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1972 MICHIGAN HEALTH STATISTICS

Michigan Department of Public Health 

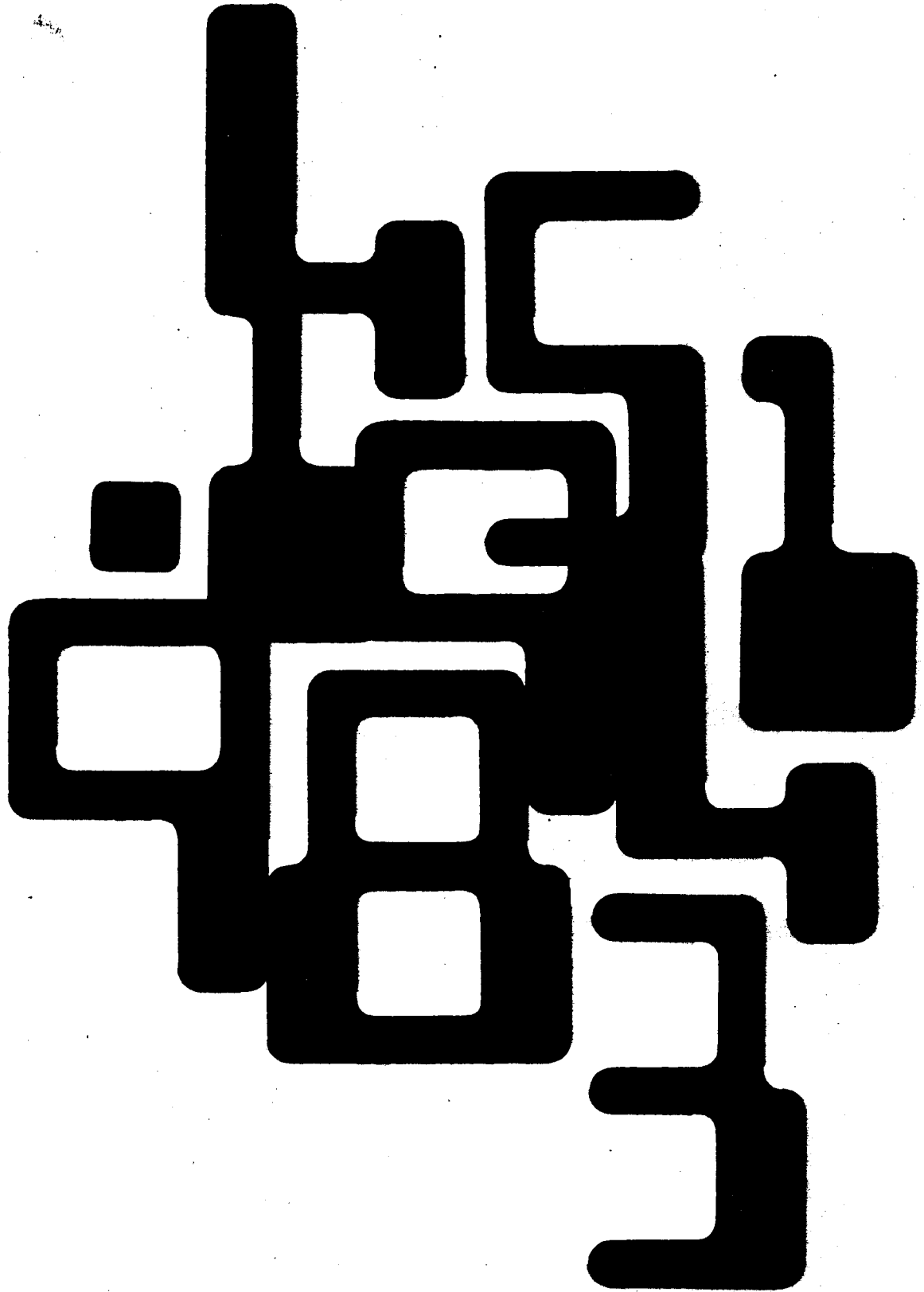


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Introduction

The 1972 Edition of Michigan Health Statistics is a statistical summary of vital events for calendar year 1972. Data relative to population, births, deaths, fetal deaths, marriages, divorces and communicable diseases are included. Although most of the data in this report pertain to events occurring in 1972, some data for prior years have been included to illustrate trends. Most of the tabulations refer to Michigan residents. Some events, however, such as marriages and divorces are tabulated relating to where the event occurred rather than the residence status of the party or parties involved. Divorces which occurred in Wayne County April-December 1972 had not been reported when this report was prepared and thus are not included in this report.

As a certain number of Michigan residents either deliver babies or die out of state each year, it is necessary to include data obtained from the certificates of other states in any residence tabulations pertaining to Michigan residents. This report includes all such out-of-state certificates received prior to June 1, 1973 and all in-state certificates and records received prior to April 1, 1973. Although a few records for calendar year 1972 were received after these filing dates, their exclusion from this report is statistically insignificant.

The 1970 edition of Michigan Health Statistics contained a complete section devoted to population characteristics. Similar data are not available for 1972 and thus the 1972 edition of Michigan Health Statistics does not have a section on population. The reader is referred to the 1970 edition for detailed population characteristics and to the reference appendix of this edition for county and state population estimates.

The report is composed of the following sections and appendices:

1. Natality Section,
2. Mortality Section,
3. Marriage and Divorce Section,
4. Reference Appendix

Any comments or suggestions concerning the content and format of this report are always welcome. Any additional needs for data or analyses may be directed to the Office of Planning and Evaluation. The Office will make every attempt to comply with such requests within the limitation of staff and resources.

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Technical Notes, Definitions, Rates and Ratios

TOTAL BIRTHS—Live Births and Fetal Deaths

LIVE BIRTH—A live birth is the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy, which, after such separation, breathes or shows any other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles.

FETAL DEATH—Death prior to the complete expulsion or extraction from its mother of a product of conception, having passed through at least the 20th week of gestation; the fetus shows no signs of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles.

RESIDENCE—Usual place of residence for person to whom event occurred. For births and fetal deaths residence is defined as the mother's usual place of residence.

OCCURRENCE—Place where the event actually occurred.

MINOR CIVIL DIVISION—City, Village or Township

RACE—Race for mother, father, or descendant is as stated on certificate. Race of child is determined from the race of the parents.

GESTATIONAL PERIOD—Number of weeks elapsed between the first day of the last menstrual period and date of delivery.

BIRTH WEIGHT—Weight of fetus or infant at time of delivery (normally recorded in pounds and ounces).

LOW-WEIGHT BIRTH—Birth wherein the birth weight is equivalent to 2,500 grams or less (approximately 5 lbs., 8 oz.).

ILLEGITIMATE BIRTH—Birth wherein there is no marital tie between mother and father.

LIVE-BIRTH ORDER—Order number is equal to number of previous live births plus current birth.

INFANT DEATH—Death occurring to individual of less than 1 year of age.

NEONATAL DEATH—Death occurring to individual less than 28 days of age.

PERINATAL DEATH—Fetal death or a death under 1 week of age.

UNDERLYING CAUSE OF DEATH—That condition giving rise to the chain of events leading to death.

RELATED CAUSE OF DEATH—Condition other than the underlying cause of death which may have contributed to the death or was a noncontributory significant condition.

MATERNAL DEATHS—Those deaths wherein the physician has designated a maternal condition as the underlying cause of death.

CRUDE BIRTH RATE = No. of Resident Live Births divided by Total Resident Population \times 1,000

CRUDE DEATH RATE = No. of Resident Deaths divided by Total Resident Population \times 1,000

AGE-SPECIFIC BIRTH RATE = No. of Resident Live Births for a Specific Age of Mother divided by Total Female Population of Specific Age \times 1,000

FERTILITY RATE = No. of Resident Live Births divided by Total Female Population (15-44) \times 1,000

FETAL DEATH RATE = No. of Resident Fetal Deaths divided by Total Resident Live Births and Resident Fetal Deaths \times 1,000

FETAL DEATH RATIO = No. of Resident Fetal Deaths divided by Total Resident Live Births \times 1,000

ILLEGITIMACY RATIO = No. of Resident Illegitimate Births divided by Total Resident Live Births \times 1,000

LOW-WEIGHT BIRTH RATIO = No. of Low-Weight Births divided by Total Resident Live Births \times 1,000

INFANT DEATH RATE = No. of Infant Deaths divided by Total Resident Live Births \times 1,000

NEONATAL DEATH RATE = No. of Neonatal deaths divided by Total Resident Live Births \times 1,000

PERINATAL DEATH RATE = No. of Perinatal Deaths divided by Total Resident Live Births and Resident Fetal Deaths \times 1,000

MATERNAL DEATH RATE = No. of Maternal Deaths divided by Total Resident Live Births \times 10,000

AGE-SPECIFIC DEATH RATE = No. of Deaths in Specific Age Group divided by Total Resident Population in Specific Age Group \times 100,000

AGE-ADJUSTED DEATH RATE = Σ (Age-Specific Death Rates \times Proportion of Standard Population in Specific Age Group)

MARRIAGE RATE = No. of Persons Married divided by Total Resident Population \times 1,000

DIVORCE RATE = No. of Persons (Divorces and Annulments) divided by Total Resident Population \times 1,000

COMMUNICABLE DISEASE CASE RATE = No. of Reported Cases (Specific Communicable Disease) divided by Total Resident Population \times 100,000

SEX RATIO = No. of Males divided by No. of Females \times 100

RATES—Care should be taken in drawing specific inferences from comparisons of rates for different areas or different periods of time. Rates based on a small number of events or for a small area tend to exhibit considerable variation from time period to

time period or place to place. Excessive variation in rates not only negates their utility as estimators of the probability of an event occurring but also their usefulness for comparative purposes. Also, one should recognize the limitations of using unadjusted rates in attempting to attribute rate differences to particular factors. For example, one should not attempt to state that there was a significant difference in rates for two geographic areas for arteriosclerosis without first adjusting the rates to negate the effects of differing age distributions in the two areas.

Many times there are simply not sufficient data available to adequately adjust rates for all possible compounding factors. For this reason, the reader should exercise diligence and caution while attempting to draw substantive conclusions when comparing vital statistics rates.

Qualifications and Limitations of Data and Calculations

UNDERREGISTRATION OF EVENTS

The underregistration of vital events in Michigan is considered to be a minimal problem particularly for births and deaths. Tests of registration completeness conducted in conjunction with the 1950 Census indicate that the registration of births was 98.5 percent complete, and that death registration was even more complete. The number of certificates received too late for inclusion in annual statistical files is insignificant when examining statewide patterns.

GEOGRAPHIC ALLOCATION

The allocation of events on a residence or occurrence basis is for the most part accurate and complete. However, allocations to minor civil divisions are subject to question in some instances. In those cases where the respondent completes the residence item with a mailing address, geographic allocation is sometimes undeterminable and the record receives an unknown minor civil division code.

FETAL DEATHS

Fetal deaths in Michigan include only those conceptions that have passed through 20 weeks gestation. Inadequacies in determining the gestational age of the fetus may account for some underreporting of fetal deaths.

COMPARABILITY IN CAUSE OF DEATH STATISTICS

The reader should bear in mind two major limitations in interpreting changes in cause-of-death statistics. Changes in nomenclature and the classification scheme (International Classification of Diseases) and changes in diagnostic practices may seriously affect the comparability of such statistics over time. The classification scheme (ICD) is modified approximately once every ten years to reflect changing medical opinion and practice. The reader is most accurate when comparing cause-of-death certificates which are coded via one revision of the International Classification of Diseases and utilizing the coding practices and procedures in effect at that time.

In order to compare cause-of-death statistics from one revision to the next it is necessary to apply a 'comparability ratio'. Such ratios are developed by comparing the number of deaths assigned to a certain condition or group of conditions under one revision to the number assigned under another revision of the ICD.

SECTION I NATALITY

Natality

An Overview 1972

TOTAL BIRTHS	148,625
TOTAL RESIDENT LIVE BIRTHS	146,854
TOTAL RESIDENT FETAL DEATHS	1,770
CRUDE BIRTH RATE	16.3
FETAL DEATH RATIO	12.1
FERTILITY RATE	76.5
ILLEGITIMACY RATIO—LIVE BIRTHS	133.0
ILLEGITIMACY RATIO—FETAL DEATHS	250.8
FIRST ORDER BIRTHS (PERCENT OF TOTAL LIVE BIRTHS)	39.1
NO PRENATAL CARE RATIO	12.2
NONWHITE BIRTHS (PERCENT OF TOTAL LIVE BIRTHS)	18.4
MEDIAN AGE OF MOTHER (LIVE BIRTHS)	24
MEDIAN AGE OF MOTHER (FETAL DEATHS)	24

Between 1900 and 1972, the number of total births occurring each year varied considerably. This pattern has not been totally consistent for the two component parts (live births and fetal deaths) of deliveries. The smallest number of live births recorded this century was 43,221. This occurred in 1901. The greatest number was 208,488 recorded in 1957. The smallest number of fetal deaths was 1,325 (recorded in 1900) and the greatest number was 3,834 (recorded in 1927). Figures 1.1 and 1.2 portray the changes that have taken place in the number of live births and fetal deaths recorded each year since 1900.

Another view of the changing pattern in the total births may be obtained through the examination of changes in the crude birth rate and the fetal death ratio. The crude birth rate has ranged from a low of 16.2 in 1933 to a high of 27.4 in 1956. The fetal death ratio has ranged from a low of 11.9 in 1971 to a high of 43.5 in 1905.

TABLE 1.1—Live Births and Crude Birth Rates, Michigan and United States Residents, Selected Years, 1900-1972

UNITED STATES		YEAR	MICHIGAN	
LIVE BIRTHS	RATE		LIVE BIRTHS	RATE
N/A	N/A	1900	43,699	18.1
2,777,000	30.1	1910	64,109	22.8
2,950,000	27.7	1920	92,245	25.1
2,618,000	21.3	1930	92,882	20.4
2,559,000	19.4	1940	99,106	18.9
3,632,000	24.1	1950	160,055	25.1
4,257,850	23.7	1960	195,056	24.9
4,268,326	23.3	1961	192,825	24.4
4,167,362	22.4	1962	182,790	23.0
4,098,020	21.7	1963	178,871	22.3
4,027,490	21.0	1964	175,103	21.6
3,760,358	19.4	1965	166,464	20.3
3,606,274	18.4	1966	165,794	19.9
3,520,959	17.8	1967	162,756	18.9
3,501,564	17.5	1968	159,058	18.3
3,571,000 Pr.	17.7 Pr.	1969	165,760	19.0
3,718,000 Pr.	18.2 Pr.	1970	171,667	19.3
3,559,000 Pt.	17.3 Pr.	1971	162,244	18.0
3,256,000	15.6	1972	146,854	16.3

Figure 1.3 is a graphic portrayal of trends in resident live birth rates and fetal death ratios for Michigan since 1900. As can be observed quite clearly from the graph, birth rates have shown considerable fluctuation whereas fetal death ratios have declined more or less steadily from the very high levels of the late 1920's.

Crude birth rates rose steadily during the period from 1900-1920. This period was also marked by a significant growth of heavy industry in the state. During the 1920's, however, the crude birth rate started to decline, finally troughing out during the early mid-1930's. As Michigan's economic viability returned during the late 1930's and early 1940's, the crude birth rate once again increased. Significant increases were observed in the years immediately following World War II and the rate finally reached an all time high in 1956. Since that time, the rate has declined rather steadily with a slight upward trend noted in 1969 and 1970, and a downward turn noted for 1971 and 1972.

From 1900 through 1940, Michigan's crude birth rate lagged behind that of the United States as a whole. By 1950 Michigan's crude birth rate exceeded that of the Nation and continues to do so (Table 1.1).

FIGURE 1.1—Live Births, Michigan Residents, 1900-1972

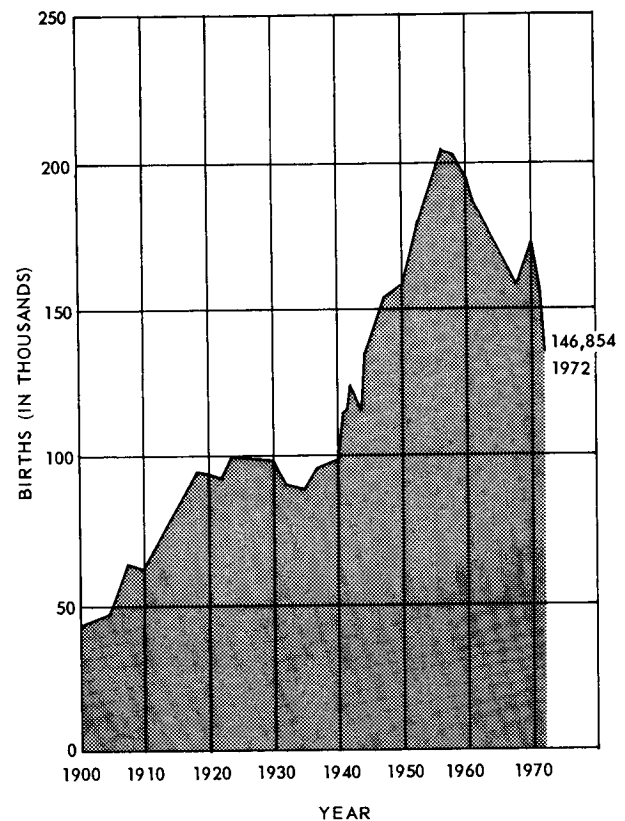


FIGURE 1.2—Fetal Deaths, Michigan Residents, 1900-1972

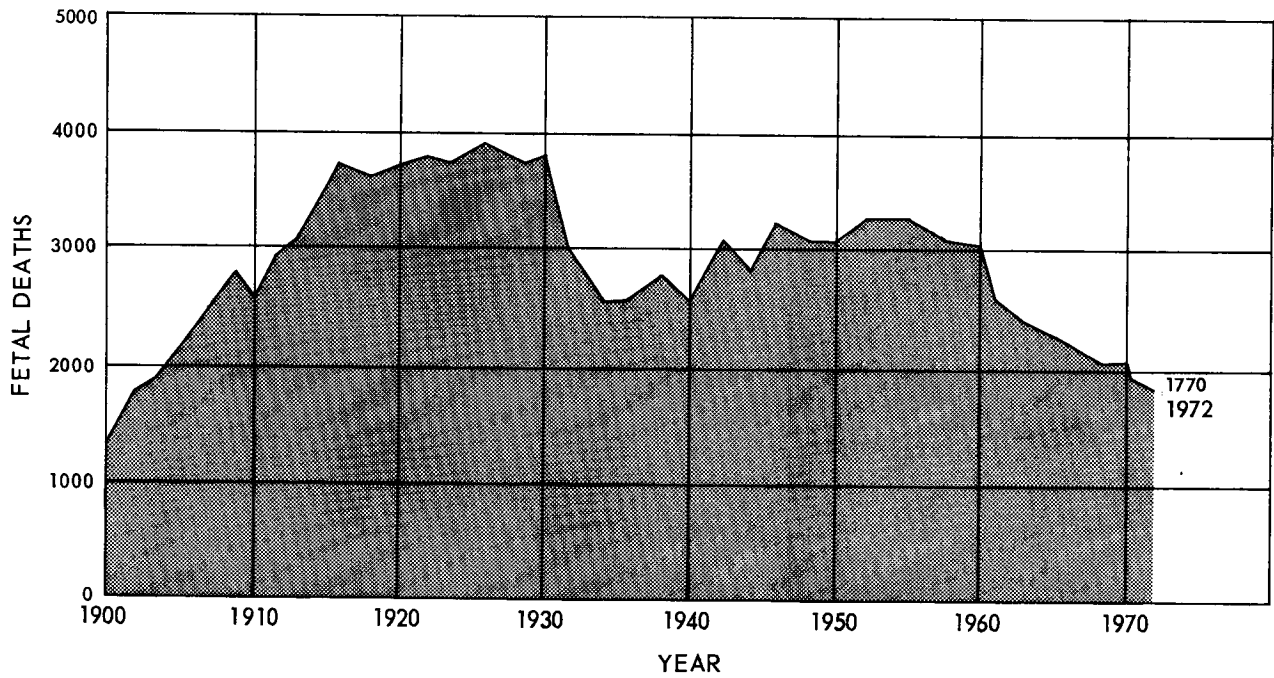
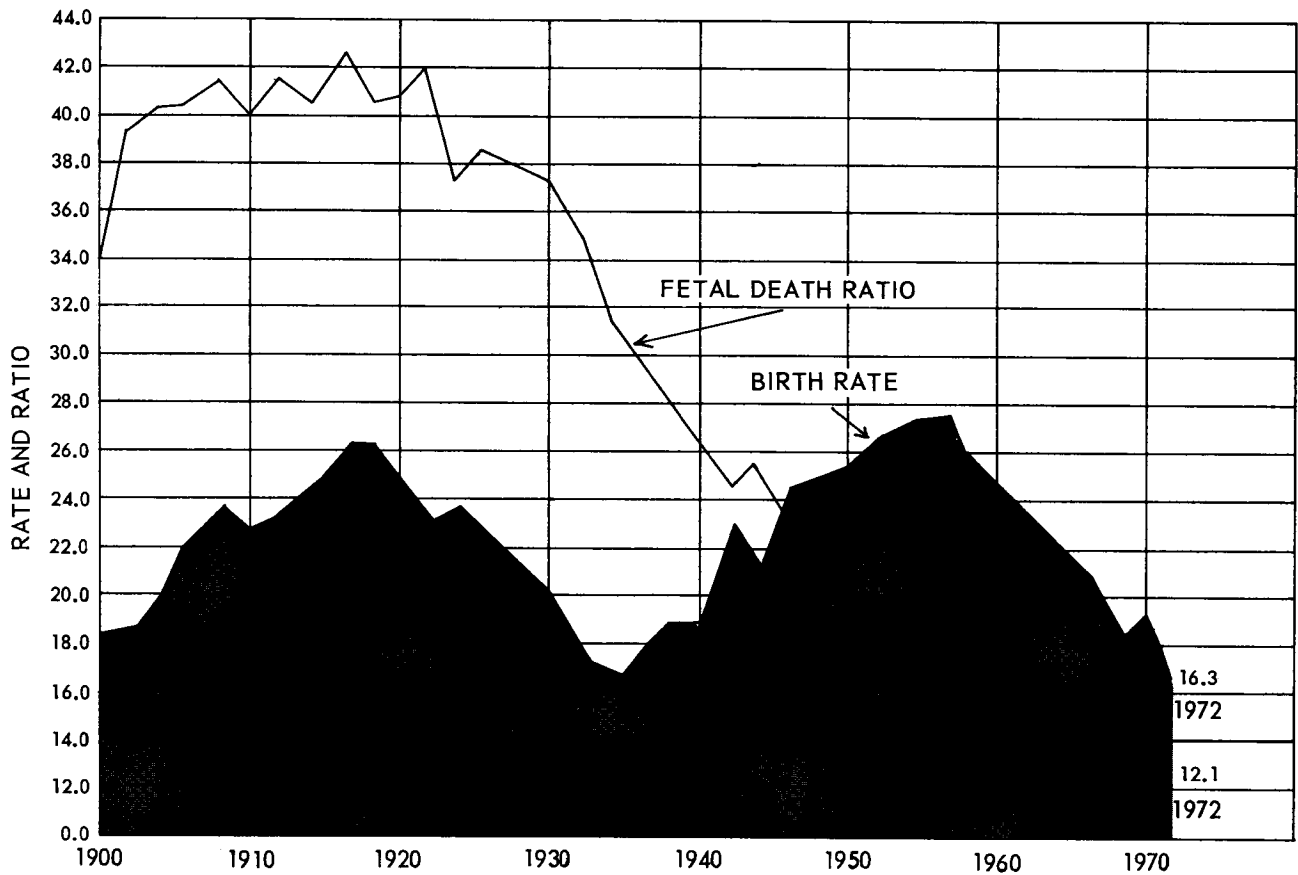


FIGURE 1.3—Live Birth Rate and Fetal Death Ratio, Michigan Residents, 1900-1972



FERTILITY

It is impossible to determine from the crude birth rate whether changes are occurring as a result of a changing population structure or from other factors. Changes in the number of women in the prime child-bearing ages may have a significant impact upon the crude birth rate, thus presenting a somewhat distorted picture of fecundity for a given period of time or a given geographical area. A measure for analyzing changing birth patterns that is more precise than the crude birth rate is the fertility rate. Since the fertility rate relates the number of live births to the female population of childbearing age, more valid comparisons for various periods of time and various locations can be made.

A comparison of fertility rates for Michigan and the United States for selected years is presented in Table 1.2.

RACIAL COMPOSITION OF RESIDENT MICHIGAN BIRTHS

During the period from 1962 to 1972 the racial composition of births in Michigan was also changing. As can be seen from Table 1.3, the number of nonwhite births increased by 33.8 percent from 20,236 in 1962 to 27,066 in 1972. In addition to the fact that nonwhite births were increasing in absolute terms, an inspection of Table 1.3 indicates that in 1962 nonwhite births accounted for 11.1 percent of all births to Michigan residents. In 1972, 18.4 percent of all births were recorded as nonwhite.

AGE OF MOTHER

In 1972, 56.3 percent of the live births were to mothers age 24 or less. Only 1.1 percent occurred to women 40 or more years of age. The median age of

TABLE 1.2—Fertility Rates, Michigan and the United States, Selected Years, 1900-1972

FERTILITY RATE UNITED STATES	YEAR	FERTILITY RATE MICHIGAN
N/A	1900	78.5
126.8	1910	99.0
117.9	1920	111.6
89.2	1930	87.6
79.9	1940	78.9
106.2	1950	110.5
118.0	1960	123.1
87.6	1970	91.7
81.9	1971	84.7
73.4	1972	76.5

TABLE 1.4—Total Live Births and Percent Distribution by Age of Mother and Race of Child, Michigan Residents, 1972

AGE OF MOTHER	TOTAL		RACE OF CHILD			
			WHITE		NONWHITE	
	No.	%	No.	%	No.	%
Under 15 Years.....	503	0.3	164	0.1	339	1.3
15-19 Years.....	28,108	19.1	19,718	16.5	8,390	31.0
20-24 Years.....	54,199	36.9	44,798	37.4	9,401	34.7
25-29 Years.....	40,442	27.5	35,239	29.4	5,203	19.2
30-39 Years.....	21,938	14.9	18,533	15.5	3,405	12.6
40 and Over Years.....	1,650	1.1	1,328	1.1	322	1.2
Not Stated.....	14	0.0	8	0.0	6	0.0
Total.....	146,854	99.8	119,788	100.0	27,066	100.0
Median Age of Mother....	24		24		22	

the mothers was 24 years. Mothers of nonwhite infants were younger (median 22 years) than mothers of white babies. Sixty-seven percent of the nonwhite babies were born to mothers age 24 or less, whereas only 54 percent of white babies were born to mothers 24 years of age or less. The difference is primarily the result of the large percentage of nonwhite births to mothers age 15-19 (Table 1.4).

ILLEGITIMATE LIVE BIRTHS

In 1900, illegitimate live births for Michigan resi-

TABLE 1.3—Live Births by Race, Michigan Residents, 1962-1972

YEAR	TOTAL BIRTHS		WHITE BIRTHS		NON-WHITE BIRTHS	
	Number	% of all Births	Number	% of all Births	Number	% of all Births
1962.....	182,790	100.0	162,554	88.9	20,236	11.1
1963.....	178,871	100.0	158,914	88.8	19,957	11.2
1964.....	175,103	100.0	154,790	88.4	20,313	11.6
1965.....	166,464	100.0	145,784	87.6	20,680	12.4
1966.....	165,794	100.0	143,876	86.8	21,918	13.2
1967.....	162,756	100.0	139,721	85.8	23,035	14.2
1968.....	159,058	100.0	135,436	85.1	23,622	14.9
1969.....	165,760	100.0	140,222	84.6	25,538	15.4
1970.....	171,667	100.0	143,871	83.8	27,796	16.2
1971.....	162,244	100.0	134,165	82.7	28,079	17.3
1972.....	146,854	100.0	119,788	81.6	27,066	18.4

TABLE 1.5—Illegitimate Live Births and Ratio by Age of Mother and Race of Child, Michigan Residents, 1972

AGE OF MOTHER	TOTAL		RACE OF CHILD			
			WHITE		NONWHITE	
	No.	Ratio	No.	Ratio	No.	Ratio
Under 15 Years.....	458	910.5	125	762.2	333	982.3
15-19 Years.....	10,434	371.2	4,377	222.0	6,057	721.9
20-24 Years.....	5,714	105.4	2,304	51.4	3,410	362.7
25-29 Years.....	1,780	44.0	696	19.8	1,084	208.3
30-39 Years.....	1,027	46.8	419	22.6	608	178.6
40 and Over Years.....	105	63.6	51	38.4	54	167.7
Not Stated.....	8	*	4	*	4	*
Total.....	19,526	133.0	7,976	66.6	11,550	426.7
Median Age of Mother....	19		19		19	

* Ratios not computed.

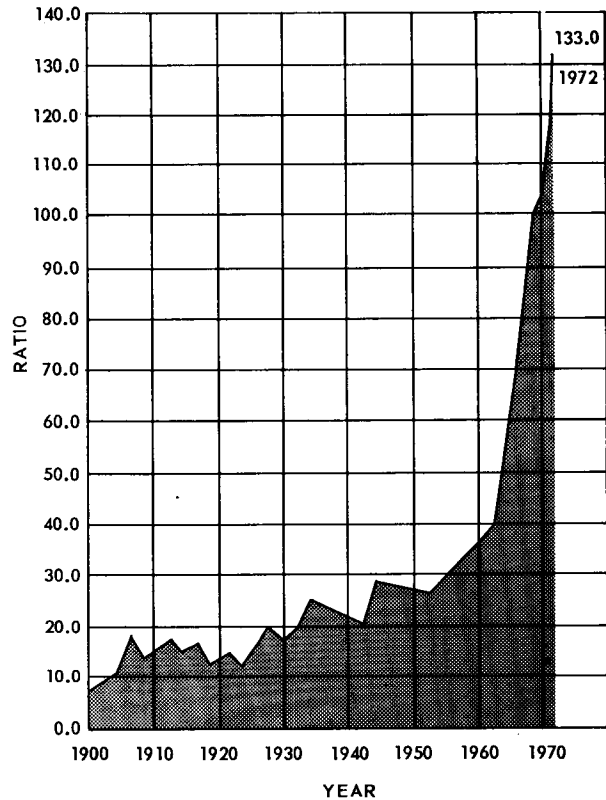
dents numbered 332 (an illegitimacy ratio of 7.6). By 1906 that ratio had more than doubled to 18.6. Then for more than 20 years the ratio fluctuated between 12.3 and 19.9 and it was not until 1933 that the ratio became greater than 20.0. By 1960 the ratio had reached 36.9. Between 1962 and 1972 the illegitimacy ratio increased from 43.8 to 133.0, an increase of 203.7 percent (Figure 1.4).

Mothers of illegitimate children tend to be somewhat younger than the mothers of legitimate children (Table 1.5). The median age of mothers having illegitimate births is 19 compared to a median age of 24 for all live births. The median age for nonwhite mothers who have illegitimate births is 19 compared to an overall nonwhite median age of 22.

Nonwhite mothers account for approximately 58 percent of all illegitimate births and it can be observed (Table 1.5) that young nonwhite mothers, in particular, have a greater proportion of illegitimate births.

Similar increases in illegitimacy ratios have been noted nationwide. Table 1.7 contains a comparison of illegitimate birth ratios for Michigan and the United States for the period 1962-1972.

FIGURE 1.4—Illegitimate Birth Ratio, Michigan Residents, 1900-1972



BIRTH WEIGHT

The mean weight for all live births is 3,302 grams or approximately 7 lbs., 4 oz. The median weight is 3,329 grams or approximately 7 lbs., 5 oz. (Table 1.8). As was alluded to previously, birth weights among illegitimates are slightly lower. The median and mean birth weights for illegitimate births are

TABLE 1.6—Illegitimate Births by Selected Characteristics, Michigan Residents, 1972

SELECTED CHARACTERISTICS	TOTAL		ILLEGITIMATE		LEGITIMATE	
	LIVE BIRTHS	% OF TOTAL	LIVE BIRTHS	% OF ILLEGITIMATE	LIVE BIRTHS	% OF LEGITIMATE
Low-Weight Birth (2500 grams or less)	11,405	7.8	2,675	13.7	8,730	6.9
Mother's Age <20 Years	28,611	19.5	10,892	55.8	17,719	13.9
Mother's Education—8th Grade or <	5,233	3.6	1,265	6.5	3,968	3.1
Complications of Labor	19,545	13.3	2,813	14.4	16,732	13.1
Complications Related to Pregnancy	11,975	8.2	1,912	9.8	10,063	7.9
Complications Not Related to Pregnancy	3,494	2.4	779	4.0	2,715	2.1
Total Live Births	146,854		19,526		127,328	

respectively 3,149 grams (approximately 6 lbs., 15 oz.) and 3,083 grams (6 lbs., 12 oz.).

A subgroup of major importance when analyzing birth weight trends is the infant weighing 2,500 grams or less (approximately 5 lbs., 8 oz. or less) at birth. For a considerable length of time this was the criterion for defining a 'premature' infant. In recent years a broader definition which includes a consideration of the gestational period has come into use and births 2,500 grams or less are now called low weight births.

The incidence of low weight births appears to be most significant among the young, the older, and the nonwhite mothers (Table 1.9).

BIRTH ORDER

As can be observed from Table 1.10, the relative distribution of Michigan resident live births by live birth order is changing considerably. In addition to the increase noted for first-order births a slight increase is also evident for second-order births. Decreases are evident for third-order, fourth-order and fifth-order or greater births. The largest decline, relatively speaking, occurred among fifth-order or greater births (a decrease from 21.1 percent in 1962 to 8.3 percent on 1972).

The relative increase in first-order births is not unique to Michigan. As can be observed from Table 1.11 the percentage of first-order births is increasing nationwide. Also the relative proportion of first order births is higher for the United States as a whole (37.5 percent in 1968) than is the case for Michigan residents (32.8 percent in 1968).

As can be observed from Table 1.12, the frequency of higher-order births increases with the age of mother. The median age of mother among first-order births is 21, compared to a median age of 33 among fifth-order or greater births. The median age of all mothers is 24.

PRENATAL CARE

In 1972, 1,789 resident live births (1.2 percent) occurred without the mother having had any prenatal care. These cases include only those where *no* prenatal care was specified. Those mothers who received no prenatal care are for the most part younger (median age of 22) mothers. Also the lack of prenatal care is disproportionately high among nonwhites. The relative percentage of nonwhites receiving no prenatal care is four times as large as among whites (Table 1.13).

FETAL DEATHS

In 1972 there were 1,770 resident Michigan fetal deaths. This is the lowest resident fetal death figure recorded since 1905. The 1972 crude fetal death ratio for Michigan was 12.1 (Table 1.14).

TABLE 1.7—Illegitimate Live Births and Illegitimacy Ratios, Michigan and United States residents, 1962-1972

UNITED STATES		YEAR	MICHIGAN	
NO. OF ILLEGITIMATE BIRTHS	RATIO		NO. OF ILLEGITIMATE BIRTHS	RATIO
245,100	58.8	1962	7,998	43.8
259,400	63.3	1963	8,769	49.0
275,700	68.5	1964	9,724	55.5
291,200	77.4	1965	10,888	65.4
302,400	83.9	1966	12,299	74.2
318,100	90.3	1967	13,403	82.4
339,200	96.9	1968	14,451	90.9
N/A	N/A	1969	16,329	98.5
N/A	N/A	1970	18,712	109.0
N/A	N/A	1971	19,098	117.7
N/A	N/A	1972	19,526	133.0

TABLE 1.8—Birth Weight by Legitimacy Status, Michigan Residents, 1972

WEIGHT AT BIRTH	LEGITIMACY STATUS		
	TOTAL	LEGITIMATE	ILLEGITIMATE
500 Grams or Less.....	226	170	56
501-1000 Grams.....	732	524	208
1001-1500 Grams.....	955	683	272
1501-2000 Grams.....	2,274	1,748	526
2001-2500 Grams.....	7,218	5,605	1,613
2501-3000 Grams.....	26,000	21,103	4,897
3001-3500 Grams.....	54,695	47,402	7,293
3501-4000 Grams.....	40,205	36,500	3,705
4001-4500 Grams.....	11,919	11,117	802
4501 and Over.....	2,466	2,350	116
Not Stated.....	164	126	38
TOTAL.....	146,854	127,328	19,526
Mean Weight.....	3,302	3,336	3,083
Median Weight.....	3,329	3,357	3,149

TABLE 1.9—Low Weight Live Births and Rates by Age of Mother and Race of Child, Michigan Residents, 1972

AGE OF MOTHER	TOTAL		RACE OF CHILD			
			WHITE		NONWHITE	
	NO.	RATE	NO.	RATE	NO.	RATE
Under 15 Years.....	86	171.0	25	152.4	61	179.9
15-19 Years.....	2,954	105.1	1,596	80.9	1,358	161.9
20-24.....	3,963	73.1	2,649	59.1	1,314	139.8
25-29.....	2,600	64.3	1,936	54.9	664	127.6
30-39.....	1,657	75.5	1,236	66.7	421	123.6
40 Years and Over.....	143	86.7	110	82.8	33	102.5
Not Stated.....	2	*	1	*	1	*
TOTAL.....	11,405	77.7	7,553	63.1	3,852	142.3
Median Age of Mother.....	23		24		21	

* Rates not computed.

TABLE 1.10—Total Live Births by Live Birth Order, Michigan Residents, 1962 and 1972

LIVE BIRTH ORDER	NO. OF BIRTHS		PERCENT	
	1962	1972	1962	1972
First Birth.....	43,426	57,477	23.8	39.1
Second Birth.....	40,585	43,057	22.2	29.3
Third Birth.....	34,744	22,677	19.0	15.4
Fourth Birth.....	25,381	11,405	13.9	7.8
Fifth Birth or Greater.....	38,576	12,136	21.1	8.3
Not Stated.....	78	102	0.0	0.1
TOTAL.....	182,790	146,854	100.0	100.0

TABLE 1.12—Total Live Births by Live Birth Order and Age of Mother, Michigan Residents, 1972

LIVE BIRTH ORDER	AGE OF MOTHER							TOTAL	MEDIAN AGE
	<20 YEARS	20-24 YEARS	25-29 YEARS	30-39 YEARS	40 + YEARS	NS			
First Birth.....	22,778	23,451	9,131	2,038	73	6	57,477	21	
Second Birth.....	4,877	20,425	13,790	3,849	113	3	43,057	24	
Third Birth.....	800	7,353	9,727	4,629	166	2	22,677	26	
Fourth Birth.....	118	2,197	4,718	4,163	209	0	11,405	28	
Fifth Birth or >.....	19	721	3,053	7,253	1,087	3	12,136	33	
Not Stated.....	19	52	23	6	2	0	102	23	
TOTAL.....	28,611	54,199	40,442	21,938	1,650	14	146,854	24	

Further inspection of Figure 1.4 (page 14) reveals that the fetal death ratio remained at relatively high levels throughout the first 20-30 years of the century. In the 1930's significant declines were observed in the fetal death ratio. However, since the 1950's, declines in the fetal death ratio have been much more moderate.

A classification of fetal deaths by underlying cause of death is contained in Table 1.15.

Due to a relatively large number of deaths allocated to unspecific causes (e.g., 292 deaths were assigned to unknown causes in 1972) the reader should exercise caution in attempting to draw specific inferences regarding cause of death among fetal deaths.

Of 1,770 resident fetal deaths, only 108 or approximately 6.1 percent were reported as due to congenital malformations, 226 or approximately 12.8 percent were due to conditions attributable to the mother, and 197 (11.1 percent) were reported as due to problems with the pregnancy or delivery. Conditions of the placenta and conditions of the umbilical cord accounted for 675 or 38.2 percent of all fetal deaths. Immaturity (unqualified), other conditions of the fetus, and deaths from unknown causes accounted for 401 or approximately 22.7 percent of all fetal deaths.

TABLE 1.11—First Births, Michigan and United States Residents, 1962-1972

UNITED STATES		YEAR	MICHIGAN	
FIRST BIRTHS	% OF ALL BIRTHS		FIRST BIRTHS	% OF ALL BIRTHS
1,086,312	26.1	1962	43,426	23.8
1,122,138	27.4	1963	44,069	24.6
1,164,548	28.9	1964	46,172	26.4
1,157,386	30.8	1965	48,660	29.2
1,224,786	34.0	1966	55,100	33.2
1,228,274	34.9	1967	55,409	34.0
1,311,460	37.5	1968	52,147	32.8
N/A	N/A	1969	56,497	34.1
N/A	N/A	1970	64,222	37.4
N/A	N/A	1971	60,413	37.2
N/A	N/A	1972	57,477	39.1

It appears that the young, the older, and the non-white mothers have a greater risk for fetal mortality. The rates of fetal loss for the under-15 mother, the 40-and-over mother, and the nonwhite mother are considerably higher than those for other groups (Tables 1.16 and 1.17).

TABLE 1.13—Live Births with No Prenatal Care by Age of Mother and Race of Child, Michigan Residents, 1972

AGE OF MOTHER	RACE OF CHILD					
	TOTAL		WHITE		NONWHITE	
	NO.	RATIO ¹	NO.	RATIO	NO.	RATIO
Under 15 Years.....	25	49.7	7	42.7	18	53.1
15-19 Years.....	624	22.2	293	14.9	331	39.5
20-24 Years.....	610	11.3	286	6.4	324	34.5
25-29 Years.....	272	6.7	166	4.7	106	20.4
30-39 Years.....	228	10.4	150	8.1	78	22.9
40 Years and Over.....	29	17.6	20	15.1	9	28.0
Not Stated.....	1	*	1	*	—	*
TOTAL.....	1,789	12.2	923	7.7	866	32.0
Median Age of Mother.....	22		22		21	
TOTAL Live Births.....	146,854	100.0	119,788	100.0	27,066	100.0

¹ Ratio per 1,000 live births.
* Ratio not computed.

TABLE 1.14—Fetal Deaths and Fetal Death Ratio, Michigan Residents, 1900-1972

FETAL DEATHS	YEAR	FETAL DEATH RATIOS
1,325	1900	30.3
2,559	1910	39.9
3,770	1920	40.9
3,714	1930	37.6
2,602	1940	26.3
3,095	1950	19.3
3,008	1960	15.4
2,060	1970	12.0
1,923	1971	11.9
1,770	1972	12.1

TABLE 1.15—Fetal Deaths by Cause of Death (Underlying) and Cause-Specific Ratios, Michigan Residents, 1972

ICDA LIST NO.	CAUSE OF DEATH	FREQUENCY	RATIO*
740	Anencephalus	35	23.8
741	Spina Bifida	9	6.1
742	Congenital Hydrocephalus	20	13.6
743	Other Congenital Anomalies of Nervous System	4	2.7
746	Congenital Anomalies of Heart	6	4.1
747	Other Congenital Anomalies of Circulatory System	2	1.4
748	Congenital Anomalies of Respiratory System	1	0.7
749	Cleft Palate and Cleft Lip	1	0.7
751	Other Congenital Anomalies of Digestive System	3	2.0
752	Congenital Anomalies of Genital Organs	2	1.4
755	Other Congenital Anomalies of Limbs	1	0.7
756	Other Congenital Anomalies of Musculoskeletal System	2	1.4
758	Other and Unspecified Congenital Anomalies	10	6.8
759	Congenital Syndromes Affecting Multiple Systems	12	8.2
760	Chronic Circulatory and Genito-Urinary Diseases in Mother	9	6.1
761	Other Maternal Conditions Unrelated to Pregnancy	100	68.1
762	Toxemia of Pregnancy	73	49.7
763	Maternal Ante- and Intra-Partum Infection	44	30.0
764	Difficult Labor with Abnormality of Bones, Organs, and Tissues of Pelvis	5	3.4
765	Difficult Labor with Disproportion but no Mention of Abnormality of Pelvis	7	4.8
766	Difficult Labor with Malposition of Fetus	26	17.7
767	Difficult Labor with Abnormality of Forces of Labor	1	0.7
768	Difficult Labor with Other and Unspecified Complications	8	5.4
769	Other Complications of Pregnancy and Childbirth	150	102.1
770	Conditions of Placenta	395	269.0
771	Conditions of Umbilical Cord	280	190.7
772	Birth Injury without Mention of Cause	4	2.7
775	Hemolytic Disease of Newborn without Mention of Kernicterus	44	30.0
776	Anoxic and Hypoxic Conditions not Elsewhere Classifiable	115	78.3
777	Immaturity, Unqualified	94	64.0
778	Other Conditions of Fetus or Newborn	15	10.2
779	Fetal Death of Unknown Cause	292	198.8

* Ratios per 100,000 Resident Live Births.

TABLE 1.16—Fetal Deaths by Age of Mother and Race of Fetus, Michigan Residents, 1972

AGE GROUP	RACE OF FETUS							
	TOTAL	%	WHITE	%	BLACK	%	OTHER**	%
Under 15....	17	1.0	4	0.3	13	2.4	0	0.0
15-19.....	394	22.3	207	17.5	173	32.2	14	29.2
20-24.....	546	30.8	385	32.5	149	27.7	12	25.0
25-29.....	402	22.7	291	24.6	100	18.6	11	22.9
30-34.....	209	11.8	157	13.2	48	8.9	4	8.3
35-39.....	142	8.0	96	8.1	43	8.0	3	6.3
40-44.....	48	2.7	36	3.0	10	1.9	2	4.2
45 and Over	3	0.2	3	0.3	0	0.0	0	0.0
Not Stated..	9	0.5	6	0.5	1	0.2	2	4.2
TOTAL.....	1,770	100.0	1,185	100.0	537	99.9	48	100.1
Median Age.	24		24		22		*	

* Not computed due to limited number of occurrences.
** Race not stated included with "Other".

TABLE 1.17—Fetal Death Ratios by Age of Mother and Race of Fetus, Michigan Residents, 1972

AGE OF MOTHER AND RACE OF FETUS	FETAL DEATHS	LIVE BIRTHS	AGE-RACE SPECIFIC RATIOS PER 1,000 LIVE BIRTHS
Under 15 Years.....	17	503	33.8
White.....	4	164	24.4
Nonwhite.....	13	339	38.3
15-19 Years.....	394	28,108	14.0
White.....	207	19,718	10.5
Nonwhite.....	187	8,390	22.3
20-24 Years.....	546	54,199	10.1
White.....	385	44,798	8.6
Nonwhite.....	161	9,401	17.1
25-29 Years.....	402	40,442	9.9
White.....	291	35,239	8.3
Nonwhite.....	111	5,203	21.3
30-39 Years.....	351	21,938	16.0
White.....	253	18,533	13.7
Nonwhite.....	98	3,405	28.8
40 and Over.....	51	1,650	30.9
White.....	39	1,328	29.4
Nonwhite.....	12	322	37.3
Not Stated.....	9	14	—
White.....	6	8	—
Nonwhite.....	3	6	—
TOTAL.....	1,770	146,854	12.1
White.....	1,185	119,788	9.9
Nonwhite.....	585	27,066	21.6

NOTE—Nonwhite includes race not stated.

Among live births, the percentage of children weighing 5 lbs., 8 oz. or less at birth was 7.8 percent. The comparable percentage among fetal deaths was 56.9 percent. The distribution of birth weight by plurality is presented in Table 1.18.

Illegitimate fetal deaths comprised 25.1 percent of all fetal deaths. Illegitimate ratios are particularly high among the young and the nonwhite. Table 1.19 presents illegitimacy ratios for fetal deaths and Table 1.20 contains a comparison of age-specific fetal mortality ratios by legitimacy status.

TABLE 1.18—Fetal Deaths by Fetal Weight and Plurality, Michigan Residents, 1972

WEIGHT	TOTAL FETALS	CUM. %	SINGLE DELIV-ERY	TWIN DELIV-ERY	TRIPLET DELIV-ERY
500 Grams or Less.....	153	8.6	121	29	3
501-1,000 Grams.....	324	26.9	302	21	1
1,001-1,500 Grams.....	185	37.4	166	19	0
1,501-2,000 Grams.....	176	47.3	171	4	1
2,001-2,500 Grams.....	169	56.9	161	8	0
2,501-3,000 Grams.....	181	67.1	176	5	0
3,001-3,500 Grams.....	159	76.1	155	4	0
3,501-4,000 Grams.....	96	81.5	96	0	0
4,001-4,500 Grams.....	27	83.1	27	0	0
4,501-5,000 Grams.....	20	84.2	20	0	0
5,001 and Over Grams.....	14	85.0	14	0	0
Not Stated.....	266	100.0	246	20	0
TOTAL.....	1,770	100.0	1,655	110	5

TABLE 1.19—Illegitimate Fetal Deaths and Ratios* by Age of Mother and Race of Fetus, Michigan Residents, 1972

AGE GROUP	TOTAL	RATIO	WHITE	RATIO	BLACK	RATIO	OTHER**	RATIO
Under 15.....	16	941.2	3	750.0	13	1000.0	0	0.0
15-19.....	208	527.9	66	318.8	140	809.2	2	142.9
20-24.....	112	205.1	45	116.9	63	422.8	4	333.3
25-29.....	56	139.3	20	68.7	34	340.0	2	181.8
30-34.....	21	100.5	7	44.6	14	291.7	0	0.0
35-39.....	21	147.9	5	52.1	15	348.8	1	333.3
40-44.....	7	145.8	5	138.9	2	200.0	0	0.0
45 and Over.....	0	0.0	0	0.0	0	0.0	0	0.0
Not Stated.....	3	333.3	2	333.3	0	0.0	1	500.0
TOTAL.....	444	250.8	153	129.1	281	523.3	10	208.3

* Ratio computed as = (No. of illegitimate Fetal Deaths/Total Fetal Deaths) x 1,000.
 ** Race not stated included with "Other".

TABLE 1.20—Fetal Deaths and Live Births by Age of Mother and Legitimacy of Status, Michigan Residents, 1972

AGE OF MOTHER AND LEGITIMACY STATUS	FETAL DEATHS	LIVE BIRTHS	AGE SPECIFIC RATIO PER 1,000 LIVE BIRTHS
Under 15 Years.....	17	503	33.8
Legitimate.....	1	45	22.2
Illegitimate.....	16	458	34.9
15-19 Years.....	394	28,108	14.0
Legitimate.....	186	17,674	10.5
Illegitimate.....	208	10,434	19.9
20-24 Years.....	546	54,199	10.1
Legitimate.....	434	48,485	9.0
Illegitimate.....	112	5,714	19.6
25-29 Years.....	402	40,442	9.9
Legitimate.....	346	38,662	8.9
Illegitimate.....	56	1,780	31.5
30-39 Years.....	351	21,938	16.0
Legitimate.....	309	20,911	14.8
Illegitimate.....	42	1,027	40.9
40 and Over.....	51	1,650	30.9
Legitimate.....	44	1,545	28.5
Illegitimate.....	7	105	66.7
Not Stated.....	9	14	—
Legitimate.....	6	6	—
Illegitimate.....	3	8	—
TOTAL.....	1,770	146,854	12.1
Legitimate.....	1,326	127,328	10.4
Illegitimate.....	444	19,526	22.7

Of the 1,770 fetal deaths recorded for 1972, 424 or 24.0 percent of the records indicated mothers reported no prenatal visits or did not state the number of prenatal visits.

The month of pregnancy that prenatal care is started among women having stillbirths is most frequently the second month (Table 1.21). Of those reporting, a relatively large percentage (70.8 percent) had received care before the 6th month of pregnancy.

TABLE 1.21—Month Prenatal Care Began by Number of Prenatal Visits, Michigan Resident Stillbirths, 1972

MONTH CARE BEGAN	NUMBER OF VISITS							
	TOTAL	NONE	UNDER 5	5-9	10-14	15-19	20 AND OVER	NOT STATED
No Care....	269	263	2	1	0	0	0	3
1st Month..	121	5	25	29	45	8	5	4
2nd Month..	433	6	89	130	157	30	13	8
3rd Month..	359	5	80	118	123	22	1	10
4th Month..	219	7	90	68	48	3	1	2
5th Month..	122	5	56	44	16	0	0	1
6th Month..	68	2	45	16	3	0	2	0
7th Month..	38	2	27	6	2	0	1	0
8th Month..	27	0	19	3	4	0	0	1
9th Month..	102	8	4	2	1	0	0	87
Unknown..	12	1	5	1	1	0	0	4
TOTAL....	1,770	304	442	418	400	63	23	120

SECTION II MORTALITY

Mortality

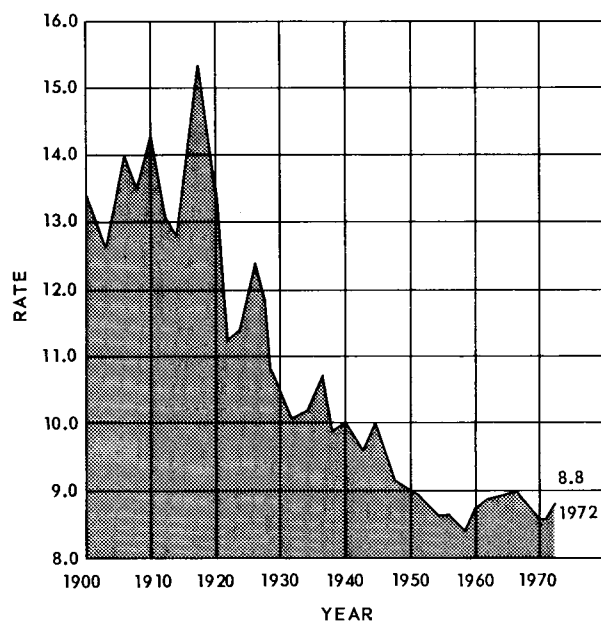
An Overview 1972

RESIDENT DEATHS	79,210
CRUDE DEATH RATE	8.8
INFANT DEATHS	2,801
INFANT DEATH RATE	19.1
NEONATAL DEATHS	2,115
NEONATAL DEATH RATE	14.4
PERINATAL DEATHS	3,701
PERINATAL DEATH RATE	24.9
MATERNAL DEATHS	35
MATERNAL DEATH RATE	2.4

TABLE 2.1—Number of Deaths and Crude Death Rates, Michigan and United States Residents, 1962-1972

UNITED STATES		YEAR	MICHIGAN	
NO.	RATE		NO.	RATE
1,756,720	9.5	1962	70,049	8.8
1,813,549	9.6	1963	72,438	9.0
1,798,051	9.4	1964	72,129	8.9
1,828,136	9.4	1965	73,665	9.0
1,863,149	9.5	1966	74,596	9.0
1,851,323	9.4	1967	75,360	8.7
1,930,082	9.7	1968	76,855	8.9
1,916,000 Pr.	9.5 Pr.	1969	76,693	8.8
1,921,000 Pr.	9.4 Pr.	1970	76,321	8.6
1,921,000 Pr.	9.3 Pr.	1971	77,395	8.6
1,962,000 Pr.	9.4 Pr.	1972	79,210	8.8

FIGURE 2.1—Crude Death Rate, Michigan Residents, 1900-1972



Between 1900 to 1972 the number of deaths occurring to Michigan residents increased from 32,453 to 79,210. The 31,472 deaths recorded in 1902 was the lowest number of resident deaths in this century,

while the greatest number was recorded in 1972 when total resident deaths numbered 79,210. Although the total number of deaths increased between 1900 and 1972, the crude death rate decreased. The crude death rate in 1900 was 13.4 while the rate in 1972 was 8.8. The lowest crude death rate observed since 1900 was 8.4. This rate was observed both in 1958 and 1959. The highest death rate (15.6) was observed in 1918.

Heart, cancer, and stroke deaths numbered 2,836, 1,460, and 2,136 respectively in 1900, whereas in 1972 heart, cancer and stroke deaths numbered 30,865, 14,045, and 7,999 respectively. Although there have been significant increases in the number of deaths from these causes, changes in death rates per 100,000 population have not been nearly so dramatic. Heart, cancer and stroke cause-specific death rates in 1900 were 117.1, 60.3 and 88.2 respectively. Comparable figures for 1972 are 342.4, 155.8 and 88.7.

In 1972, 79,210 deaths were recorded as having occurred to residents of Michigan. The crude death rate for 1972 was 8.8. There has been no significant changes in either the absolute number of deaths or the crude death rate over the past few years (Figure 2.1). This rather static pattern in the crude death rate is not unique to Michigan, as it is similar to a pattern that has emerged across the nation. A comparison of deaths and crude death rates for Michigan and the United States for the period 1962 - 1972 is presented in Table 2.1.

The static pattern in deaths is to be expected given the fact that the vast majority of deaths are due to chronic conditions or conditions that are a function of age. As the number of deaths from chronic diseases may be considered to some extent largely a function of age and sex, one can reasonably expect that the total number of deaths is not likely to change significantly without a concomitant change in the size or composition of the population as a whole or until such time as significant advances are made in reducing mortality to heart disease, cancer and stroke.

Of the 79,210 resident deaths that occurred in 1972, 45,168 occurred to males and 34,042 occurred to females. The median age of death for males was 67, compared to a significantly higher figure for females of 73. White deaths numbered 69,598 and accounted for 88 percent of all deaths. Negro deaths numbered 9,409 while 203 deaths occurred to members of all other races (Table 2.2).

LEADING CAUSES OF DEATH

The principal causes of death in Michigan in 1972 remained much the same as they have in the recent past. The ten leading causes of death and cause-specific rates per 100,000 population are displayed in Table 2.3 and Figure 2.2.

TABLE 2.2—Number of Deaths by Age, Race and Sex, Michigan Residents, 1972

AGE	TOTAL			WHITE			BLACK			OTHER		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
Under 1 Year . . .	2,801	1,571	1,230	1,957	1,111	846	835	455	380	9	5	4
1-4 Years	448	252	196	335	193	142	112	58	54	1	1	—
5-9 Years	301	187	114	257	157	100	43	29	14	1	1	—
10-14 Years	366	250	116	300	211	89	61	34	27	5	5	—
15-19 Years	1,080	779	301	899	649	250	178	128	50	3	2	1
20-24 Years	1,250	971	279	894	697	197	352	270	82	4	4	—
25-29 Years	966	658	308	671	446	225	288	209	79	7	3	4
30-34 Years	857	545	312	612	384	228	238	155	83	7	6	1
35-39 Years	1,083	661	422	783	466	317	295	192	103	5	3	2
40-44 Years	1,760	1,060	700	1,316	806	510	436	248	188	8	6	2
45-49 Years	3,047	1,882	1,165	2,404	1,485	919	628	390	238	15	7	8
50-54 Years	4,321	2,792	1,529	3,525	2,298	1,227	780	485	295	16	9	7
55-59 Years	5,604	3,643	1,961	4,783	3,117	1,666	803	517	286	18	9	9
60-64 Years	6,957	4,546	2,411	6,098	4,037	2,061	847	500	347	12	9	3
65-69 Years	8,505	5,386	3,119	7,449	4,748	2,701	1,035	627	408	21	11	10
70-74 Years	9,466	5,563	3,903	8,483	5,022	3,461	958	524	434	25	17	8
75-79 Years	10,455	5,818	4,637	9,740	5,394	4,346	699	412	287	16	12	4
80-84 Years	9,752	4,663	5,089	9,315	4,453	4,862	422	200	222	15	10	5
85-89 Years	6,519	2,710	3,809	6,267	2,608	3,659	244	96	148	8	6	2
90 and Over	3,663	1,223	2,440	3,503	1,162	2,341	154	59	95	6	2	4
Not Stated	9	8	1	7	6	1	1	1	—	1	1	—
Total	79,210	45,168	34,042	69,598	39,450	30,148	9,409	5,589	3,820	203	129	74
Median Age	70	67	73	71	68	75	57	56	60	60	61	59

DISEASES OF THE HEART

In 1972, 30,865 Michigan residents died from diseases of the heart. Heart disease continues to be the single largest cause of death in Michigan and the United States, accounting for more deaths than the next four largest causes combined (cancer, stroke, accidents and diabetes). By far the most prevalent

condition in this group is an acute myocardial infarction (15,887 deaths in 1972) commonly referred to as a "coronary" (Table 2.4).

Of the 30,865 deaths due to diseases of the heart in 1972, 17,704 were males and 13,161 were females. The median age at death for males was 70 compared to a figure of 78 for females. The median age at death for all heart disease deaths was 74 (Table 2.5).

TABLE 2.3—Leading Causes of Death and Cause-Specific Rates,
Michigan and United States Residents, 1972

RANK	CAUSE OF DEATH	NUMBER OF DEATHS		RATE	
		MICHIGAN	U.S. Prov.	MICHIGAN	U.S. Prov.
1	Diseases of Heart	30,865	752,450	342.4	361.3
2	Malignant Neoplasms	14,045	346,930	155.8	166.6
3	Cerebrovascular Diseases	7,999	210,050	88.7	100.9
4	Accidents	4,566	113,670	50.7	54.6
5	Diabetes Mellitus	2,222	39,070	24.7	18.9
6	Influenza and Pneumonia	2,201	61,160	24.4	29.4
7	Cirrhosis of Liver	1,778	32,760	19.7	15.7
8	Arteriosclerosis	1,153	32,820	12.8	15.8
9	Homicide	1,103	18,880	12.2	9.1
10	Emphysema	1,064	21,310	11.8	10.2
	Sub Total	66,996	1,639,100	743.3	782.4
	All Other Causes	12,214	322,900	135.3	159.8
	TOTAL	79,210	1,962,000	878.8	942.2

* A detailed tabulation of deaths by specific conditions for 1972 is included in Section 4. Also included in Section 4 is a tabulation by County of Residence of selected causes of death.

FIGURE 2.2—Leading Causes of Death, Michigan Residents, 1972

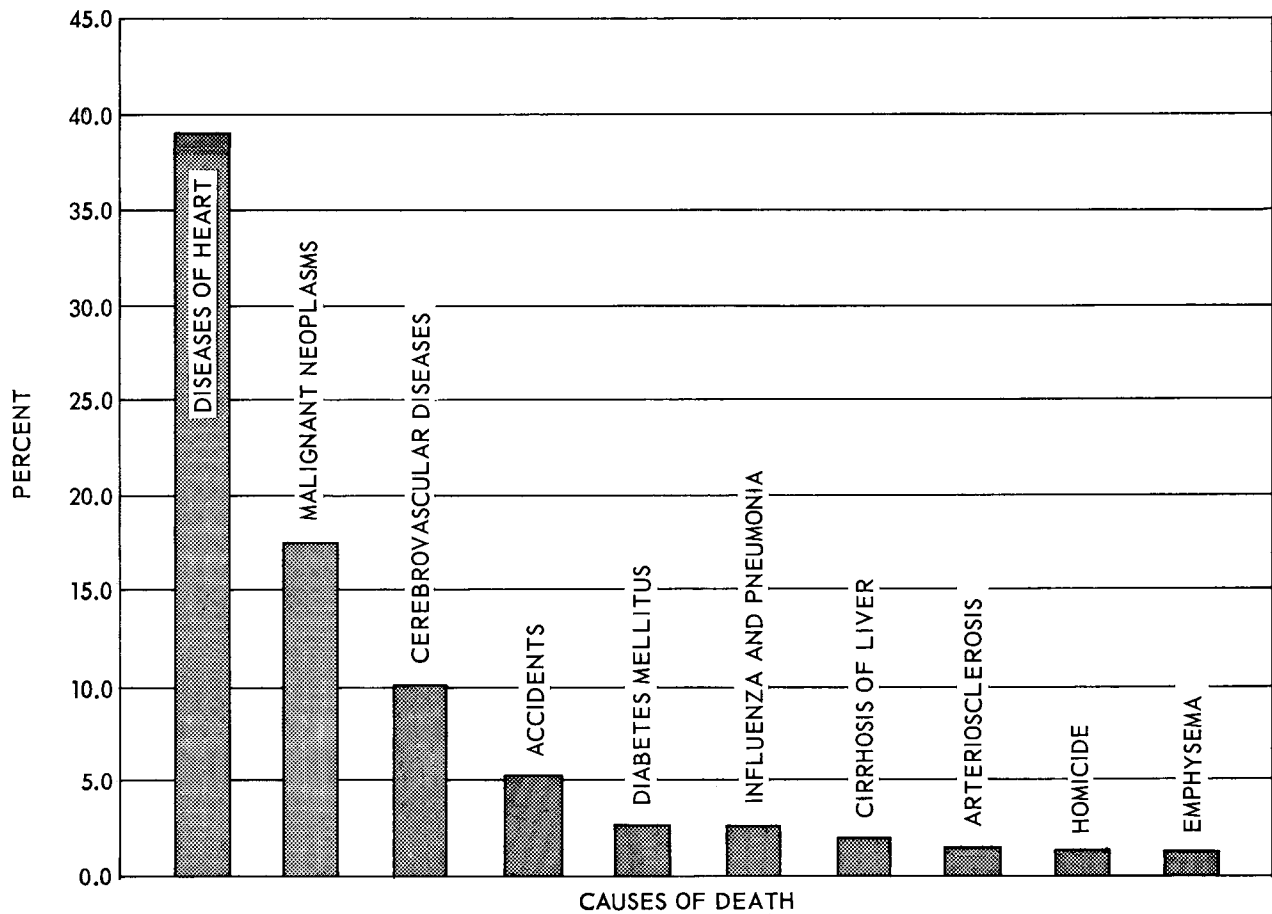


TABLE 2.4—Deaths Due to Diseases of the Heart by Detailed Cause, Michigan Residents, 1972

ICDA NO.	CAUSE AND SITE	NO. OF DEATHS	PERCENT
410	Acute myocardial infarction	15,887	51.4725
412	Chronic ischemic heart disease	12,406	40.1944
427	Symptomatic heart disease	996	3.2270
402	Hypertensive heart disease	366	1.1858
398	Other heart disease specified as rheumatic	175	.5670
394	Diseases of mitral valve	165	.5346
404	Hypertensive heart and renal disease	150	.4860
395	Diseases of aortic valve	137	.4439
429	Ill-defined heart disease	131	.4244
428	Other myocardial insufficiency	110	.3564
411	Other acute and subacute forms of ischemic heart disease	79	.2560
396	Diseases of mitral and aortic valve	64	.2074
425	Cardiomyopathy	56	.1814
397	Diseases of other endocardial structures	31	.1004

ICDA NO.	CAUSE AND SITE	NO. OF DEATHS	PERCENT
424	Chronic disease of endocardium	26	.0842
426	Pulmonary heart disease	21	.0680
421	Acute and subacute endocarditis	20	.0648
423	Chronic disease of pericardium, non-rheumatic	17	.0551
422	Acute myocarditis	10	.0324
413	Angina pectoris	5	.0162
391	Rheumatic fever with heart involvement	5	.0162
390	Rheumatic fever without mention of heart involvement	3	.0097
420	Acute pericarditis, non-rheumatic	2	.0065
393	Diseases of pericardium	2	.0065
392	Chorea	1	.0032
	TOTAL	30,865	100.00

TABLE 2.5—Deaths Due to Diseases of the Heart by Age, by Race and Sex, Michigan Residents, 1972

AGE GROUP	RACE											
	ALL RACES			WHITE			BLACK			OTHER		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
Under 1 Year . . .	9	4	5	6	3	3	3	1	2	—	—	—
1-4 Years	10	6	4	7	5	2	3	1	2	—	—	—
5-9 Years	1	1	—	1	1	—	—	—	—	—	—	—
10-14 Years	5	4	1	4	3	1	1	1	—	—	—	—
15-19 Years	6	5	1	5	5	—	1	—	1	—	—	—
20-24 Years	21	12	9	11	8	3	10	4	6	—	—	—
25-29 Years	34	21	13	23	13	10	11	8	3	—	—	—
30-34 Years	83	55	28	65	44	21	18	11	7	—	—	—
35-39 Years	176	123	53	138	100	38	38	23	15	—	—	—
40-44 Years	428	316	112	350	270	80	76	44	32	2	2	—
45-49 Years	916	703	213	754	593	161	161	109	52	1	1	—
50-54 Years	1,558	1,199	359	1,319	1,047	272	234	149	85	5	3	2
55-59 Years	2,132	1,584	548	1,844	1,388	456	282	192	90	6	4	2
60-64 Years	2,955	2,066	889	2,602	1,850	752	347	210	137	6	6	—
65-69 Years	3,640	2,364	1,276	3,210	2,114	1,096	425	247	178	5	3	2
70-74 Years	4,141	2,403	1,738	3,740	2,193	1,547	393	205	188	8	5	3
75-79 Years	4,877	2,690	2,187	4,569	2,509	2,060	300	174	126	8	7	1
80-84 Years	4,704	2,191	2,513	4,505	2,100	2,405	194	87	107	5	4	1
85-89 Years	3,266	1,329	1,937	3,144	1,297	1,865	119	47	72	3	3	—
90 and Over	1,899	624	1,275	1,811	590	1,221	87	34	53	1	—	1
Not Stated	4	4	—	3	3	—	1	1	—	—	—	—
All Ages	30,865	17,704	13,161	28,111	16,118	11,993	2,704	1,548	1,156	50	38	12
Median Age at Death	74	70	78	74	71	78	66	65	69	63	70	60

CANCER

Of 79,210 Michigan resident deaths, 14,045 persons died from cancer in 1972. Although not the leading cause of death in Michigan and the United States, cancer affects all of the human body's major

systems and persons of all ages (Table 2.6).

Of the 14,045 cancer deaths in 1972 occurring to Michigan residents, 7,826 were males while 6,219 occurred to females. The median age at death for males was 67 and for females 66 (Table 2.7).

TABLE 2.6—Malignant Neoplasms by Site Affected, Michigan Residents, 1972

ICDA NO.	CAUSE AND SITE	NO. OF DEATHS	PERCENT
162	Malignant Neoplasm of Trachea, Bronchus and Lung	2,927	20.8
153	Malignant Neoplasm of Large Intestine, Except Rectum	1,426	10.2
174	Malignant Neoplasm of Breast	1,268	9.0
185	Malignant Neoplasm of Prostate	748	5.3
157	Malignant Neoplasm of Pancreas	728	5.2
151	Malignant Neoplasm of Stomach	651	4.6
199	Malignant Neoplasm without Specification of Site	518	3.7
183	Malignant Neoplasm of Ovary, Fallopian Tube and Broad Ligament	427	3.0
188	Malignant Neoplasm of Bladder	413	2.9
154	Malignant Neoplasm of Rectum and Rectosigmoid Junction	383	2.7
191	Malignant Neoplasm of Brain	327	2.3
200	Lymphosarcoma and Reticulum-Cell Sarcoma	301	2.1
189	Malignant Neoplasm of Other and Unspecified Urinary Organs	280	2.0
150	Malignant Neoplasm of Esophagus	274	2.0
205	Myeloid Leukemia	271	1.9
182	Other Malignant Neoplasm of Uterus	245	1.7
197	Secondary Malignant Neoplasm of Respiratory and Digestive Systems	239	1.7
180	Malignant Neoplasm of Cervix Uteri	233	1.7
156	Malignant Neoplasm of Gall Bladder and Bile Ducts	193	1.4
203	Multiple Myeloma	182	1.3
204	Lymphatic Leukemia	170	1.2
207	Other and Unspecified Leukemia	156	1.1
161	Malignant Neoplasm of Larynx	134	1.0
201	Hodgkin's Disease	132	0.9
202	Other Neoplasms of Lymphoid Tissue	129	0.9
195	Malignant Neoplasm of Ill-Defined Sites	122	0.9
172	Malignant Melanoma of Skin	103	0.7
155	Malignant Neoplasm of Liver and Intrahepatic Bile Ducts, Specified as Primary	77	0.5
141	Malignant Neoplasm of Tongue	77	0.5
170	Malignant Neoplasm of Bone	70	0.5
171	Malignant Neoplasm of Connective and Other Soft Tissue	70	0.5

ICDA NO.	CAUSE AND SITE	NO. OF DEATHS	PERCENT
198	Other Secondary Malignant Neoplasm	68	0.5
149	Malignant Neoplasm of Pharynx, Unspecified	52	0.4
173	Other Malignant Neoplasm of Skin	52	0.4
193	Malignant Neoplasm of Thyroid Gland	44	0.3
192	Malignant Neoplasm of Other Parts of Nervous System	43	0.3
145	Malignant Neoplasm of Other and Unspecified Parts of the Mouth	42	0.3
163	Malignant Neoplasm of Other and Unspecified Respiratory Organs	39	0.3
186	Malignant Neoplasm of Testis	36	0.3
146	Malignant Neoplasm of Oropharynx	34	0.2
148	Malignant Neoplasm of Hypopharynx	32	0.2
209	Myelofibrosis	32	0.2
184	Malignant Neoplasm of Other and Unspecified Female Genital Organs	32	0.2
152	Malignant Neoplasm of Small Intestine, Including Duodenum	28	0.2
158	Malignant Neoplasm of Peritoneum and Retroperitoneal Tissue	26	0.2
208	Polycythemia Vera	25	0.2
142	Malignant Neoplasm of Salivary Gland	25	0.2
144	Malignant Neoplasm of Floor of Mouth	24	0.2
194	Malignant Neoplasm of Other Endocrine Glands	23	0.2
160	Malignant Neoplasm of Nose, Nasal Cavities, Middle Ear and Accessory Sinuses	23	0.2
147	Malignant Neoplasm of Nasopharynx	23	0.2
159	Malignant Neoplasm of Unspecified Digestive Organs	21	0.1
206	Monocytic Leukemia	12	0.1
140	Malignant Neoplasm of Lip	10	0.1
187	Malignant Neoplasm of Other and Unspecified Male Genital Organs	8	0.1
190	Malignant Neoplasm of Eye	8	0.1
196	Secondary and Unspecified Malignant Neoplasm of Lymph Nodes	4	0.0
143	Malignant Neoplasm of Gum	4	0.0
181	Chorionepithelioma	1	0.0
	TOTAL	14,045	100.0

TABLE 2.7—Deaths Due to Cancer by Age, by Race and Sex,
Michigan Residents, 1972

AGES	RACE											
	ALL RACES			WHITE			BLACK			OTHER		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
Under 1 Year . . .	6	2	4	6	2	4	—	—	—	—	—	—
1-4 Years	30	14	16	27	14	13	3	—	3	—	—	—
5-9 Years	51	29	22	48	27	21	3	2	1	—	—	—
10-14 Years	45	26	19	39	24	15	6	2	4	—	—	—
15-19 Years	54	36	18	53	35	18	1	1	—	—	—	—
20-24 Years	81	50	31	74	48	26	7	2	5	—	—	—
25-29 Years	100	45	55	88	41	47	12	4	8	—	—	—
30-34 Years	96	37	59	87	36	51	9	1	8	—	—	—
35-39 Years	198	74	124	167	57	110	31	17	14	—	—	—
40-44 Years	370	151	219	291	115	176	78	35	43	1	1	—
45-49 Years	749	355	394	625	284	341	121	70	51	3	1	2
50-54 Years	1,092	553	539	917	462	455	174	90	84	1	1	—
55-59 Years	1,540	829	711	1,323	700	623	211	127	84	6	2	4
60-64 Years	1,766	1,031	735	1,554	921	633	211	109	102	1	1	—
65-69 Years	2,016	1,253	763	1,792	1,105	687	219	146	73	5	2	3
70-74 Years	1,961	1,179	782	1,774	1,066	708	185	111	74	2	2	—
75-79 Years	1,753	1,071	682	1,627	987	640	124	82	42	2	2	—
80-84 Years	1,319	717	602	1,250	680	570	67	36	31	2	1	1
85-89 Years	595	279	316	570	267	303	25	12	13	—	—	—
90 and Over	223	95	128	212	88	124	11	7	4	—	—	—
Not Stated	—	—	—	—	—	—	—	—	—	—	—	—
All Ages	14,045	7,826	6,219	12,524	6,959	5,565	1,498	854	644	23	13	10
Median Age at Death	67	67	66	67	68	66	62	63	60	*	*	*

* Not computed due to the small number of occurrences.

CEREBROVASCULAR DISEASES

Deaths due to cerebrovascular diseases (stroke) accounted for 7,999 (10.1 percent) deaths among Michigan residents in 1972. Stroke is the third leading cause of death.

Of the 7,999 deaths due to cerebrovascular diseases in 1972, 3,620 were males while 4,379 were females. The median age at death for males was 75 while the median age among females was significantly higher 79. The median age for all deaths from cerebrovascular diseases was 77 (Table 2.9).

TABLE 2.8—Deaths Due to Cerebrovascular Diseases, Michigan Residents, 1972

ICDA LIST NO.	CAUSE OF DEATH	NO. OF DEATHS	PERCENT
433	Cerebral Thrombosis	2,408	30.1
436	Acute but Ill-defined Cerebrovascular Disease	2,364	29.6
431	Cerebral Hemorrhage	1,358	17.0
437	Generalized Ischemic Cerebrovascular Disease	1,211	15.1
430	Subarachnoid Hemorrhage	417	5.2
432	Cerebral Occlusion	127	1.6
434	Cerebral Embolism	38	0.5
435	Transient Cerebral Ischemia	2	0.0
438	Other and Ill-defined Cerebrovascular Disease	74	0.9
	TOTAL	7,999	100.0

TABLE 2.9—Deaths Due to Cerebrovascular Diseases by Age, Race and Sex, Michigan Residents, 1972

AGES	RACE											
	ALL RACES			WHITE			BLACK			OTHER		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
Under 1 Year...	3	2	1	2	1	1	1	1	—	—	—	—
1-4 Years.....	6	3	3	5	3	2	1	—	1	—	—	—
5-9 Years.....	5	4	1	5	4	1	—	—	—	—	—	—
10-14 Years.....	2	1	1	2	1	1	—	—	—	—	—	—
15-19 Years.....	13	7	6	12	7	5	1	—	1	—	—	—
20-24 Years.....	18	10	8	13	7	6	5	3	2	—	—	—
25-29 Years.....	17	9	8	11	7	4	6	2	4	—	—	—
30-34 Years.....	29	20	9	16	11	5	13	9	4	—	—	—
35-39 Years.....	51	25	26	40	20	20	11	5	6	—	—	—
40-44 Years.....	104	43	61	66	29	37	38	14	24	—	—	—
45-49 Years.....	174	86	88	120	59	61	54	27	27	—	—	—
50-54 Years.....	254	147	107	190	109	81	64	38	26	—	—	—
55-59 Years.....	340	195	145	275	155	120	64	39	25	1	1	—
60-64 Years.....	452	269	183	382	229	153	70	40	30	—	—	—
65-69 Years.....	747	395	352	635	337	298	109	56	53	3	2	1
70-74 Years.....	1,083	543	540	935	470	465	145	72	73	3	1	2
75-79 Years.....	1,377	639	738	1,279	591	688	96	48	48	2	—	2
80-84 Years.....	1,531	622	909	1,464	593	871	64	28	36	3	1	2
85-89 Years.....	1,173	432	741	1,127	418	709	43	12	31	3	2	1
90 and Over....	620	168	452	602	166	436	17	2	15	1	—	1
Not Stated.....	—	—	—	—	—	—	—	—	—	—	—	—
All Ages.....	7,999	3,620	4,379	7,181	3,217	3,964	802	396	406	16	7	9
Median Age at Death.....	77	75	79	78	76	80	68	66	70	*	*	*

* Not computed due to the small number of occurrences.

ACCIDENTS

In 1972 accidents accounted for 4,566 resident deaths in Michigan. The type of accident that continues to claim the greatest number of lives is the motor vehicle traffic accident. This type of accident accounted for 52.7 percent of all accidental deaths occurring in 1972 to Michigan residents. The second (14.3 percent in 1972) major cause of accidental deaths occurring to Michigan residents is accidental falls (Table 2.10).

The median age at death for all accidents was 37 years and the median age for motor vehicle traffic accident deaths was 32 years. Both of these statistics are considerably lower than the median age for all deaths (70 years).

Of the 4,566 deaths due to accidents occurring to Michigan residents in 1972, 3,211 were males while 1,355 occurred to females. The median age at death among males was 30 and females 46 (Table 2.11).

INFANT DEATHS

Of the 79,210 deaths occurring to Michigan residents in 1972, 2,801 occurred to individuals less than one year of age. Significant reductions in infant mortality were recorded during the first half of this century both for Michigan and the United States. This probably was due in large part to an ever-increasing number of births attended by physicians which occurred in more modern well-equipped hospitals.

As can be seen from Table 2.12, rather moderate but steady declines have occurred in infant death rates for Michigan residents and for the United States as a whole during the period from 1962 to 1972.

There are three subclassifications of infant death:

Deaths Under 1 Day 1,024 in 1972
 Deaths Under 7 Days 1,930 in 1972
 Deaths Under 28 Days 2,115 in 1972
 Total Infant Deaths
 (Under 1 Year) 2,801 in 1972

When deaths under one week are grouped together with fetal deaths the resultant total is called perinatal deaths. By placing a ceiling of six days for the infant component of perinatal deaths, most accidental and environmental causes of death have been eliminated. In 1972, Michigan resident perinatal deaths numbered 3,700 and the perinatal death rate was 24.9.

Another major type of infant death classification is by cause of death. As with fetal deaths there is some non-specific reporting. The number of deaths allocated to "Other Diseases of Early Infancy" was 954 (34.1 percent) in 1972. Congenital anomalies in 1972 numbered 463. Asphyxia of newborn numbered 301 and immaturity deaths numbered 316. Influenza and pneumonia deaths numbered 162, while accidental deaths numbered 84. As can be observed from Table 2.13 the vast majority of infant deaths are attributable to causes restricted to the fetus and newborn but there still remain other major causes of death particularly in three areas: (1) infective and parasitic diseases; (2) respiratory diseases and (3) accidents.

TABLE 2.10—Accidental Deaths by Type of Accident, Michigan Residents, 1972

ICDA LIST NO.	TYPE OF ACCIDENTS	NO. OF DEATHS	PERCENT
E810-E819	Motor Vehicle Traffic Accidents	2,406	52.7
E880-E887	Accidental Falls	653	14.3
E890-E899	Accidents Caused by Fires and Flames	263	5.8
E870-E877	Accidental Poisoning by Gases and Vapors	106	2.3
E850-E859	Accidental Poisonings by Drugs and Medicaments	89	1.9
E840-E845	Air and Space Transport Accidents	71	1.6
E830-E838	Water Transport Accidents	62	1.4
E820-E823	Motor Vehicle Non-traffic Accidents	44	1.0
E900-E909	Accidents Due to Natural and Environmental Factors	39	0.9
E860-E869	Accidental Poisoning by Other Solid and Liquid Substances	30	0.7
E940-E949	Late Effects of Accidental Injury	20	0.4
E800-E807	Railway Accidents	15	0.3
E930-E936	Surgical and Medical Complications and Misadventures	13	0.3
E825-E827	Other Road Vehicle Accidents	11	0.2
E910-E929	Other Accidents	744	16.3
	TOTAL	4,566	100.1

COMMUNICABLE DISEASE DEATHS

Although comprising a smaller proportion of deaths than they have in the past, communicable disease deaths continue to be a major concern to public health professionals. Deaths due to such diseases as diphtheria, scarlet fever and streptococcal sore throat, smallpox, typhoid fever, measles, poliomyelitis and others have been virtually eliminated not only in Michigan, but across the nation. Table 4.5 illustrates trends in deaths from the major communicable diseases.

In 1972, deaths from all infective and parasitic diseases numbered 557. As can be observed from Table 2.14 the four major causes of death in this group are tuberculosis (157 deaths), septicemia (134 deaths), diarrheal disease (71 deaths) and infectious hepatitis (54 deaths).

TABLE 2.11—Deaths Due to Accidents by Age, by Race and Sex, Michigan Residents, 1972

AGES	RACE											
	ALL RACES			WHITE			BLACK			OTHER		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
Under 1 Year.....	84	47	37	61	35	26	22	12	10	1	—	1
1-4 Years.....	179	100	79	128	75	53	51	25	26	—	—	—
5-9 Years.....	165	114	51	138	92	46	26	21	5	1	1	—
10-14 Years.....	199	156	43	172	135	37	23	17	6	4	4	—
15-19 Years.....	643	483	160	594	447	147	47	35	12	2	1	1
20-24 Years.....	545	459	86	487	412	75	55	44	11	3	3	—
25-29 Years.....	278	227	51	256	210	46	17	14	3	5	3	2
30-34 Years.....	228	172	56	199	149	50	26	20	6	3	3	—
35-39 Years.....	196	147	49	156	114	42	38	31	7	2	2	—
40-44 Years.....	176	131	45	151	115	36	24	16	8	1	—	1
45-49 Years.....	236	170	66	188	135	53	45	33	12	3	2	1
50-54 Years.....	231	161	70	194	130	64	34	29	5	3	2	1
55-59 Years.....	225	153	72	199	134	65	26	19	7	—	—	—
60-64 Years.....	202	154	48	177	130	47	25	24	1	—	—	—
65-69 Years.....	202	127	75	174	108	66	26	17	9	2	2	—
70-74 Years.....	194	119	75	180	108	72	9	7	2	5	4	1
75-79 Years.....	189	118	71	174	110	64	14	7	7	1	1	—
80-84 Years.....	191	96	95	182	91	91	9	5	4	—	—	—
85-89 Years.....	127	49	78	123	47	76	4	2	2	—	—	—
90 and Over.....	73	26	47	73	26	47	—	—	—	—	—	—
Not Stated.....	3	2	1	2	1	1	—	—	—	1	1	—
All Ages.....	4,566	3,211	1,355	4,008	2,804	1,204	521	378	143	37	29	8
Median Age at Death.....	34	30	46	34	29	49	33	35	27	*	*	*

* Not computed due to the small number of occurrences.

TABLE 2.14—Deaths from Selected Infective and Parasitic Diseases, Michigan Residents, 1972

ICDA LIST NO.	CAUSE	FREQUENCY
010-019	Tuberculosis	157
038	Septicemia	134
009	Diarrheal Disease	71
070	Infectious Hepatitis	54
065	Viral Encephalitis	12
036	Meningococcal Infections	10
093	Cardiovascular Syphilis	5
052	Chickenpox	4
094	Syphilis of Central Nervous System	3
097	Other and Unspecified Syphilis	3
075	Infectious Mononucleosis	2
044	Late Effects of Acute Poliomyelitis	2
054	Herpes, Simplex	1
037	Tetanus	1
034	Streptococcal Sore Throat and Scarlet Fever	1
	All Other	97
	TOTAL	557

Of particular importance is the fact that infants accounted for 8.8 percent of all infective and parasitic disease deaths while accounting for only 3.5 percent of all deaths. The median age at death for those dying due to infective and parasitic diseases is 59 years.

TABLE 2.12—Infant Deaths and Infant Mortality Rates, Michigan and United States Residents, 1962-1972

UNITED STATES		YEAR	MICHIGAN	
NO.	RATE		NO.	RATE
105,479	25.3	1962	4,367	23.9
103,390	25.2	1963	4,150	23.2
99,783	24.8	1964	4,043	23.1
92,866	24.7	1965	3,936	23.6
85,516	23.7	1966	3,751	22.6
79,028	22.4	1967	3,595	22.1
76,263	21.8	1968	3,438	21.6
74,100 Prov.	20.7	1969	3,356	20.2
73,700 Prov.	19.8	1970	3,492	20.3
68,200 Prov.	19.2	1971	3,157	19.5
60,200 Prov.	18.5	1972	2,801	19.1

TABLE 2.13—Infant Deaths by Cause of Death, Michigan Residents, 1972

ICDA LIST NO.	CAUSE	FREQUENCY
740-759	Congenital Anomalies	463
777	Immaturity Unqualified	316
776.9	Asphyxia of Newborn	301
470-474, 480-486	Influenza and Pneumonia	162
764-768 (.0-.3), 772	Birth Injuries	94
E800-E949	Accidents	84
Residual 000-136	Other Infective and Parasitic Diseases	38
550-553, 560	Hernia and Intestinal Obstruction	19
320	Meningitis	14
008, 009	Enteritis and Other Diarrheal Diseases	11
390-398, 402, 404, 410-429	Heart Disease	9
140-209	Malignant Neoplasms	6
E960-E978	Homicide	4
430-438	Cerebrovascular Disease	3
466	Acute Bronchitis and Bronchiocitis	3
210-239	Benign Neoplasms	3
490, 491	Chronic and Unqualified Bronchitis	3
531-533	Peptic Ulcer	3
571	Cirrhosis of Liver	2
580-584	Nephritis and Nephrosis	2
280-285	Anemias	1
250	Diabetes Mellitus	1
E980-E999	All Other External Causes	2
Residual 770-778	Other Diseases of Early Infancy	954
	All Other Diseases	303
	TOTAL	2801

SECTION III **MARRIAGE
& DIVORCE**

Marriage and Divorce

An Overview 1972

TOTAL MARRIAGES—1972	94,447
TOTAL DIVORCES AND ANNULMENTS—1972	35,934 ¹
MARRIAGE RATE—1972	21.0
DIVORCE RATE—1972	8.0
MEDIAN AGE OF THE BRIDE—1972	21
MEDIAN AGE OF THE GROOM—1972	23
MEDIAN DURATION OF MARRIAGES ENDING IN 1972	7 yrs

¹ Estimate: Divorces for Wayne County April-December 1972 not reported.

The number of marriages and divorces occurring annually in Michigan has increased considerably since 1900. This is to be expected given a concurrent increase in population. The smallest number of marriages and the smallest number of divorces and annulments recorded this century in Michigan were recorded in 1900. The number of marriages that year was 23,295 while divorces and annulments numbered 2,435. Of marriages, 93,392 were recorded in Michigan in 1969 (the greatest number recorded this century). There were an estimated 35,934 divorces and annulments in 1972.

Since 1900 there have been noticeable shifts in the marriage rate. The rate has varied from a low of 11.6 persons married per 1,000 population (1932) to a high of 27.7 (1920). The overall trend has been in the direction of an increasing rate over the last decade (Figure 3.1).

Changes in the divorce rate have not generally been as pronounced as those that have occurred with respect to the marriage rate. From 1962 to 1972 the rate of persons divorced per 1,000 population increased from 4.4 to 8.0. The divorce rate has varied from a low of 2.0 (1900-1901) to a high of 10.2 (1946).

RESIDENCE OF COUPLES MARRYING IN MICHIGAN

In general, most of the couples marrying in Michigan are residents of the state. This pattern has not changed markedly over the last decade (Table 3.2).

The data in Table 3.2 indicate that characteristics of marriages occurring in Michigan should be representative of marriage patterns for Michigan residents.

Examination of data in Table 3.3 reveals that more females marry at a younger age on the average than do males. More than twice the number of eligible females under 20 marry each year than do their eligible male counterparts. For ages 20 and over eligible males marry more frequently than their female counterparts.

ORDER OF MARRIAGE

The data in Tables 3.4 and 3.5 indicate that there is a trend toward younger first marriages by males, older first marriages by females, and a younger age for remarriages among both males and females.

TABLE 3.1—Marriages, Divorces and Annulments, Michigan and United States Occurrences, Selected Years, 1920-1972

YEAR	MICHIGAN				UNITED STATES	
	MARRIAGES	DIVORCES AND ANNULMENTS	MARRIAGE RATE	DIVORCE AND ANNULMENT RATE	MARRIAGE RATE	DIVORCE AND ANNULMENT RATE
1920	50,805	8,679	27.7	4.7	23.9	3.2
1930	29,482	10,639	12.2	4.4	18.3	3.2
1940	46,342	12,054	17.6	4.6	24.2	4.0
1950	58,180	15,979	18.3	5.0	22.1	5.1
1960	61,090	16,656	15.6	4.3	17.0	4.4
1961	63,320	16,219	16.0	4.1	16.9	4.5
1962	65,002	17,500	16.4	4.4	17.0	4.4
1963	68,160	17,479	17.0	4.4	17.5	4.5
1964	73,911	19,400	18.2	4.8	18.0	4.7
1965	81,247	20,305	19.8	5.0	18.6	4.9
1966	83,903	21,727	20.2	5.2	19.0	5.1
1967	84,363	23,620	19.6	5.9	19.5	5.3
1968	90,984	25,400	20.5	5.9	20.7	5.8
1969	93,392	28,347	20.8	6.5	21.2 Prov.	6.4 Prov.
1970	91,933	29,934	20.7	6.7	21.4 Prov.	7.0 Prov.
1971	92,134	31,790	20.5	7.1	21.2 Prov.	7.4 Prov.
1972	94,447	35,934 ¹	21.0	8.0	21.8 Prov.	8.0 Prov.

¹ Estimate

FIGURE 3.1—Marriage and Divorce Rates, Michigan Occurrences, 1900-1972

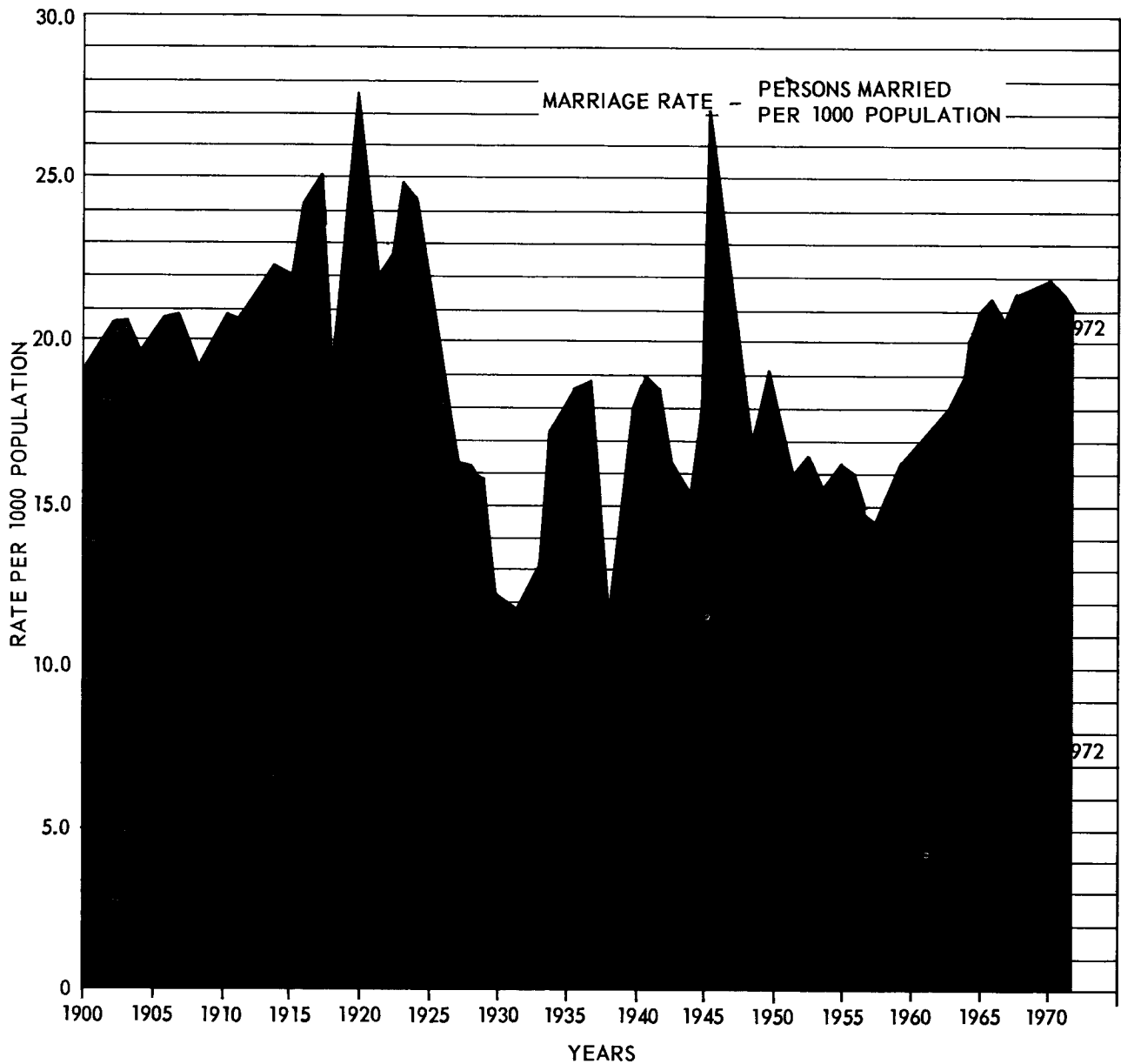


TABLE 3.2—Marriages by Residence Status of Bride and Groom, Michigan Occurrences, 1962 and 1972

RESIDENCE STATUS	1962		1972	
	NO.	PERCENT	NO.	PERCENT
Both Bride and Groom Residents.....	57,822	89.0	86,673	91.8
Bride Resident, Groom Non-Resident.....	2,615	4.0	3,493	3.7
Groom Resident, Bride Non-Resident.....	699	1.1	938	1.0
Both Bride and Groom Non-Residents.....	3,866	5.9	3,341	3.5
Residence Status, Not Stated.....	—	0	2	0.0
TOTAL.....	65,002	100.0	94,447	100.0

TABLE 3.3—Number of Marriages by Age and Sex, Michigan Occurrences, 1972

AGE	NUMBER OF MARRIAGES	
	MALE	FEMALE
Under 20*.....	16,501	34,439
20-24.....	42,220	35,098
25-34.....	21,184	13,839
35-44.....	6,563	5,162
45 and Over.....	7,977	5,901
Not Stated.....	2	8
TOTAL.....	94,447	94,447
Median Age.....	23	21

* 14 and Over

TABLE 3.4—Age at First Marriage and Remarriage: Bride,
Michigan Occurrences, 1962 and 1972

AGES	1962			1972		
	TOTAL	FIRST MARRIAGE	REMARRIAGE	TOTAL	FIRST MARRIAGE	REMARRIAGE
Under 20.....	25,764	25,377	345	34,439	33,948	429
Percent.....	39.6	51.3	2.2	36.5	47.6	2.3
20-24.....	21,606	19,317	2,283	35,098	30,771	4,079
Percent.....	33.2	39.0	14.8	37.2	43.1	22.3
25-29.....	5,214	2,737	2,476	9,407	4,615	4,158
Percent.....	8.0	5.5	16.0	10.0	6.5	22.7
30-34.....	3,067	925	2,142	4,432	1,048	2,692
Percent.....	4.7	1.9	13.9	4.7	1.5	14.7
35-44.....	4,632	786	3,843	5,162	620	3,198
Percent.....	7.1	1.6	24.9	5.5	0.9	17.5
45 and Over.....	4,706	348	4,357	5,901	367	3,761
Percent.....	7.2	0.7	28.2	6.2	0.5	20.5
Not Stated.....	13	9	4	8	4	4
Percent.....	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL.....	65,002	49,499	15,450	94,447	71,373	18,321
Percent.....	99.8	100.0	100.0	100.1	100.1	100.0

TABLE 3.5—Age at First Marriage and Remarriage: Groom,
Michigan Occurrences, 1962 and 1972

AGES	1962			1972		
	TOTAL	FIRST MARRIAGE	REMARRIAGE	TOTAL	FIRST MARRIAGE	REMARRIAGE
Under 20.....	10,476	10,409	43	34,439	32,336	1,876
Percent.....	16.1	20.9	0.3	36.5	46.1	9.6
20-24.....	28,292	27,084	1,190	35,098	29,888	4,643
Percent.....	43.5	54.5	7.8	37.2	42.6	23.7
25-29.....	9,723	7,431	2,292	9,407	5,000	3,728
Percent.....	15.0	14.9	15.0	10.0	7.1	19.0
30-34.....	4,617	2,439	2,178	4,432	1,379	2,402
Percent.....	7.1	4.9	14.3	4.7	2.0	12.3
35-44.....	5,454	1,579	3,874	5,162	926	3,175
Percent.....	8.4	3.2	25.4	5.5	1.3	16.2
45 and Over.....	6,431	764	5,660	5,901	588	3,765
Percent.....	9.9	1.5	37.1	6.2	0.8	19.2
Not Stated.....	9	5	4	8	3	4
Percent.....	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL.....	65,002	49,711	15,241	94,447	70,120	19,593
Percent.....	100.0	99.9	99.9	100.1	99.9	100.0

DIVORCES AND ANNULMENTS

The number of divorces in both Michigan and the United States has increased substantially over the last 10 years (Table 3.6).

The median duration of all marriages terminating in divorce in 1972 was 7 years. The increase in the percentage of marriages ending in divorce and lasting less than 10 years was 6.4 during this period (Table 3.6).

The number of children under 18 affected by divorce has increased considerably since 1962. While the percentage of divorces with no children present has actually decreased, the opposite is true for marital unions with children present (Table 3.7).

In 1962 cruelty was the primary grounds for divorce whereas in 1972 the majority of divorces were "no fault divorces."¹

1. Michigan's no fault divorce law went into effect January 1, 1972.

TABLE 3.6—Divorces and Annulments by Duration of Marriage, Michigan Occurrences, 1962 and 1972

DURATION IN YEARS	1962			1972		
	NO.	PERCENT	CUMULATIVE PERCENT	NO.	PERCENT	CUMULATIVE PERCENT
Under 1 Year.....	245	1.4	1.4	287	1.0	1.0
1-4.....	4,823	27.6	29.0	9,550	33.8	34.8
5-9.....	4,775	27.3	56.3	7,877	27.9	62.7
10-14.....	2,936	16.8	73.1	3,871	13.7	76.4
15-19.....	2,122	12.1	85.2	2,643	9.3	85.7
20-24.....	1,321	7.5	92.7	1,948	6.9	92.6
25-29.....	714	4.1	96.8	1,213	4.3	96.9
30-34.....	258	1.5	98.3	474	1.7	98.6
35-39.....	141	0.8	99.1	180	0.6	99.2
40-44.....	78	0.4	99.5	62	0.2	99.4
45-49.....	38	0.2	99.7	32	0.1	99.5
50 and Over.....	5	0.0	99.7	14	0.0	99.5
Not Stated.....	44	0.3	100.0	126	0.4	99.9
TOTAL.....	17,500	100.0	100.0	28,277 ¹	99.9	99.9
Median Duration.....	8			7		

¹ Actual divorces reported. Does not include divorces which occurred in Wayne County April-December 1972.

TABLE 3.7—Divorces and Annulments by Children Under 18 Present, Michigan Occurrences, 1962 and 1972

NUMBER OF CHILDREN	DIVORCES AND ANNULMENTS					
	ESTIMATED TOTAL CHILDREN (MINIMUM)		ESTIMATED TOTAL CHILDREN (MINIMUM)		PERCENTS	
	1962	1972	1962	1972	1962	1972
Zero.....	7,388	0	10,739	0	42.2	38.0
One.....	3,767	3,767	6,625	6,625	21.5	23.4
Two.....	3,110	6,220	5,516	11,032	17.8	19.5
Three.....	1,787	5,361	2,972	8,916	10.2	10.5
Four.....	882	3,528	1,404	5,616	5.0	5.0
Five or More.....	566	2,830	978	4,890	3.2	3.5
Not Stated.....	0		43		0.0	0.2
TOTAL.....	17,500	21,706	28,277 ¹	37,079	99.9	100.1

FIGURE 3.2—Divorces and Annulments by Legal Grounds, Michigan Occurrences, 1972

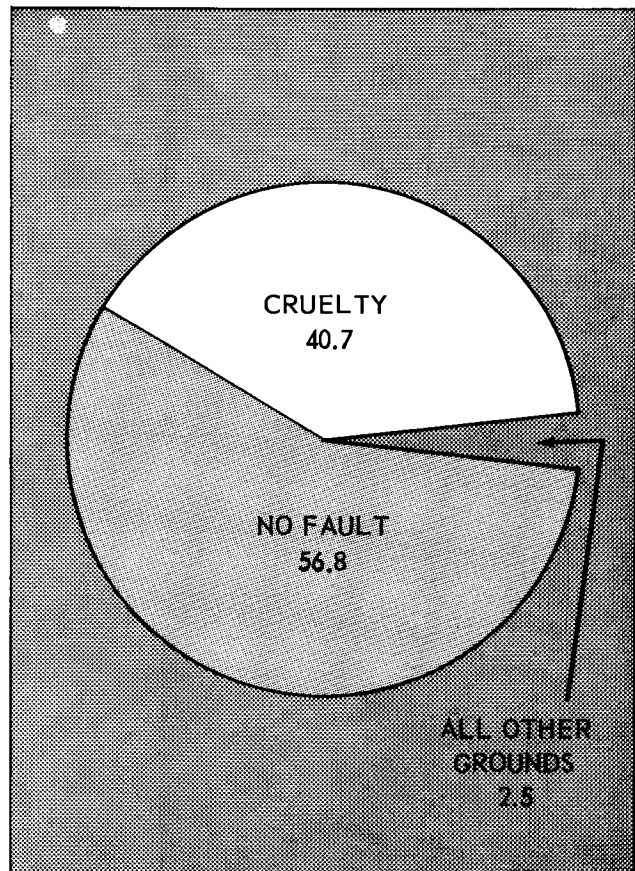


TABLE 3.8—Divorces and Annulments by Legal Grounds for Decree², Michigan Occurrences, 1962 and 1972

LEGAL GROUNDS	1962		1972	
	NO.	PERCENT	NO.	PERCENT
Cruelty.....	16,278	93.0	11,500	40.7
Desertion.....	668	3.8	110	0.4
Nonsupport.....	215	1.2	110	0.4
Fraud.....	157	0.9	138	0.5
Bigamy.....	31	0.2	13	0.0
Conviction of Crime.....	19	0.1	6	0.0
Adultery.....	7	0.0	1	0.0
Drunkenness.....	25	0.2	6	0.0
No Fault.....	—	—	16,052 ²	56.8
Other.....	19	0.1	89	0.3
Not Stated.....	81	0.5	252	0.9
TOTAL.....	17,500	100.0	28,277 ¹	100.0

¹ Actual divorces reported. Does not include divorces which occurred in Wayne County April-December 1972.

² Michigan's no fault divorce law went into effect January 1, 1972.

**SECTION IV REFERENCE
APPENDIX**

TABLE 4.1

POPULATION; LIVE BIRTHS - TOTAL AND ILLEGITIMATE; DEATHS - ALL AGES, INFANT, NEONATAL, PERINATAL,
FETAL, MATERNAL, AND DEATHS DUE TO IMMATURITY; MARRIAGES; AND DIVORCES
MICHIGAN, 1900 - 1972

(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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	1,412	2,874	198	44,385	18,356
1945	5,435,092	111,557	3,485	53,641	4,008	2,670	4,906	1,339	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	1,735	3,168	163	78,808	29,158
1947	6,069,000	160,275	4,311	56,807	5,055	3,677	6,583	1,953	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	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	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	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	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	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	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	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	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	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	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	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	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	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	1,003	2,735	78	63,320	16,219
1962	7,939,000	182,790	7,998	70,049	4,367	3,251	5,669	907	907	2,703	56	65,002	17,500
1963	8,030,000	178,871	8,769	72,438	4,150	3,109	5,407	816	816	2,540	71	68,160	17,479
1964	8,100,000	175,103	9,724	72,129	4,043	3,071	5,293	807	807	2,466	62	73,911	19,400
1965	8,199,283	166,464	10,888	73,665	3,936	2,909	5,139	768	768	2,475	54	81,247	20,305
1966	8,314,070	165,794	12,299	74,596	3,751	2,830	4,909	819	819	2,295	54	83,903	21,727
1967	8,615,000	162,756	13,403	75,360	3,595	2,714	4,693	718	718	2,195	52	84,363	23,620
1968	8,675,000	159,058	14,451	76,855	3,438	2,617	4,476	487	487	2,064	44	90,984	25,400
1969	8,734,000	165,760	16,329	76,693	3,356	2,550	4,488	459	459	2,175	27	93,392	28,347
1970	8,875,083	171,667	18,712	76,321	3,492	2,683	4,522	436	436	2,060	29	91,933	29,934
1971	8,996,000	162,244	19,098	77,395	3,157	2,412	4,139	386	386	1,923	32	92,134	31,790
1972	9,013,475	146,854	19,526	79,210	2,801	2,115	3,700	316	316	1,770	35	94,447	35,934

*1900 - 1960: United States Bureau of Census April 1 Census counts and July 1 estimates.

*1961 - 1964: University of Michigan Population Studies Center July 1 estimates.

*1965 - 1969: Michigan Center for Health Statistics July 1 estimate.

1970: United States Bureau of Census April 1 Census counts.

*1971 - 1972: United States Bureau of Census July 1 estimates.

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.

Beginning with the year 1968, the category of deaths due to immaturity is no longer considered for primary mortality coding unless it is the only cause of death entered on the certificate. Previously this category included immaturity unqualified plus immaturity with mention of any other subsidiary condition.

Estimate

Office of Planning and Evaluation
Michigan Department of Public Health

TABLE 4.2

LIVE BIRTH RATES - TOTAL AND ILLEGITIMATE; DEATH RATES - ALL AGES, INFANT, NEONATAL, PERINATAL,
MATERNAL AND DEATH RATES DUE TO IMMATURITY; FETAL DEATH RATIO; MARRIAGE AND DIVORCE RATES
MICHIGAN, 1900-1972

(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	LIVE BIRTHS		DEATHS							PERSONS		
	Total	Illegitimate	All Ages	Under 1 Yr	Under 28 Days	Perinatal	Due to Immaturity	Fetal	Maternal	Married	Divorced	
1900	18.1	7.6	13.4	157.1			14.2	30.3	103.4	19.2	2.0	
1901	17.6	8.4	13.3	146.2			12.1	34.7	122.9	19.6	2.0	
1902	18.2	8.4	12.6	130.6			13.3	39.4	102.8	20.5	2.3	
1903	18.1	10.6	13.1	141.0			11.8	39.4	92.8	20.5	2.3	
1904	18.4	11.8	13.4	135.1			13.3	40.2	91.8	19.3	2.2	
1905	18.0	9.5	13.3	150.2			16.0	43.5	88.6	20.1	2.2	
1906	22.1	18.6	14.0	135.7			14.2	40.2	68.3	20.7	2.4	
1907	21.9	17.6	13.6	117.0			14.5	39.9	66.2	20.7	2.3	
1908	23.7	13.7	13.5	118.8			15.1	41.6	67.9	18.9	2.2	
1909	23.2	16.6	13.1	115.7			17.9	39.5	63.0	19.7	2.5	
1910	22.8	16.4	14.2	124.8				32.0	39.9	67.2	20.7	2.6
1911	22.7	16.5	13.1	108.4				33.8	41.3	68.6	20.6	2.8
1912	23.3	17.6	13.0	100.4				33.6	41.8	56.9	21.3	2.6
1913	23.8	16.8	13.3	104.8				33.9	40.4	72.3	21.9	2.6
1914	24.3	15.5	12.7	96.8				31.1	40.6	66.0	22.4	2.8
1915	25.0	16.8	12.5	85.6				27.2	41.4	60.2	21.9	2.9
1916	26.2	15.5	13.8	96.7				28.7	42.4	57.8	24.1	3.3
1917	26.2	12.3	13.8	88.5				26.5	39.7	65.5	25.1	3.3
1918	26.1	12.5	15.6	89.8				25.9	40.4	77.7	19.0	3.1
1919	23.5	11.9	12.7	89.9				26.0	40.0	68.8	25.4	4.2
1920	25.1	15.7	14.2	93.1				27.2	40.9	86.2	27.7	4.7
1921	25.4	14.0	11.7	79.0				25.8	38.2	63.0	21.9	4.1
1922	23.1	13.1	11.2	74.7				19.9	42.0	61.2	22.3	3.9
1923	23.1	13.0	12.3	80.4				20.6	39.3	62.7	24.7	4.4
1924	23.7	14.7	11.4	72.2	41.9	66.7		20.1	37.7	64.8	24.1	4.5
1925	23.3	12.7	11.6	75.7	40.6	64.9		20.1	37.1	63.5	21.7	4.5
1926	22.5	17.0	12.4	77.5	41.2	66.3		20.2	38.8	64.2	18.7	4.5
1927	22.3	18.7	11.3	67.7	39.2	65.5		19.1	38.4	66.7	16.2	4.7
1928	21.2	19.0	11.9	69.8	38.4	65.2		18.9	38.0	61.9	16.2	4.6
1929	20.9	16.5	11.9	66.9	38.3	64.6		18.8	37.6	62.5	15.6	5.1
1930	20.4	16.2	10.6	62.8	36.6	63.5	18.3	37.6	60.4	12.2	4.4	
1931	18.5	18.0	10.1	57.3	34.1	60.2	16.3	35.6	59.5	11.8	3.9	
1932	17.3	19.9	10.1	54.3	32.8	59.0	16.1	35.0	57.8	11.6	3.2	
1933	16.2	25.4	9.8	50.9	32.2	58.9	16.9	34.5	55.5	13.3	3.1	
1934	16.8	25.3	10.1	52.1	32.4	55.2	16.9	31.1	53.6	17.3	4.0	
1935	17.3	25.1	10.1	47.7	29.2	53.6	15.9	31.1	50.1	17.9	4.3	
1936	17.4	24.4	10.8	50.6	29.9	51.9	15.8	29.7	48.0	18.5	4.5	
1937	17.8	24.4	10.4	47.8	29.5	52.2	15.5	29.6	35.6	18.7	4.9	
1938	18.7	24.0	9.8	44.5	28.2	50.0	15.3	28.2	35.6	11.6	4.1	
1939	18.1	23.5	10.0	41.8	27.5	48.5	14.8	27.2	29.6	14.5	4.4	
1940	18.9	23.0	9.9	40.6	26.5	46.7	13.1	26.3	29.5	17.6	4.6	
1941	19.8	22.0	9.7	38.8	25.0	45.3	12.6	25.8	27.7	18.8	4.9	
1942	22.4	20.4	9.5	37.1	24.9	43.9	12.7	24.7	21.0	18.6	5.1	
1943	23.3	20.5	10.6	38.3	23.7	43.2	11.9	25.6	18.9	16.5	5.7	
1944	21.1	27.4	10.0	38.1	24.5	44.1	12.4	25.3	17.4	15.5	6.8	
1945	20.5	31.2	9.9	35.9	23.9	42.9	12.0	24.2	14.9	17.8	7.8	
1946	24.3	28.2	9.6	32.8	24.0	42.2	12.5	22.9	11.8	27.6	10.2	
1947	26.4	26.9	9.4	31.5	22.9	40.2	12.2	21.4	10.8	23.5	7.1	
1948	24.8	28.0	9.1	30.0	21.8	38.0	11.8	20.4	7.8	20.0	5.2	
1949	24.6	25.3	9.0	28.9	20.7	36.0	11.5	19.1	6.7	16.7	5.1	
1950	25.1	27.6	9.0	26.3	19.0	35.4	6.8	19.3	5.7	18.3	5.0	
1951	26.3	25.3	9.0	26.1	19.1	34.7	7.1	18.3	5.5	16.3	4.7	
1952	26.5	25.4	8.8	26.4	19.2	34.6	7.1	18.1	4.6	15.1	4.4	
1953	26.7	26.1	9.1	25.8	18.5	33.2	6.1	17.4	4.3	15.6	4.8	
1954	27.3	29.2	8.6	25.0	18.5	32.8	6.8	16.9	4.9	14.6	4.6	
1955	27.1	30.0	8.7	24.8	18.9	32.0	6.5	15.4	3.1	15.4	4.9	
1956	27.4	31.5	8.6	24.5	18.4	31.8	6.0	15.7	4.1	15.2	4.3	
1957	26.7	32.6	8.5	24.4	18.6	31.5	6.3	15.1	3.8	14.1	4.0	
1958	25.8	33.6	8.4	24.6	18.7	31.7	6.0	15.3	3.4	14.0	3.6	
1959	24.9	33.9	8.4	24.4	18.5	31.1	6.1	14.8	3.6	14.8	4.1	
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	14.2	4.0	16.0	4.1	
1962	23.0	43.8	8.8	23.9	17.8	30.6	5.0	14.8	3.1	16.4	4.4	
1963	22.3	49.0	9.0	23.2	17.4	29.8	4.6	14.2	4.0	17.0	4.4	
1964	21.6	55.5	8.9	23.1	17.5	29.8	4.6	14.1	3.5	18.2	4.8	
1965	20.3	65.4	9.0	23.6	17.5	30.4	4.6	14.9	3.2	19.8	5.0	
1966	19.9	74.2	9.0	22.6	17.1	29.2	4.9	13.8	3.3	20.2	5.2	
1967	18.9	82.4	8.7	22.1	16.7	28.4	4.4	13.5	3.2	19.6	5.9	
1968	18.3	90.9	8.9	21.6	16.5	27.8	3.1	13.0	2.8	21.0	5.9	
1969	19.0	98.5	8.8	20.2	15.4	26.7	2.8	13.1	1.6	21.4	6.5	
1970	19.3	109.0	8.6	20.3	15.6	26.0	2.5	12.0	1.7	20.7	6.7	
1971	18.0	117.7	8.6	19.5	14.9	25.2	2.4	11.9	2.0	20.5	7.1	
1972	16.3	133.0	8.8	19.1	14.4	24.9	2.2	12.1	2.4	21.0	8.0	

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 4.3

REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES
MICHIGAN OCCURRENCES, 1900-1972

Year	Diphtheria	Streptococcal Sore Throat (Including Scarlet Fever)	Smallpox	Typhoid Fever	Whooping Cough	Measles	Hepatitis, Infectious and Serum	Tuberculosis (all forms)	Meningococcal Infections	Poliomyelitis	Syphilis	Gonorrhea	Chancroid
1900	2,706	6,734	694	5,122	3,375	20,356		2,721	654				
1901	2,498	7,726	5,088	3,002	2,955	4,629		2,915	506				
1902	2,993	6,582	7,086	2,456	3,534	11,978		2,658	528				
1903	3,670	5,353	6,341	2,840	4,172	8,941		2,745	525				
1904	3,510	4,088	5,753	3,028	1,779	10,386		2,928	448				
1905	2,159	2,286	2,985	2,774	1,196	6,061		2,590	577				
1906	3,648	3,066	1,240	3,163	1,364	7,403		2,653	533				
1907	2,935	2,514	1,712	1,953	872	12,139		2,699	575				
1908	2,658	3,087	2,306	2,656	1,248	4,775		2,705	487				
1909	3,109	5,153	1,533	2,694	1,054	9,047		3,423	457				
1910	3,433	6,501	3,319	3,361	1,136	13,934		4,415	522	104			
1911	3,762	5,177	898	2,660	1,897	9,639		5,254	478	68			
1912	3,294	4,533	1,127	2,847	1,255	2,834		1,958	88	78			
1913	5,505	4,140	1,995	2,253	929	9,185		1,920	165	56			
1914	5,149	3,769	1,527	2,167	1,822	11,356		2,566	205	49			
1915	4,386	3,402	1,094	1,956	2,258	4,438		3,648	107	95			
1916	5,625	6,932	1,581	2,513	1,837	12,143		7,076	163	598			
1917	8,499	14,322	3,674	1,723	3,211	14,472		4,856	75	91			
1918	6,128	5,944	5,241	1,339	2,563	6,726		3,655	95	121			
1919	7,896	6,269	2,381	1,254	1,829	8,885		4,231	75	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	28,391	4,607	3,838	253	40	3,309	9,505	102
1962	4	8,116	-	12	1,756	25,303	3,280	3,474	139	21	4,331	11,654	75
1963	5	11,964	-	14	1,410	48,752	2,661	3,298	104	18	5,512	11,043	98
1964	1	17,228	-	13	957	30,897	2,472	3,047	80	3	5,220	12,028	106
1965	-	14,622	-	7	612	28,132	2,625	3,069	107	1	5,638	14,319	95
1966	1	13,862	-	7	653	15,251	2,589	3,259	135	1	5,842	15,424	114
1967	1	13,269	-	8	1,058	1,048	1,915	2,951	76	3	5,581	17,088	78
1968	-	10,101	-	1	429	353	2,356	2,618	94	3	5,351	18,153	105
1969	-	9,763	-	6	192	401	3,359	2,133	114	1	3,809	18,534	103
1970	-	11,863	-	14	195	1,834	4,594	1,992	69	2	3,920	20,359	118
1971	1	11,244	-	10	140	2,659	4,828	1,789	64	-	4,800	22,260	93
1972	1	13,304	-	7	116	2,353	4,322	1,632	55	1	4,891	24,750	175

Note: Meningococcal infections - Prior to 1952 data were for meningococcal meningitis.
Tuberculosis, syphilis, gonorrhea and chancroid are resident cases.

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Michigan Department of Public Health

TABLE 4.4

CASE RATES OF CERTAIN REPORTED COMMUNICABLE DISEASES
MICHIGAN OCCURRENCES, 1900-1972

(Rates per 100,000 Population)

Year	Diphtheria	Streptococcal Sore Throat (Including Scarlet Fever)	Smallpox	Typhoid Fever	Whooping Cough	Measles	Infectious Hepatitis & Serum	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				
1911	129.9	178.8	31.0	91.8	65.5	332.8		181.4	16.5	3.7			
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	3.8	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	268.5	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
1962	0.1	102.2	0	0.2	22.1	318.7	41.3	43.8	1.8	0.3	54.6	146.8	0.9
1963	0.1	149.0	0	0.2	17.6	607.1	33.1	41.1	1.3	0.2	68.6	137.5	1.2
1964	0.0	212.7	0	0.2	11.8	381.4	30.5	37.6	1.0	0.0	64.4	148.5	1.3
1965	0	178.3	0	0.1	7.5	343.1	32.0	37.4	1.3	0.0	68.8	174.6	1.2
1966	0.0	166.7	0	0.1	7.9	183.4	31.1	39.2	1.6	0.0	70.3	185.5	1.4
1967	0.0	154.0	0	0.1	12.3	12.2	22.2	34.2	0.9	0.0	64.8	198.4	0.9
1968	0	116.4	0	0.0	4.9	4.1	27.2	30.2	1.1	0.0	61.7	209.3	1.2
1969	0	111.8	0	0.1	2.2	4.6	38.5	24.4	1.3	0.0	43.6	212.2	1.2
1970	0	133.7	0	0.2	2.2	20.7	51.8	22.4	0.8	0.0	44.2	229.4	1.3
1971	0.0	125.0	0	0.1	1.6	29.6	53.7	19.9	0.7	0	53.4	247.4	1.0
1972	0.0	147.6	0	0.1	1.3	26.1	48.0	18.1	0.6	0.0	54.3	274.6	1.9

Note: Meningococcal infections - Prior to 1952 data were for meningococcal meningitis.
Tuberculosis, syphilis, gonorrhea and chancroid are resident rates.

Office of Planning and Evaluation
Michigan Department of Public Health

TABLE 4.5
 NUMBER OF DEATHS AND DEATH RATES FOR CERTAIN COMMUNICABLE DISEASES
 MICHIGAN RESIDENTS, 1900-1972
 (Rates per 100,000 Population)

Year	Diphtheria		Strep. Sore Throat Incl. Scarlet Fever		Smallpox		Typhoid Fever		Whooping Cough		Measles		TB 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	14	0.4
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	6	0.2
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
1962	2	0.0	1	0.0	-	0	-	0	2	0.0	8	0.1	307	3.9	331	4.2	2	0.0	94	1.2	3	0.0
1963	-	0	-	0	-	0	-	0	-	0	27	0.2	276	3.4	299	3.7	1	0.0	72	0.9	1	0.0
1964	-	0	-	0	-	0	-	0	2	0.0	11	0.1	288	3.6	315	3.9	1	0.0	66	0.8	3	0.0
1965	-	0	-	0	-	0	-	0	-	0	5	0.1										

TABLE 4.6
 NUMBER OF DEATHS AND DEATH RATES BY SPECIFIED CAUSES
 MICHIGAN RESIDENTS, 1900-1972
 (Rates per 100,000 Population)

Year	Heart Disease		Cancer (all forms)		Vascular Lesions Affecting Central Nervous System ¹		Accidents (all forms) ²		Motor Vehicle Accidents		Diabetes		Pneumonia ³		Immaturity		General Arteriosclerosis ⁴	
	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	4,238	127.0	2,362	67.5		
1919	6,551	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	1,229	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	1,612	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	2,826	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	1,268	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
1962	27,226	342.9	11,752	148.0	7,783	98.0	3,758	47.3	1,668	21.0	1,908	24.0	1,824	23.0	907	11.4	1,477	18.6
1963	27,483	342.3	12,078	150.4	8,168	101.7	4,033	50.2	2,005	25.0	2,049	25.5	1,995	24.8	816	10.2	1,652	20.6
1964	27,496	339.5	12,087	149.2	7,940	98.0	4,416	54.5	2,286	28.2	2,055	25.4	1,714	21.2	807	10.0	1,559	19.2
1965	28,134	343.1	12,419	151.5	7,769	94.8	4,494	54.8	2,271	27.7	2,153	26.3	1,987	24.2	768	9.4	1,726	21.1
1966	28,277	340.1	12,506	150.4	7,732	93.0	4,737	57.0	2,407	29.0	2,243	27.0	2,026	24.4	819	9.9</		

TABLE 4.7
SELECTED VITAL STATISTICS BY COUNTY
MICHIGAN RESIDENTS, 1972

Area	Population Estimates	Live Births	Illegitimate Live Births	Low Weight Live Births	Deaths	Infant Deaths	Neonatal Deaths	Perinatal Deaths	Fetal Deaths	Marriages ¹	Divorces ¹
STATE	9,013,475	146,854	19,526	11,405	79,210	2,801	2,115	3,700	1,770	96,447	35,934
Alcona	8,100	109	5	9	120	3	3	5	2	72	20
Alger	8,100	120	12	6	93	2	1	2	1	88	0
Allegan	69,400	1,155	68	62	674	18	9	25	16	697	257
Alpena	32,400	490	31	27	296	10	8	12	4	360	109
Antrim	14,400	203	22	13	164	3	1	5	4	156	62
Arenac	11,700	199	15	13	157	4	2	5	3	122	35
Baraga	8,100	127	12	7	107	4	4	6	2	92	18
Barry	39,700	637	34	43	367	7	6	15	9	393	152
Bay	118,100	1,953	154	114	1,034	26	20	43	23	1,305	441
Benzie	9,000	115	8	10	115	1	1	1	0	152	36
Berrien	166,700	3,002	559	267	1,650	78	61	93	36	2,294	798
Branch	38,800	628	62	43	383	7	7	12	5	446	143
Calhoun	140,600	2,401	347	177	1,381	45	41	77	39	1,666	768
Cass	43,300	640	73	37	420	4	2	6	4	537	179
Charlevoix	17,100	267	28	20	187	3	2	3	1	180	70
Cheboygan	18,000	302	22	19	211	5	3	6	3	202	53
Chippewa	35,200	703	49	35	318	5	5	9	4	419	108
Clare	18,000	259	28	14	214	3	3	5	2	204	74
Clinton	48,700	778	40	47	328	11	8	10	3	405	155
Crawford	7,200	110	13	7	68	1	0	2	2	86	30
Delta	37,000	642	44	40	426	13	12	17	6	450	108
Dickinson	23,400	293	19	14	346	3	2	8	6	294	83
Eaton	73,000	1,080	62	79	528	23	18	32	14	665	304
Emmet	19,800	260	22	18	226	6	5	7	2	224	87
Genesee	450,700	8,117	1,295	652	3,219	160	127	220	105	4,966	2,375
Gladwin	14,400	202	9	13	188	5	5	6	2	163	51
Gogebic	20,700	250	16	12	344	6	3	7	4	368	37
Grand Traverse	42,400	663	54	37	392	11	7	12	5	541	192
Gratiot	40,600	697	44	38	354	9	8	15	7	464	139
Hillsdale	38,800	634	36	39	373	13	11	16	7	430	0
Houghton	37,000	514	24	30	518	6	5	9	4	346	64
Huron	36,100	551	37	40	404	10	9	16	8	327	76
Ingham	265,000	4,581	487	321	1,744	76	61	107	53	3,294	1,465
Ionia	47,800	841	50	47	459	14	6	13	8	520	148
Iosco	27,000	573	16	32	240	12	11	17	7	289	67
Iron	13,500	136	11	8	237	3	3	4	1	171	40
Isabella	46,900	645	37	38	298	8	5	12	8	463	123
Jackson	143,300	2,229	212	153	1,358	46	27	52	32	1,633	760
Kalamazoo	201,900	2,988	307	228	1,468	61	43	63	23	2,304	1,040
Kalamazoo	6,300	119	13	7	95	1	0	0	0	78	20
Kent	412,800	6,572	720	478	3,636	127	104	155	61	4,956	1,686
Keeweenaw	2,700	28	1	2	38	0	0	0	0	32	5
Lake	6,300	91	20	4	105	4	4	4	1	73	23
Lapeer	55,900	937	41	56	429	20	12	27	15	590	190
Leelanau	10,800	161	11	7	154	0	0	0	0	95	25
Lenawee	82,900	1,447	105	76	794	25	19	41	22	1,020	297
Livingston	64,900	987	55	65	521	22	17	26	15	579	269
Luce	7,200	96	17	7	84	1	1	2	1	88	33
Mackinac	10,800	152	16	9	113	4	3	6	3	110	29
Macomb	640,900	9,731	509	680	3,851	166	134	224	101	5,998	2,458
Manistee	20,700	296	26	14	271	5	3	6	4	209	58
Marquette	68,500	1,218	64	57	586	18	11	21	10	726	224
Mason	24,300	330	34	18	273	8	6	8	3	291	86
Mecosta	30,600	479	27	23	275	8	4	9	5	305	61
Menominee	25,200	315	15	19	298	3	3	6	4	450	44
Midland	65,800	1,096	62	63	405	14	11	15	5	666	253
Missaukee	8,100	106	12	5	77	2	1	4	3	88	20
Monroe	122,600	2,079	133	128	962	33	24	48	25	2,562	403
Montcalm	41,500	779	63	47	466	10	5	9	4	478	160
Montmorency	5,400	94	8	6	79	1	1	2	1	67	22
Muskegon	158,600	2,555	440	175	1,339	49	33	70	40	1,700	725
Newaygo	28,800	438	36	29	296	10	9	13	6	340	71
Oakland	926,600	13,564	1,125	939	6,486	207	160	281	133	8,760	4,028
Oceana	18,900	348	24	19	196	9	8	12	5	206	65
Ogemaw	12,600	182	11	11	166	4	4	4	0	167	42
Ontonagon	10,800	161	8	7	129	0	0	3	3	107	16
Osceola	16,200	300	20	16	193	5	3	5	2	173	0
Oscoda	5,400	68	3	3	88	2	1	1	1	51	23
Otsego	10,800	207	14	14	107	4	1	4	3	122	35
Ottawa	131,600	2,057	81	100	932	26	19	40	22	1,250	325
Presque Isle	13,500	206	9	18	137	2	2	4	2	155	34
Roscommon	11,700	131	19	7	160	1	1	3	2	144	49
Saginaw	225,300	4,034	700	332	1,845	85	66	106	46	2,386	758
St. Clair	126,200	2,165	196	155	1,274	36	32	61	33	1,356	463
St. Joseph	48,700	893	74	36	555	17	10	20	10	602	223
Sanilac	37,000	605	32	26	432	11	11	13	3	350	74
Schoolcraft	8,100	146	8	7	109	3	3	3	0	100	29
Shiawassee	66,700	1,215	79	78	532	12	10	12	4	693	249
Tuscola	50,500	901	61	62	473	17	13	16	5	495	149
Van Buren	59,500	1,057	119	74	617	13	7	18	12	604	200
Washtenaw	238,900	3,747	313	254	1,340	57	38	65	32	2,580	1,197
Wayne	2,640,000	44,334	9,803	4,440	26,616	1,027	762	1,351	654	24,575	10,055
Wexford	20,700	333	29	23	264	6	4	7	4	282	82
County Not Stated	-	-	-	-	2	-	-	-	-	-	-

¹ By County of Occurrence rather than county of residence

² Estimate

TABLE 4.8
SELECTED VITAL STATISTICS RATES BY COUNTY
MICHIGAN RESIDENTS, 1972

Area	Live Births	Illegitimate Live Births ³	Low Weight Live Births ³	Deaths	Infant Deaths	Neonatal Deaths	Perinatal Deaths	Fetal Deaths ³	Marriages ¹	Divorces ¹
STATE	16.3	133.0	77.7	8.8	19.1	14.4	24.9	11.9	21.0	8.0
Alcona	13.5	45.9	82.6	14.8	27.5	27.5	45.0	18.0	17.8	4.9
Alger	14.8	100.0	50.0	11.5	16.7	8.3	16.5	8.3	21.7	0.0
Allegan	16.6	58.9	53.7	9.7	15.6	7.8	21.3	13.7	20.1	7.4
Alpena	15.1	75.5	55.1	9.1	20.4	16.3	24.3	8.1	22.2	6.7
Antrim	14.1	108.4	64.0	11.4	14.8	4.9	24.2	19.3	21.7	8.6
Arenac	17.0	75.4	65.3	13.4	20.1	10.1	24.8	14.9	20.9	6.0
Baraga	15.7	94.5	55.1	13.2	31.5	31.5	46.5	15.5	22.7	4.4
Barry	16.0	53.4	67.5	9.2	11.0	9.4	23.2	13.9	19.8	7.7
Bay	16.5	78.9	58.4	8.8	13.3	8.8	21.8	11.6	22.1	7.5
Benzie	12.8	69.6	87.0	12.8	8.7	8.7	8.7	0.0	33.8	8.0
Berrien	18.0	186.2	88.9	9.9	26.0	20.3	30.6	11.8	27.5	9.6
Branch	16.2	98.7	68.5	9.9	11.1	11.1	19.0	7.9	23.0	7.4
Calhoun	17.1	144.5	73.7	9.8	18.7	17.1	31.6	16.0	23.7	10.9
Cass	14.8	114.1	57.8	9.7	6.3	3.1	9.3	6.2	24.8	8.3
Charlevoix	15.6	104.9	74.9	10.9	11.2	7.5	11.2	3.7	21.1	8.2
Cheboygan	16.8	72.8	62.9	11.7	16.6	9.9	19.7	9.8	22.4	5.9
Chippewa	20.0	69.7	49.8	9.0	8.5	7.1	12.7	5.7	23.8	6.1
Clare	14.4	108.1	54.1	11.9	11.6	11.6	19.2	7.7	22.7	8.2
Clinton	16.0	51.4	60.4	6.7	14.1	10.3	12.8	3.8	16.6	6.4
Crawford	15.3	118.2	63.6	9.4	9.1	0.0	17.9	17.9	23.9	8.3
Delta	17.4	68.5	62.3	11.5	20.2	18.7	26.2	9.3	24.3	5.8
Dickinson	12.5	64.8	47.8	14.8	10.2	6.8	26.8	20.1	25.1	7.1
Easton	14.8	57.4	73.1	7.2	21.3	16.7	29.3	12.8	18.2	8.3
Emmet	13.1	84.6	69.2	11.4	23.1	19.2	26.7	7.6	22.6	8.8
Genesee	18.0	159.5	80.3	7.1	19.7	15.6	26.8	12.8	22.0	10.5
Gladwin	14.0	44.6	64.4	13.1	24.8	24.8	29.4	9.8	22.6	7.1
Gogebic	12.1	64.0	48.0	16.6	24.0	12.0	27.6	15.7	35.6	3.6
Grand Traverse	15.6	81.4	55.8	9.2	16.6	10.6	18.0	7.5	25.5	9.1
Gratiot	17.2	63.1	54.5	8.7	12.9	11.5	21.3	9.9	22.9	6.8
Hillsdale	16.3	56.8	61.5	9.6	20.5	17.4	25.0	10.9	22.2	0.0
Houghton	13.9	46.7	58.4	14.0	11.7	9.7	17.4	7.7	18.7	3.5
Huron	15.3	67.2	72.6	11.2	18.1	16.3	28.6	14.3	18.1	4.2
Ingham	17.3	106.3	70.1	6.6	16.6	13.3	23.1	11.4	24.9	11.1
Ionia	17.6	59.5	55.9	9.6	16.6	7.1	15.3	9.4	21.8	6.2
Iosco	21.2	27.9	55.8	8.9	20.9	19.2	29.3	12.1	21.4	5.0
Iron	10.1	80.9	58.8	17.6	22.1	22.1	29.2	7.3	25.3	5.9
Isabella	13.8	57.4	58.9	6.4	12.4	7.8	18.4	12.3	19.7	5.2
Jackson	15.6	95.1	68.6	9.5	20.6	12.1	23.0	14.2	22.8	10.6
Kalamazoo	14.8	102.7	76.3	7.3	20.4	14.4	20.9	7.6	22.8	10.3
Kalkaska	18.9	109.2	58.8	15.1	8.4	0.0	0.0	0.0	24.8	9.2
Kent	15.9	109.6	72.7	8.8	19.3	15.8	23.4	9.2	24.0	8.2
Keweenaw	10.4	35.7	71.4	14.1	0.0	0.0	0.0	0.0	23.7	3.7
Lake	14.4	219.8	44.0	16.7	44.0	44.0	43.5	10.9	23.2	7.3
Lapeer	16.8	43.8	59.8	7.7	21.3	12.8	28.4	15.8	21.1	6.8
Leelanau	14.9	68.3	43.5	14.3	0.0	0.0	0.0	0.0	17.6	4.6
Lenawee	17.5	72.6	52.5	9.6	17.3	13.1	27.9	15.0	24.6	7.2
Livingston	15.2	55.7	65.9	8.0	22.3	17.2	25.9	15.0	17.8	8.3
Luce	13.3	177.1	72.9	11.7	10.4	10.4	20.6	10.3	24.4	9.2
MacKinac	14.1	105.3	59.2	10.5	26.3	19.7	38.7	19.4	20.4	5.4
Macomb	15.2	52.3	69.9	6.0	17.1	13.8	22.8	10.3	18.7	7.7
Manistee	14.3	87.8	47.3	13.1	16.9	10.1	20.0	13.3	20.2	5.6
Marquette	17.8	52.5	46.8	8.6	14.8	9.0	17.1	8.1	21.2	6.5
Mason	13.6	103.0	54.5	11.2	24.2	18.2	24.0	9.0	24.0	7.1
Mecosta	15.7	56.4	48.0	9.0	16.7	8.4	18.6	10.3	19.9	4.0
Menominee	12.5	47.6	60.3	11.8	9.5	9.5	18.8	12.5	35.7	3.5
Midland	16.7	56.6	57.5	6.2	12.8	10.0	13.6	4.5	20.2	7.7
Missaukee	13.1	113.2	47.2	9.5	18.9	9.4	36.7	27.5	21.7	4.9
Monroe	17.0	64.0	61.6	7.8	15.9	11.5	22.8	11.9	41.8	6.6
Montcalm	18.8	80.9	60.3	11.2	12.8	6.4	11.5	5.1	23.0	7.7
Montmorency	17.4	85.1	63.8	14.6	10.6	10.6	21.1	10.5	24.8	8.1
Muskegon	16.1	172.2	68.5	8.4	19.2	12.9	27.0	15.4	21.4	9.1
Newaygo	15.2	82.2	66.2	10.3	22.8	20.5	29.3	13.5	23.6	4.9
Oakland	14.6	82.9	69.2	7.0	15.3	11.8	20.5	9.7	18.9	8.7
Oceana	18.4	69.0	54.6	10.4	25.9	23.0	34.0	14.2	21.8	6.9
Ogemaw	14.4	60.4	60.4	13.2	22.0	22.0	22.0	0.0	26.5	6.7
Ontonagon	14.9	49.7	43.5	11.9	0.0	0.0	18.3	18.3	19.8	3.0
Osceola	18.5	66.7	53.3	11.9	16.7	10.0	16.6	6.6	21.4	0.0
Oscoda	12.6	44.1	44.1	16.3	29.4	14.7	14.5	14.5	18.9	8.5
Otsego	19.2	67.6	67.6	9.9	19.3	4.8	19.0	14.3	22.6	6.5
Ottawa	15.6	39.4	48.6	7.1	12.6	9.2	19.2	10.6	19.0	4.9
Presque Isle	15.3	43.7	87.4	10.1	9.7	9.7	19.2	9.6	23.0	5.0
Roscommon	11.2	145.0	53.4	13.7	7.6	7.6	22.6	15.0	24.6	8.4
Saginaw	17.9	173.5	82.3	8.2	21.1	16.4	26.0	11.3	21.2	6.7
St. Clair	17.2	90.5	71.6	10.1	16.6	14.8	27.8	15.0	21.5	7.3
St. Joseph	18.3	82.9	40.3	11.4	19.0	11.2	22.1	11.1	24.7	9.2
Sanilac	16.4	52.9	43.0	11.7	18.2	18.2	21.4	4.9	18.9	4.0
Schoolcraft	18.0	54.8	47.9	13.5	20.5	20.5	20.5	0.0	24.7	7.2
Shiawassee	18.2	65.0	64.2	8.0	9.9	8.2	9.8	3.3	20.8	7.5
Tuscola	17.8	67.7	68.8	9.4	18.9	14.4	17.7	5.5	19.6	5.9
Van Buren	17.8	112.6	70.0	10.4	12.3	6.6	16.8	11.2	20.3	6.7
Washtenaw	15.7	83.5	67.8	5.6	15.2	10.1	17.2	8.5	21.6	10.0
Wayne	16.8	221.1	100.1	10.1	23.2	17.2	30.0	14.5	18.6	7.6
Wexford	16.1	87.1	69.1	12.8	18.0	12.0	20.8	11.9	27.2	7.9

1 - By county of occurrence rather than county of residence
2 - Rate of persons per population rather than events per population
3 - Ratio per 1,000 live births

TABLE 4.9
VITAL STATISTICS BY SELECTED CITIES*
MICHIGAN RESIDENTS, 1972

Area	Live Births by Residence	Illegitimate Live Births by Residence		Deaths by Residence	Infant Deaths by Residence		Fetal Deaths by Residence	
	Number	Number	Rate	Number	Number	Rate	Number	Rate
Allen Park	368	17	46.2	286	4	10.9	3	8.2
Ann Arbor	1,469	94	64.0	503	21	14.3	10	6.8
Battle Creek	902	224	248.3	599	18	20.0	20	22.2
Bay City	861	100	116.1	596	12	13.9	10	11.6
Birmingham	387	17	43.9	301	6	15.5	3	7.8
Dearborn	983	55	56.0	1,034	6	6.1	12	12.2
Dearborn Heights	914	38	41.6	505	21	23.0	9	9.8
Detroit	27,050	8,456	312.6	18,045	741	27.4	458	16.9
East Detroit	471	26	55.2	351	10	21.2	1	2.1
East Lansing	500	21	42.0	128	11	22.0	2	4.0
Ferndale	547	67	122.5	336	5	9.1	7	12.8
Flint	4,077	993	243.6	1,617	87	21.3	60	14.7
Garden City	511	26	50.9	200	3	5.9	8	15.7
Grand Rapids	3,155	554	175.6	2,182	74	23.5	35	11.1
Hamtramck	391	39	99.7	497	10	25.6	4	10.2
Highland Park	600	219	365.0	446	22	36.7	14	23.3
Holland (Pt)	399	32	80.2	250	4	10.0	3	7.5
Inkster	819	188	229.5	305	15	18.3	17	20.8
Jackson	837	127	151.7	613	20	23.9	14	16.7
Kalamazoo	1,487	233	156.7	732	25	16.8	12	8.1
Lansing	2,841	413	145.4	1,113	46	16.2	31	10.9
Lincoln Park	738	56	75.9	345	11	14.9	7	9.5
Livonia	1,152	36	31.3	534	14	12.2	7	6.1
Madison Heights	630	30	47.6	185	12	19.0	10	15.9
Midland	592	41	69.3	190	8	13.5	4	6.8
Muskegon	921	194	210.6	579	21	22.8	16	17.4
Oak Park	420	11	26.2	307	4	9.5	3	7.1
Pontiac	2,349	530	225.6	884	51	21.7	30	12.8
Portage	430	18	41.9	143	11	25.6	6	14.0
Port Huron	718	96	133.7	427	4	5.6	10	13.9
Roseville	947	50	52.8	316	21	22.2	0	0.0
Royal Oak	1,101	26	23.6	619	11	10.0	7	6.4
Saginaw	2,081	538	258.5	993	54	25.9	20	9.6
St. Clair Shores	938	52	55.4	602	9	9.6	0	0.0
Southfield	663	25	37.7	546	11	16.6	9	13.6
Southgate	511	24	47.0	191	3	5.9	6	11.7
Sterling Heights	1,302	31	23.8	271	22	16.9	0	0.0
Taylor	1,749	102	58.3	373	35	20.0	14	8.0
Troy	704	17	24.1	217	7	9.9	4	5.7
Warren	2,334	137	58.7	957	42	18.0	0	0.0
Westland	1,790	78	43.6	408	31	17.3	17	9.5
Wyandotte	626	40	63.9	356	5	8.0	8	12.8
Wyoming	868	51	58.8	361	10	11.5	7	8.1
Ypsilanti	815	58	71.2	156	7	8.6	4	4.9

*25,000 population or over

TABLE 4.10
SELECTED CAUSES OF DEATH BY COUNTY
MICHIGAN RESIDENTS, 1972

Area	All Causes	Diseases of the Heart	Malignant Neoplasms	Cerebrovascular Disease	Accidents, All Forms	Motor Vehicle Accidents	Diabetes Mellitus	Influenza & Pneumonia	Arteriosclerosis	Tuberculosis, All Forms	All Other Infective & Parasitic Diseases	Cirrhosis of Liver	Nephritis & Nephrosis	Infections of Kidney	Maternal Deaths, All Forms	Suicide and Self-inflicted Injury	Homicide and Injury by Other Persons, Not in War	Residual
STATE	79,210	30,865	14,045	7,999	4,566	2,450	2,222	2,201	1,153	157	307	1,778	332	243	35	1,044	1,103	11,160
Alcona	120	43	26	16	6	4	2	1	-	1	1	2	-	1	-	-	-	21
Alger	93	26	22	12	2	-	9	4	3	-	-	2	1	-	-	-	-	10
Allegan	674	239	108	72	53	35	28	25	19	2	1	10	2	3	-	12	2	98
Alpena	296	108	60	30	32	18	13	5	5	-	-	1	1	-	-	4	-	36
Antrim	164	75	27	18	8	4	6	3	4	-	-	1	-	-	-	-	-	22
Arenac	157	61	32	18	8	3	4	1	4	-	-	4	-	-	-	-	-	24
Baraga	107	30	20	14	5	3	2	8	1	-	1	3	1	-	-	-	-	21
Barry	367	143	71	42	26	13	8	4	12	-	1	2	-	-	-	2	-	55
Bay	1,034	419	179	133	57	30	27	20	10	2	6	18	3	5	-	13	7	135
Benzie	115	53	20	14	1	1	1	8	-	1	-	2	-	1	-	-	-	14
Berrien	1,650	656	273	172	121	62	35	32	42	2	4	27	5	5	-	21	12	243
Branch	383	140	59	59	24	13	13	11	8	1	3	8	1	2	-	4	2	48
Calhoun	1,381	534	256	144	71	37	45	40	15	3	5	28	4	1	-	19	11	205
Cass	420	154	75	41	52	35	-	7	18	-	1	10	2	2	-	6	5	47
Charlevoix	187	83	27	24	8	5	5	6	4	-	1	1	2	1	-	1	1	23
Cheboygan	211	95	29	17	15	6	3	7	4	-	-	3	2	1	-	2	1	32
Chippewa	318	126	52	40	17	10	10	14	5	-	1	4	2	-	-	7	2	38
Clare	214	102	39	18	15	7	6	6	4	-	-	2	1	-	-	1	6	20
Clinton	328	134	68	32	16	9	9	10	12	-	1	3	-	-	-	3	2	38
Crawford	68	22	16	13	5	3	1	-	-	-	-	3	-	-	-	-	-	8
Delta	426	162	66	51	39	21	12	22	7	-	2	7	2	-	-	-	1	53
Dickinson	346	129	56	44	16	8	10	10	23	-	-	10	2	1	-	1	-	44
Eaton	528	204	86	41	44	25	22	13	17	1	1	5	1	8	2	4	-	79
Emmet	226	105	41	22	13	5	4	6	6	-	2	1	1	1	-	1	-	23
Genesee	3,219	1,272	594	301	211	115	76	70	50	-	14	59	14	6	2	54	54	442
Gladwin	188	86	30	20	13	6	3	6	6	-	-	4	-	-	-	1	-	19
Gogebic	344	159	53	30	21	11	15	8	6	-	-	5	1	-	-	7	-	38
Grand Traverse	392	132	65	58	31	15	8	11	10	-	1	8	3	-	-	6	2	55
Grafton	354	115	64	61	21	9	8	11	7	-	-	1	2	-	-	2	1	59
Hillsdale	373	147	46	36	32	19	15	21	7	-	2	-	3	2	-	1	-	61
Houghton	518	235	85	58	21	7	12	12	5	2	-	8	4	3	-	5	-	68
Huron	404	161	55	69	31	21	11	11	9	2	1	3	1	2	-	6	-	42
Ingham	1,744	678	312	140	96	45	41	35	32	5	7	34	14	2	1	31	14	302
Ionia	459	183	75	52	35	17	9	18	12	1	1	8	1	2	-	3	1	58
Iosco	240	87	46	17	11	7	4	4	8	-	2	5	3	2	-	-	-	51
Iron	237	69	48	45	11	5	10	5	2	-	1	6	-	1	1	4	-	34
Isabella	298	123	44	40	27	16	12	3	10	1	1	1	1	1	1	4	1	30
Jackson	1,358	550	229	130	86	51	44	27	27	3	3	31	2	5	-	25	11	185
Kalamazoo	1,468	574	239	144	84	49	53	38	33	3	3	16	2	3	-	23	12	243
Kalkaska	95	28	18	11	15	3	5	3	2	-	-	1	-	-	-	-	-	11
Kent	3,636	1,397	597	422	194	104	75	120	85	5	13	54	7	17	2	40	17	591
Keweenaw	38	27	3	3	1	1	2	1	-	-	-	-	-	-	-	-	-	1
Lake	105	40	21	12	11	6	2	4	2	-	1	-	1	-	-	-	-	10
Lapeer	429	176	64	46	34	21	13	10	8	-	2	3	4	-	1	6	2	60
Leelanau	154	64	24	20	9	4	6	4	4	1	1	3	-	-	-	2	-	16
Lenawee	794	263	162	89	65	39	23	21	24	1	4	12	1	2	-	4	2	121
Livingston	521	190	89	43	48	29	13	16	11	2	5	5	5	1	-	7	2	84
Luce	84	32	19	4	13	5	3	-	-	-	-	1	-	-	-	1	-	11
Mackinac	113	39	14	14	16	13	3	4	1	-	-	3	-	-	-	-	-	17
Macomb	3,851	1,509	773	310	207	125	107	105	31	7	12	113	23	6	2	52	31	563
Manistee	271	134	44	19	15	12	9	6	9	1	1	1	1	-	-	2	2	26
Marquette	586	305	88	49	38	24	11	3	8	-	-	8	2	2	-	3	1	68
Mason	273	120	43	24	20	17	7	11	7	-	1	3	1	-	-	1	-	35
Mecosta	275	119	49	20	14	7	8	5	6	-	-	3	2	-	-	5	-	44
Menominee	298	131	44	38	16	5	6	5	4	1	1	3	3	2	-	5	2	37
Midland	405	138	79	39	36	22	8	5	6	1	-	6	1	-	-	7	1	72
Missaukee	77	23	11	13	5	3	4	3	4	-	1	-	-	-	-	1	-	11
Monroe	962	363	179	113	81	46	21	33	6	2	3	14	2	3	-	6	6	130
Montcalm	466	175	77	61	25	15	10	16	12	1	1	5	1	5	2	5	1	69
Montmorency	79	42	16	11	2	2	1	-	-	-	-	1	-	-	-	1	-	5
Muskegon	1,339	485	236	180	71	40	30	44	28	3	3	19	5	5	1	21	7	201
Newaygo	296	107	51	31	13	9	10	7	9	-	-	3	1	1	-	5	2	56
Oakland	6,486	2,492	1,301	633	409	216	150	151	52	10	38	119	27	20	5	133	48	898
Oceana	196	72	25	23	12	5	8	3	8	-	1	2	-	-	-	2	1	39
Ogemaw	166	66	23	25	6	1	14	2	3	-	-	1	1	-	-	3	1	21
Ontonagon	129	56	17	11	12	5	4	6	5	-	1	1	-	-	-	1	-	15
Oscoda	193	73	37	25	9	6	9	7	6	-	1	2	-	-	-	2	-	22
Oscoda	88	34	17	8	10	8	1	1	-	-	-	1	-	-	-	1	1	13
Otsego	107	33	18	16	8	7	2	3	6	-	-	1	-	-	-	1	-	19
Ottawa	932	383	179	84	66	45	20	18	22	2	5	5	2	2	-	9	3	132
Presque Isle	137	60	23	17	12	9	4	2	2	-	-	-	1	-	-	1	1	14
Roscommon	160	70	30	16	10	6	4	3	2	-	-	8	-	-	-	7	-	10
Saginaw	1,845	693	304	203	124	69	46	55	51	5	4	24	9	4	-	19	43	261
St. Clair	1,274	504	214	160	89	49	44	22	28	1	2	23	6	6	-	14	5	156
St. Joseph	555	213	106	58	45	29	16	7	13	-	3	2	1	1	-	8	-	82
Sanilac	432	166	78	60	29	19	7	9	7	1	2	4	1	3	1	4	-	60
Schoolcraft	109	50	18	3	6	4	8	2	1	-	-	2	1	-	-	1	-	17
Shiawassee	532	222	80	74	31	13	5	19	12	-	-	7	4	4	-	4	-	70
Tuscola	473	199	64	56	47	31	10	9	8	1	2	4	5	-	2	4	-	62
Van Buren	617	259	99	65	45	25	18	21	13	2	-							

TABLE 4.11
 REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES BY COUNTY
 MICHIGAN RESIDENTS, 1972

Area	Total	Diphtheria	Streptococcal Sore Throat (Including Scarlet Fever)	Typhoid Fever	Whooping Cough	Hepatitis, Infectious and Serum	Measles	Meningococcal Infections	Poliomyelitis	Rheumatic Fever	Total All Forms	Tuberculosis New Active Cases	Syphilis	Gonorrhea	All Other Diseases
STATE	93,755	1	13,304	7	116	4,322	2,353	55	1	442	1,632	1,261	4,891	24,750	41,881
Alcona	8	-	1	-	-	1	-	-	-	-	-	-	-	-	6
Alger	18	-	-	-	-	1	-	-	-	2	-	-	3	-	10
Allegan	340	-	117	-	1	29	55	-	-	6	10	9	11	34	77
Alpena	165	-	2	-	-	1	1	-	-	1	-	-	3	12	145
Antrim	15	-	-	-	-	1	-	-	-	1	-	-	5	8	-
Arenac	10	-	-	-	-	-	-	1	-	-	-	2	1	4	2
Baraga	27	-	-	-	-	-	5	-	-	1	1	-	1	2	17
Barry	562	-	86	-	-	47	10	-	-	4	2	1	3	16	394
Bay	1,079	-	16	-	1	25	-	-	-	19	12	8	4	154	848
Benzie	11	-	-	-	-	1	-	-	-	-	1	1	4	4	1
Berrien	1,121	-	288	-	1	19	52	-	-	6	45	40	83	488	139
Branch	344	-	42	-	-	8	45	-	-	4	4	3	6	49	186
Calhoun	871	-	10	-	3	83	104	2	-	8	18	14	45	412	186
Cass	236	-	3	-	1	17	7	-	-	3	8	6	24	50	123
Charlevoix	40	-	1	-	-	1	-	-	-	-	4	-	6	26	2
Cheboygan	287	-	5	-	-	7	5	-	-	1	1	1	11	7	250
Chippewa	44	-	5	-	-	-	5	-	-	3	4	3	4	10	13
Clare	16	-	1	-	-	1	1	-	-	-	-	-	1	2	10
Clinton	220	-	10	-	-	13	50	-	-	3	2	2	3	37	102
Crawford	76	-	8	-	1	5	-	-	-	1	-	-	-	-	61
Delta	258	-	146	-	1	1	-	-	-	4	1	-	3	12	90
Dickinson	159	-	37	-	-	-	19	-	-	-	4	3	-	4	95
Eaton	937	-	71	-	-	26	48	-	-	1	5	5	4	65	717
Emmet	29	-	-	-	-	2	35	-	-	-	-	-	9	17	-
Genesee	5,210	-	358	-	2	116	35	3	-	18	50	48	208	1,624	2,796
Gladwin	10	-	-	-	-	1	-	-	-	3	1	-	-	5	-
Gogebic	110	-	26	-	-	-	4	-	-	1	3	3	2	-	74
Grand Traverse	241	-	10	-	-	6	7	1	-	3	4	4	11	29	170
Gratiot	96	-	-	-	-	6	12	-	-	1	1	1	6	32	38
Hillsdale	111	-	1	-	-	11	12	1	-	4	6	5	4	30	42
Houghton	313	-	29	1	-	-	153	-	-	-	6	3	3	1	120
Huron	18	-	1	-	-	3	-	-	-	2	2	2	1	9	2
Ingham	7,271	-	3,774	-	11	207	74	6	-	9	34	23	44	1,271	1,841
Ionia	163	-	62	-	-	13	-	1	-	4	3	3	12	38	33
Iosco	380	-	262	-	-	3	6	-	-	1	5	3	3	5	95
Iron	69	-	48	-	-	3	-	-	-	3	6	3	1	3	5
Isabella	140	-	4	-	-	4	-	-	-	4	3	3	3	36	86
Jackson	1,592	-	114	-	-	112	3	-	-	15	13	13	53	226	1,066
Kalamazoo	4,073	-	300	-	5	101	294	2	-	7	17	13	92	1,236	2,019
Kalkaska	91	-	-	-	-	2	2	-	-	-	-	-	1	3	83
Kent	5,448	-	3,400	-	-	114	19	1	-	19	55	35	56	1,580	204
Keeweenaw	5	-	-	-	-	-	-	-	-	-	1	-	-	-	4
Lake	32	-	-	-	-	4	1	1	-	5	2	2	16	3	2
Lapeer	138	-	10	-	-	14	7	-	-	2	4	4	3	13	85
Leelanau	30	-	-	-	-	4	2	1	-	-	1	1	5	4	13
Lenawee	545	-	51	-	1	36	4	-	-	6	9	6	7	170	261
Livingston	188	-	23	-	-	7	5	-	-	7	4	4	9	31	102
Luce	17	-	-	-	-	-	-	-	-	-	1	-	3	13	-
Mackinac	32	-	-	-	-	1	-	-	-	-	2	2	2	5	22
Macomb	6,232	-	151	2	1	298	12	2	-	23	73	48	106	456	5,108
Manistee	21	-	-	-	-	-	2	-	-	2	1	1	3	13	-
Marquette	2,156	-	1,479	-	1	31	42	1	-	3	15	13	5	70	509
Mason	125	-	6	-	-	6	-	-	-	6	6	5	8	77	16
Mecosta	133	-	33	-	-	2	29	-	-	4	-	-	6	28	31
Menominee	169	-	4	-	-	5	1	-	-	5	2	1	-	-	152
Midland	1,562	-	26	-	-	35	2	-	-	4	2	2	3	38	1,452
Missaukee	38	-	2	-	-	2	-	-	-	-	1	1	-	3	30
Monroe	566	-	53	-	-	112	2	-	-	9	17	12	134	227	
Montcalm	72	-	-	-	-	22	2	-	-	4	4	3	7	20	13
Montmorency	32	-	-	-	-	-	-	-	-	2	-	-	1	-	29
Muskegon	1,552	-	12	-	1	89	10	-	-	8	27	20	63	763	579
Newaygo	70	-	1	-	-	7	-	-	-	4	4	4	13	37	4
Oakland	14,268	-	804	1	20	759	645	8	-	23	134	80	144	1,693	10,037
Oceana	80	-	-	-	-	11	-	-	-	-	1	-	9	8	51
Ogemaw	69	-	11	-	-	2	3	-	-	1	2	2	2	1	47
Ontonagon	38	-	-	-	-	5	17	-	-	2	2	1	2	4	1
Osceola	13	-	-	-	-	8	-	-	-	-	-	-	-	-	9
Oscoda	11	-	2	-	-	-	-	-	-	-	-	-	-	-	-
Otsego	19	-	-	-	-	-	-	-	-	2	1	-	3	12	1
Ottawa	1,154	-	81	-	1	20	29	2	-	5	6	3	22	311	677
Presque Isle	73	-	1	-	-	-	-	-	-	1	-	-	2	6	63
Roscommon	118	-	-	-	-	1	-	-	-	2	1	1	5	24	85
Saginaw	1,607	-	25	-	-	54	3	2	-	4	35	26	66	804	614
St. Clair	778	-	21	-	11	71	27	-	-	12	15	13	10	255	356
St. Joseph	256	-	1	-	-	20	-	2	-	3	2	1	21	78	129
Sanilac	32	-	1	-	-	8	-	1	-	1	2	1	3	10	6
Schoolcraft	9	-	-	-	-	-	1	-	-	-	2	1	2	3	1
Shiawassee	251	-	30	-	-	21	2	-	-	2	2	2	5	37	152
Tuscola	77	-	2	-	-	12	1	-	-	2	3	3	5	37	15
Van Buren	802	-	20	1	3	23	113	-	-	4	11	10	69	126	432
Washtenaw	1,445	-	152	-	-	177	11	-	-	10	43	32	49	784	219
Wayne	26,369	1	1,049	2	50	1,456	298	17	1	135	852	685	3,457	11,129	7,922
Wexford	200	-	14	-	-	5	43	-	-	-	2	-	9	6	121
STATE HOMES	162	-	1	-	-	3	11	-	-	-	-	-	-	-	147

TABLE 4.12
NUMBER OF DEATHS BY CAUSE
MICHIGAN RESIDENTS, 1972

ICDA LIST NUMBER	CAUSE OF DEATH	NUMBER	ICDA LIST NUMBER	CAUSE OF DEATH	NUMBER
I. INFECTIVE AND PARASITIC DISEASES (000-136)			181	Chorionepithelioma-----	1
001	Typhoid fever-----	1	182	Other malignant neoplasm of uterus----	245
003	Other salmonella infections-----	1	183	Malignant neoplasm of ovary, fallopian tube, and broad ligament----	427
004	Bacillary dysentery-----	3	184	Malignant neoplasm of other and unspecified female genital organs----	32
008	Enteritis due to other specified organism--	10	185	Malignant neoplasm of prostate-----	748
009	Diarrheal disease-----	71	186	Malignant neoplasm of testis-----	36
010	Silicotuberculosis-----	2	187	Malignant neoplasm of other and unspecified male genital organs-----	8
011	Pulmonary tuberculosis-----	105	188	Malignant neoplasm of bladder-----	413
012	Other respiratory tuberculosis-----	4	189	Malignant neoplasm of other and unspecified urinary organs-----	280
013	Tuberculosis of meninges and central nervous system-----	7	190	Malignant neoplasm of eye-----	8
015	Tuberculosis of bones and joints-----	3	191	Malignant neoplasm of brain-----	327
016	Tuberculosis of genitourinary system-----	1	192	Malignant neoplasm of other parts of nervous system-----	43
017	Tuberculosis of other organs-----	2	193	Malignant neoplasm of thyroid gland----	44
018	Disseminated tuberculosis-----	11	194	Malignant neoplasm of other endocrine glands-----	23
019	Late effects of tuberculosis-----	22	195	Malignant neoplasm of ill-defined sites-----	122
031	Other diseases due to mycobacteria-----	1	196	Secondary and unspecified malignant neoplasm of lymph nodes-----	4
034	Streptococcal sore throat and scarlet fever-----	1	197	Secondary malignant neoplasm of respiratory and digestive systems----	239
036	Meningococcal infection-----	10	198	Other secondary malignant neoplasm----	68
037	Tetanus-----	1	199	Malignant neoplasm without specification of site-----	518
038	Septicemia-----	134	200	Lymphosarcoma and reticulum-cell sarcoma-----	301
039	Other bacterial diseases-----	17	201	Hodgkin's disease-----	132
043	Acute poliomyelitis, unspecified-----	1	202	Other neoplasms of lymphoid tissue----	129
044	Late effects of acute poliomyelitis-----	2	203	Multiple myeloma-----	182
045	Aseptic meningitis due to enterovirus----	1	204	Lymphatic leukemia-----	170
046	Other enterovirus diseases of central nervous system-----	1	205	Myeloid leukemia-----	271
052	Chickpox-----	4	206	Monocytic leukemia-----	12
053	Herpes zoster-----	4	207	Other and unspecified leukemia-----	156
054	Herpes simplex-----	1	208	Polycythemia vera-----	25
065	Viral encephalitis, unspecified-----	12	209	Myelofibrosis-----	32
066	Late effects of viral encephalitis-----	1	211	Benign neoplasm of other parts of digestive system-----	10
070	Infectious hepatitis-----	54	212	Benign neoplasm of respiratory system--	6
075	Infectious mononucleosis-----	2	213	Benign neoplasm of bone and cartilage-----	1
079	Other viral diseases-----	16	214	Lipoma-----	1
093	Cardiovascular syphilis-----	5	215	Other benign neoplasm of muscular and connective tissue-----	2
094	Syphilis of central nervous system-----	3	216	Benign neoplasm of skin-----	1
096	Late syphilis, latent-----	1	218	Uterine fibroma-----	8
097	Other syphilis and not specified-----	3	220	Benign neoplasm of ovary-----	5
100	Leptospirosis-----	1	221	Benign neoplasm of other female genital organs-----	1
112	Monilliasis-----	3	223	Benign neoplasm of kidney and other urinary organs-----	1
115	Histoplasmosis-----	1	225	Benign neoplasm of brain and other parts of nervous system-----	36
116	Blastomycosis-----	4	226	Benign neoplasm of endocrine glands----	11
117	Other systemic mycosis-----	2	227	Hemangioma and lymphangioma-----	3
130	Toxoplasmosis-----	2	228	Benign neoplasm of other and unspecified organs and tissues-----	2
135	Sarcoidosis-----	135	230	Neoplasm of unspecified nature of digestive organs-----	5
136	Other and unspecified infective and parasitic diseases-----	10	231	Neoplasm of unspecified nature of respiratory organs-----	10
II. NEOPLASMS (140-239)			232	Neoplasm of unspecified nature of skin and musculoskeletal system-----	1
140	Malignant neoplasm of lip-----	10	234	Neoplasm of unspecified nature of uterus-----	1
141	Malignant neoplasm of tongue-----	77	237	Neoplasm of unspecified nature of other genitourinary organs-----	2
142	Malignant neoplasm of salivary gland-----	25	238	Neoplasm of unspecified nature of eye, brain, and other parts of nervous system-----	33
143	Malignant neoplasm of gum-----	4	239	Neoplasm of unspecified nature of other and unspecified organs-----	6
144	Malignant neoplasm of floor of mouth-----	24	241	Nontoxic nodular goiter-----	3
145	Malignant neoplasm of other and unspecified parts of mouth-----	42	242	Thyrototoxicosis with or without goiter-----	26
146	Malignant neoplasm of oropharynx-----	34	244	Myxedema-----	27
147	Malignant neoplasm of nasopharynx-----	23	250	Diabetes mellitus-----	2,222
148	Malignant neoplasm of hypopharynx-----	32	251	Disorders of pancreatic internal secretion other than diabetes mellitus-----	12
149	Malignant neoplasm of pharynx, unspecified--	52	252	Diseases of parathyroid gland-----	3
150	Malignant neoplasm of esophagus-----	263	253	Diseases of pituitary gland-----	7
151	Malignant neoplasm of stomach-----	662	254	Diseases of thymus gland-----	3
152	Malignant neoplasm of small intestine, including duodenum-----	28	255	Diseases of adrenal glands-----	21
153	Malignant neoplasm of large intestine, except rectum-----	1,426	258	Polyglandular dysfunction and other diseases of endocrine glands-----	18
154	Malignant neoplasm of rectum and rectosigmoid junction-----	383			
155	Malignant neoplasm of liver and intra- hepatic bile ducts, specified as primary--	77			
156	Malignant neoplasm of gallbladder and bile ducts-----	193			
157	Malignant neoplasm of pancreas-----	728			
158	Malignant neoplasm of peritoneum and retroperitoneal tissue-----	26			
159	Malignant neoplasm of unspecified digestive organs-----	21			
160	Malignant neoplasm of nose, nasal cavities, middle ear, and accessory sinuses-----	23			
161	Malignant neoplasm of larynx-----	134			
162	Malignant neoplasm of trachea, bronchus, and lung-----	2,927			
163	Malignant neoplasm of other and unspecified respiratory organs-----	39			
170	Malignant neoplasm of bone-----	70			
171	Malignant neoplasm of connective and other soft tissue-----	70			
172	Malignant melanoma of skin-----	103			
173	Other malignant neoplasm of skin-----	52			
174	Malignant neoplasm of breast-----	1,268			
180	Malignant neoplasm of cervix uteri-----	233			

TABLE 4.12
NUMBER OF DEATHS BY CAUSE
MICHIGAN RESIDENTS, 1972 (continued)

ICDA LIST NUMBER	CAUSE OF DEATH	NUMBER	ICDA LIST NUMBER	CAUSE OF DEATH	NUMBER
IX. DISEASES OF THE DIGESTIVE SYSTEM (520-577)			XII. DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE (680-709)		
522	Diseases of pulp and periapical tissues-----	1	661	Delivery with other complications-----	1
525	Other diseases and conditions of the teeth and supporting structures-----	1	670	Sepsis of childbirth and the puerperium-----	2
526	Diseases of the jaws-----	1	673	Puerperal pulmonary embolism-----	5
528	Diseases of the oral soft tissues, excluding gingiva and tongue-----	1	674	Cerebral hemorrhage in the puerperium-----	1
530	Diseases of esophagus-----	27	675	Puerperal blood dyscrasias-----	1
531	Ulcer of stomach-----	152	677	Other and unspecified complications of the puerperium-----	1
532	Ulcer of duodenum-----	139	XIII. DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE (680-709)		
533	Peptic ulcer, site unspecified-----	60	682	Other cellulitis and abscess-----	15
534	Gastrojejunal ulcer-----	27	686	Other local infections of skin and subcutaneous tissue-----	5
535	Gastritis and duodenitis-----	21	692	Other eczema and dermatitis-----	4
536	Disorders of function of stomach-----	4	694	Pemphigus-----	2
537	Other diseases of stomach and duodenum-----	12	695	Erythematous conditions-----	15
540	Acute appendicitis-----	45	696	Psoriasis and similar disorders-----	2
541	Appendicitis, unqualified-----	3	707	Chronic ulcer of skin-----	26
550	Inguinal hernia without mention of obstruction-----	6	708	Urticaria-----	1
551	Other hernia of abdominal cavity without mention of obstruction-----	41	709	Other diseases of skin-----	2
552	Inguinal hernia with obstruction-----	16	XIII. DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE (710-738)		
553	Other hernia of abdominal cavity with obstruction-----	42	710	Acute arthritis due to pyogenic organisms-----	1
560	Intestinal obstruction without mention of hernia-----	164	712	Rheumatoid arthritis and allied conditions-----	59
561	Gastroenteritis and colitis, except ulcerative, of noninfectious origin-----	2	713	Osteoarthritis and allied conditions-----	7
562	Diverticula of intestine-----	122	715	Arthritis, unspecified-----	8
563	Chronic enteritis and ulcerative colitis-----	44	716	Polymyositis and dermatomyositis-----	8
564	Functional disorders of intestines-----	5	717	Other nonarticular rheumatism-----	1
565	Anal fissure and fistula-----	1	720	Osteomyelitis and periostitis-----	6
566	Abscess of anal and rectal regions-----	3	721	Osteitis deformans-----	4
567	Peritonitis-----	37	723	Other diseases of bone-----	4
568	Peritoneal adhesions-----	6	725	Displacement of intervertebral disc-----	2
569	Other diseases of intestines and peritoneum-----	164	727	Ankylosis of joint-----	1
570	Acute and subacute necrosis of liver-----	21	728	Vertebrogenic pain syndrome-----	1
571	Cirrhosis of liver-----	1,778	729	Other diseases of joint-----	5
572	Suppurative hepatitis and liver abscess-----	4	732	Infective myositis and other inflammatory diseases of tendon and fascia-----	1
573	Other diseases of liver-----	88	733	Other diseases of muscle, tendon, and fascia-----	13
574	Cholelithiasis-----	87	734	Diffuse diseases of connective tissue-----	70
575	Cholecystitis and cholangitis, without mention of calculus-----	64	735	Curvature of spine-----	10
576	Other diseases of gallbladder and biliary ducts-----	48	738	Other deformities-----	1
577	Diseases of pancreas-----	146	XIV. CONGENITAL ANOMALIES (740-759)		
X. DISEASES OF THE GENITOURINARY SYSTEM (580-629)			740	Anencephalus-----	33
580	Acute nephritis-----	44	741	Spina bifida-----	39
581	Nephrotic syndrome-----	20	742	Congenital hydrocephalus-----	30
582	Chronic nephritis-----	229	743	Other congenital anomalies of nervous system-----	26
583	Nephritis, unqualified-----	35	745	Congenital anomalies of ear, face, and neck-----	2
584	Renal sclerosis, unqualified-----	4	746	Congenital anomalies of heart-----	288
590	Infections of kidney-----	243	747	Other congenital anomalies of circulatory system-----	41
591	Hydronephrosis-----	6	748	Congenital anomalies of respiratory system-----	26
592	Calculus of kidney and ureter-----	20	749	Cleft palate and cleft lip-----	2
593	Other diseases of kidney and ureter-----	137	750	Other congenital anomalies of upper alimentary tract-----	4
594	Calculus of other parts of urinary system-----	2	751	Other congenital anomalies of digestive system-----	37
595	Cystitis-----	12	752	Congenital anomalies of genital organs-----	1
596	Other diseases of bladder-----	9	753	Congenital anomalies of urinary system-----	49
598	Stricture of urethra-----	2	755	Other congenital anomalies of limbs-----	4
599	Other diseases of urinary tract-----	74	756	Other congenital anomalies of musculoskeletal system-----	23
600	Hyperplasia of prostate-----	44	757	Congenital anomalies of skin, hair, and nails-----	2
601	Prostatitis-----	5	758	Other and unspecified congenital anomalies-----	15
602	Other diseases of prostate-----	22	759	Congenital syndromes affecting multiple systems-----	63
604	Orchitis and epididymitis-----	1	XV. CERTAIN CAUSES OF PERINATAL MORBIDITY AND MORTALITY (760-779)		
607	Other diseases of male genital organs-----	4	761	Other maternal conditions unrelated to pregnancy-----	15
614	Salpingitis and oophoritis, unqualified-----	2	762	Toxemia of pregnancy-----	5
615	Other diseases of ovary and fallopian tube-----	2	763	Maternal ante- and intrapartum infection-----	10
616	Diseases of parametrium and pelvic peritoneum (female)-----	7	764	Difficult labor with abnormality of bones, organs, or tissues of pelvis-----	2
622	Infective diseases of uterus (except cervix), vagina, and vulva-----	1	765	Difficult labor with disproportion, but no mention of abnormality of pelvis-----	2
623	Uterovaginal prolapse-----	3	766	Difficult labor with malposition of fetus-----	11
625	Other diseases of uterus-----	5	767	Difficult labor with abnormality of forces of labor-----	2
626	Disorders of menstruation-----	1	768	Difficult labor with other and unspecified complications-----	3
629	Other diseases of female genital organs-----	5	769	Other complications of pregnancy and childbirth-----	228
XI. COMPLICATIONS OF PREGNANCY, CHILDBIRTH, AND THE PUERPERIUM (630-678)			770	Conditions of placenta-----	101
631	Ectopic pregnancy-----	6			
632	Hemorrhage of pregnancy-----	1			
634	Other complications of pregnancy-----	2			
637	Pre-eclampsia, eclampsia, and toxemia, unspecified-----	5			
640	Abortion induced for medical indications-----	2			
642	Abortion induced for other reasons-----	1			
643	Spontaneous abortion-----	1			
644	Abortion not specified as induced or spontaneous-----	2			
651	Delivery complicated by placenta previa or antepartum hemorrhage-----	2			
653	Delivery complicated by other postpartum hemorrhage-----	2			

TABLE 4.12
NUMBER OF DEATHS BY CAUSE
MICHIGAN RESIDENTS, 1972 (continued)

ICDA LIST NUMBER	CAUSE OF DEATH	NUMBER	ICDA LIST NUMBER	CAUSE OF DEATH	NUMBER
771	Conditions of umbilical cord-----	18	E857	Accidental poisoning by cardiovascular drugs-----	1
772	Birth injury without mention of cause-----	87	E859	Accidental poisoning by other and unspecified drugs and medicaments-----	32
774	Hemolytic disease of newborn with kernicterus-----	1	E860	Accidental poisoning by alcohol-----	1
775	Hemolytic disease of newborn without mention of kernicterus-----	30	E862	Accidental poisoning by disinfectants-----	1
776	Anoxic and hypoxic conditions not elsewhere classifiable-----	733	E864	Accidental poisoning by petroleum products and other solvents-----	6
777	Immaturity, unqualified-----	316	E865	Accidental poisoning by pesticides, fertilizers, or plant food-----	1
778	Other conditions of fetus or newborn-----	105	E866	Accidental poisoning by heavy metals and their fumes-----	2
XVI. SYMPTOMS AND ILL-DEFINED CONDITIONS (780-796)			E867	Accidental poisoning by corrosives and caustics, not elsewhere classified-----	2
780	Certain symptoms referable to nervous system and special senses-----	3	E869	Accidental poisoning by other and unspecified solid and liquid substances-----	17
781	Other symptoms referable to nervous system and special senses-----	2	E870	Accidental poisoning by gas distributed by pipeline-----	1
782	Symptoms referable to cardiovascular and lymphatic system-----	55	E871	Accidental poisoning by liquefied petroleum gas distributed in mobile containers-----	2
783	Symptoms referable to respiratory system-----	5	E873	Accidental poisoning by motor vehicle exhaust gas-----	77
784	Symptoms referable to upper gastrointestinal tract-----	2	E874	Accidental poisoning by carbon monoxide from incomplete combustion of domestic fuels-----	5
788	Other general symptoms-----	2	E875	Accidental poisoning by other carbon monoxide-----	17
789	Abnormal urinary constituents of unspecified cause-----	1	E876	Accidental poisoning by other gases and vapors-----	3
790	Nervousness and debility-----	1	E877	Accidental poisoning by unspecified gases and vapors-----	1
792	Uremia-----	8	E880	Fall on or from stairs or steps-----	84
794	Senility without mention of psychosis-----	21	E881	Fall on or from ladders or scaffolding-----	17
795	Sudden death (cause unknown)-----	172	E882	Fall from or out of building or other structure-----	26
796	Other ill-defined and unknown causes of morbidity and mortality-----	196	E883	Fall into hole or other opening in surface-----	4
E XVII. ACCIDENTS, POISONINGS, AND VIOLENCE (EXTERNAL CAUSE) (E800-E999)			E884	Other fall from one level to another-----	43
E804	Fall in, on, or from train-----	3	E885	Fall on same level from slipping, stumbling, or tripping-----	20
E805	Hit by rolling stock-----	12	E887	Other and unspecified fall-----	459
E810	Motor vehicle traffic accident involving collision with train-----	39	E890	Accident caused by conflagration in private dwelling-----	190
E812	Motor vehicle traffic accident involving collision with another motor vehicle-----	1,049	E891	Accident caused by conflagration in other building or structure-----	15
E813	Motor vehicle traffic accident involving collision with other vehicle-----	51	E892	Accident caused by conflagration not in building or structure-----	2
E814	Motor vehicle traffic accident involving collision with pedestrian-----	410	E893	Accident caused by ignition of clothing-----	18
E815	Other motor vehicle traffic accident involving collision-----	347	E894	Accident caused by ignition of highly inflammable material-----	8
E816	Noncollision motor vehicle traffic accident due to loss of control-----	369	E897	Accident caused by controlled fire not in building or structure-----	2
E817	Noncollision motor vehicle traffic accident while boarding or alighting-----	1	E898	Accident caused by other specified fires or flames-----	13
E818	Other noncollision motor vehicle traffic accident-----	15	E899	Accident caused by unspecified fire-----	15
E819	Motor vehicle traffic accident of unspecified nature-----	125	E900	Excessive heat-----	8
E820	Motor vehicle nontraffic accident involving collision with moving object-----	27	E901	Excessive cold-----	12
E821	Motor vehicle nontraffic accident involving collision with stationary object-----	2	E904	Hunger, thirst, exposure, and neglect-----	10
E823	Motor vehicle nontraffic accident of other and unspecified nature-----	15	E905	Bites and stings of venomous animals and insects-----	3
E826	Pedal cycle accident-----	5	E906	Other accidents caused by animals-----	2
E827	Other nonmotor road vehicle accident-----	6	E907	Lightning-----	4
E830	Accident to watercraft causing submersion-----	31	E910	Accidental drowning and submersion-----	244
E831	Accident to watercraft causing other injury-----	1	E911	Inhalation and ingestion of food causing obstruction or suffocation-----	82
E832	Other accidental submersion or drowning in water transport-----	26	E912	Inhalation and ingestion of other object causing obstruction or suffocation-----	36
E836	Machinery accident in water transport-----	1	E913	Accidental mechanical suffocation-----	57
E838	Other and unspecified water transport accident-----	3	E915	Foreign body accidentally entering other orifice-----	10
E840	Accident to powered aircraft at take-off or landing-----	5	E916	Struck accidentally by falling object-----	32
E841	Accident to powered aircraft, other and unspecified-----	62	E917	Striking against or struck accidentally by objects-----	19
E842	Accident to unpowered aircraft-----	1	E918	Caught accidentally in or between objects-----	25
E844	Other specified air transport accidents-----	3	E919	Overexertion and strenuous movements-----	6
E850	Accidental poisoning by antibiotics and other anti-infectives-----	2	E920	Accidents caused by cutting or piercing instruments-----	6
E851	Accidental poisoning by hormones and synthetic substitutes-----	1			
E853	Accidental poisoning by analgesics and antipyretics-----	26			
E854	Accidental poisoning by other sedatives and hypnotics-----	23			
E855	Accidental poisoning by autonomic nervous system and psychotherapeutic drugs-----	4			

TABLE 4.12
NUMBER OF DEATHS BY CAUSE
MICHIGAN RESIDENTS, 1972 (continued)

ICDA LIST NUMBER	CAUSE OF DEATH	NUMBER
E922	Accident caused by firearm missiles-----	69
E923	Accident caused by explosive material-----	14
E924	Accident caused by hot substance, corrosive liquid, and steam-----	8
E925	Accident caused by electric current-----	39
E927	Vehicle accidents not elsewhere classifiable-----	21
E928	Machinery accidents not elsewhere classifiable-----	31
E929	Other and unspecified accidents-----	45
E930	Complications and misadventures in operative therapeutic procedures-----	3
E931	Complications and misadventures in other and unspecified therapeutic procedures-----	7
E932	Complications and misadventures in diagnostic procedures-----	3
E940	Late effect of motor vehicle accident-----	4
E942	Late effect of accidental poisoning-----	2
E943	Late effect of accidental fall-----	7
E946	Late effect of other accident-----	6
E947	Late effect of surgical operation-----	1
E950	Suicide and self-inflicted poisoning by solid or liquid substances-----	170
E951	Suicide and self-inflicted poisoning by gases in domestic use-----	2
E952	Suicide and self-inflicted poisoning by other gases-----	149
E953	Suicide and self-inflicted injury by hanging, strangulation, and suffocation-----	138
E954	Suicide and self-inflicted injury by submersion (drowning)-----	26
E955	Suicide and self-inflicted injury by firearms and explosives-----	504
E956	Suicide and self-inflicted injury by cutting and piercing instruments-----	16
E957	Suicide and self-inflicted injury by jumping from high place-----	19
E958	Suicide and self-inflicted injury by other and unspecified means-----	20
E960	Fight, brawl, or rape-----	3
E962	Assault by poisoning-----	3
E963	Assault by hanging and strangulation-----	29
E964	Assault by submersion (drowning)-----	2
E965	Assault by firearms and explosives-----	796
E966	Assault by cutting and piercing instruments-----	148
E968	Assault by other and unspecified means-----	105
E969	Late effect of injury purposely inflicted by other person-----	3
E970	Injury due to legal intervention by firearms-----	14
E980	Poisoning by solid or liquid substances, undetermined whether accidentally or purposely inflicted-----	26
E982	Poisoning by other gases, undetermined whether accidentally or purposely inflicted-----	17
E983	Hanging and strangulation, undetermined whether accidentally or purposely inflicted-----	3
E984	Submersion (drowning), undetermined whether accidentally or purposely inflicted-----	9
E985	Injury by firearms and explosives, undetermined whether accidentally or purposely inflicted-----	17
E987	Falling from high place, undetermined whether accidentally or purposely inflicted-----	5
E988	Injury by other and unspecified means, undetermined whether accidentally or purposely inflicted-----	30
E999	Late effect of injury due to war operations-----	1
TOTAL		79,210

TABLE 4.13

POPULATION BY AGE AND SEX
MICHIGAN RESIDENTS, 1972

Age	Total	Percent	Males	Percent	Females	Percent
0-4	812,071	9.01	414,189	9.39	397,882	8.65
5-9	908,510	10.08	463,151	10.50	445,359	9.68
10-14	984,219	10.92	501,526	11.37	482,693	10.49
15-19	908,510	10.08	458,740	10.40	449,770	9.77
20-24	739,066	8.20	341,850	7.75	397,216	8.63
25-29	610,180	6.77	300,828	6.82	309,352	6.72
30-34	503,827	5.59	249,219	5.65	254,608	5.53
35-39	471,380	5.23	228,929	5.19	242,451	5.27
40-44	521,853	5.79	255,836	5.80	266,017	5.78
45-49	534,471	5.93	260,247	5.90	274,224	5.96
50-54	485,801	5.39	234,663	5.32	251,138	5.46
55-59	421,808	4.68	205,992	4.67	215,816	4.69
60-64	341,593	3.79	163,647	3.71	177,946	3.87
65-69	265,884	2.95	124,389	2.82	141,495	3.07
70-74	203,694	2.26	89,101	2.02	114,593	2.49
75-79	149,616	1.66	62,636	1.42	86,980	1.89
80-84	94,637	1.05	36,170	0.82	58,467	1.27
85 +	55,881	0.62	19,849	0.45	36,032	0.78
Total	9,013,000	100.0	4,410,962	100.0	4,602,038	100.0

TABLE 4.14
POPULATION CHANGES BY COUNTY
MICHIGAN RESIDENTS, 1972

Area	Population Estimates July 1, 1962	Revised Population Estimates July 1, 1972	Percent Change	Natural Increases	Net Migration
STATE	7,939,000	9,013,000	13.5	922,010	152,190
Alcona	6,400	8,100	26.6	127	1,573
Alger	9,400	8,100	-13.8	346	-1,646
Allegan	59,100	69,400	17.4	6,453	3,847
Alpena	29,300	32,400	10.6	3,113	-13
Antrim	10,600	14,400	35.8	430	3,370
Arenac	9,900	11,700	18.2	579	1,221
Baraga	7,200	8,100	12.5	509	391
Barry	31,300	39,700	26.8	3,192	5,208
Bay	106,900	118,100	10.5	12,955	-1,755
Benzie	7,800	9,000	15.4	328	872
Berrien	150,600	166,700	10.7	18,485	-2,385
Branch	35,400	38,800	9.6	2,424	976
Calhoun	136,100	140,600	3.3	14,024	-9,524
Cass	36,900	43,300	17.3	3,048	3,352
Charlevoix	13,900	17,100	23.0	1,037	2,163
Cheboygan	14,400	18,000	25.0	1,221	2,379
Chippewa	36,000	35,200	-2.2	5,367	-6,167
Clare	12,300	18,000	46.3	792	4,908
Clinton	40,600	48,700	20.0	6,171	1,929
Crawford	5,300	7,200	35.8	336	1,564
Delta	35,700	37,000	3.6	2,341	-1,041
Dickinson	24,300	23,400	-3.7	668	-1,568
Eaton	50,700	73,000	44.0	6,640	15,660
Emmet	16,400	19,800	20.7	1,295	2,105
Genesee	387,500	450,700	16.3	63,579	-379
Gladwin	10,900	14,400	32.1	648	2,852
Gogebic	23,400	20,700	-11.5	-385	-2,315
Grand Traverse	34,800	42,400	21.8	3,295	4,305
Gratiot	37,200	40,600	9.1	4,522	-1,122
Hillsdale	34,100	38,800	13.8	2,822	1,878
Houghton	35,500	37,000	4.2	587	913
Huron	34,100	36,100	5.9	2,527	-527
Ingham	217,000	265,000	22.1	35,190	12,810
Ionia	44,100	47,800	8.4	4,316	-616
Iosco	19,700	27,000	37.1	3,995	3,305
Iron	17,000	13,500	-20.6	-483	-3,017
Isabella	35,700	46,900	31.4	4,711	6,489
Jackson	132,700	143,300	8.0	13,321	-2,721
Kalamazoo	171,400	201,900	17.8	20,812	9,688
Kalkaska	4,500	6,300	40.0	206	1,594
Kent	372,600	412,800	10.8	44,434	-4,234
Keweenaw	2,500	2,700	8.0	-112	312
Lake	5,500	6,300	14.5	-181	981
Lapeer	42,700	55,900	30.9	5,640	7,560
Leelanau	9,600	10,800	12.5	507	693
Lenawee	75,400	82,900	9.9	7,873	-373
Livingston	39,500	64,900	64.3	5,258	20,142
Luce	7,900	7,200	-8.9	176	-876
Mackinac	11,300	10,800	-4.4	743	-1,243
Macomb	437,300	640,900	46.6	89,099	114,501
Manistee	19,600	20,700	5.6	990	110
Marquette	59,900	68,500	14.4	7,399	1,201
Mason	22,200	24,300	9.5	973	1,127
Mecosta	21,500	30,600	42.3	2,387	6,713
Menominee	25,100	25,200	0.4	909	-809
Midland	53,600	65,800	22.8	9,191	3,009
Missaukee	6,900	8,100	17.4	255	945
Monroe	102,600	122,600	19.5	13,675	6,325
Montcalm	37,200	41,500	11.6	3,314	986
Montmorency	4,400	5,400	22.7	40	960
Muskegon	153,300	158,600	3.5	17,995	-12,695
Newaygo	24,900	28,800	15.7	1,944	1,956
Oakland	707,500	926,600	31.0	102,191	116,909
Oceana	16,700	18,900	13.2	1,292	908
Ogemaw	10,000	12,600	26.0	250	2,350
Ontonagon	11,000	10,800	-1.8	502	-702
Osceola	14,100	16,200	14.9	996	1,104
Oscoda	3,700	5,400	45.9	76	1,624
Otsego	8,300	10,800	30.1	1,021	1,479
Ottawa	101,500	131,600	29.7	14,983	15,117
Presque Isle	13,400	13,500	0.7	949	-849
Roscommon	7,500	11,700	56.0	-130	4,330
Saginaw	194,200	225,300	16.0	28,760	2,340
St. Clair	107,900	126,200	17.0	10,659	7,641
St. Joseph	41,800	48,700	16.5	3,786	3,114
Sanilac	32,900	37,000	12.5	2,318	1,782
Schoolcraft	8,800	8,100	-8.0	344	-1,044
Shiawassee	54,100	66,700	23.3	7,474	5,126
Tuscola	43,300	50,500	16.6	4,710	2,490
Van Buren	49,800	59,500	19.5	4,105	5,595
Washtenaw	180,000	238,900	32.7	29,137	29,763
Wayne	2,652,100	2,640,000	0.5	245,834	-257,934
Wexford	18,800	20,700	10.1	-1,300	3,200

NOTE: County totals rounded to nearest hundred
State totals rounded to nearest thousand