	18	34	38	53	-	-							
NEWAYGO	24,700	696	28.2	645	26.1	329	316	6	643	2	-	17	34	240	9.7	239	9.7	6	-	8	11	11	16	-	-							
Balance of County	3,500	502	143.4	103	29.4	43	60	2	103	-	-	3	2	87	24.9	31	8.9	6	-	2	2	2	4	-	-							
OAKLAND	21,200	194	9.2	542	25.6	286	256	10	540	2	-	14	32	153	7.2	208	9.8	6	-	8	10	10	14	-	-							
OAKLAND	700,800	10,876	15.5	17,200	24.5	8,960	8,240	638	17,133	63	4	504	1,193	3,521	5.0	4,177	6.0	152	1	150	237	264	364	10	-							
Balance of County	23,300	2	0.1	501	21.5	264	237	1	499	2	-	10	25	13	1.5	131	5.6	-	-	6	7	10	14	-	-							
Beverly Hills	8,700	-	0	41	4.7	20	21	-	41	-	-	2	4	13	1.5	34	3.9	-	-	6	7	10	14	-	-							
Balance of County	25,800	-	0	800	31.0	423	377	3	799	1	-	10	21	39	1.5	223	8.6	1	-	7	8	8	10	-	-							
CLAWSON	14,900	-	0	412	27.7	206	206	-	412	-	-	3	21	12	0.8	75	5.0	-	-	3	7	8	8	-	-							
Balance of County	7,400	-	0	756	102.2	368	388	-	756	-	-	13	46	12	1.6	84	11.4	-	-	5	8	10	14	-	-							
FARMINGTON	31,500	433	13.7	828	26.3	458	370	109	826	2	-	46	61	130	4.1	253	8.0	21	-	3	10	12	18	-	-							
Balance of County	25,900	1	0.0	680	26.3	349	331	12	679	-	-	19	45	40	1.5	148	5.7	-	-	4	8	9	15	-	-							
HASZEL PARK	3,400	1	0.3	144	42.4	74	70	1	142	2	-	3	14	23	6.8	37	10.9	2	-	5	5	5	5	-	-							
Balance of County	8,800	-	0	96	10.9	45	41	-	96	-	-	2	6	12	1.4	43	4.9	-	-	1	1	1	1	-	-							
HUNTINGTON WOODS	2,800	-	0	73	26.8	35	48	1	75	-	-	3	4	8	3.0	26	9.6	-	-	1	1	1	1	-	-							
Balance of County	2,700	-	0	103	38.1	19	12	-	101	-	-	7	2	6	1.7	26	7.2	-	-	13	15	16	26	-	-							
LAKE ORION	3,600	2	0.1	1,271	37.2	624	646	2	1,267	2	1	23	87	21	0.6	31	6.9	-	-	2	2	2	2	-	-							
Balance of County	4,500	-	0	188	41.8	98	90	-	188	-	-	3	14	7	1.6	31	6.9	-	-	2	2	2	2	-	-							
LAKE ORION	4,500	-	0	20	18.2	12	8	-	20	-	-	-	-	0	0	0	0	-	-	0	0	0	0	-	-							
Balance of County	37,100	-	0	742	20.0	387	355	4	742	-	-	10	49	46	7.2	35	5.5	-	-	5	9	9	11	-	-							
KEEOG HARBOR	82,700	1	0.3	64	17.3	36	28	-	63	-	-	1	4	21	0.6	156	4.2	-	-	3	4	4	4	-	-							
Balance of County	5,500	7,2																														

TABLE 12 - LIVE BIRTHS, DEATHS, AND RATES BY OCCURRENCE AND RESIDENCE: LIVE BIRTHS BY SEX, COLOR, PLURALITY, PLACE OF DELIVERY, ATTENDANT AT BIRTH, LEGITIMACY, AND IMMaturity BY RESIDENCE: FETAL DEATHS BY RESIDENCE: DEATHS BY COLOR, AGE GROUPS UNDER 1 YEAR, AND MATERNAL DEATHS BY RESIDENCE: POPULATION (Continued)

AREA	POPULATION ESTIMATES Jul. 1, 1961		L I V E B I R T H S										D E A T H S																		
	Occurrence		R e s i d e n c e					P l a c e o f D e l i v e r y					F E T A L D E A T H S					O c c u r r e n c e					R e s i d e n c e								
	Number	Rate	Male	Female	Nonwhite	Plural Births	Hospital	Non-Hospital	Physician	Other	Illegitimate	Immature Births*	Number	Rate	Nonwhite	Under 1 Day	Under 1 Week	Under 28 Days	Under 1 Year	Maternal	Number	Rate	Negro	Other	Under 1 Day	Under 1 Week	Under 28 Days	Under 1 Year	Maternal		
OCEANA	16,600	497 29.9	370 22.3	181 189	-	2	4	-	370	-	10	29	5	191 11.5	3	1	7	11	11	15	-	-	-	-	-	-	-	-	-		
OGEAW	9,600	362 37.7	204 21.2	94 110	-	-	-	199	4	1	5	10	3	167 17.4	-	-	-	2	4	5	-	-	-	-	-	-	-	-	-		
ONTONAGON	10,900	147 13.5	245 22.5	113 132	-	4	12	-	244	1	2	19	3	90 8.3	-	-	4	6	6	7	-	-	-	-	-	-	-	-	-		
OSCEOLA	13,800	293 21.2	308 22.3	161 147	-	-	5	-	305	3	8	19	4	169 12.2	-	-	5	9	9	10	-	-	-	-	-	-	-	-	-		
OSCODA	3,600	40 11.1	84 23.3	44 40	-	2	-	-	49	35	1	10	2	31 8.6	-	-	2	4	4	5	-	-	-	-	-	-	-	-	-		
OTSEGO	8,000	238 29.8	219 27.4	125 94	-	1	3	-	216	3	3	12	4	91 11.4	-	-	5	6	7	9	-	-	-	-	-	-	-	-	-		
Gaylord	2,700	237 87.8	63 23.3	33 30	-	-	-	-	62	1	2	5	3	66 24.4	-	-	2	2	2	2	-	-	-	-	-	-	-	-	-	-	
Balance of County	5,300	1 0.2	156 29.4	92 64	-	1	3	-	154	2	1	7	3	25 4.7	-	-	3	4	5	7	-	-	-	-	-	-	-	-	-		
OTTAWA	99,900	2,301 23.0	2,617 26.2	1,307 1,310	-	2	4	62	2,614	3	35	120	28	710 7.1	-	-	20	30	34	45	-	-	-	-	-	-	-	-	-	-	
Grand Haven	11,200	665 59.4	294 26.2	146 148	-	1	2	-	294	4	4	19	4	169 15.1	-	-	8	8	9	9	-	-	-	-	-	-	-	-	-	-	
Holland Pt.	22,200	976 44.0	476 21.4	233 243	-	8	-	-	476	-	12	20	3	246 11.1	-	-	1	3	4	7	-	-	-	-	-	-	-	-	-	-	
Hudsonville	3,700	-	54 20.0	26 28	-	2	-	-	54	-	3	3	3	5 1.9	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	
Zeeland	3,600	659 183.1	94 26.1	46 48	-	1	-	-	94	-	1	2	1	104 28.9	-	-	10	16	18	26	-	-	-	-	-	-	-	-	-	-	
Balance of County	60,200	1 0.0	1,699 28.2	856 843	-	2	2	50	1,696	3	18	76	20	186 3.1	-	-	10	16	18	26	-	-	-	-	-	-	-	-	-	-	
FRESQUE ISLE	13,200	368 27.9	338 25.6	161 177	-	1	2	-	337	1	5	24	9	100 7.6	-	-	2	3	5	7	-	-	-	-	-	-	-	-	-	-	
Rogers City	4,800	288 60.0	120 25.0	54 66	-	1	-	-	120	-	9	9	9	44 9.2	-	-	1	2	2	2	-	-	-	-	-	-	-	-	-	-	
Balance of County	8,400	80 9.3	218 26.0	107 111	-	-	-	-	217	1	4	15	9	56 6.7	-	-	1	1	3	5	-	-	-	-	-	-	-	-	-	-	
ROSCOMON	7,500	7 0.9	154 20.5	76 78	-	-	-	-	148	5	1	9	2	44 5.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAGINAW	192,900	5,271 27.3	5,156 26.7	2,646 2,510	-	5	113	-	5,134	-	258	407	86	1,750 9.1	-	-	50	87	100	134	-	-	-	-	-	-	-	-	-	-	
Chesaning	2,800	-	83 33.2	44 49	-	-	-	-	83	-	1	7	1	14 5.0	-	-	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-
Saginaw	99,200	5,261 53.0	2,575 26.0	1,336 1,239	-	57	-	-	2,563	12	207	219	47	1,298 13.1	-	-	29	46	55	79	-	-	-	-	-	-	-	-	-	-	-
Balance of County	90,900	10 0.1	2,488 27.4	1,266 1,222	-	4	53	-	2,478	10	50	181	38	438 4.8	-	-	19	39	43	53	-	-	-	-	-	-	-	-	-	-	
ST. CLAIR	107,500	2,266 21.1	2,395 22.3	1,209 1,186	-	7	44	3	2,376	16	3	82	157	1,009 9.4	-	-	26	39	45	62	-	-	-	-	-	-	-	-	-	-	
Algonac	3,300	1 0.3	137 41.5	66 71	-	-	-	-	136	1	12	12	21	17 5.4	-	-	1	3	4	4	-	-	-	-	-	-	-	-	-	-	
Marine City	4,500	-	162 36.0	80 82	-	-	-	-	162	-	3	4	4	17 3.8	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	
Marysville	4,100	-	108 26.3	48 60	-	2	-	-	108	-	3	4	2	2 0.5	-	-	2	2	2	2	-	-	-	-	-	-	-	-	-	-	
New Baltimore Pt.	800	-	7 8.8	1 6	-	-	-	-	7	-	-	-	-	4 5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Port Huron	36,200	1,552 42.9	942 26.0	468 474	-	5	12	3	937	5	50	66	13	626 17.3	-	-	9	16	19	26	-	-	-	-	-	-	-	-	-	-	
St. Clair	4,600	441 95.9	172 37.4	92 80	-	-	-	-	171	1	5	8	17	47 10.2	-	-	13	18	21	30	-	-	-	-	-	-	-	-	-	-	
Balance of County	54,000	272 5.0	867 16.1	454 413	-	2	16	-	855	9	20	58	21	289 5.4	-	-	7	11	13	18	-	-	-	-	-	-	-	-	-	-	
ST. JOSEPH	42,400	1,117 26.3	1,019 24.0	564 455	-	1	32	-	1,008	11	30	70	10	485 11.4	-	-	10	18	20	22	-	-	-	-	-	-	-	-	-	-	-
Sturgis	8,900	582 65.4	185 20.8	96 89	-	4	4	-	185	-	6	7	3	160 18.0	-	-	2	2	3	5	-	-	-	-	-	-	-	-	-	-	-
Three Rivers	7,100	526 74.1	161 22.7	93 68	-	4	1	2	159	2	5	11	1	155 21.8	-	-	1	2	2	2	-	-	-	-	-	-	-	-	-	-	
Balance of County	26,400	9 0.3	673 25.5	375 298	-	26	-	-	664	9	19	52	6	170 6.4	-	-	7	14	15	15	-	-	-	-	-	-	-	-	-	-	
SAMTLAC	32,500	668 20.6	715 22.0	377 338	-	1	8	-	702	13	15	41	19	318 9.8	-	-	7	7	7	13	-	-	-	-	-	-	-	-	-	-	
SCHOJOCRAFT	9,000	311 34.6	230 25.6	118 112	-	-	-	-	230	-	7	10	1	111 12.3	-	-	1	3	4	6	-	-	-	-	-	-	-	-	-	-	
Benitiquette	4,900	311 63.5	167 34.1	86 81	-	-	-	-	167	-	5	8	1	98 20.0	-	-	2	2	3	3	-	-	-	-	-	-	-	-	-	-	
Balance of County	4,100	-	63 15.4	32 31	-	-	-	-	63	-	2	2	1	13 3.2	-	-	1	1	1	3	-	-	-	-	-	-	-	-	-	-	
SHAWANSEE	54,600	1,427 26.1	1,378 25.2	700 678	-	1	29	-	1,367	11	37	93	25	469 8.6	-	-	16	21	23	32	-	-	-	-	-	-	-	-	-	-	
Corunna	3,800	-	80 28.6	41 39	-	-	-	-	79	1	1	3	3	46 16.4	-	-	1	1	2	2	-	-	-	-	-	-	-	-	-	-	
Dresden	3,000	235 69.1	150 32.4	39 31	-	2	-	-	110	2	2	9	3	67 19.7	-	-	2	3	3	3	-	-	-	-	-	-	-	-	-	-	
Oshtemo	17,400	1,186 68.1	505 29.3	239 250	-	1	14	-	507	2	19	23	7	259 14.9	-	-	4	7	8	13	-	-	-	-	-	-	-	-	-	-	
Balance of County	31,000	6 0.2	679 21.9	341 338	-	1	13	-	671	8	15	53	15	97 3.1	-	-	9	10	10	14	-	-	-	-	-	-	-	-	-	-	
TUSCOLA	43,600	585 13.4	1,035 23.7	530 505	-	2	22	-	1,036	9	24	66	14	383 8.8	-	-	2	3	4	20	-	-	-	-	-	-	-	-	-	-	
Caro	3,500	223 63.7	79 22.6	44 35	-	-	-	-	79	-	1	7	1	45 12.9	-	-	2	3	4	4	-	-	-	-	-	-	-	-	-	-	
Vassar	2,700	1 0.4	99 36.7	48 51	-	-	-	-	98	-	4	7	1	11 4.1	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	
Balance of County	37,400	361 9.7	857 22.9	438 419	-	1	20	-	849	8	19	50	13	378 10.1	-	-	4	8	8	15	-	-	-	-	-	-	-	-	-	-	
VAN BUREN	49,000	963 19.7	1,179 24.1	617 562	-	2	9	33	1,171	7	51	73	23	438 8.9	-	-</															

TABLE 12 - LIVE BIRTHS, DEATHS, AND RATES BY OCCURRENCE AND RESIDENCE: LIVE BIRTHS BY SEX, COLOR, PLURALITY, PLACE OF DELIVERY, ATTENDANT AT BIRTH, LEGITIMACY, AND IMMATURITY BY RESIDENCE: FETAL DEATHS BY RESIDENCE: DEATHS BY COLOR, AGE GROUPS UNDER 1 YEAR, AND MATERNAL DEATHS BY RESIDENCE: POPULATION (Continued)

AREA	POPULATION ESTIMATES		LIVE BIRTHS												DEATHS														
	Jul. 1, 1961		Occurrence						Residence						Occurrence						Residence								
	Number	Rate	Number	Rate	Male	Female	Nonwhite	Other	Twins	Triplets	Plurals	Births	Hospital	Non-hospital	Physician	Other	Illegitimacy	Immature Births*	Number	Rate	Nonwhite	Other	Under 1 Day	Under 1 Week	Under 28 Days	Under 1 Year	Maternal		
WAYNE	2,656,300	72.379	27.2	59,813	22.5	30,595	29,218	14,391	129	1,639	44	59,334	468	11	3,965	5,427	986	24,696	9.3	23,983	9.0	4,253	29	735	1,095	1,195	1,538	37	
Allen Park	36,900	1	0.0	677	18.3	327	350	1	1	12	1	677	1	1	11	61	9	684	18.5	145	3.9	6	6	8	8	10	1		
Dearborn	1,110,500	4,368	39.5	3,698	33.5	1,954	1,744	1	1	91	3	3,670	7	1	77	223	36	673	6.1	986	8.9	1	28	42	51	66	1		
Detroit	1,650,900	48,132	29.2	34,461	20.9	17,501	16,960	13,106	96	853	26	34,461	405	7	3,356	3,541	647	17,304	10.5	17,645	10.7	3,940	26	457	681	748	961	28	
Ecorse	17,300	3	0.2	489	28.3	230	259	169	-	8	-	489	4	-	31	45	9	32	1.8	173	10.0	54	-	8	11	12	17	1	
Flat Rock	4,800	-	0	172	35.8	90	82	-	2	-	-	172	-	-	-	11	5	10	2.1	32	6.7	-	-	1	2	2	4	-	
Garden City	38,800	1,613	41.6	1,835	47.3	962	873	-	2	3	-	1,833	2	-	15	130	19	147	3.8	171	4.4	-	-	16	23	24	27	1	
Grosse Pointe	6,600	1,750	26.5	170	8.1	88	82	-	2	4	-	186	-	-	1	16	1	277	42.0	112	17.0	-	-	3	4	4	4	-	
Grosse Pointe, Farms	12,000	-	0	178	8.1	70	69	-	-	4	-	138	1	-	2	11	2	43	2.8	156	10.1	-	-	-	1	1	1	2	-
Grosse Pointe, Park	15,400	1	0.1	178	9.3	103	75	-	-	6	-	178	1	-	2	11	2	29	1.5	109	5.7	-	-	-	1	2	2	2	-
Grosse Pointe, Woods	19,100	562	16.9	721	37.7	391	330	135	-	21	-	715	6	-	38	71	11	290	8.7	432	13.0	41	-	16	19	20	25	6	-
Harper Woods	33,200	4,822	128.6	351	17.6	168	183	135	-	7	-	351	7	-	43	68	8	936	25.0	466	12.4	42	1	7	13	15	20	6	-
Highland Park	37,900	2	0.1	1,313	33.2	706	607	435	1	31	3	1,308	5	-	105	129	21	27	0.7	204	5.2	92	-	16	24	26	32	1	-
Inkster	37,600	1,442	26.2	1,343	24.4	702	641	1	1	39	60	1,340	3	-	24	113	26	320	5.8	299	5.4	-	-	18	15	17	26	1	-
Lincoln Park	55,000	1,892	25.4	2,172	29.2	1,118	1,054	5	5	60	3	2,167	5	-	31	154	30	397	5.3	364	4.9	-	-	19	32	33	42	-	-
Livonia	13,000	-	0	319	24.5	169	150	-	1	2	-	319	-	-	7	17	4	13	1.0	84	6.5	-	-	3	7	7	9	-	-
Livonia, Belleville Pt.	2,900	53	18.3	109	37.6	67	42	-	-	1	-	109	-	-	8	8	1	52	17.9	51	17.6	-	-	3	4	5	5	-	-
Norwood	9,000	3	0.3	354	39.3	178	176	-	-	4	-	352	2	-	12	27	3	31	3.4	103	11.4	-	-	4	11	11	16	1	-
River Rouge	18,100	285	15.7	517	28.6	260	257	174	-	20	-	513	4	-	40	57	9	59	3.3	168	9.3	45	1	2	2	3	4	1	-
River Rouge, Southgate	7,200	-	0	178	24.7	81	97	-	-	8	-	178	-	-	1	17	10	3	0.4	171	2.9	-	-	11	17	19	20	1	-
Southgate	29,200	-	0	785	26.9	386	399	-	-	2	14	784	1	-	8	57	784	22	0.8	189	4.8	-	-	9	12	12	13	1	-
Trenton	18,600	2,128	114.4	591	31.8	306	285	-	2	12	-	589	2	-	11	37	3	232	12.5	205	8.8	15	-	22	30	37	1	-	
Wayne	21,000	2,178	103.7	2,125	101.2	1,100	1,025	66	5	54	3	2,119	5	-	36	161	14	214	10.2	341	8.6	-	-	12	21	23	30	1	-
Wyandotte	39,600	2,151	54.3	1,089	27.5	540	549	2	1	24	-	1,086	2	-	28	82	10	2,317	7.1	1,325	4.1	24	-	72	104	112	156	2	-
Balance of County	325,800	400	1.2	5,256	16.1	2,686	2,570	66	3	115	3	5,242	13	1	78	366	95	268	13.3	228	12.3	-	-	7	9	10	14	1	-
WEXFORD	18,600	558	30.0	381	20.5	190	191	-	-	7	-	376	5	-	4	37	5	212	21.2	126	12.6	-	-	5	6	6	7	1	-
Cadillac	10,000	556	55.6	211	21.1	101	110	-	-	4	-	209	2	-	1	11	3	36	4.2	102	11.9	-	-	2	3	3	4	1	-
Balance of County	8,600	2	0.2	170	19.8	89	81	-	-	3	-	167	3	-	3	16	2	3	4.2	102	11.9	-	-	2	3	4	7	1	-

\*Defined by the World Health Organization for statistical purposes as all infants weighing 5 lb. 8 oz. (2,500 grams) or less.

Note: Population Estimates prepared by University of Michigan Population Studies Center.

TABLE 13 - MARRIAGES BY ORDER OF MARRIAGE AND AGE OF BRIDE AND GROOM  
MICHIGAN, 1961

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	63,320	48,404	11,553	2,766	497	100	63,320	48,896	11,515	2,393	437	79
Under 15	63	58	-	-	-	5	-	-	-	-	-	-
15 - 19	25,898	25,439	381	5	-	73	10,222	10,129	44	-	1	48
20 - 24	20,271	18,130	2,006	119	6	10	27,507	26,361	1,093	31	3	19
25 - 29	4,928	2,726	1,887	292	18	5	9,576	7,528	1,893	141	9	5
30 - 34	3,067	955	1,692	370	49	1	4,606	2,503	1,798	276	28	1
35 - 39	2,500	466	1,474	458	100	2	3,025	1,080	1,571	324	49	1
40 - 44	1,942	248	1,185	414	93	2	2,209	535	1,233	383	57	1
45 - 49	1,592	169	977	362	84	-	1,708	293	1,035	313	67	-
50 - 54	1,060	89	693	224	53	1	1,252	170	758	255	68	1
55 - 59	776	47	486	201	41	1	1,001	116	652	188	44	1
60 - 64	555	40	367	122	26	-	849	97	538	180	33	1
65 - 69	402	24	242	120	16	-	739	57	480	164	38	-
70 & over	249	8	156	74	11	-	616	23	417	135	40	1
Not stated	17	5	7	5	-	-	10	4	3	3	-	-

TABLE 14 - MARRIAGES BY RESIDENCE STATUS OF BRIDE AND GROOM  
MICHIGAN, 1961

RESIDENCE STATUS	NUMBER	PERCENT
TOTAL	63,320	100
Both bride and groom resident of State	56,411	89.1
Bride resident, groom nonresident of State	2,645	4.2
Groom resident, bride nonresident of State	678	1.1
Both bride and groom nonresident of State	3,586	5.6
Residence status of either or both not stated	-	0

TABLE 15 - MARRIAGES BY AGE OF BRIDE AND GROOM  
MICHIGAN, 1961

AGE OF GROOM	TOTAL	AGE OF BRIDE																			70 & Over	Not Stated
		Under 15	15	16	17	18	19	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69				
TOTAL	63,320	63	372	2,389	4,168	10,240	8,729	25,898	20,271	4,928	3,067	2,500	1,942	1,592	1,060	776	555	402	249	17		
Under 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
15	6	-	1	2	1	1	1	6	-	-	-	-	-	-	-	-	-	-	-	-		
16	87	2	15	35	28	7	-	85	-	-	-	-	-	-	-	-	-	-	-	-		
17	653	12	77	181	193	145	30	626	15	-	-	-	-	-	-	-	-	-	-	-		
18	3,939	18	94	625	906	1,508	531	3,664	238	12	3	2	1	-	1	-	-	-	-	-		
19	5,537	11	60	552	915	2,020	1,273	4,820	693	11	-	1	-	1	-	-	-	-	-	-		
15 - 19	10,222	43	247	1,395	2,043	3,681	1,835	9,201	946	23	3	3	1	1	1	-	-	-	-	-		
20 - 24	27,507	17	118	889	1,896	5,790	5,786	14,479	12,138	704	125	28	7	4	1	-	-	-	-	4		
25 - 29	9,576	3	5	77	186	606	869	1,743	5,276	1,855	531	122	31	10	3	-	1	-	-	1		
30 - 34	4,606	-	1	18	30	103	172	324	1,340	1,349	969	446	140	27	7	2	1	-	-	1		
35 - 39	3,025	-	1	6	6	38	52	103	388	637	750	718	300	103	18	3	4	-	-	1		
40 - 44	2,209	-	-	3	2	11	10	26	114	225	368	596	539	256	68	15	1	1	-	-		
45 - 49	1,708	-	-	-	4	8	2	14	35	88	202	336	437	403	141	43	5	4	-	-		
50 - 54	1,252	-	-	-	1	1	1	3	19	23	84	159	257	327	249	95	23	10	3	-		
55 - 59	1,001	-	-	-	-	1	-	1	9	12	23	51	142	259	253	172	62	13	4	-		
60 - 64	849	-	-	1	-	-	-	1	4	5	7	24	60	123	179	196	176	58	16	-		
65 - 69	739	-	-	-	-	1	2	3	1	7	4	13	24	60	106	164	169	152	36	-		
70 & over	616	-	-	-	-	-	-	-	1	-	1	4	4	19	34	86	113	164	190	-		
Not stated	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10		

TABLE 16 - MARRIAGES BY RACE OF BRIDE AND GROOM  
MICHIGAN, 1961

RACE OF GROOM	RACE OF BRIDE						
	Total	White	Negro	American Indian	Chinese	Japanese	Other
TOTAL	63,320	57,559	5,644	57	19	11	30
White	57,487	57,408	27	32	-	9	11
Negro	5,724	101	5,614	7	-	1	1
American Indian	41	23	2	15	-	-	1
Chinese	27	8	-	-	17	-	2
Japanese	6	5	-	-	-	1	-
Other	35	14	1	3	2	-	15

TABLE 17 - DIVORCES AND ANNULMENTS BY LEGAL GROUNDS FOR DECREE  
MICHIGAN, 1961

LEGAL GROUNDS FOR DECREE	NUMBER	PERCENT
TOTAL	16,219	100
Cruelty	14,995	92.4
Desertion	653	4.0
Nonsupport	253	1.6
Fraud	145	0.9
Drunkenness	32	0.2
Bigamy	30	0.2
Conviction of crime	19	0.1
Adultery	7	0.0
Other	25	0.2
Not stated	60	0.4

TABLE 18 - DIVORCES AND ANNULMENTS BY DURATION OF MARRIAGE  
MICHIGAN, 1961

DURATION (YEARS)	NUMBER	PERCENT
TOTAL	16,219	100
Under 1 year	240	1.5
1 - 4	4,558	28.1
5 - 9	4,433	27.3
10 - 14	2,835	17.5
15 - 19	1,831	11.3
20 - 24	1,155	7.1
25 - 29	606	3.7
30 - 34	263	1.6
35 - 39	140	0.9
40 - 44	76	0.5
45 - 49	31	0.2
50 & over	7	0.0
Not stated	44	0.3

TABLE 19 - DIVORCES BY CASES CONTESTED, LIBELLANT, NUMBER OF CHILDREN: ANNULMENTS: BY COUNTY OF DECREE  
MICHIGAN, 1961

AREA	Divorces & Annulments	Annulments	D I V O R C E S											
			Total	Cases Contested	Granted to -		Children							Not Stated
					Husband	Wife	0	1	2	3	4	5 or More		
STATE	16,219	215	16,004	3,737	3,908	12,014	6,871	3,517	2,824	1,588	723	481	-	
Alcona	8	-	8	1	2	6	5	1	2	-	-	-	-	
Alger	10	-	10	1	2	8	4	2	-	2	1	1	-	
Allegan	74	-	74	39	19	55	31	16	13	8	4	2	-	
Alpena	45	1	44	12	9	34	15	5	8	7	6	3	-	
Antrim	12	-	12	2	1	11	5	1	2	2	1	1	-	
Arenac	10	-	10	2	4	6	7	1	2	-	-	-	-	
Baraga	8	-	8	2	1	7	2	2	2	-	2	-	-	
Barry	62	1	61	14	11	48	25	11	10	8	4	3	-	
Bay	176	-	176	20	42	133	69	33	32	24	11	7	-	
Benzie	14	-	14	2	1	13	6	1	4	3	-	-	-	
Berrien	377	4	373	24	101	270	166	79	72	36	12	8	-	
Branch	53	1	52	17	10	42	11	10	15	9	5	2	-	
Calhoun	418	2	416	118	102	314	176	92	84	39	15	10	-	
Cass	66	-	66	10	16	50	27	13	14	8	3	1	-	
Charlevoix	22	-	22	14	9	13	9	5	2	1	3	2	-	
Cheboygan	20	1	19	5	8	11	4	6	3	3	2	1	-	
Chippewa	45	-	45	2	16	29	14	11	14	6	-	-	-	
Clare	19	-	19	2	4	15	10	3	3	2	1	-	-	
Clinton	44	-	44	12	15	29	17	9	9	5	4	-	-	
Crawford	6	-	6	-	1	5	1	2	-	1	1	1	-	
Delta	35	-	35	1	8	27	16	8	4	4	3	-	-	
Dickinson	22	-	22	3	2	20	6	8	4	1	1	2	-	
Eaton	103	-	103	28	35	68	40	26	19	9	7	2	-	
Emmet	29	-	29	3	2	25	8	9	3	4	5	-	-	
Genesee	1,094	18	1,076	265	309	767	444	232	176	120	69	35	-	
Gladwin	21	-	21	6	6	15	6	5	7	2	1	-	-	
Gogebic	22	1	21	4	3	18	7	7	2	5	-	-	-	
Grand Traverse	50	1	49	8	14	34	17	14	9	3	4	2	-	
Gratiot	57	-	57	-	19	35	17	17	11	8	1	3	-	
Hillsdale	60	1	59	2	13	45	20	8	18	9	3	1	-	
Houghton	20	-	20	4	3	17	5	4	5	6	-	-	-	
Huron	26	1	25	9	8	17	6	9	4	4	2	-	-	
Ingham	635	5	630	102	137	492	262	155	123	46	29	15	-	
Ionia	80	-	80	-	19	61	36	18	12	7	5	2	-	
Iosco	35	-	35	6	15	20	17	8	3	4	3	-	-	
Iron	12	-	12	1	4	8	6	1	2	2	1	-	-	
Isabella	61	1	60	-	7	53	19	10	10	14	5	2	-	
Jackson	435	5	430	4	97	327	182	96	69	39	24	20	-	
Kalamazoo	473	7	466	3	123	343	174	113	94	47	23	15	-	
Kalkaska	7	-	7	2	2	5	3	-	2	1	-	1	-	
Kent	594	13	581	184	102	477	202	130	131	65	29	24	-	
Keweenaw	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lake	10	-	10	2	5	5	7	1	1	1	-	-	-	
Lapeer	89	-	89	25	12	77	27	25	20	9	5	3	-	
Leelanau	11	-	11	-	5	6	5	3	2	1	-	-	-	
Lenawee	158	-	158	50	38	120	65	35	36	11	9	2	-	
Livingston	76	1	75	-	21	53	24	20	15	7	4	5	-	
Luce	9	-	9	-	3	6	2	2	3	1	1	-	-	
Mackinac	20	-	20	2	1	19	12	5	2	1	-	-	-	
Macomb	849	12	837	65	192	645	325	197	154	91	40	30	-	
Manistee	34	-	34	9	6	27	8	4	8	4	8	2	-	
Marquette	71	-	71	3	15	56	21	18	13	9	5	5	-	
Mason	38	1	37	4	9	28	15	8	7	3	2	2	-	
Mecosta	37	-	37	4	13	24	13	9	7	4	1	3	-	
Menominee	24	-	24	14	7	17	6	3	5	7	-	3	-	
Midland	87	1	86	24	13	70	20	16	25	16	6	3	-	
Missaukee	3	-	3	2	1	2	1	1	1	-	-	-	-	
Monroe	111	2	109	26	26	82	44	27	22	6	7	3	-	
Montcalm	71	-	71	15	20	50	27	15	13	12	4	-	-	
Montmorency	8	1	7	-	-	7	3	3	1	-	-	-	-	
Muskegon	343	6	337	8	96	240	143	64	51	38	26	15	-	
Newaygo	35	-	35	-	9	25	14	8	5	3	2	3	-	
Oakland	1,505	18	1,487	281	309	1,175	555	350	286	176	67	53	-	
Oceana	35	1	34	13	11	21	16	7	6	3	1	1	-	
Ogemaw	7	-	7	2	1	6	6	-	1	-	-	-	-	
Ontonagon	21	-	21	4	7	14	10	4	2	1	3	1	-	
Osceola	18	-	18	1	4	13	6	6	1	3	2	-	-	
Oscoda	3	-	3	2	-	3	-	-	1	2	-	-	-	
Otsego	8	-	8	2	1	7	2	3	-	1	1	1	-	
Ottawa	101	-	101	6	22	79	37	13	26	11	7	7	-	
Presque Isle	16	-	16	2	5	11	8	2	3	2	-	1	-	
Roscommon	22	-	22	-	5	17	13	-	4	3	1	1	-	
Saginaw	325	4	321	27	84	235	127	65	56	32	25	16	-	
St. Clair	247	10	237	28	66	169	102	45	47	24	8	11	-	
St. Joseph	68	-	68	17	14	54	31	11	9	11	4	2	-	
Sanilac	22	-	22	6	4	18	9	6	2	3	1	1	-	
Schoolcraft	10	-	10	-	4	6	3	5	1	-	-	1	-	
Shiawassee	100	2	98	42	24	73	49	15	15	11	6	2	-	
Tuscola	41	-	41	4	12	28	13	11	6	4	2	5	-	
Van Buren	94	-	94	-	22	71	34	23	12	15	7	3	-	
Washtenaw	390	2	388	21	75	306	150	81	86	42	18	11	-	
Wayne	5,701	91	5,610	2,088	1,438	4,141	2,806	1,215	864	450	159	116	-	
Wexford	41	-	41	4	6	35	15	10	6	6	1	3	-	