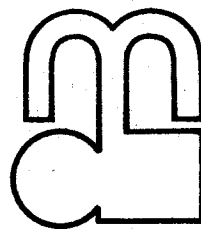


MAY 23 1975

1973

Michigan Health Statistics

Michigan Department
of Public Health



SYMBOLS USED IN TABLES

Data not available	---
Category not applicable	000
Quantity zero	-
Quantity more than zero but less than 0.05	0.0
Figure does not meet standards of reliability or precision	*

ERRATA
(ANNUAL STATISTICAL REPORT 1973)
STATISTICAL SERVICES SECTION
MICHIGAN DEPARTMENT OF PUBLIC HEALTH
LANSING, MICHIGAN 48914

Please replace Table 1.13 Page 16 with the attached Table 1.13

Please replace last line of Table 1.14 (Michigan) Page 16 with attached last line of Table 1.14 (Michigan).

Please replace Table 1.15 Page 17 with the attached Table 1.15

TABLE 1.13 - Total Live Births by Live Birth Order,
Michigan Residents, 1963 and 1973.

LIVE BIRTH ORDER	NUMBER OF BIRTHS		PERCENT	
	1963	1973	1963	1973
FIRST BIRTH	44,069	57,411	24.6	40.6
SECOND BIRTH	40,433	43,094	22.6	30.4
THIRD BIRTH	33,243	21,102	18.6	14.9
FOURTH BIRTH	23,913	9,752	13.4	6.9
FIFTH BIRTH or GREATER	37,101	9,789	20.7	6.9
NOT STATED	112	402	0.1	0.3
TOTAL	178,871	141,550	100.0	100.0

TABLE 1.14 First Births Michigan and United States Residents, 1963-1973 (Last Line)
1973 Michigan - First Births 57,411 and Percent of All Birth 40.6

TABLE 1.15 - Total Live Births by Live Birth Order and
Age of Mother, Michigan Residents, 1973

LIVE BIRTH ORDER	AGE OF MOTHER							TOTAL	MEDIAN AGE
	LESS THAN 20 YEARS	20-24 YEARS	25-29 YEARS	30-39 YEARS	40 OVER YEARS	N/A			
FIRST BIRTH	22,592	22,764	9,779	2,191	74	11	57,411	21	
SECOND BIRTH	4,860	19,505	14,556	4,074	95	4	43,094	24	
THIRD BIRTH	738	6,455	9,060	4,726	121	2	21,102	26	
FOURTH BIRTH	94	1,824	3,929	3,718	187	-	9,752	28	
FIFTH BIRTH OR GREATER	6	588	2,413	5,922	857	3	9,789	33	
NOT STATED	87	148	108	52	5	2	402	23	
TOTAL	28,377	51,284	39,845	20,683	1,339	22	141,550	24	

Table of Contents – TOPICAL

	PAGE
INTRODUCTION	5
TECHNICAL NOTES	
Definitions: Rates and Ratios	6
Qualifications and Limitations of Data and Calculations	7
SECTION I NATALITY	
Natality: An Overview	11
Fertility	12
Race Composition	13
Age of Mother	13
Illegitimate Live Births	13
Birth Weight	15
Prenatal Care	15
Birth Order	16
Attendant	17
Congenital Anomalies	17
Fetal Deaths	17
SECTION II MORTALITY	
Mortality: An Overview	23
Leading Causes of Death	25
Diseases of the Heart	26
Cancer	27
Cerebrovascular Diseases	30
Accidents	32
Infant Deaths	33
Communicable Disease Deaths	34
SECTION III MARRIAGE AND DIVORCE	
Marriage and Divorce: An Overview	37
Residence of Couples Marrying in Michigan	38
Order of Marriage	38
Divorce and Annulments	39
SECTION IV REFERENCE APPENDIX	

Table of Contents – TABULAR

SECTION I – NATALITY

	PAGE
Table 1.1 Live Births and Crude Birth Rates—Michigan and the United States Residents, Selected Years, 1900-1973	12
Table 1.2 Fertility Rates—Michigan and the United States, Selected Years, 1900-1973	12
Table 1.3 Live Births by Race—Michigan Residents, 1963-1973	13
Table 1.4 Total Live Births and Percent Distribution by Age of Mother and Race of Child—Michigan Residents, 1973	13
Table 1.5 Illegitimate Births by Selected Characteristics—Michigan Residents, 1973	14
Table 1.6 Illegitimate Live Births and Ratio by Age of Mother and Race of Child—Michigan Residents, 1973	14
Table 1.7 Illegitimate Live Births and Illegitimacy Ratios—Michigan and United States Residents, 1963-1973	15
Table 1.8 Live Births by Birth Weight and Legitimacy Status—Michigan Residents, 1973	15
Table 1.9 Low Weight Live Births and Rates by Age of Mother and Race of Child—Michigan Residents, 1973	15
Table 1.10 Live Births with No Prenatal Care by Age of Mother and Race of Child—Michigan Residents, 1973	15
Table 1.11 Live Births by Month Prenatal Care Began and Number of Prenatal Visits—Michigan Residents, 1973	16
Table 1.12 Percentage of Women Having Live Births Who Receive Medical Care Prior to the Sixth Month of Pregnancy—Michigan Residents 1900-1973	16
Table 1.13 Total Live Births by Live Birth Order—Michigan Residents, 1963 and 1973	16
Table 1.14 First Births—Michigan and United States Residents, 1963-1973	16
Table 1.15 Total Live Births by Live Birth Order and Age of Mother—Michigan Residents, 1973	17
Table 1.16 Live Births by Type of Attendant—Michigan Residents, 1973	17
Table 1.17 Live Births by Presence of Congenital Anomalies—Michigan Residents, 1973 ..	17

	PAGE
Table 1.18 Fetal Death and Fetal Death Ratios—Michigan Residents, 1900-1973	17
Table 1.19 Fetal Deaths by Cause of Death (Underlying) and Cause—Specific Ratios—Michigan Residents, 1973	18
Table 1.20 Fetal Deaths, Live Births, and Fetal Death Rates by Age of Mother and Race of Fetus—Michigan Residents, 1973	18
Table 1.21 Fetal Deaths by Age of Mother and Race of Fetus—Michigan Residents, 1973	18
Table 1.22 Fetal Deaths by Fetal Weight and Plurality—Michigan Residents, 1973	19
Table 1.23 Fetal Deaths, Live Births and Fetal Death Rates by Age of Mother and Legitimacy Status—Michigan Residents, 1973	19
Table 1.24 Illegitimate Fetal Deaths and Ratios by Age of Mother and Race of Fetus—Michigan Residents, 1973	19
Table 1.25 Fetal Deaths by Month Prenatal Care Began and Number of Prenatal Visits—Michigan Residents, 1973	20
Table 1.26 Percentage of Women Having Stillbirths Who Receive Medical Care Prior to the Sixth Month of Pregnancy—Michigan Residents, 1970-1973	20

SECTION II – MORTALITY

Table 2.1 Number of Deaths and Crude Death Rates—Michigan and United States Residents, 1963-1973	23
Table 2.2 Number of Deaths by Age, Race and Sex—Michigan Residents, 1973	24
Table 2.3 Death Rates by Age and Sex—Michigan Residents, 1973	25
Table 2.4 Leading Causes of Death and Cause—Specific Rates—Michigan and United States Residents, 1973	25
Table 2.5 Deaths Due to Diseases of the Heart by Age, by Race and Sex—Michigan Residents, 1973	26
Table 2.6 Heart Disease Death Rates by Age and Sex—Michigan Residents, 1973	27
Table 2.7 Deaths Due to Diseases of the Heart by Detailed Cause—Michigan Residents, 1973 ..	27
Table 2.8 Deaths Due to Cancer by Age and Sex—Michigan Residents, 1973	28

	PAGE
Table 2.9 Cancer Death Rates by Age and Sex—Michigan Residents, 1973	29
Table 2.10 Malignant Neoplasms by Site Affected—Michigan Resident, 1973	29
Table 2.11 Deaths Due to Cerebrovascular Diseases by Age, Race and Sex—Michigan Residents, 1973	30
Table 2.12 Cerebrovascular Disease Death Rates by Age and Sex—Michigan Residents, 1973	31
Table 2.13 Cerebrovascular Disease Deaths by Cause—Michigan Residents, 1973	31
Table 2.14 Deaths Due to Accidents by Age, by Race and Sex—Michigan Residents, 1973 ..	32
Table 2.15 Accident Death Rates by Age and Sex—Michigan Residents, 1973	33
Table 2.16 Accidental Deaths by Type of Accident—Michigan Residents, 1973	33
Table 2.17 Infant Deaths and Infant Mortality Rates—Michigan and United States Residents, 1963-1973	33
Table 2.18 Infant Deaths by Cause of Death—Michigan Residents, 1973	34
Table 2.19 Deaths from Selected Infective and Parasitic Diseases—Michigan Residents, 1973 ..	34

SECTION III

MARRIAGE AND DIVORCE

Table 3.1 Marriages, Divorces and Annulments—Michigan and United States Occurrences, Selected Years 1920-1973	37
Table 3.2 Marriages by Residence Status of Bride and Groom—Michigan Occurrences, 1963 and 1973	38
Table 3.3 Number of Marriages by Age and Sex—Michigan Occurrences, 1973	38
Table 3.4 Age at First Marriage and Remarriage: Bride—Michigan Occurrences, 1963 and 1973	38
Table 3.5 Age at First Marriage and Remarriage: Groom—Michigan Occurrences, 1963 and 1973	39
Table 3.6 Divorces and Annulments by Duration of Marriage—Michigan Occurrences, 1963 and 1973	39

	PAGE
Table 3.7 Divorces and Annulments by Children Under 18 Present—Michigan Occurrences, 1963 and 1973	40
Table 3.8 Divorces and Annulments by Legal Grounds for Decree—Michigan Occurrences, 1963 and 1973	40

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 1900-1973	43
Table 4.2 Live Birth Rates—Total and Illegitimate; Death Rates—All Ages, Infant, Neonatal, Perinatal, Fetal, Maternal and Deaths Due to Immaturity; Marriage and Divorce Rates, Michigan 1900-1973	44
Table 4.3 Reported cases of Certain Communicable Diseases, Michigan Occurrences, 1900-1973 ..	45
Table 4.4 Case Rates of Certain Reported Communicable Diseases, Michigan Occurrences, 1900-1973	46
Table 4.5 Number of Deaths and Death Rates for Certain Communicable Diseases—Michigan Residents, 1900-1973	47
Table 4.6 Number of Deaths and Death Rates by Specified Causes—Michigan Residents, 1900-1973	48
Table 4.7 Selected Vital Statistics by County—Michigan Residents, 1973	49
Table 4.8 Selected Vital Statistics Rates by County—Michigan Residents, 1973	50
Table 4.9 Vital Statistics by Selected Cities—Michigan Residents, 1973	51
Table 4.10 Selected Causes of Death by County—Michigan Residents, 1973	52
Table 4.11 Reported Cases of Certain Communicable Diseases by County—Michigan Residents, 1973	53
Table 4.12 Number of Deaths by Cause—Michigan Residents, 1973	54
Table 4.13 Population by Age and Sex—Michigan Residents, 1973	58
Table 4.14 Population Changes by County—Michigan Residents, 1973	59

Table of Contents – GRAPHICS

SECTION I – NATALITY

	PAGE
Figure 1.1 Live Births—Michigan Residents, 1900-1973	11
Figure 1.2 Fetal Deaths—Michigan Residents, 1900-1973	11
Figure 1.3 Live Birth Rate and Fetal Death Ratio—Michigan Residents, 1900-1973	12
Figure 1.4 Illegitimate Live Birth Ratio—Michigan Residents, 1900-1973	14

SECTION II – MORTALITY

Figure 2.1 Crude Death Rate—Michigan Residents, 1900-1973	23
Figure 2.2 Leading Causes of Death—Michigan Residents, 1973	25

SECTION III

MARRIAGE AND DIVORCE

Figure 3.1 Marriage and Divorce Rates, Michigan Occurrences, 1900-1973	37
Figure 3.2 Divorces and Annulments by Legal Grounds—Michigan Occurrences, 1973	40

SECTION IV

REFERENCE APPENDIX

	PAGE
Figure 4.1 Population Live Births, Illegitimate Live Births, Fetal Deaths, Deaths and Infant Deaths by Region—Michigan Residents, 1973 ..	60
Figure 4.2 Population Density, Live Birth Rates, Illegitimate Live Birth Ratios, Fetal Death Ratios, Death Rates and Infant Death Rates by Region—Michigan Residents, 1973	61
Figure 4.3 Leading Causes of Death; Number of Deaths by Region—Michigan Residents, 1973	62
Figure 4.4 Leading Causes of Death; Death Rates by Region—Michigan Residents, 1973	63
Figure 4.5 Michigan Live Birth Certificate	64
Figure 4.6 Michigan Fetal Death Certificate ..	65
Figure 4.7 Michigan Death Certificate	66
Figure 4.8 Michigan Marriage License	67
Figure 4.9 Michigan Divorce Record	68

Introduction

The 1973 edition of Michigan Health Statistics is a statistical summary of vital events for calendar year 1973. 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 1973, 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 in 1973 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, 1974 and all in-state certificates and records received prior to April 1, 1974. Although a few records for calendar year 1973 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 1973 and thus the 1973 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.

Office of Planning and Evaluation
Michigan Department of Public Health
3500 North Logan Street
Lansing, Michigan 48914

Area Code (517) 373-1390

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.

NATALITY

SECTION I

Natality

An Overview 1973

TOTAL BIRTHS	143,232
TOTAL RESIDENT LIVE BIRTHS	141,550
TOTAL RESIDENT FETAL DEATHS	1,682
CRUDE BIRTH RATE	15.6
FETAL DEATH RATIO	11.9
FERTILITY RATE	73.2
ILLEGITIMACY RATIO—LIVE BIRTHS	143.4
ILLEGITIMACY RATIO—FETAL DEATHS	225.3
FIRST ORDER BIRTHS (PERCENT OF TOTAL LIVE BIRTHS)	39.9
NO PRENATAL CARE RATIO	10.5
NONWHITE BIRTHS (PERCENT OF TOTAL LIVE BIRTHS)	18.8
MEDIAN AGE OF MOTHER (LIVE BIRTHS)	24
MEDIAN AGE OF MOTHER (FETAL DEATHS)	24

Between 1900 and 1973, 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 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. Since 1957, excepting the year 1970, there has been a steady decline in the number of resident live births. The number reported for 1973 is just slightly above the number recorded for 1946.

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 15.6 in 1973 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.

Figure 1.3 is a graphic portrayal of trends in live birth rates and fetal death ratios for Michigan since 1900. As can be seen quite clearly from the graph, birth rates display a bimodal pattern with maximum values in 1916-1917 and 1956 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

FIGURE 1.1—Live Births, Michigan Residents, 1900-1973

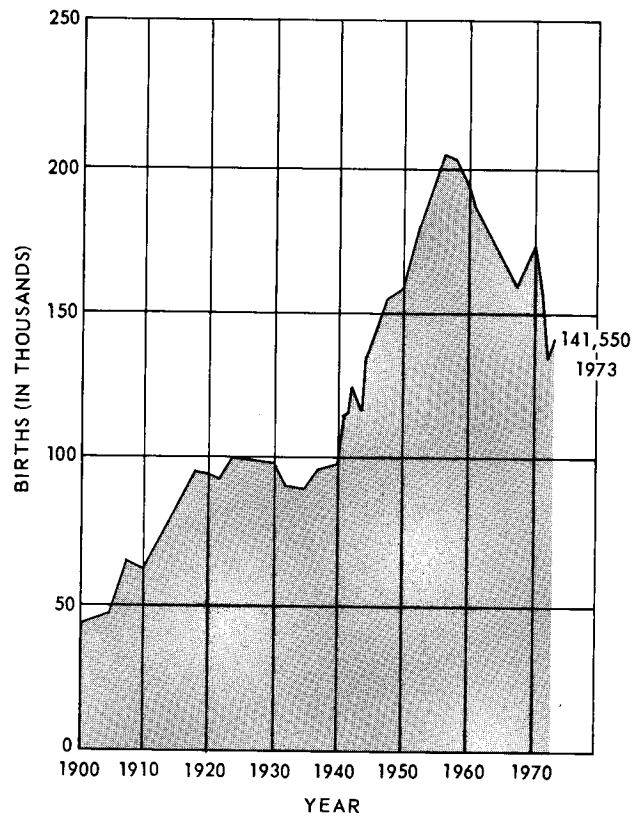
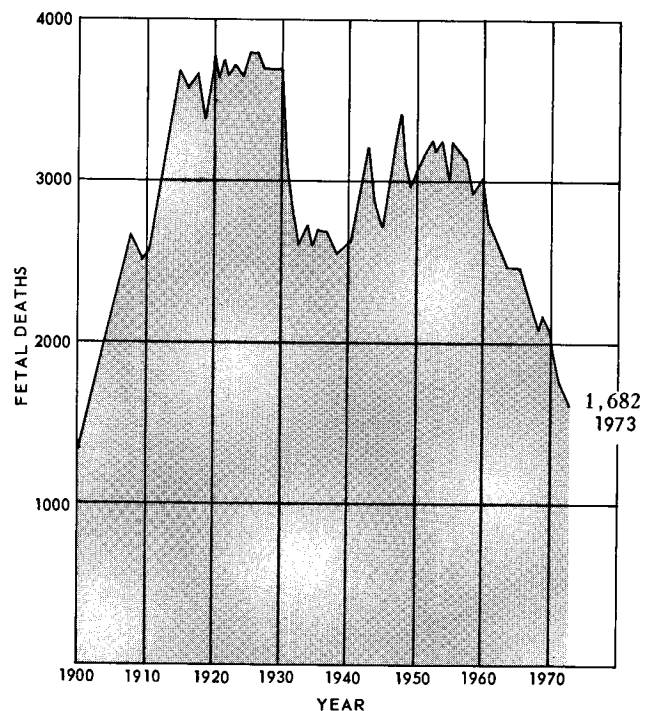


FIGURE 1.2—Fetal Deaths, Michigan Residents, 1900-1973



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 1971 through 1973.

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.

The rapidly decreasing number of live births since 1957 coupled with an increasing population has resulted in the 1973 crude birth rate being the lowest ever recorded.

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.

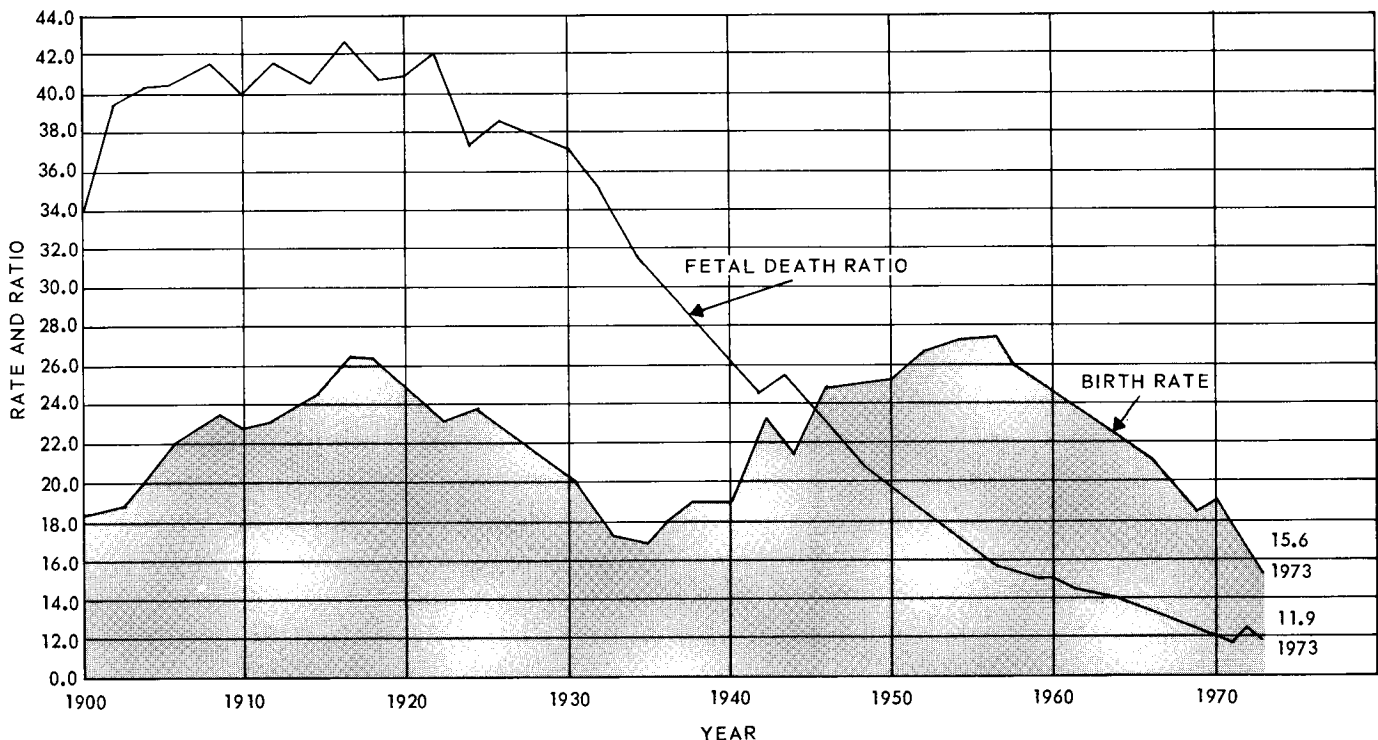
TABLE 1.1—Live Births and Crude Birth Rates, Michigan and United States Residents, Selected Years, 1900-1973

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
3,600,206	17.8	1969	165,760	19.0
3,731,386	18.4	1970	171,667	19.3
3,555,970	17.2	1971	162,244	18.0
3,258,411	15.6	1972	146,854	16.3
3,141,000 Pr.	15.0 Pr	1973	141,550	15.6

TABLE 1.2—Fertility Rates, Michigan and the United States, Selected Years, 1900-1973

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
87.9	1970	91.7
81.8	1971	84.7
73.4	1972	76.5
69.3	1973	73.2

FIGURE 1.3—Live Birth Rate and Fetal Death Ratio, Michigan Residents, 1900-1973



RACIAL COMPOSITION

During the eleven year period from 1963 through 1973, the racial composition of live births in Michigan was also changing. As can be seen from Table 1.3, the number of nonwhite live births increased by 33.6 percent from 19,957 in 1963 to 26,672 in 1973. It

should be noted, however, that nonwhite live births have decreased 4.0 percent between 1970 and 1973.

Inspection of Table 1.3 indicates that in 1963 nonwhite live births accounted for 11.2 percent of all live births to Michigan residents. In 1973, 18.8 percent of all live births were recorded as nonwhite.

TABLE 1.3—Live Births by Race, Michigan Residents, 1963-1973

YEAR	TOTAL BIRTHS		WHITE BIRTHS		NON-WHITE BIRTHS	
	Number	% of all Births	Number	% of all Births	Number	% of all Births
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
1973.....	141,550	100.0	114,878	81.2	26,672	18.8

AGE OF MOTHER

In 1973, 56.2 percent of the live births were to mothers age 24 or less. Only 0.9 percent occurred to women 40 or more years of age. The median age of the mothers was 24 years. Mothers of nonwhite infants were younger (median 22 years) than mothers of white babies. Approximately 67 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 live births to mothers age 15-19 (Table 1.4).

TABLE 1.4—Total Live Births and Percent Distribution by Age of Mother and Race of Child, Michigan Residents, 1973

AGE OF MOTHER	TOTAL		RACE OF CHILD			
			WHITE		NONWHITE	
	No.	%	No.	%	No.	%
Under 15 Years.....	569	0.4	201	0.2	368	1.4
15-19 Years.....	27,808	19.6	19,383	16.9	8,425	31.6
20-24 Years.....	51,284	36.2	42,108	36.7	9,176	34.4
25-29 Years.....	39,845	28.2	34,625	30.1	5,220	19.6
30-39 Years.....	20,683	14.6	17,476	15.2	3,207	12.0
40 Years and Over.....	1,339	0.9	1,072	0.9	267	1.0
Not Stated.....	22	0.0	13	0.0	9	0.0
Total.....	141,550	99.9	114,878	100.0	26,672	100.0
Median Age of Mother.....	24	000	24	000	22	000

ILLEGITIMATE LIVE BIRTHS

In 1900, illegitimate live births for Michigan residents 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 1963 and 1973 the illegitimacy ratio increased from 49.0 to 143.4, an increase of 192.7 percent (Figure 1.4).

Table 1.5 presents a comparison of legitimate and illegitimate live births with respect to several social and health factors. From the table it can be seen that a higher percentage of illegitimate births are accompanied by complications of labor, complications related to pregnancy and complications not related to pregnancy. A greater percentage of mothers having illegitimate children in 1973 have had less than 9 years of education as compared to mothers having legitimate children (6.6 as compared to 2.7). A majority (56.4%) of illegitimate live births are to women less than twenty years of age. The corresponding figure for legitimate live births is 14.0 percent.

Mothers of illegitimate children tend to be somewhat younger than the mothers of legitimate children (Table 1.5). The median age of all mothers having

TABLE 1.5—Illegitimate Live Births by Selected Characteristics, Michigan Residents, 1973

SELECTED CHARACTERISTICS	TOTAL		ILLEGITIMATE		LEGITIMATE	
	LIVE BIRTHS	% OF TOTAL	LIVE BIRTHS	% OF ILLEGITIMATE	LIVE BIRTHS	% OF LEGITIMATE
Low-Weight Birth (2500 grams or less)	10,950	7.7	2,771	13.7	8,179	6.7
Mother's Age <20 Years	28,377	20.0	11,441	56.4	16,936	14.0
Mother's Education—8th Grade or <	4,648	3.3	1,330	6.6	3,318	2.7
Complications of Labor	20,575	14.5	3,302	16.3	17,273	14.2
Complications Related to Pregnancy	12,154	8.6	2,195	10.8	9,959	8.2
Complications Not Related to Pregnancy	3,559	2.5	637	3.1	2,565	2.1
Total	141,550	100.0	20,299	100.0	121,251	100.0

illegitimate births is 20 compared to a median age of 24 for all live births. The median age for nonwhite mothers who have illegitimate births is 20 compared to an overall nonwhite median age of 22. Both the median age of all mothers having illegitimate births and the median age of nonwhite mothers having illegitimate births has increased by one year over the median ages for 1970-1972.

Nonwhite mothers account for approximately 60 percent of all illegitimate births and it can be observed (Table 1.6) 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 1963-1973.

TABLE 1.6—Illegitimate Live Births and Ratio by Age of Mother and Race of Child, Michigan Residents, 1973

AGE OF MOTHER	TOTAL		RACE OF CHILD			
			WHITE		NONWHITE	
	No.	Ratio	No.	Ratio	No.	Ratio
Under 15 Years.....	527	926.2	169	840.8	358	972.8
15-19 Years.....	10,914	392.5	4,686	241.8	6,228	739.2
20-24 Years.....	5,855	114.2	2,214	52.6	3,641	396.8
25-29 Years.....	1,861	46.7	686	19.8	1,175	225.1
30-39 Years.....	1,053	50.9	420	24.0	633	197.4
40 Years and Over.....	79	59.0	33	30.8	46	172.3
Not Stated.....	10	*	5	*	5	*
Total.....	20,299	143.4	8,213	71.5	12,086	453.1
Median Age of Mother.....	20	000	20	000	20	000

FIGURE 1.4—Illegitimate Live Birth Ratio, Michigan Residents, 1900-1973

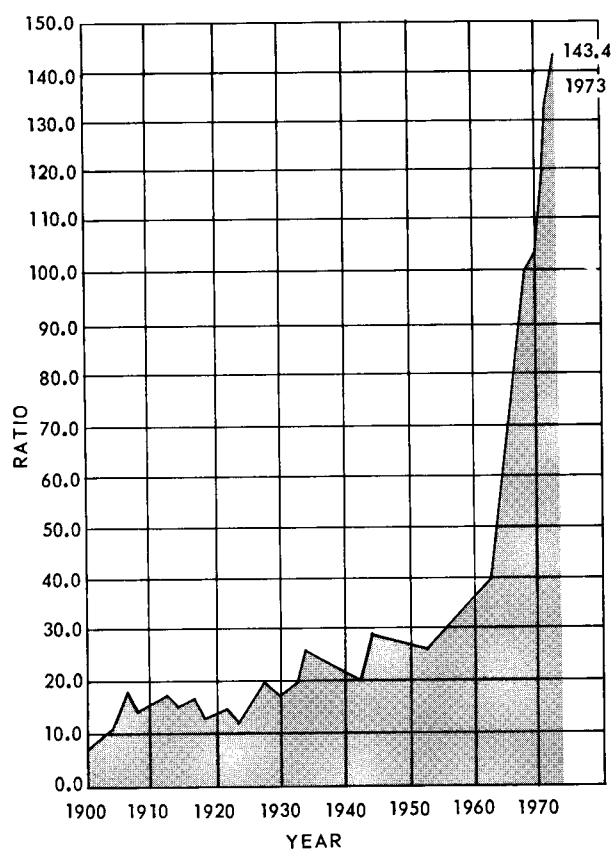


TABLE 1.7—Illegitimate Live Births and Illegitimacy Ratios, Michigan and United States Residents, 1963-1973

UNITED STATES		YEAR	MICHIGAN	
NO. OF ILLEGITIMATE BIRTHS	RATIO		NO. OF ILLEGITIMATE BIRTHS	RATIO
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
360,800	100.2	1969	16,329	98.5
398,700	106.9	1970	18,712	109.0
401,400	112.9	1971	19,098	117.7
403,200	123.7	1972	19,526	133.0
N/A	N/A	1973	20,299	143.4

TABLE 1.9—Low Weight Resident Live Births and Rates By Age of Mother and Race of Child, Michigan Residents, 1973

AGE OF MOTHER	TOTAL		RACE OF CHILD			
			WHITE		NONWHITE	
	NO.	RATE	NO.	RATE	NO.	RATE
Under 15 Years	91	159.9	21	104.5	70	190.2
15-19 Years	2,790	100.3	1,488	76.8	1,302	154.5
20-24 Years	3,873	75.5	2,587	61.4	1,286	140.1
25-29 Years	2,542	63.8	1,895	54.7	647	123.9
30-39 Years	1,525	73.7	1,719	64.0	406	126.6
40 Years and Over	128	95.6	90	84.0	38	142.3
Not Stated	1	*	1	*	—	—
TOTAL	10,950	77.4	7,201	62.7	3,749	140.6
Median Age of Mother	23	000	24	000	21	000

BIRTH WEIGHT

The mean weight for all live births is 3,301 grams or approximately 7 lbs., 4 oz. The median weight is 3,333 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 respectively 3,145 grams (approximately 6 lbs., 15 oz.) and 3,203 grams (7 lbs., 2 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 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).

TABLE 1.8—Live Births by Birth Weight and Legitimacy Status, Michigan Residents, 1973

WEIGHT AT BIRTH	LEGITIMACY STATUS		
	TOTAL	LEGITIMATE	ILLEGITIMATE
500 Grams or Less	228	172	56
501-1000 Grams	632	441	191
1001-1500 Grams	971	673	298
1501-2000 Grams	2,058	1,505	553
2001-2500 Grams	7,061	5,388	1,673
2501-3000 Grams	24,686	19,549	5,137
3001-3500 Grams	52,660	44,997	7,663
3501-4000 Grams	38,921	35,174	3,747
4001-4500 Grams	11,713	10,905	808
4501 and Over	2,468	2,340	128
Not Stated	152	107	45
TOTAL	141,550	121,251	20,299
Mean Weight	3,301	3,342	3,203
Median Weight	3,333	3,365	3,145

PRENATAL CARE

In 1972, 1,485 resident live births (1.0%) 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 21) mothers. Also the lack of prenatal care is disproportionately high among nonwhites. The relative percentage of nonwhites receiving no prenatal care is 4.5 times as large as among whites (Table 1.10).

A total of 102,887 (72.7%) of women having live births started their prenatal care prior to the fourth month of pregnancy. This is an increase over the 70.8 percent figure recorded for 1972. Most women had between 10 and 14 prenatal visits. In addition the second month of pregnancy was the most popular month for initiating prenatal care (Table 1.11).

Since 1970 there has been a small but steady increase in the percentage of women receiving medical care prior to the sixth month of pregnancy. In 1973 over 90.6 percent of women delivering live born received medical care prior to the sixth month (Table 1.12).

TABLE 1.10—Live Births With No Prenatal Care by Age of Mother and Race of Child, Michigan Residents, 1973

AGE OF MOTHER	RACE OF CHILD					
	TOTAL		WHITE		NONWHITE	
	NO.	RATIO	NO.	RATIO	NO.	RATIO
Under 15 Years	29	51.0	10	49.8	19	51.6
15-19 Years	540	19.4	250	12.9	290	34.4
20-24 Years	526	10.3	252	6.0	274	29.9
25-29 Years	210	5.3	104	3.0	106	20.3
30-39 Years	163	7.9	101	5.8	62	19.3
40 Years and Over	17	12.7	12	11.2	5	18.7
Not Stated	—	—	—	—	—	—
TOTAL	1,485	10.5	729	6.3	756	28.3
Median Age of Mother	21	000	22	000	21	000
TOTAL Live Births	141,550		114,878		26,672	

TABLE 1.11—Live Births by Month Prenatal Care Began and Number of Prenatal Visits, Michigan Residents, 1973

MONTH CARE BEGAN	TOTAL	NUMBER OF VISITS						NOT STATED
		NONE	UNDER 5	5-9	10-14	15-19	20 AND OVER	
TOTAL.....	141,550	1,485	8,760	38,869	74,307	11,956	2,535	3,638
No Care.....	1,485	1,485	—	—	—	—	—	—
1st Month.....	12,932	—	269	1,746	7,622	2,259	703	333
2nd Month.....	49,448	—	635	8,376	32,406	5,882	1,124	1,025
3rd Month.....	40,507	—	975	11,353	24,135	2,911	492	641
4th Month.....	16,266	—	1,090	7,493	6,739	597	135	212
5th Month.....	9,100	—	1,354	5,064	2,308	195	43	136
6th Month.....	5,024	—	1,352	2,845	697	54	19	57
7th Month.....	3,080	—	1,412	1,402	210	14	4	38
8th Month.....	1,697	—	1,159	452	64	5	2	15
9th Month.....	543	—	449	55	14	1	1	23
Unknown.....	1,468	—	65	83	112	38	12	1,158

TABLE 1.12—Percentage of Women Having Live Births Who Receive Medical Care Prior to the Sixth Month of Pregnancy, Michigan Residents, 1970-1973

YEAR	PERCENT
1970	86.0
1971	89.6
1972	89.9
1973	90.6

TABLE 1.13—Total Live Births by Live Birth Order, Michigan Residents, 1963 and 1973

LIVE BIRTH ORDER	NO. OF BIRTHS		PERCENT	
	1963	1973	1963	1973
First Birth.....	44,069	56,525	24.6	39.9
Second Birth.....	40,433	42,545	22.6	30.1
Third Birth.....	33,243	20,828	18.6	14.7
Fourth Birth.....	23,913	9,638	13.4	6.8
Fifth Birth or Greater.....	37,101	9,666	20.7	6.8
Not Stated.....	112	2,348	0.1	1.7
TOTAL.....	178,871	141,550	100.0	100.0

BIRTH ORDER

As can be observed from Table 1.13, 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 an 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 20.7 percent in 1963 to 6.8 percent in 1973).

The relative increase in first-order births is not unique to Michigan. As can be observed from Table 1.14 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 (38.7 percent in 1971) than is the case for Michigan residents (37.2 percent in 1971).

As can be observed from Table 1.14, 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.

TABLE 1.14—First Births, Michigan and United States Residents, 1963-1973

UNITED STATES		YEAR	MICHIGAN	
FIRST BIRTHS	% OF ALL BIRTHS		FIRST BIRTHS	% OF ALL BIRTHS
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
1,353,278	37.6	1969	56,497	34.1
1,430,680	38.3	1970	64,222	37.4
1,375,668	38.7	1971	60,413	37.2
1,289,257	29.9	1972	57,477	39.1
N/A	N/A	1973	56,525	39.9

TABLE 1.15—Total Live Births by Live Birth Order and Age of Mother, Michigan Resident, 1973

LIVE BIRTH ORDER	AGE OF MOTHER						TOTAL	MEDIAN AGE
	<20 YEARS	20-24 YEARS	25-29 YEARS	30-39 YEARS	40 AND > YEARS	N/A		
First Birth.....	22,196	22,399	9,683	2,162	74	11	56,525	21
Second Birth.....	4,799	19,233	14,395	4,022	92	4	42,545	24
Third Birth.....	732	6,372	8,937	4,665	120	2	20,828	26
Fourth Birth.....	93	1,807	3,884	3,668	186	—	9,638	28
Fifth Birth or >.....	6	581	2,383	5,845	848	3	9,666	33
Not Stated.....	551	892	563	321	19	2	2,348	23
TOTAL.....	28,377	51,284	39,845	20,683	1,339	22	141,550	24

ATTENDANT AT BIRTH

Data in Table 1.16 reveals that 99.8 percent of the live births are attended by a physician either M.D. or D.O. Only seven live births were attended by a midwife.

TABLE 1.16—Live Births by Type of Attendant, Michigan Residents, 1973

ATTENDANT	NUMBER	PERCENT
TOTAL.....	141,550	100.0
Physician M.D.....	119,335	84.3
Physician D. O.....	21,977	15.5
Registered Nurse.....	8	0.0
Physician's Assistant.....	—	—
Midwife.....	7	0.0
Husband.....	36	0.0
Other Attendant.....	48	0.0
No Attendant.....	35	0.0
Unknown.....	104	0.1

CONGENITAL ANOMALIES

Only 1 percent of the live birth records indicated the presence of one or more congenital anomalies at the time of birth. The birth record may or may not contain information on anomalies noted after delivery and thus the 1 percent figure should be interpreted as the minimum percent of live born with malformations (Table 1.17).

TABLE 1.17—Live Births by Presence of Congenital Anomalies, Michigan Residents, 1973

ANOMALIES RECORDED	NUMBER	PERCENT
TOTAL.....	141,550	100.0
Yes.....	1,427	1.0
No.....	140,123	99.0

FETAL DEATHS

In 1973 there were 1,682 resident Michigan fetal deaths. This is the lowest resident fetal death figure recorded since 1905. The 1973 crude fetal death ratio for Michigan was 11.9 (Table 1.18).

TABLE 1.18—Fetal Deaths and Fetal Death Ratios, Michigan Residents, 1900-1973

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
1,682	1973	11.9

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 1.19.

Due to a relatively large number of deaths allocated to unspecific causes (e.g., 260 deaths were assigned to unknown causes in 1973) the reader should exercise caution in attempting to draw specific inferences regarding cause of death among fetal deaths.

Of 1,682 resident fetal deaths, only 95 or approximately 6.0 percent were reported as due to congenital malformations, 246 or approximately 15.0 percent were due to conditions attributable to the mother, and 187 (11.0%) were reported as due to problems with the pregnancy or delivery. Conditions of the placenta and conditions of the umbilical cord ac-

counted for 645 or 38.0 percent of all fetal deaths. Immaturity (unqualified), other conditions of the fetus, and deaths from unknown causes accounted for 328 or approximately 20.0 percent of all fetal deaths.

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 1.20 and 1.21).

TABLE 1.19—Fetal Deaths by Cause of Death (Underlying) and Cause-Specific Ratios, Michigan Residents, 1973

ICDA LIST NO.	CAUSE OF DEATH	FREQUENCY	RATIO*
740	Anencephalus	29	20.5
741	Spina Bifida	4	2.8
742	Congenital Hydrocephalus	14	9.9
743	Other Congenital Anomalies of Nervous System	4	2.8
746	Congenital Anomalies of Heart	9	6.4
747	Other Congenital Anomalies of Circulatory System	3	2.1
748	Congenital Anomalies of Respiratory System	1	0.7
751	Other Congenital Anomalies of Digestive System	1	0.7
753	Congenital Anomalies of Urinary System	4	2.8
755	Other Congenital Anomalies of Limbs	1	0.7
756	Other Congenital Anomalies of Musculoskeletal System	3	2.1
758	Other and Unspecified Congenital Anomalies	6	4.2
759	Congenital Syndromes Affecting Multiple Systems	16	11.3
760	Chronic Circulatory and Genito-Urinary Diseases in Mother	3	2.1
761	Other Maternal Conditions Unrelated to Pregnancy	99	69.9
762	Toxemia of Pregnancy	86	60.8
763	Maternal Ante- and Intra-Partum Infection	58	41.0
765	Difficult Labor with Disproportion but no Mention of Abnormality of Pelvis	6	4.2
766	Difficult Labor with Malposition of Fetus	15	10.6
767	Difficult Labor with Abnormality of Forces of Labor	1	0.7
768	Difficult Labor with Other and Unspecified Complications	7	4.9
769	Other Complications of Pregnancy and Childbirth	158	111.6
770	Conditions of Placenta	378	267.0
771	Conditions of Umbilical Cord	267	188.6
772	Birth Injury without Mention of Cause	3	2.1
775	Hemolytic Disease of Newborn without Mention of Kernicterus	43	30.4
776	Anoxic and Hypoxic Conditions not Elsewhere Classifiable	135	95.4
777	Immaturity, Unqualified	56	39.6
778	Other Conditions of Fetus or Newborn	12	8.5
779	Fetal Death of Unknown Cause	260	183.7

* Ratios per 100,000 Resident Live Births.

TABLE 1.20—Fetal Deaths, Live Births, and Fetal Death Rates by Age of Mother and Race of Fetus, Michigan Residents, 1973

AGE OF MOTHER AND RACE OF FETUS	FETAL DEATHS	LIVE BIRTHS	TOTAL BIRTHS	RATE PER 1,000 TOTAL BIRTHS
Under 15 Years	12	569	581	20.7
White	2	201	203	10.0
Nonwhite	10	368	378	26.5
15-19 Years	366	27,808	28,174	13.0
White	233	19,383	19,616	11.9
Nonwhite	133	8,425	8,558	15.5
20-24 Years	490	51,284	51,774	9.5
White	340	42,108	42,448	8.0
Nonwhite	150	9,176	9,326	16.1
25-29 Years	381	39,845	40,226	9.5
White	302	34,625	34,927	8.6
Nonwhite	79	5,220	5,299	14.9
30-39 Years	361	20,683	21,044	17.2
White	269	17,476	17,745	15.2
Nonwhite	92	3,207	3,299	27.9
40 and Over	62	1,339	1,401	44.3
White	42	1,072	1,114	37.7
Nonwhite	20	267	287	69.7
Not Stated	10	22	32	*
White	9	13	22	*
Nonwhite	1	9	10	*
TOTAL	1,682	141,550	143,232	11.7
White	1,197	114,878	116,075	10.3
Nonwhite	485	26,672	27,157	17.9

TABLE 1.21—Fetal Deaths by Age of Mother and Race of Fetus, Michigan Residents, 1973

AGE GROUP	RACE OF FETUS							
	TOTAL	%	WHITE	%	BLACK	%	OTHER	%
Under 15	12	0.7	2	0.2	10	2.2	—	—
15-19	366	21.8	233	19.5	123	27.2	10	30.3
20-24	490	29.1	340	28.4	140	31.0	10	30.3
25-29	381	22.7	302	25.2	72	15.9	7	21.2
30-34	239	14.2	187	15.6	48	10.6	4	12.1
35-39	122	7.3	82	6.9	40	8.8	—	—
40-44	55	3.3	38	3.2	16	3.5	1	3.0
45 and Over	7	0.4	4	0.3	3	0.7	—	—
Not Stated	10	0.6	9	0.8	—	—	1	3.0
TOTAL	1,682	100.1	1,197	100.1	452	99.9	33	99.9
Median Age	24	000	25	000	23	000	*	000

* Not computed due to limited number of occurrences.

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 58.6 percent. The distribution of birth weight by plurality for fetal deaths is presented in Table 1.22.

Illegitimate fetal deaths comprised 22.5 percent of all fetal deaths. Illegitimate ratios are particularly high among the young and the nonwhite. Table 1.23 presents a comparison of age specific fetal mortality rates by legitimacy status and Table 1.23 contains illegitimacy ratios for fetal deaths. Note that the fetal mortality rate is highest for those women under age

TABLE 1.23—Fetal Deaths, Live Births, and Fetal Death Rates By Age of Mother and Legitimacy Status, Michigan Residents, 1973

AGE OF MOTHER AND LEGITIMACY STATUS	FETAL DEATHS	LIVE BIRTHS	TOTAL BIRTHS	RATE PER 1,000 TOTAL BIRTHS
Under 15 Years.....	12	569	581	20.7
Legitimate.....	1	42	43	23.3
Illegitimate.....	11	527	538	20.4
15-19 Years.....	366	27,808	28,174	13.0
Legitimate.....	192	16,894	17,086	11.2
Illegitimate.....	174	10,914	11,088	15.7
20-24 Years.....	490	51,284	51,774	9.5
Legitimate.....	393	45,429	45,822	8.6
Illegitimate.....	97	5,855	5,952	16.3
25-29 Years.....	381	39,845	40,226	9.5
Legitimate.....	333	37,984	38,317	8.7
Illegitimate.....	48	1,861	1,909	25.1
30-39 Years.....	361	20,683	21,044	17.2
Legitimate.....	320	19,630	19,950	16.0
Illegitimate.....	41	1,053	1,094	37.5
40 and Over.....	62	1,339	1,401	44.3
Legitimate.....	56	1,260	1,316	42.6
Illegitimate.....	6	79	85	70.6
Not Stated.....	10	22	32	*
Legitimate.....	8	12	20	*
Illegitimate.....	2	10	12	*
TOTAL.....	1,682	141,550	143,232	11.7
Legitimate.....	1,303	121,251	122,554	10.6
Illegitimate.....	379	20,299	20,678	18.3

TABLE 1.22—Fetal Deaths by Fetal Weight and Plurality, Michigan Residents, 1973

WEIGHT	FETAL DEATHS	CUM. %	SINGLE DELIV-ERY	TWIN DELIV-ERY	TRIPLET DELIV-ERY
500 Grams or Less.....	150	8.9	119	31	—
501-1,000 Grams.....	306	27.1	279	25	2
1,001-1,500 Grams.....	182	37.9	168	14	—
1,501-2,000 Grams.....	178	48.5	162	15	1
2,001-2,500 Grams.....	170	58.6	159	11	—
2,501-3,000 Grams.....	130	66.3	121	9	—
3,001-3,500 Grams.....	156	75.6	154	2	—
3,501-4,000 Grams.....	110	82.1	110	—	—
4,001-4,500 Grams.....	45	84.8	45	—	—
4,501-5,000 Grams.....	15	85.7	15	—	—
5,001 and Over Grams.....	9	86.2	9	—	—
Not Stated.....	231	99.9	204	23	4
TOTAL.....	1,682	99.9	1,545	130	7

TABLE 1.24—Illegitimate Fetal Deaths and Ratios* by Age of Mother and Race of Fetus, Michigan Residents, 1973

AGE GROUP	TOTAL	RATIO	WHITE	RATIO	BLACK	RATIO	OTHER**	RATIO
Under 15.....	11	916.7	1	500.0	10	1,000.0	—	—
15-19.....	174	475.4	73	313.3	97	788.6	4	400.0
20-24.....	97	198.0	28	82.4	67	478.6	2	200.0
25-29.....	48	126.0	15	49.7	33	458.3	—	—
30-34.....	22	92.1	7	37.4	14	291.7	1	250.0
35-39.....	19	155.7	9	109.8	10	250.0	—	—
40-44.....	6	109.1	4	105.3	2	125.0	—	—
45 and Over.....	—	—	—	—	—	—	—	—
Not Stated.....	2	—	2	—	—	—	—	—
TOTAL.....	379	225.3	139	116.1	233	515.5	7	212.1

* Ratio computed as=(No. of illegitimate fetal deaths/total fetal deaths) x 1,000

** Includes race not stated.

15 or age 40 and over. However, only 4.2 percent of the fetal deaths occur in these groups. The women in age group (20-24) with the greatest number of fetal deaths (both legitimate and illegitimate) have the lowest fetal death rates. This is expected, but it should be noted that the high fetal death rates are associated with a small number of events.

Of the 1,682 fetal deaths recorded for 1973, 181 or 10.8 percent of the records indicated mothers reported no prenatal visits. The number of prenatal visits was not recorded on 162 (9.6%) of the records.

The month of pregnancy that prenatal care is started among women having stillbirths is most frequently the second month (Table 1.25). Of those reporting, a relatively large percentage (74.0%) had received care before the 6th month of pregnancy.

Since 1970, there has been a steady increase in the percentage of women having stillbirths who receive care prior to the 6th month of pregnancy (Table 1.26).

TABLE 1.25—Fetal Deaths by Month Prenatal Care Began and by Number of Prenatal Visits, Michigan Residents, 1973

MONTH CARE BEGAN	NUMBER OF VISITS							
	TOTAL	NONE	<5	5-9	10-14	15-19	20 AND OVER	NOT STATED
No Care....	181	170	—	—	—	—	—	11
1st Month..	146	—	27	37	47	19	4	12
2nd Month..	465	—	88	156	161	36	16	8
3rd Month..	361	—	102	124	107	13	11	4
4th Month..	177	—	75	40	47	9	1	5
5th Month..	96	—	50	30	13	2	1	—
6th Month..	65	—	50	8	5	—	—	2
7th Month..	27	—	17	10	—	—	—	—
8th Month..	19	—	12	6	—	—	—	1
9th Month..	136	—	4	4	8	1	—	119
Unknown...	9	—	5	3	1	—	—	—
TOTAL....	1,682	170	430	418	389	80	33	162

TABLE 1.26—Percentage of Women Having Still Births Who Received Medical Care Prior to the 6th Month of Pregnancy, Michigan Residents, 1970-1973

YEAR	PERCENT
1970	67.4
1971	70.5
1972	70.8
1973	74.0

MORTALITY

SECTION II

Mortality

An Overview 1973

RESIDENT DEATHS	78,522
CRUDE DEATH RATE	8.7
INFANT DEATHS	2,561
INFANT DEATH RATE	18.1
NEONATAL DEATHS	1,902
NEONATAL DEATH RATE	13.4
PERINATAL DEATHS	3,392
PERINATAL DEATH RATE	23.7
MATERNAL DEATHS	26
MATERNAL DEATH RATE	1.8

Between 1900 to 1973 the number of deaths occurring to Michigan residents increased from 32,453 to 78,522. 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 1973, the crude death rate decreased. The crude death rate in 1900 was 13.4 while the rate in 1973 was 8.7. 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 1973 heart, cancer, and stroke deaths numbered 29,944, 14,220, and 7,987 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 1973 are 330.5, 156.9, and 88.1.

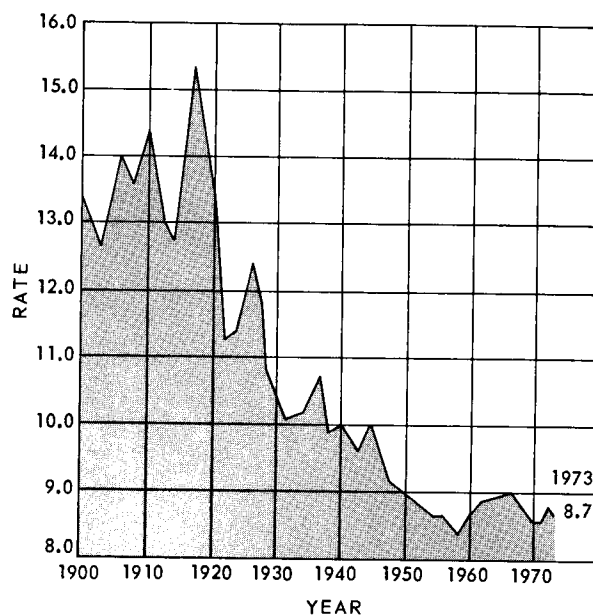
In 1973, 78,522 deaths were recorded as having occurred to residents of Michigan. The crude death rate for 1973 was 8.7. There has been no significant changes in either the absolute number of deaths or the crude death rate over the past few years (Figure 2.1). This rather static pattern in the crude 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 1963 - 1973 is presented in Table 2.1.

The stationary 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

TABLE 2.1—Number of Deaths and Crude Death Rates, Michigan and United States Residents, 1963-1973

UNITED STATES		YEAR	MICHIGAN	
NO.	RATE		NO.	RATE
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
1,921,990	9.5	1969	76,693	8.8
1,921,031	9.5	1970	76,321	8.6
1,927,542	9.3	1971	77,395	8.6
1,963,944	9.4	1972	79,210	8.8
1,969,000 Pr.	9.4 Pr.	1973	78,522	8.7

FIGURE 2.1—Crude Death Rate, Michigan Residents, 1900-1973



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 78,522 resident deaths that occurred in 1973, 44,488 occurred to males and 34,034 occurred to females. The median age of death for males was 67, compared to a significantly higher figure for females of 74. White deaths numbered 68,502 and accounted for 87 percent of all deaths. Negro deaths numbered 9,641 while 379 deaths occurred to members of all other races (Table 2.2).

TABLE 2.2—Number of Deaths by Age, Race and Sex, Michigan Residents, 1973

AGE	TOTAL			WHITE			BLACK			OTHER		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
Under 1 Year . . .	2,561	1,474	1,087	1,749	1,031	718	796	430	366	16	13	3
1-4 Years	500	279	221	348	193	155	149	84	65	3	2	1
5-9 Years	318	198	120	263	160	103	52	35	17	3	3	—
10-14 Years	384	244	140	324	203	121	60	41	19	—	—	—
15-19 Years	1,064	762	302	862	623	239	195	133	62	7	6	1
20-24 Years	1,312	1,000	312	935	721	214	366	273	93	11	6	5
25-29 Years	1,035	722	313	702	484	218	322	233	89	11	5	6
30-34 Years	959	655	304	672	458	214	280	194	86	7	3	4
35-39 Years	1,075	676	399	768	471	297	295	195	100	12	10	2
40-44 Years	1,783	1,120	663	1,306	818	488	457	287	170	20	15	5
45-49 Years	2,916	1,800	1,116	2,240	1,381	859	646	396	250	30	23	7
50-54 Years	4,192	2,647	1,545	3,411	2,157	1,254	753	469	284	28	21	7
55-59 Years	5,620	3,611	2,009	4,792	3,106	1,686	798	487	311	30	18	12
60-64 Years	7,075	4,614	2,461	6,082	3,986	2,096	956	604	352	37	24	13
65-69 Years	8,217	5,217	3,000	7,221	4,641	2,580	946	539	407	50	37	13
70-74 Years	9,214	5,478	3,736	8,263	4,951	3,312	913	503	410	38	24	14
75-79 Years	10,326	5,473	4,853	9,573	5,038	4,535	721	415	306	32	20	12
80-84 Years	9,619	4,562	5,057	9,128	4,339	4,789	477	218	259	14	5	9
85-89 Years	6,602	2,707	3,895	6,306	2,562	3,744	274	137	137	22	8	14
90 and Over	3,745	1,248	2,497	3,553	1,183	2,370	184	63	121	8	2	6
Not Stated	5	1	4	4	1	3	1	—	1	—	—	—
Total	78,522	44,488	34,034	68,502	38,507	29,995	9,641	5,736	3,905	379	245	134
Median Age	70	67	74	71	68	75	57	56	60	61	59	65

The greatest number of deaths occurred to persons 75-79 years of age and the least number to persons ages 5-9. However, the greatest number of deaths for black persons occurred to persons 60-64 years of age. A total of 24,458 (35.7%) of the deaths occurring to white persons take place before the age of 65; whereas, 6,126 or 63.5 percent of deaths occurring to black persons take place before the age of 65.

Furthermore, 41 percent of the white male deaths were to persons less than 65 years of age. The corresponding figure for black males is 67.3 percent.

Similarly for white females, 28.8 percent died before age 65; whereas, 58.0 percent of black female deaths occurred before the age of 65.

Data in Table 2.3 illustrate the higher death rates for males at every age group. The most significant differences occur in the age groups 15-19, 20-24, 25-29 and 30-34. The high death rates for ages 0-4 reflect the influence of infant mortality. Death rates for both males and females age 20-24 are higher than the rates for the immediately preceding (younger) age group and the 25-29 age group.

TABLE 2.3—Death Rates¹ by Age and Sex,
Michigan Residents, 1973

AGE	TOTAL	MALE	FEMALE
All Ages.....	866.6	999.3	738.4
0-4 Years.....	384.8	431.3	335.9
5-9 Years.....	37.3	45.6	28.7
10-14 Years.....	40.6	50.7	30.1
15-19 Years.....	112.8	158.8	65.2
20-24 Years.....	178.3	288.3	80.3
25-29 Years.....	165.8	244.6	95.0
30-34 Years.....	166.9	221.2	109.2
35-39 Years.....	227.7	282.8	170.9
40-44 Years.....	369.2	463.3	274.9
45-49 Years.....	548.2	686.4	413.9
50-54 Years.....	827.6	1,087.0	588.2
55-59 Years.....	1,281.5	1,700.4	886.6
60-64 Years.....	1,981.8	2,706.0	1,320.3
65-69 Years.....	3,002.8	4,083.1	2,054.8
70-74 Years.....	4,937.7	6,183.2	3,270.1
75-79 Years.....	6,991.5	8,973.3	5,597.1
80-84 Years.....	8,630.8	10,786.4	7,345.2
85 and Over.....	16,313.2	17,419.1	15,629.9

¹ Rates per 100,000 population.

LEADING CAUSES OF DEATH

The principal causes of death in Michigan in 1973 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 2.4 and Figure 2.2.

In 1973, the causes Influenza and Pneumonia and Homicide moved up one rank while Diabetes Mellitus and Arteriosclerosis moved back one rank. The tenth leading cause in 1973 is Suicide. New to the list this year, it replaces Emphysema.

FIGURE 2.2—Leading Causes of Death, Michigan Residents, 1973

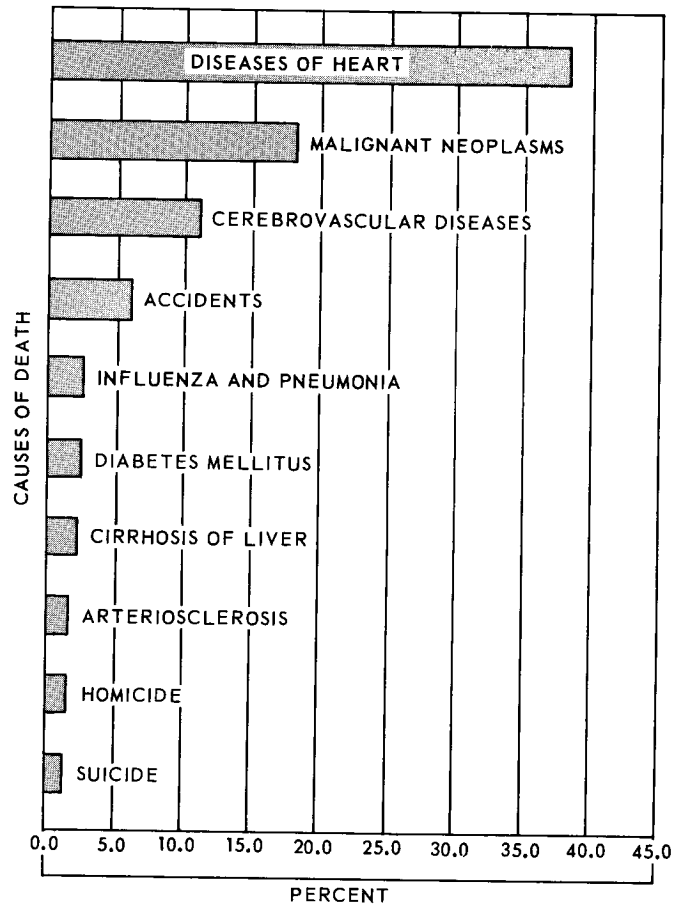


TABLE 2.4—Leading Causes of Death and Cause-Specific Rates,
Michigan and United States Residents, 1973

RANK	CAUSE OF DEATH	NUMBER OF DEATHS		RATE	
		MICHIGAN	U.S. Prov.	MICHIGAN	U.S. Prov.
1	Diseases of Heart	29,944	754,460	330.5	359.5
2	Malignant Neoplasms	14,220	353,440	156.9	168.4
3	Cerebrovascular Diseases	7,987	214,650	88.1	102.3
4	Accidents	4,630	115,040	51.1	54.8
5	Influenza and Pneumonia	2,090	61,160	23.1	29.1
6	Diabetes Mellitus	2,074	36,450	22.9	17.4
7	Cirrhosis of Liver	1,711	33,630	18.9	16.0
8	Homicide	1,180	19,700	13.0	9.4
9	Arteriosclerosis	1,142	33,430	12.6	15.9
10	Suicide	1,117	24,440	12.3	11.6
	Sub Total	66,095	1,646,400	729.4	784.6
	All Other Causes	12,427	330,600	137.1	157.5
	TOTAL	78,522	1,977,000	866.6	942.1

Note: A detailed tabulation of deaths by specific conditions for 1973 is included in Section 4. Also included in Section 4 is a tabulation by County of Residence of selected causes of death.

No major changes in the order of the ten leading causes for the United States were observed. Several major differences between the United States figures and those of Michigan should be noted. The overall Michigan death rate is significantly lower than the national rate. However, some cause-specific rates are higher than comparative national rates. Examples of such causes include Diabetes Mellitus, Cirrhosis of the Liver and Homicides.

DISEASES OF THE HEART

In 1973, 29,944 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, and accidents).

Of the 29,944 deaths due to diseases of the heart

TABLE 2.5—Deaths Due to Diseases of the Heart by Age, by Race and Sex, Michigan Residents, 1973

AGE GROUP	RACE											
	ALL RACES			WHITE			BLACK			OTHER		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
Under 1 Year . . .	14	7	7	9	4	5	5	3	2	—	—	—
1-4 Years	11	6	5	3	2	1	8	4	4	—	—	—
5-9 Years	8	2	6	8	2	6	—	—	—	—	—	—
10-14 Years	7	6	1	6	5	1	1	1	—	—	—	—
15-19 Years	27	18	9	18	11	7	9	7	2	—	—	—
20-24 Years	23	15	8	14	8	6	9	7	2	—	—	—
25-29 Years	45	29	16	32	22	10	13	7	6	—	—	—
30-34 Years	90	62	28	66	48	18	24	14	10	—	—	—
35-39 Years	176	132	44	140	111	29	35	20	15	1	1	—
40-44 Years	401	292	109	319	247	72	79	42	37	3	3	—
45-49 Years	817	642	175	662	541	121	149	97	52	6	4	2
50-54 Years	1,449	1,071	378	1,216	920	296	221	143	78	12	8	4
55-59 Years	2,172	1,572	600	1,876	1,383	493	283	180	103	13	9	4
60-64 Years	2,850	2,027	823	2,467	1,778	689	365	237	128	18	12	6
65-69 Years	3,389	2,221	1,168	2,990	2,000	990	379	207	172	20	14	6
70-74 Years	4,067	2,452	1,615	3,678	2,234	1,444	371	207	164	18	11	7
75-79 Years	4,695	2,487	2,208	4,385	2,311	2,074	295	166	129	15	10	5
80-84 Years	4,573	2,117	2,456	4,359	2,031	2,328	211	85	126	3	1	2
85-89 Years	3,195	1,310	1,885	3,051	1,241	1,810	132	65	67	12	4	8
90 and Over	1,934	642	1,292	1,842	611	1,231	86	29	57	6	2	4
Not Stated	1	—	1	1	—	1	—	—	—	—	—	—
All Ages	29,944	17,110	12,834	27,142	15,510	11,632	2,675	1,521	1,154	127	79	48
Median Age at Death	74	70	78	75	71	78	66	64	69	67	65	71

in 1973, 17,110 were males and 12,834 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 deaths was 74 (Table 2.5).

Examination of Table 2.5 reveals that the heart disease death rate for males is substantially higher than that for females (384.3 as compared to 278.5).

Between the ages 0-4 the death rates are about the same for both sexes. At ages 5-9 and 10-14 death rates were not computed due to the small number of events. For all the remaining age groups, the male heart disease death rate is greater than the female death rate (Table 2.6).

The most prevalent condition in this group of heart disease is acute myocardial infarction (14,724 deaths in 1973) commonly referred to as a "coronary" (Table 2.7). Almost as frequent is chronic ischemic heart disease. In 1973, there were 12,633 deaths attributed to this cause. Together, acute myocardial infarction and chronic ischemic heart disease are the underlying cause in 91.4 percent of all Michigan heart disease deaths. The remaining 8.6 percent of the deaths are distributed among 22 other types of heart disease. Just over 50 percent of the remaining 2,587 deaths can be attributed to two causes: symptomatic heart disease and hypertensive heart disease (966 and 330 deaths respectively).

TABLE 2.7—Deaths Due to Diseases of the Heart by Detailed Cause, Michigan Residents, 1973

ICDA NO.	CAUSE AND SITE	NO. OF DEATHS	PERCENT
410	Acute myocardial infarction	14,724	49.2
412	Chronic ischemic heart disease	12,633	42.2
427	Symptomatic heart disease	966	3.2
402	Hypertensive heart disease	330	1.1
398	Other heart disease specified as rheumatic	184	0.6
395	Disease of aortic valve	157	0.5
404	Hypertensive heart and renal disease	140	0.5
394	Diseases of mitral valve	136	0.5
428	Other myocardial insufficiency	124	0.4
425	Cardiomyopathy	111	0.4
411	Other acute and subacute forms of ischemic heart disease	99	0.3
429	Ill-defined heart disease	72	0.2
426	Pulmonary heart disease	61	0.2
424	Chronic disease of endocardium	46	0.2
396	Diseases of mitral and aortic valve	40	0.1
421	Acute and subacute endocarditis	28	0.1
397	Diseases of other endocardial structures	27	0.1
422	Acute myocarditis	19	0.1
423	Chronic disease of pericardium, non-rheumatic	15	0.1
391	Rheumatic fever with heart involvement	11	0.0
413	Angina pectoris	11	0.0
393	Diseases of pericardium	7	0.0
420	Acute pericarditis, nonrheumatic	2	0.0
390	Rheumatic fever without mention of heart involvement	1	0.0
	TOTAL	29,944	100.0

TABLE 2.6—Heart Disease Death Rates by Age and Sex, Michigan Residents, 1973

AGE	TOTAL	MALE	FEMALE
All Ages.....	330.5	384.3	278.5
0-4 Years.....	3.1	3.2	3.1
5-9 Years.....	*	*	*
10-14 Years.....	*	*	*
15-19 Years.....	2.9	3.8	1.9
20-24 Years.....	3.1	4.3	2.1
25-29 Years.....	7.2	9.8	4.9
30-34 Years.....	15.7	20.9	10.1
35-39 Years.....	37.3	55.2	18.8
40-44 Years.....	83.0	120.8	45.2
45-49 Years.....	153.6	244.8	64.9
50-54 Years.....	286.1	439.8	143.9
55-59 Years.....	495.3	740.3	264.8
60-64 Years.....	798.3	1,188.8	441.5
65-69 Years.....	1,238.5	1,738.3	800.0
70-74 Years.....	2,003.8	2,767.7	1,413.6
75-79 Years.....	3,178.9	4,077.6	2,546.5
80-84 Years.....	4,103.2	5,005.4	3,567.3
85 and Over.....	8,086.5	8,597.2	7,768.5

* Not computed due to the small number of occurrences.

CANCER

Of 78,552 Michigan resident deaths, 14,220 persons died from cancer in 1973. Although not the leading cause of death in Michigan and the United States, cancer affects all the human body's major systems and persons of all ages.

Of the 14,220 cancer deaths in 1973 occurring to Michigan residents, 7,887 were males while 6,333 occurred to females. The median age at death for males was 67 and for female 66 (Table 2.8).

Cancer death rates for males exceed those for females (177.2 as compared to 137.4). However, for ages 30-49 the cancer death rate for females is

TABLE 2.8—Deaths Due to Cancer by Age, by Race and Sex, Michigan Residents, 1973

AGES	RACE											
	ALL RACES			WHITE			BLACK			OTHER		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
Under 1 Year . . .	5	2	3	4	2	2	1	—	1	—	—	—
1-4 Years	49	32	17	42	27	15	7	5	2	—	—	—
5-9 Years	55	33	22	49	31	18	6	2	4	—	—	—
10-14 Years	55	31	24	48	27	21	7	4	3	—	—	—
15-19 Years	75	48	27	65	41	24	10	7	3	—	—	—
20-24 Years	77	54	23	67	46	21	9	7	2	1	1	—
25-29 Years	94	53	41	85	49	36	9	4	5	—	—	—
30-34 Years	97	47	50	81	39	42	16	8	8	—	—	—
35-39 Years	180	80	100	155	67	88	24	12	12	1	1	—
40-44 Years	365	155	210	314	138	176	50	17	33	1	—	1
45-49 Years	754	334	420	617	271	346	134	62	72	3	1	2
50-54 Years	1,127	565	562	942	463	479	180	98	82	5	4	1
55-59 Years	1,584	863	721	1,357	731	626	222	130	92	5	2	3
60-64 Years	1,859	1,116	743	1,618	962	656	237	154	83	4	—	4
65-69 Years	2,028	1,253	775	1,828	1,126	702	196	124	72	4	3	1
70-74 Years	1,951	1,168	783	1,754	1,041	713	194	124	70	3	3	—
75-79 Years	1,776	979	797	1,645	891	754	124	85	39	7	3	4
80-84 Years	1,246	670	576	1,179	632	547	67	38	29	—	—	—
85-89 Years	641	330	311	606	305	301	33	23	10	2	2	—
90 and Over	201	74	127	181	67	114	19	7	12	1	—	1
Not Stated	1	—	1	1	—	1	—	—	—	—	—	—
All Ages	14,220	7,887	6,333	12,638	6,956	5,682	1,545	911	634	37	20	17
Median Age at Death	66	67	66	67	67	67	62	60	59	*	*	*

* Not computed due to the small number of occurrences.

TABLE 2.9—Cancer Death Rates by Age and Sex,
Michigan Residents, 1973

AGE	TOTAL	MALE	FEMALE
All Ages.....	156.9	177.2	137.4
0-4 Years.....	6.8	8.4	5.1
5-9 Years.....	6.5	7.6	5.3
10-14 Years.....	5.8	6.4	5.2
15-19 Years.....	8.0	10.0	5.8
20-24 Years.....	10.5	15.6	5.9
25-29 Years.....	15.1	18.0	12.4
30-34 Years.....	16.9	15.9	18.0
35-39 Years.....	38.1	33.5	42.8
40-44 Years.....	75.6	64.1	87.1
45-49 Years.....	141.8	127.4	155.8
50-54 Years.....	222.5	232.0	213.9
55-59 Years.....	361.2	406.4	318.2
60-64 Years.....	520.7	654.5	398.6
65-69 Years.....	741.1	980.7	530.8
70-74 Years.....	961.2	1,318.4	685.3
75-79 Years.....	1,202.5	1,605.1	919.2
80-84 Years.....	1,118.0	1,584.1	836.6
85 and Over.....	1,327.5	1,779.3	1,071.0

greater than for males. The male/female differential is greatest in the older age groups (Table 2.9).

Deaths from cancer for 59 different causes and sites are presented in Table 2.10. The most common underlying cause of cancer mortality is malignant neoplasm of the Trachea, Bronchus and Lung. In 1973, 21.1 percent of all cancer deaths are attributed to this cause. The second most frequent cause of cancer mortality is cancer of the large intestine (1,529 deaths). Breast cancer (1,326 deaths) is third while malignant neoplasms of the prostate and pancreas are fourth and fifth. These first five of the 59 causes listed constitute 51.1 percent of all cancer deaths in Michigan (Table 2.10).

TABLE 2.10—Malignant Neoplasms by Site Affected,
Michigan Residents, 1973

ICDA NO.	CAUSE AND SITE	NO. OF DEATHS	PERCENT
162	Malignant Neoplasm of Trachea, Bronchus and Lung	3,004	21.1
153	Malignant Neoplasm of Large Intestine, Except Rectum	1,529	10.8
174	Malignant Neoplasm of Breast	1,326	9.3
185	Malignant Neoplasm of Prostate	729	5.1
157	Malignant Neoplasm of Pancreas	710	5.0
151	Malignant Neoplasm of Stomach	612	4.3
199	Malignant Neoplasm without Specification of Site	531	3.7
188	Malignant Neoplasm of Bladder	388	2.7
183	Malignant Neoplasm of Ovary, Fallopian Tube and Broad Ligament	373	2.6
154	Malignant Neoplasm of Rectum and Rectosigmoid Junction	364	2.6
200	Lymphosarcoma and Reticulum-Cell Sarcoma	324	2.3
191	Malignant Neoplasm of Brain	318	2.2
189	Malignant Neoplasm of Other and Unspecified Urinary Organs	301	2.1
150	Malignant Neoplasm of Esophagus	287	2.0
205	Myeloid Leukemia	284	2.0
180	Malignant Neoplasm of Cervix Uteri	264	1.9
197	Secondary Malignant Neoplasm of Respiratory and Digestive Systems	246	1.7
182	Other Malignant Neoplasm of Uterus	218	1.5
156	Malignant Neoplasm of Gall Bladder and Bile Ducts	196	1.4
203	Multiple Myeloma	187	1.3
207	Other and Unspecified Leukemia	168	1.2
204	Lymphatic Leukemia	167	1.2
201	Hodgkin's Disease	151	1.1
202	Other Neoplasms of Lymphoid Tissue	145	1.0
161	Malignant Neoplasm of Larynx	126	0.9
172	Malignant Melanoma of Skin	109	0.8
195	Malignant Neoplasm of Ill-Defined Sites	103	0.7
155	Malignant Neoplasm of Liver and Intrahepatic Bile Ducts, Specified as Primary	84	0.6
171	Malignant Neoplasm of Connective and other Soft Tissue	75	0.5
198	Other Secondary Neoplasms	75	0.5
170	Malignant Neoplasm of Bone	71	0.5

ICDA NO.	CAUSE AND SITE	NO. OF DEATHS	PERCENT
141	Malignant Neoplasm of Tongue	66	0.5
149	Malignant Neoplasm of Pharynx, Unspecified	59	0.4
186	Malignant Neoplasm of Testis	50	0.4
145	Malignant Neoplasm of Other and Unspecified Parts of the Mouth	44	0.3
184	Malignant Neoplasm of Other and Unspecified Female Genital Organs	44	0.3
193	Malignant Neoplasm of Thyroid Gland	43	0.3
192	Malignant Neoplasm of Other Parts of Nervous System	43	0.3
173	Other Malignant Neoplasm of Skin	39	0.3
146	Malignant Neoplasm of Oropharynx	37	0.3
209	Myelofibrosis	31	0.2
208	Polycythemia Vera	30	0.2
158	Malignant Neoplasm of Peritoneum and Retroperitoneal Tissue	28	0.2
163	Malignant Neoplasm of Other and Unspecified Respiratory Organs	27	0.2
144	Malignant Neoplasm of Floor of Mouth	26	0.2
152	Malignant Neoplasm of Small Intestine, Including Duodenum	24	0.2
159	Malignant Neoplasm of Unspecified Digestive Organs	24	0.2
160	Malignant Neoplasm of Nose, Nasal Cavities, Middle Ear and Accessory Sinuses	22	0.2
147	Malignant Neoplasm of Nasopharynx	21	0.1
206	Monocytic Leukemia	20	0.1
148	Malignant Neoplasm of Hypopharynx	19	0.1
194	Malignant Neoplasm of Other Endocrine Glands	13	0.1
190	Malignant Neoplasm of Eye	12	0.1
142	Malignant Neoplasm of Salivary Gland	11	0.1
187	Malignant Neoplasm of Other and Unspecified Male Genital Organs	6	0.0
140	Malignant Neoplasm of Lip	4	0.0
196	Secondary and Unspecified Malignant Neoplasm of Lymph Nodes	4	0.0
143	Malignant Neoplasm of Gum	4	0.0
181	Chorionepithelioma	4	0.0
	TOTAL	14,220	99.9

CEREBROVASCULAR DISEASES

Deaths due to cerebrovascular diseases (stroke) accounted for 7,987 (10.2%) deaths among Michigan residents in 1973. Stroke is the third leading cause of death.

Of the 7,987 deaths due to cerebrovascular diseases in 1973, 3,569 were males while 4,418 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 2.11).

TABLE 2.11—Deaths Due to Cerebrovascular Diseases by Age, Race and Sex, Michigan Residents, 1973

AGES	RACE											
	ALL RACES			WHITE			BLACK			OTHER		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
Under 1 Year . . .	3	3	—	3	3	—	—	—	—	—	—	—
1-4 Years	4	2	2	2	1	1	2	1	1	—	—	—
5-9 Years	6	4	2	5	3	2	1	1	—	—	—	—
10-14 Years	7	4	3	6	4	2	1	—	1	—	—	—
15-19 Years	11	7	4	8	6	2	3	1	2	—	—	—
20-24 Years	12	7	5	8	5	3	4	2	2	—	—	—
25-29 Years	27	16	11	19	9	10	8	7	1	—	—	—
30-34 Years	30	13	17	22	8	14	8	5	3	—	—	—
35-39 Years	46	20	26	30	11	19	16	9	7	—	—	—
40-44 Years	91	47	44	60	27	33	29	18	11	2	2	—
45-49 Years	154	68	86	110	48	62	43	19	24	1	1	—
50-54 Years	221	117	104	180	94	86	41	23	18	—	—	—
55-59 Years	318	183	135	249	148	101	68	35	33	1	—	1
60-64 Years	520	292	228	428	247	181	87	42	45	5	3	2
65-69 Years	705	398	307	581	342	239	121	55	66	3	1	2
70-74 Years	999	518	481	890	468	422	105	49	56	4	1	3
75-79 Years	1,445	661	784	1,327	600	727	117	61	56	1	—	1
80-84 Years	1,529	615	914	1,451	587	864	74	27	47	4	1	3
85-89 Years	1,209	412	797	1,160	388	772	48	23	25	1	1	—
90 and Over	650	182	468	624	176	448	26	6	20	—	—	—
Not Stated	—	—	—	—	—	—	—	—	—	—	—	—
All Ages	7,987	3,569	4,418	7,163	3,175	3,988	802	384	418	22	10	12
Median Age at Death	77	75	79	78	76	80	68	67	69	*	*	*

* Not computed due to the small number of occurrences.

The median age for black persons dying of cerebrovascular disease is 10 years less than for white persons dying of cerebrovascular disease. The median ages at death are 68 and 78 respectively.

The cerebrovascular death rate is greater for females than for males (95.9 as compared to 80.2). However, in only 4 of the 13 age groups for which rates were calculated, were the female rates higher than the male rates. The major factor attributing to the overall male/female differential is cerebrovascular deaths occurring to persons age 85 and over. For this group, female cerebrovascular deaths outnumber the male deaths by more than 2 to 1. (1,265 as compared to 594). The rates are 3,093.2 and 2,616.2 respectively (Table 2.12). A greater number of female as compared to male cerebrovascular diseases is also found for age groups 75-79 and 80-84. But, the male death rates for these two groups are greater than the female death rates.

Cerebral Thrombosis is the type of cerebrovascular disease which results in the greatest number of cerebrovascular deaths. A total of 2,446 persons died of this disease in 1973. Almost an equal percent of the cerebrovascular deaths were classified as acute, but ill-defined cerebrovascular disease (Table 2.13).

TABLE 2.12—Cerebrovascular Disease Death Rates by Age and Sex, Michigan Residents, 1973

AGE	TOTAL	MALE	FEMALE
All Ages.....	88.1	80.2	95.9
0-4 Years.....	*	*	*
5-9 Years.....	*	*	*
10-14 Years.....	*	*	*
15-19 Years.....	*	*	*
20-24 Years.....	*	*	*
25-29 Years.....	4.3	5.4	3.3
30-34 Years.....	5.2	4.4	6.1
35-39 Years.....	9.7	8.4	11.1
40-44 Years.....	18.8	19.4	18.2
45-49 Years.....	29.0	25.9	31.9
50-54 Years.....	43.6	48.0	39.6
55-59 Years.....	72.5	86.2	59.6
60-64 Years.....	145.7	171.2	122.3
65-69 Years.....	257.6	311.5	210.3
70-74 Years.....	492.2	584.7	421.0
75-79 Years.....	978.4	1,083.7	904.2
80-84 Years.....	1,371.9	1,454.1	1,327.6
85 and Over.....	2,930.9	2,616.2	3,093.2

* Not computed due to small number of occurrences.

TABLE 2.13—Cerebrovascular Disease Deaths by Cause, Michigan Residents, 1973

ICDA LIST NO.	CAUSE OF DEATH	NO. OF DEATHS	PERCENT
433	Cerebral Thrombosis	2,446	30.6
436	Acute but Ill-defined Cerebrovascular Disease	2,387	29.9
437	General Ischemic Cerebrovascular Disease	1,241	15.5
431	Cerebral Hemorrhage	1,233	15.4
430	Subarachnoid Hemorrhage	379	4.7
432	Cerebral Occlusion	132	1.7
438	Other and Ill-defined Cerebrovascular Disease	129	1.6
434	Cerebral Embolism	39	0.5
435	Transient Cerebral Ischemia	1	0.0
	TOTAL	7,987	99.9

ACCIDENTS

In 1973, accidents accounted for 4,630 resident deaths in Michigan.

Of the 4,630 deaths due to accidents occurring to Michigan residents in 1973, 3,202 were males while 1,428 occurred to females. The median age at death among males was 30 and females 46 (Table 2.14).

The median age at death for all accidents was 33

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).

The large differential in the median age of accidental deaths for males as compared to females is the result of a greater number of accidental deaths in all age groups except the 3 oldest age groups. Note in particular the large differential in the age groups

TABLE 2.14—Deaths Due to Accidents by Age, Race and Sex, Michigan Residents, 1973

AGES	RACE											
	ALL RACES			WHITE			BLACK			OTHER		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
Under 1 Year . . .	75	48	27	51	33	18	21	13	8	3	2	1
1-4 Years	216	121	95	153	85	68	61	35	26	2	1	1
5-9 Years	147	97	50	118	74	44	26	20	6	3	3	—
10-14 Years	200	142	58	175	121	54	25	21	4	—	—	—
15-19 Years	590	446	144	533	409	124	50	31	19	7	6	1
20-24 Years	572	468	104	501	415	86	61	48	13	10	5	5
25-29 Years	316	245	71	271	216	55	38	27	11	7	2	5
30-34 Years	287	225	62	238	191	47	44	31	13	5	3	2
35-39 Years	181	140	41	149	118	31	31	21	10	1	1	—
40-44 Years	206	157	49	161	121	40	37	28	9	8	8	—
45-49 Years	239	175	64	191	131	60	32	29	3	16	15	1
50-54 Years	236	162	74	195	130	65	35	27	8	6	5	1
55-59 Years	188	143	45	159	121	38	24	17	7	5	5	—
60-64 Years	196	138	58	168	113	55	25	22	3	3	3	—
65-69 Years	182	110	72	162	97	65	15	9	6	5	4	1
70-74 Years	177	108	69	157	96	61	19	12	7	1	—	1
75-79 Years	175	96	79	165	88	77	10	8	2	—	—	—
80-84 Years	190	94	96	182	90	92	5	3	2	3	1	2
85-89 Years	153	60	93	149	60	89	3	—	3	1	—	1
90 and Over	104	27	77	102	26	76	2	1	1	—	—	—
Not Stated	—	—	—	—	—	—	—	—	—	—	—	—
All Ages	4,630	3,202	1,428	3,980	2,735	1,245	564	403	161	86	64	22
Median Age at Death	33	30	46	33	30	49	30	31	27	*	*	*

* Not computed due to the small number of occurrences.

TABLE 2.15—Accident Death Rates by Age and Sex, Michigan Residents, 1973

AGE	TOTAL	MALE	FEMALE
All Ages.....	51.1	71.9	31.0
0-4 Years.....	36.6	41.6	31.3
5-9 Years.....	17.2	22.3	11.9
10-14 Years.....	21.2	29.5	12.5
15-19 Years.....	62.5	92.9	31.1
20-24 Years.....	77.7	134.9	26.8
25-29 Years.....	50.6	83.0	21.5
30-34 Years.....	50.0	76.0	22.3
35-39 Years.....	38.3	58.6	17.6
40-44 Years.....	42.7	64.9	20.3
45-49 Years.....	44.9	66.7	23.7
50-54 Years.....	46.6	66.5	28.2
55-59 Years.....	42.9	67.3	19.9
60-64 Years.....	54.9	80.9	31.1
65-69 Years.....	66.5	86.1	49.3
70-74 Years.....	87.2	121.9	60.4
75-79 Years.....	118.5	157.4	91.1
80-84 Years.....	170.5	222.3	139.4
85 and Over.....	405.2	383.2	415.7

TABLE 2.16—Accidental Deaths by Type of Accident, Michigan Residents, 1973

ICDA LIST NO.	TYPE OF ACCIDENTS	NO. OF DEATHS	PERCENT
E810-E819	Motor Vehicle Traffic Accidents	2,326	50.2
E880-E887	Accidental Falls	652	14.1
E890-E899	Accidents Caused by Fires and Flames	264	5.7
E870-E877	Accidental Poisoning by Gases and Vapors	103	2.2
E850-E859	Accidental Poisonings by Drugs and Medicaments	89	1.9
E840-E845	Air and Space Transport Accidents	69	1.5
E830-E838	Water Transport Accidents	67	1.4
E820-E823	Motor Vehicle Non-traffic Accidents	63	1.4
E930-E936	Surgical and Medical Complications and Misadventures	60	1.3
E900-E909	Accidents Due to Natural and Environmental Factors	40	0.9
E860-E869	Accidental Poisoning by Other Solid and Liquid Substances	37	0.8
E940-E949	Late Effects of Accidental Injury	24	0.5
E800-E807	Railway Accidents	11	0.2
E825-E827	Other Road Vehicle Accidents	6	0.1
E910-E929	Other Accidents	819	17.7
	TOTAL	4,630	99.9

15-19, 20-24 and 25-29. A difference of similar magnitude is observed for white, but not black, accidental deaths.

Death rates as the result of accidents for males is twice as large as that for females. Male accidental death rates are greater than female accidental death rates for all age groups except the group 85 and over. The difference between male and female rates is greatest at age 20-24 where the male rate is 5 times greater than the female rate (Table 2.15).

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 50.2 percent of all accidental deaths occurring in 1973 to Michigan residents. The second (14.1 percent in 1973) major cause of accidental deaths occurring to Michigan residents is accidental falls (Table 2.16).

Except for one change, the listed types of accidents remains in the same order according to the number of deaths, as previous years. The one exception is causes E930-E936 (Surgical and Medical Complications and Misadventures). In 1970, '71 and '72 there were 27, 24 and 13 deaths attributed to this cause. In 1973 there were 60 deaths classified to causes E930-E936.

INFANT DEATHS

Of the 78,552 deaths occurring to Michigan residents in 1973, 2,561 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 2.17, rather steady declines have occurred in infant death rates for Michigan residents and for the United States as a whole during the period from 1963 to 1973.

There are three subclassifications of infant death:

Deaths Under 1 Day 1,131 in 1973
 Deaths Under 7 Days 1,710 in 1973
 Deaths Under 28 Days 1,902 in 1973
 Total Infant Deaths
 (Under 1 Year) 2,561 in 1973

TABLE 2.17—Infant Deaths and Infant Mortality Rates, Michigan and United States Residents, 1963-1973

UNITED STATES		YEAR	MICHIGAN	
NO.	RATE		NO.	RATE
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
75,073	20.9	1969	3,356	20.2
74,667	20.0	1970	3,492	20.3
67,981	19.1	1971	3,157	19.5
60,182	18.5	1972	2,801	19.1
55,300 Prov.	17.6 Pr.	1973	2,561	18.1

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 1973, Michigan resident perinatal deaths numbered 3,392 and the perinatal death rate was 23.7.

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 881 (34.4%) in 1973. Congenital anomalies in 1973 numbered 408. Asphyxia of newborn numbered 254 and immaturity deaths numbered 262.

Influenza and Pneumonia deaths numbered 129, while accidental deaths numbered 75. As can be observed from Table 2.18 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.

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 1973, deaths from all infective and parasitic diseases numbered 544. As can be observed from Table 2.19, the four major causes of death in this group are septicemia (153 deaths), Tuberculosis (138 deaths), Diarrheal disease (67 deaths) and Infectious Hepatitis (32 deaths).

Of particular importance is the fact that infants accounted for 10.1 percent of all infective and parasitic disease deaths while accounting for only 3.3 percent of all deaths. The median age at death for those dying due to infective and parasitic diseases is 60 years.

TABLE 2.18—Infant Deaths by Cause of Death, Michigan Residents, 1973

ICDA LIST NO.	CAUSE	FREQUENCY
740-759	Congenital Anomalies	408
777	Immaturity Unqualified	262
776.9	Asphyxia of Newborn	254
470-474, 480-486	Influenza and Pneumonia	129
764-768 (.0-.3), 772	Birth Injuries	83
E800-E949	Accidents	75
Residual 000-136	Other Infective and Parasitic Diseases	37
550-553, 560	Hernia and Intestinal Obstruction	24
320	Meningitis	20
008, 009	Enteritis and Other Diarrheal Diseases	18
390-398, 402, 404, 410-429	Heart Disease	14
E960-E978	Homicide	7
140-209	Malignant Neoplasms	5
466	Acute Bronchitis and Bronchiocitis	5
490, 491	Chronic and Unqualified Bronchitis	4
430-438	Cerebrovascular Disease	3
531-533	Peptic Ulcer	2
580-584	Nephritis and Nephrosis	2
210-239	Benign Neoplasms	1
493	Asthma	1
571	Cirrhosis of Liver	1
E980-E999	All Other External Causes	1
Residual 770-778	Other Diseases of Early Infancy	881
	All Other Diseases	324
	TOTAL	2,561

TABLE 2.19—Deaths from Selected Infective and Parasitic Diseases, Michigan Residents, 1973

ICDA LIST NO.	CAUSE	FREQUENCY
038	Septicemia	153
010-019	Tuberculosis	138
009	Diarrheal Disease	67
070	Infections Hepatitis	32
065	Viral Encephalitis	18
036	Meningococcal Infections	16
052	Chickenpox	7
093	Cardiovascular Syphilis	7
054	Herpes, Simplex	5
094	Syphilis of Central Nervous System	5
044	Late Effects of Acute Poliomyelitis	3
055	Measles	2
075	Infectious Mononucleosis	1
084	Malaria	1
	All Other	89
	TOTAL	544

MARRIAGE & DIVORCE

SECTION III

Marriage and Divorce An Overview 1973

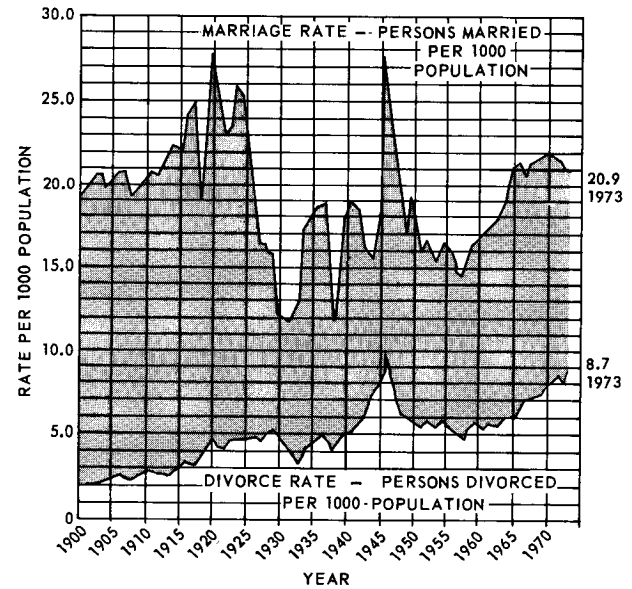
TOTAL MARRIAGES—1973	94,486
TOTAL DIVORCES AND ANNULMENTS—1973	39,415 ¹
MARRIAGE RATE—1973	20.9
DIVORCE RATE—1973	8.7 ¹
MEDIAN AGE OF THE BRIDE—1973	22
MEDIAN AGE OF THE GROOM—1973	23
MEDIAN DURATION OF MARRIAGES ENDING IN 1973	7

¹ Estimate: Divorces for Wayne County, September-December 1972 and Jan.-Dec. 1973 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. A total of 94,486 marriages were recorded in Michigan in 1973 (the greatest number recorded this century). There were an estimated 39,415 divorces and annulments in 1973.

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)

FIGURE 3.1—Marriage and Divorce Rates, Michigan Occurrences, 1900-1973



to a high of 27.7 (1920). The overall trend has been in the direction of an increasing rate over the last decade with the rate being fairly stable in the last half of the decade (Figure 3.1).

TABLE 3.1—Marriages, Divorces and Annulments, Michigan and United States Occurrences, Selected Years, 1920-1973

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	6.4
1970	91,933	29,934	20.7	6.7	21.2	7.0
1971	92,134	31,790	20.5	7.1	21.2	7.4
1972	94,447	35,934 ¹	21.0	8.0	21.8 Prov.	8.0 Prov.
1973	94,486	39,415 ¹	20.9	8.7 ¹	20.4 Prov.	8.8 Prov.

¹ Estimate

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 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. Note, however, that the difference in median age at marriage for males and females is only one year.

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 3.2—Marriages by Residence Status of Bride and Groom, Michigan Occurrences, 1963 and 1973

RESIDENCE STATUS	1963		1973	
	NO.	PERCENT	NO.	PERCENT
Both Bride and Groom Residents.....	60,993	89.5	87,616	92.7
Bride Resident, Groom Non-Resident.....	2,772	4.1	3,427	3.6
Groom Resident, Bride Non-Resident.....	727	1.0	885	0.9
Both Bride and Groom Non-Residents.....	3,668	5.4	2,557	2.7
Residence Status, Not Stated.....	—	—	1	0.0
TOTAL.....	68,160	100.0	94,486	99.9

TABLE 3.3—Number of Marriages by Age and Sex, Michigan Occurrences, 1973

AGE	NUMBER OF MARRIAGES	
	MALE	FEMALE
Under 20*.....	15,564	33,153
20-24.....	40,978	34,701
25-34.....	22,795	15,330
35-44.....	7,026	5,377
45 and Over.....	8,123	5,922
Not Stated.....	0	3
TOTAL.....	94,486	94,486
Median Age.....	23	22

* 14 and Over

TABLE 3.4—Age at First Marriage and Remarriage: Bride, Michigan Occurrences, 1963 and 1973

AGES	1963				1973			
	TOTAL	FIRST MARRIAGE	RE-MARRIAGE	NOT STATED	TOTAL	FIRST MARRIAGE	RE-MARRIAGE	NOT STATED
Under 20.....	25,222	24,842	346	34	33,153	32,658	443	52
Percent.....	37.0	47.5	2.2	57.6	35.1	46.6	1.8	70.3
20-24.....	25,128	22,708	2,406	14	34,701	30,249	4,441	11
Percent.....	36.9	43.4	15.3	23.7	36.7	43.2	18.2	14.9
25-29.....	5,330	2,790	2,537	3	10,379	5,036	5,341	2
Percent.....	7.8	5.3	16.1	5.1	11.0	7.2	21.9	2.7
30-34.....	2,972	857	2,114	1	4,951	1,108	3,841	2
Percent.....	4.4	1.6	13.4	1.7	5.2	1.6	15.8	2.7
35-44.....	4,598	735	3,861	2	5,377	623	4,751	3
Percent.....	6.7	1.4	24.5	3.4	5.7	0.9	19.5	4.1
45 and Over.....	4,897	402	4,490	5	5,922	401	5,517	4
Percent.....	7.2	0.8	28.5	8.5	6.3	0.6	22.7	5.4
Not Stated.....	13	5	8	—	3	1	2	—
Percent.....	0.0	0.0	0.1	—	0.0	0.0	0.0	—
TOTAL.....	68,160	52,339	15,762	59	94,486	70,076	24,336	74
Percent.....	100.0	100.0	100.1	100.0	100.0	100.1	99.9	100.1

TABLE 3.5—Age at First Marriage and Remarriage: Groom, Michigan Occurrences, 1963 and 1973

AGES	1963				1973			
	TOTAL	FIRST MARRIAGE	RE-MARRIAGE	NOT STATED	TOTAL	FIRST MARRIAGE	RE-MARRIAGE	NOT STATED
Under 20.....	9,914	9,860	34	20	15,564	15,468	50	46
Percent.....	14.5	18.8	0.2	45.5	16.5	22.5	0.2	60.5
20-24.....	31,795	30,461	1,321	13	40,978	38,436	2,525	17
Percent.....	46.6	58.0	8.5	29.5	43.4	56.0	9.8	22.4
25-29.....	9,945	7,631	2,309	5	16,027	10,596	5,426	5
Percent.....	14.6	14.5	14.8	11.4	17.0	15.4	21.1	6.6
30-34.....	4,523	2,267	2,256	—	6,768	2,289	4,477	2
Percent.....	6.6	4.3	14.5	—	7.2	3.3	17.4	2.6
35-44.....	5,470	1,569	3,899	2	7,026	1,167	5,858	1
Percent.....	8.0	3.0	25.0	4.5	7.4	1.7	22.8	1.3
45 and Over.....	6,502	746	5,752	4	8,123	726	7,392	5
Percent.....	9.5	1.4	36.9	9.1	8.6	1.1	28.7	6.6
Not Stated.....	11	3	8	—	—	—	—	—
Percent.....	0.0	0.0	0.1	—	—	—	—	—
TOTAL.....	68,160	52,537	15,579	44	94,486	68,682	25,728	76
Percent.....	99.8	100.0	100.0	100.0	100.1	100.0	100.0	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 1973 was 7 years. The increase in the percentage of marriages ending in divorce and lasting less than 10 years was 8.1 during this period (Table 3.6).

Changes in the divorce rate have not generally been as pronounced as those that have occurred with respect to the marriage rate. From 1963 to 1973 the rate of persons divorced per 1,000 population increased from 4.6 to 8.7. The divorce rate has varied from a low of 2.0 (1900-1901) to a high of 10.2 (1946) (Fig. 3.1).

The number of children under 18 affected by

TABLE 3.6—Divorces and Annulments by Duration of Marriage, Michigan Occurrences, 1963 and 1973

DURATION IN YEARS	1963			1973		
	NO.	PERCENT	CUMULATIVE PERCENT	NO.	PERCENT	CUMULATIVE PERCENT
Under 1 Year.....	217	1.2	1.2	277	1.0	1.0
1-4.....	4,997	28.6	29.8	9,447	34.2	35.2
5-9.....	4,508	25.8	55.6	7,890	28.5	63.7
10-14.....	2,968	17.0	72.6	3,807	13.8	77.5
15-19.....	2,203	12.6	85.2	2,414	8.7	86.2
20-24.....	1,343	7.7	92.9	1,759	6.4	92.6
25-29.....	684	3.9	96.8	1,197	4.3	96.9
30-34.....	257	1.5	98.3	450	1.6	98.5
35-39.....	155	0.9	99.2	171	0.6	99.1
40-44.....	65	0.4	99.6	48	0.2	99.3
45-49.....	21	0.1	99.7	42	0.2	99.5
50 and Over.....	15	0.1	99.8	12	0.0	99.5
Not Stated.....	46	0.2	100.0	128	0.5	100.0
TOTAL.....	17,479	100.0	100.0	27,642 ¹	100.0	100.0
Median Duration.....	8	000	000	7	000	000

¹ Actual divorces reported. Does not include divorces which occurred in Wayne County for 1973.

divorce has increased considerably since 1963. While the percentage of divorces with no children present has actually decreased.

In 1963 cruelty was the primary grounds for divorce whereas in 1973 the majority (96.0%) of divorces were "no fault divorces."²

TABLE 3.7—Divorces and Annulments by Children Under 18 Present, Michigan Occurrences, 1963 and 1973

NUMBER OF CHILDREN	DIVORCES AND ANNULMENTS				PERCENTS	
	1963	ESTIMATED TOTAL CHILDREN (MINIMUM)	1973	ESTIMATED TOTAL CHILDREN (MINIMUM)		
					Zero.....	7,310
One.....	3,663	3,663	6,547	6,547	21.0	23.7
Two.....	3,132	6,264	5,426	10,852	17.9	19.6
Three.....	1,797	5,391	2,865	8,595	10.3	10.4
Four.....	889	3,556	1,372	5,488	5.1	5.0
Five or More	628	3,140	832	4,160	3.6	3.0
Not Stated..	60	*	47	*	0.3	0.2
TOTAL.....	17,479	22,014	27,642 ¹	35,642	100.0	100.1

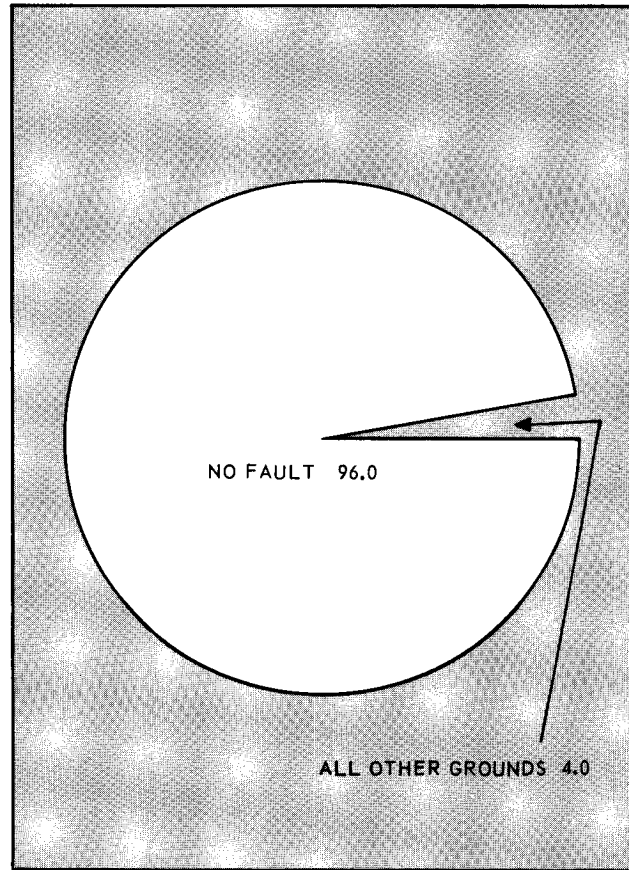
TABLE 3.8—Divorces and Annulments by Legal Grounds for Decrees,² Michigan Occurrences, 1963 and 1973

LEGAL GROUNDS	1963		1973	
	NO.	PERCENT	NO.	PERCENT
Cruelty.....	16,268	93.1	619	2.3
Desertion.....	668	3.8	7	0.0
Nonsupport.....	212	1.2	6	0.0
Fraud.....	141	0.8	111	0.4
Bigamy.....	21	0.1	11	0.0
Conviction of Crime.....	9	0.1	1	0.0
Adultery.....	17	0.1	1	0.0
Drunkenness.....	27	0.2	—	—
No Fault.....	—	—	26,546	96.0
Other.....	24	0.1	162	0.6
Not Stated.....	92	0.5	178	0.6
TOTAL.....	17,479	100.0	27,642 ¹	99.9

¹ Actual divorces reported. Does not include divorces which occurred in Wayne County for 1973.

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

FIGURE 3.2—Divorces and Annulments by Legal Grounds, Michigan Occurrences, 1973



REFERENCE APPENDIX

SECTION IV

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 - 1973

(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	Illegitimate	All Ages	Under 1 Yr	Under 28 Days	Perinatal	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	43,546	383	31,472	5,949				608	1,793	468	25,653	2,826
1903	2,537,739	46,020	490	33,176	5,488				542	1,814	427	26,029	2,945
1904	2,576,658	47,508	562	34,494	6,419				622	1,911	436	26,918	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	2,895,927	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	695	50,805	8,679
1921	3,785,799	96,035	1,366	54,186	7,584				2,481	3,669	700	41,508	7,676
1922	3,903,186	90,042	1,180	43,817	6,730				2,250	3,779	551	43,581	7,591
1923	4,020,573	92,956	1,210	49,333	7,477				1,911	3,657	583	49,569	8,765
1924	4,137,960	98,187	1,443	47,304	7,088	4,119	6,791		1,970	3,703	636	49,788	9,400
1925	4,255,347	98,983	1,258	49,417	7,498	4,022	6,667		1,987	3,670	629	46,276	9,650
1926	4,372,734	98,289	1,669	54,080	7,620	4,054	6,773		1,986	3,816	631	39,788	9,775
1927	4,490,121	99,940	1,872	50,600	6,766	3,915	6,794		1,911	3,834	667	36,276	10,617
1928	4,607,508	97,462	1,853	54,755	6,806	3,739	6,594		1,846	3,701	603	37,300	10,615
1929	4,724,895	98,695	1,632	56,117	6,605	3,777	6,613		1,853	3,710	617	36,816	12,094
1930	4,842,325	98,882	1,600	51,561	6,213	3,624	6,518		1,805	3,714	597	29,482	10,639
1931	4,883,703	90,547	1,633	49,068	5,187	3,084	5,643		1,473	3,220	539	28,856	9,507
1932	4,925,081	85,254	1,697	49,569	4,630	2,798	5,210		1,793	3,769	551	43,581	7,889
1933	4,966,459	80,482	2,041	48,507	4,094	2,591	4,906		1,364	2,776	447	33,132	7,671
1934	5,007,837	83,944	2,124	50,440	4,377	2,717	4,781		1,419	2,607	450	43,241	10,124
1935	5,049,216	87,403	2,194	51,051	4,170	2,550	4,832		1,389	2,717	438	45,313	10,844
1936	5,090,594	88,457	2,157	54,777	4,479	2,647	4,726		1,395	2,625	425	47,203	11,419
1937	5,131,972	91,566	2,234	53,468	4,374	2,700	4,919		1,415	2,707	326	47,954	12,472
1938	5,173,350	96,962	2,331	50,678	4,319	2,734	4,984		1,484	2,732	345	30,105	10,646
1939	5,214,728	94,432	2,217	52,017	3,952	2,594	4,706		1,396	2,572	280	37,725	11,589
1940	5,256,106	99,106	2,280	52,092	4,022	2,629	4,749		1,298	2,602	292	46,342	12,054
1941	5,437,546	107,438	2,370	52,671	4,166	2,687	4,931		1,393	2,769	298	50,989	13,317
1942	5,538,857	124,068	2,532	52,738	4,606	3,091	5,581		1,372	2,980	493	28,552	14,085
1943	5,377,329	125,441	2,569	56,774	4,804	2,979	5,563		1,488	3,213	237	44,385	15,259
1944	5,377,329	113,586	3,115	54,016	4,326	2,784	5,140		1,412	2,874	198	41,678	18,356
1945	5,435,092	111,557	3,485	53,641	4,008	2,670	4,906		1,339	2,703	166	48,329	21,133
1946	5,708,415	138,572	3,908	54,856	4,541	3,323	5,978		1,735	3,168	163	78,808	29,158
1947	6,069,000	160,275	4,311	56,807	5,055	3,677	6,583		1,953	3,422	173	71,319	21,386
1948	6,195,000	153,726	4,310	56,520	4,617	3,352	5,968		1,820	3,132	120	61,986	16,017
1949	6,352,000	156,469	3,953	57,107	4,520	3,232	5,746		1,795	2,994	105	52,109	16,274
1950	6,371,766	160,055	4,425	57,567	4,214	3,043	5,781		1,036	3,095	91	58,180	15,979
1951	6,545,000	172,451	4,367	59,181	4,505	3,296	6,088		1,332	3,158	94	53,411	15,446
1952	6,708,000	177,835	4,513	59,138	4,689	3,414	6,266		1,256	3,224	82	50,487	14,925
1953	6,852,000	182,968	4,770	62,087	4,728	3,389	6,188		1,114	3,180	79	53,308	16,537
1954	7,024,000	192,104	5,610	60,706	4,795	3,560	6,415		1,298	3,249	94	51,243	16,281
1955	7,236,000	196,294	5,883	63,087	4,873	3,707	6,381		1,272	3,029	61	55,698	17,676
1956	7,516,000	206,068	6,494	64,352	5,047	3,796	6,555		1,244	3,245	84	57,068	16,228
1957	7,803,000	208,488	6,789	66,435	5,093	3,884	6,668		1,322	3,154	79	55,121	15,442
1958	7,866,000	202,690	6,816	65,899	4,980	3,789	6,516		1,208	3,101	69	55,159	14,040
1959	7,960,000	198,301	6,729	66,812	4,846	3,674	6,250		1,201	2,928	72	58,826	16,168
1960	7,823,194	195,056	7,200	67,912	4,702	3,580	6,247		1,148	3,008	75	61,090	16,656
1961	7,903,000	192,825	8,017	67,375	4,604	3,475	5,875		1,003	2,735	78	63,320	16,219
1962	7,939,000	182,790	7,998	70,049	4,367	3,251	5,669		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	2,540	71	68,160	17,479
1964	8,100,000	175,103	9,724	72,129	4,043	3,071	5,293		807	2,466	62	73,911	19,420
1965	8,199,283	166,464	10,888	73,665	3,936	2,909	5,139		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	2,295	54	83,903	21,727
1967	8,615,000	162,756	13,403	75,360	3,595	2,714	4,693		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	2,064	44	90,984	25,400
1969	8,734,000	165,760	16,329	76,693	3,356	2,550	4,488		459	2,175	27	93,392	28,367
1970	8,875,083	171,667	18,712	76,321	3,492	2,683	4,522		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	1,923	32	92,134	31,790
1972	9,013,475	146,854	19,526	79,210	2,801	2,113	3,700		316	1,770	35	96,447	35,934
1973	9,061,000	141,050	20,299	78,522	2,581	1,902	3,392		263	1,682	26	94,486	39,415

*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 estimates.

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

*1971 - 1973: 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, 1900-1973

(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	Illegit- imate	All Ages	Under 1 Yr	Under 28 Days	Peri- natal	Due to Immaturity	Fetal	Maternal	Married	Divorced
1900	18.1	7.6	13.4	157.1			14.2	30.3	103.4	19.2	2.0
1901	17.6	8.4	13.3	146.2			12.1	34.7	122.9	19.6	2.0
1902	18.2	8.4	12.6	130.6			13.3	39.4	102.8	20.5	2.3
1903	18.1	13.6	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
1973	15.6	143.4	8.7	18.1	13.4	23.7	2.9	11.9	1.8	20.9	8.7

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, 1900-1973

Year	Diphtheria	Streptococcal Sore Throat (Including Scarlet Fever)	Smallpox	Typhoid Fever	Whooping Cough	Measles	Hepatitis, Infectious and Serum	Tuberculosis (all forms)	Meningococcal Infections	Polio-myelitis	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	468				
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	39,966		5,387	107	107	14,872	10,707	103
1927	4,575	11,011	1,467	581	6,818	8,303		5,406	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	186	16,606	9,661	333
1930	3,206	11,174	2,375	504	7,937	28,129		5,128	901	208	16,538	8,554	163
1931	1,831	13,023	915	424	11,448	6,212		6,132	293	1,137	14,662	7,843	170
1932	1,188	15,255	222	513	13,091	42,129		7,103	129	112	11,969	6,963	140
1933	1,152	16,419	46	453	11,720	21,654		6,624	86	93	7,691	6,447	85
1934	614	19,238	49	486	11,255	6,528		5,264	53	230	6,483	6,188	132
1935	645	11,849	16	355	13,427	79,061		4,642	113	614	6,416	6,372	110
1936	661	12,650	32	287	14,287	2,453		5,157	120	152	6,401	6,460	133
1937	842	24,798	152	241	11,426	6,154		6,469	87	421	8,708	7,072	244
1938	619	18,362	274	285	14,563	79,400		6,335	69	59	14,684	7,046	341
1939	452	15,836	371	177	8,997	12,948		6,119	46	904	13,144	6,364	286
1940	264	10,366	76	120	11,757	20,206		6,063	49	1,228	9,999	7,650	218
1941	242	8,756	114	147	16,512	70,748		5,371	49	270	11,370	8,767	359
1942	243	7,503	17	74	11,602	8,569		5,720	66	162	12,461	8,753	276
1943	281	5,044	18	115	12,091	51,764		6,546	757	255	15,933	9,526	260
1944	419	8,963	10	78	4,049	26,711		6,419	857	884	17,288	11,987	185
1945	630	9,304	16	59	5,339	6,328	134	5,471	270	215	16,046	12,565	244
1946	385	5,977	3	85	8,116	42,261	34	5,548	185	1,091	18,051	12,635	206
1947	238	4,834	1	77	10,472	9,574	14	6,470	113	646	15,276	10,989	216
1948	126	5,934	-	49	2,668	42,952	9	6,109	107	775	12,100	9,448	465
1949	119	8,852	-	48	4,157	20,279	28	5,953	120	2,909	8,740	9,427	336
1950	84	4,665	-	43	9,184	38,245	48	5,538	133	2,029	8,830	8,678	202
1951	48	8,181	-	33	3,156	15,227	325	6,144	138	1,463	6,532	8,494	187
1952	45	8,325	-	53	1,992	32,941	283	6,152	169	3,912	7,377	7,691	58
1953	12	5,885	-	31	2,932	23,334	868	5,643	151	2,346	5,619	8,790	43
1954	57	5,142	-	30	5,620	40,725	1,419	5,764	150	2,168	4,686	9,940	47
1955	59	5,880	-	24	4,249	23,882	1,244	5,488	170	1,177	4,865	10,306	58
1956	220	7,349	-	56	1,907	41,966	814	5,515	182	656	4,785	9,598	52
1957	130	7,193	-	12	1,363	19,070	657	5,011	175	498	4,571	8,428	97
1958	6	5,380	-	18	1,233	41,448	688	5,587	228	1,228	4,267	8,621	178
1959	3	9,452	-	8	3,001	12,234	1,136	4,743	141	448	3,421	8,033	136
1960	9	9,287	-	14	1,129	36,161	2,113	4,127	169	88	3,647	8,372	112
1961	3	8,347	-	7	639	29,391	4,607	3,838	253	40	3,309	9,505	102
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	5,862	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
1973	-	24,467	-	14	86	4,552	3,872	1,473	54	-	4,375	31,086	217

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

Office of Planning and Evaluation
 Michigan Department of Public Health

TABLE 4.4
CASE RATES OF CERTAIN REPORTED COMMUNICABLE DISEASES
MICHIGAN OCCURRENCES, 1900-1973
(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	3.7			
1911	129.9	178.8	31.0	91.8	65.5	332.8		181.4	16.5	2.3			
1912	110.5	152.0	37.8	95.5	42.1	95.0		65.7	3.0	2.6			
1913	179.5	135.0	65.0	73.4	30.3	299.4		62.6	5.4	1.8			
1914	163.3	119.5	48.4	68.7	57.8	360.1		81.4	6.5	1.6			
1915	135.4	105.0	33.8	60.4	69.7	137.0		112.6	3.3	2.9			
1916	169.2	208.5	47.5	75.6	55.2	365.2		212.8	4.9	18.0			
1917	249.2	419.9	107.7	50.5	94.1	424.3		142.4	2.2	2.7			
1918	175.2	170.0	149.9	38.3	73.3	192.4		104.5	2.7	3.5	141.7	220.8	5.2
1919	220.4	175.0	66.5	35.0	51.1	248.0		118.1	2.1	4.3			
1920	282.4	280.2	131.3	38.7	195.5	609.6		136.1	5.5	1.8	221.3	312.5	7.1
1921	318.9	287.7	119.2	48.5	176.9	80.4		150.8	4.6	12.8	196.0	258.2	4.0
1922	218.1	248.2	31.5	28.4	144.5	310.2		142.8	4.1	1.1	202.4	248.9	2.3
1923	192.1	320.1	57.5	24.4	189.5	747.2		136.1	4.6	1.0	260.7	238.7	5.8
1924	145.3	313.9	109.4	18.9	105.5	442.0		134.6	3.8	15.6	314.2	253.5	4.4
1925	92.2	289.1	18.4	22.6	178.0	242.8		135.9	3.0	2.3	344.7	250.5	2.4
1926	123.0	290.0	12.6	13.3	200.7	913.5		123.2	2.2	2.4	340.1	244.9	2.4
1927	101.9	245.2	32.7	12.9	151.8	184.9		120.4	3.1	6.3	349.9	207.5	2.4
1928	80.8	227.6	29.0	8.5	210.5	586.9		127.7	6.0	1.7	332.6	186.5	2.2
1929	97.7	301.5	51.0	6.6	197.7	381.8		132.2	39.4	3.8	351.4	204.5	7.0
1930	66.2	230.8	49.0	10.4	163.9	580.9		105.9	18.6	4.3	361.5	176.6	3.4
1931	37.5	266.7	18.7	8.7	234.4	127.2		125.6	6.0	23.3	300.2	160.6	3.5
1932	24.1	309.7	4.5	10.4	265.8	855.4		144.2	2.6	2.3	243.0	141.4	2.8
1933	23.2	330.6	0.9	9.1	236.0	436.0		133.4	1.7	1.9	154.9	129.8	1.7
1934	12.3	384.2	1.0	9.7	224.8	130.4		105.1	1.1	4.6	129.5	123.6	2.6
1935	12.8	234.7	0.3	7.0	265.9	1,565.8		91.9	2.2	12.2	127.1	126.2	2.2
1936	13.0	248.5	0.6	5.6	280.7	48.2		101.3	2.4	3.0	125.7	126.9	2.6
1937	16.4	483.2	3.0	4.7	222.6	119.9		126.1	1.7	8.2	169.7	137.8	4.8
1938	12.0	354.9	5.3	5.5	281.5	1,534.8		122.5	1.3	1.1	283.8	136.2	6.6
1939	8.7	303.7	7.1	3.4	172.5	248.3		117.3	0.9	17.3	252.0	122.0	5.5
1940	5.0	197.2	1.4	2.3	223.7	384.4		115.3	0.9	23.4	190.2	145.5	4.1
1941	4.5	161.0	2.1	2.7	303.7	1,301.1		98.8	0.9	5.0	209.1	161.2	6.6
1942	4.4	135.5	0.3	1.3	209.5	154.7		103.3	1.2	2.9	225.0	158.0	5.0
1943	5.2	93.8	0.3	2.1	224.8	962.6		121.7	14.1	6.7	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	-	0.8	43.1	693.3	0.1	98.6	1.7	12.5	195.3	152.5	7.5
1949	1.9	139.4	-	0.8	65.4	319.3	0.4	93.7	1.9	45.8	137.6	148.4	5.3
1950	1.3	73.2	-	0.7	144.1	600.2	0.8	86.9	2.1	31.8	138.6	136.2	3.2
1951	0.7	125.0	-	0.5	48.2	232.7	5.0	93.9	2.1	22.4	99.8	129.8	2.9
1952	0.7	124.1	-	0.8	29.7	491.1	4.2	91.7	2.5	58.3	110.0	114.7	0.9
1953	0.2	85.9	-	0.5	42.8	340.5	12.7	82.4	2.2	34.2	82.0	128.3	0.6
1954	0.8	73.2	-	0.4	80.0	579.8	20.2	82.1	2.1	30.9	66.7	141.5	0.7
1955	0.8	81.3	-	0.3	58.7	330.0	17.2	75.8	2.3	16.3	67.2	142.4	0.8
1956	2.9	97.8	-	0.7	25.4	558.4	10.8	73.4	2.4	8.7	63.7	127.7	0.7
1957	1.7	92.2	-	0.2	17.5	244.4	8.4	64.2	2.2	6.4	58.6	108.0	1.2
1958	0.1	68.4	-	0.2	15.7	526.9	8.7	71.0	2.9	15.6	54.2	109.6	2.3
1959	0.0	118.7	-	0.1	37.7	153.7	14.3	59.6	1.8	5.6	43.0	100.9	1.7
1960	0.1	118.7	-	0.2	14.4	462.2	27.0	52.8	2.2	1.1	46.6	107.0	1.4
1961	0.0	105.6	-	0.1	8.1	371.9	58.3	48.6	3.2	0.5	41.9	120.3	1.3
1962	0.1	102.2	-	0.2	22.1	318.7	41.3	43.8	1.8	0.3	54.6	146.8	0.9
1963	0.1	149.0	-	0.2	17.6	607.1	33.1	41.1	1.3	0.2	68.6	137.5	1.2
1964	0.0	212.7	-	0.2	11.8	381.4	30.5	37.6	1.0	0.0	64.4	148.5	1.3
1965	-	178.3	-	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	-	0.1	7.9	183.4	31.1	39.2	1.6	0.0	70.3	185.5	1.4
1967	0.0	154.0	-	0.1	12.3	12.2	22.2	34.2	0.9	0.0	64.8	198.4	0.9
1968	-	116.4	-	0.0	4.9	4.1	27.2	30.2	1.1	0.0	61.7	209.3	1.2
1969	-	111.8	-	0.1	2.2	4.6	38.5	24.4	1.3	0.0	43.6	212.2	1.2
1970	-	133.7	-	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	-	0.1	1.6	29.6	53.7	19.9	0.7	-	53.4	247.4	1.0
1972	0.0	147.6	-	0.1	1.3	26.1	48.0	18.1	0.6	0.0	54.3	274.6	1.9
1973	-	270.0	-	0.2	0.9	50.2	42.7	16.3	0.6	-	48.3	343.1	2.4

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, 1900-1973
 (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	3,210	97.0	44	1.6	234	7.1		
1918	686	19.6	181	5.2	18	0.5	337	9.6	496	14.2	270	7.7	3,059	87.5	3,612	103.3	58	1.8	290	9.1		
1919	764	21.3	179	5.0	10	0.3	272	7.6	172	4.8	183	5.1	2,620	73.1	3,127	87.3	80	2.2	299	8.2		
1920	888	24.2	305	8.3	14	0.4	297	8.1	511	13.9	436	11.9	2,645	72.1	3,149	85.8	30	0.8	314	8.4		
1921	954	25.2	334	8.8	12	0.3	285	7.5	316	8.3	58	1.5	2,285	60.4	2,736	72.3	100	2.6	226	5.9	14	0.4
1922	620	15.9	217	5.6	20	0.5	192	4.9	232	5.9	232	5.9	2,232	57.2	2,654	68.0	21	0.5	186	4.7	6	0.2
1923	675	16.8	304	7.6	13	0.3	202	5.0	323	8.0	258	6.4	2,410	59.9	2,837	70.6	18	0.5	262	6.8	5	0.1
1924	470	11.4	265	6.4	226	5.5	149	3.6	169	4.1	221	5.3	2,474	59.8	2,952	71.3	116	3.0	271	7.0	15	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	-	-	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	-	-	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	-	-	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	-	-	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	-	-	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	-	-	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	-	-	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	-	-	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	-	-	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	-	-	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	-	-	6	0.1	44	0.8	47	0.8	1,645	28.8	1,843	32.3	89	1.6	547	9.6	-	-
1947	23	0.4	6	0.1	-	-	5	0.1	63	1.0	5	0.1	1,483	26.4	1,643	27.1	29	0.5	502	8.3	3	0.0
1948	8	0.1	1	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	-	-
1949	11	0.2	4	0.1	-	-	1	0.0	22	0.3	33	0.5	1,254	19.7	1,400	22.0	216	3.4	455	7.2	-	-
1950	2	0.0	1	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	-	-	-	-	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	-	-	-	-	-	-	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	-	-	-	-	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	-	-	-	-	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	-	-	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	-	-	6	0.1	26	0.3	20	0.3	426	5.7	466	6.2	22	0.3	114	1.5	4	0.1
1957	1	0.0	-	-	-	-	6	0.1	23	0.3	23	0.3	403	5.2	442	5.7	15	0.2	105	1.3	4	0.1
1958	-	-	-	-	-	-	1	0.0	18	0.2	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	-	-	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	-	-	-	-	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	-	-	-	-	2	0.0	13	0.2	307	3.9	332	4.2	-	-	71	0.9	7	0.1
1962	2	0.0	1	0.0	-	-	-	-	2	0.0	8	0.1	307	3.9	331	4.2	2	0.0	94	1.2	3	0.0
1963	-	-	-	-	-	-	-	-	-	-	27	0.2	276	3.4	299	3.7	1	0.0	72	0.9	1	0.0
1964	-	-	-	-	-	-	-	-	2	0.0	11	0.1	288	3.6	315	3.9	1	0.0	66	0.8	3	0.0
1965	-	-	-	-	-	-	-	-	-	-	5	0.1	261	3.2	285	3.5	-	-	65</			

TABLE 4.6

NUMBER OF DEATHS AND DEATH RATES BY SPECIFIED CAUSES
MICHIGAN RESIDENTS, 1900-1973
(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	2,991	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	3,016	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	120.0	2,362	67.5		
1919	5,651	157.7	2,990	83.5	3,483	97.2	2,612	72.9	328	9.2	559	15.6	4,081	113.9	2,183	60.9		
1920	6,732	183.5	3,158	86.1	3,876	105.7	2,646	72.1	397	10.8	577	15.7	5,794	157.9	2,512	68.5		
1921	6,176	163.1	3,373	89.1	3,931	103.8	2,476	65.4	403	10.6	586	15.5	2,849	75.3	2,481	65.5		
1922	6,897	176.7	3,481	89.2	4,041	103.5	2,475	63.4	529	13.6	650	16.7	3,728	95.5	1,793	45.9		
1923	7,266	180.7	3,545	88.2	4,420	109.9	2,826	70.3	677	16.8	635	15.8	4,719	117.4	1,911	47.5		
1924	6,985	168.8	3,824	92.4	4,241	102.5	3,090	74.7	1,001	24.2	661	16.0	3,332	80.5	1,970	47.6		
1925	7,540	177.2	3,858	90.7	4,623	108.6	3,278	77.0	1,103	25.9	746	17.5	3,294	77.4	1,987	46.7		
1926	8,281	189.4	4,087	93.5	4,663	106.6	3,557	81.3	1,221	27.9	743	17.0	4,440	101.5	1,986	45.4		
1927	8,780	195.5	4,264	95.0	4,378	97.5	3,634	80.9	1,389	30.9	819	18.2	3,543	78.9	1,911	42.6		
1928	9,786	212.4	4,381	95.1	4,718	102.4	3,704	80.4	1,429	31.0	905	19.6	4,518	98.1	1,846	40.1		
1929	10,185	215.6	4,571	96.7	4,694	99.3	3,913	82.8	1,552	32.8	935	19.8	4,216	89.2	1,853	39.2		
1930	9,947	205.4	4,572	94.4	4,533	93.6	3,805	78.6	1,572	32.5	880	18.2	3,321	68.6	1,805	37.3	1,047	21.6
1931	10,206	209.0	4,763	97.5	4,388	89.8	3,630	74.3	1,516	31.0	950	19.5	2,883	59.0	1,473	30.2	1,005	20.6
1932	11,162	226.6	4,935	100.2	4,518	91.7	3,179	64.5	1,229	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	26.7	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	28.8	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	17,116	331.3	7,127	132.5	5,311	98.8	3,480	64.7	1,025	19.1	1,535	28.5	2,931	54.5	1,488	27.7	1,092	20.3
1944	17,004	316.2	7,277	135.3	4,954	92.1	3,350	62.3	1,103	20.5	1,554	28.9	2,369	44.1	1,412	26.3	980	18.2
1945	17,421	320.5	7,486	137.7	5,295	97.4	3,432	63.1	1,199	22.1	1,561	28.7	1,932	35.5	1,339	24.6	970	17.8
1946	17,691	309.9	7,845	137.4	5,224	91.5	3,776	66.1	1,506	26.4	1,530	26.8	1,891	33.1	1,735	30.4	933	16.3
1947	18,412	303.4	8,188	134.9	5,426	89.4	3,848	63.4	1,499	24.7	1,618	26.7	2,089	34.4	1,953	32.2	1,031	17.0
1948	18,726	302.3	8,336	134.6	5,272	85.1	4,017	64.8	1,545	24.9	1,771	28.6	1,853	29.9	1,820	29.4	1,085	17.5
1949	19,137	301.3	8,697	136.9	5,438	85.6	3,838	60.4	1,493	23.5	1,884	29.7	1,885	29.7	1,795	28.3	1,135	17.9
1950	20,521	322.1	8,685	136.3	6,376	100.1	3,783	59.4	1,680	26.4	1,438	22.6	1,358	21.3	1,096	17.2	1,296	20.3
1951	21,118	322.6	9,187	140.4	6,579	100.5	3,916	59.8	1,806	27.6	1,374	21.0	1,619	24.7	1,232	18.8	1,312	20.0
1952	21,247	316.8	9,256	138.0	6,521	97.2	3,901	58.2	1,815	27.1	1,339	20.0	1,571	23.4	1,256	18.7	1,294	19.3
1953	22,425	327.3	9,904	144.5	7,045	102.8	4,375	63.8	2,051	29.9	1,419	20.7	1,538	22.4	1,114	16.3	1,270	18.5
1954	22,362	318.4	10,105	143.9	6,964	99.1	3,948	56.2	1,916	27.3	1,469	20.9	1,380	19.6	1,298	18.5	1,170	16.7
1955	23,440	323.9	10,297	142.3	7,362	101.7	4,213	58.2	2,129	29.4	1,415	19.6	1,538	21.3	1,272	17.2	1,237	17.1
1956	24,661	328.1	10,489	139.6	7,114	94.7	3,925	52.2	1,826	24.3	1,443	19.2	1,723	22.9	1,244	16.6	1,251	16.6
1957	25,369	325.1	10,810	138.5	7,632	97.8	3,643	46.7	1,680	21.5	1,510	19.4	2,045	26.2	1,322	16.9	1,248	16.0
1958	25,215	320.6	10,946	139.2	7,547	95.9	3,306	42.0	1,466	18.6	1,595	20.3	2,076	26.4	1,208	15.4	1,300	16.5
1959	25,323	318.1	11,113	139.6	7,700	96.7	3,666	46.1	1,587	19.9	1,715	21.5	1,810	22.7	1,201	15.1	1,403	17.6
1960	25,728	328.9	11,331	144.8	7,682	98.2	3,688	47.1	1,710	21.9	1,784	22.8	2,002	25.6	1,148	14.7	1,352	17.3
1961	25,519	322.9	11,476	145.2	7,745	98.0	3,692	46.7	1,656	21.0	1,778	22.5	1,692	21.4	1,003	12.7	1,448	18.3
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					

TABLE 4.7
SELECTED VITAL STATISTICS BY COUNTY
MICHIGAN RESIDENTS, 1973

Area	Provisional 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	9,061,000	141,550	20,299	10,950	78,522	2,561	1,902	3,392	1,682	94,486	39,415
Alcona	8,300	114	10	7	106	1	1	2	1	83	20
Alger	8,200	121	8	5	95	7	6	5	-	72	-
Allegan	69,800	1,167	72	78	609	13	9	20	11	734	280
Alpena	32,300	508	34	39	277	9	8	14	8	346	115
Antrim	13,900	209	16	9	141	3	-	1	1	135	40
Arenac	12,500	207	16	18	141	3	3	3	-	146	31
Baraga	7,700	110	6	8	115	-	-	2	2	75	24
Barry	40,800	580	45	37	379	8	6	12	7	379	170
Bay	118,700	1,886	154	108	1,029	27	20	36	19	1,305	438
Benzie	9,000	127	12	6	141	5	3	4	2	140	40
Berrien	167,400	2,905	570	224	1,568	58	44	64	28	2,142	888
Branch	39,600	612	52	37	377	8	6	11	6	442	145
Calhoun	140,600	2,264	381	168	1,348	39	28	50	26	1,733	830
Cass	43,000	696	68	41	442	14	9	12	4	484	242
Charlevoix	17,700	221	18	13	208	3	3	6	3	191	72
Cheboygan	18,700	282	20	15	196	2	2	4	2	185	45
Chippewa	34,400	724	51	36	334	10	9	15	7	387	121
Clare	19,300	267	30	19	214	1	1	3	2	233	65
Clinton	48,500	769	35	43	306	11	10	20	10	411	136
Crawford	7,700	97	8	8	85	3	3	2	-	84	33
Delta	38,000	546	47	30	400	14	9	16	7	436	109
Dickinson	24,000	311	17	16	297	1	1	5	4	291	84
Eaton	72,800	1,060	60	73	529	13	12	23	11	681	236
Emmet	20,100	299	28	26	185	6	2	3	2	257	74
Genesee	449,900	7,782	1,345	597	3,425	162	123	193	77	5,033	2,347
Gladwin	15,400	221	13	14	174	5	2	3	2	132	16
Gogebic	20,400	274	26	12	326	4	4	8	5	334	43
Grand Traverse	43,300	679	56	33	373	9	3	13	11	581	217
Gratiot	40,400	634	44	46	365	9	7	11	4	465	128
Hillsdale	39,400	563	41	43	376	11	7	11	5	440	-
Houghton	36,500	470	23	34	490	6	4	7	3	314	105
Huron	35,400	544	28	25	427	8	6	18	12	391	80
Ingham	266,900	4,178	494	287	1,722	67	51	89	46	3,270	1,543
Ionia	47,800	814	50	51	421	16	13	17	5	489	152
Iosco	28,200	484	19	34	258	8	6	8	3	286	70
Iron	13,600	136	12	6	263	3	3	4	3	180	38
Isabella	48,400	635	39	47	313	19	16	22	8	478	154
Jackson	143,400	2,185	224	146	1,270	39	27	55	31	1,647	725
Kalamazoo	200,800	2,794	358	192	1,411	43	30	52	26	2,275	1,067
Kalkaska	6,500	119	8	8	95	2	1	2	1	84	24
Kent	416,200	6,509	753	440	3,506	85	60	114	62	4,941	1,891
Keeweenaw	2,200	28	-	-	34	-	-	1	1	24	4
Leake	6,400	86	21	7	129	2	1	2	1	60	14
Lapeer	58,100	972	54	57	462	14	7	15	8	593	236
Leelanau	12,000	159	8	9	132	1	1	1	-	97	33
Lenawee	83,700	1,487	110	80	726	18	9	21	12	1,053	329
Livingston	68,900	1,031	62	53	504	16	9	17	8	686	262
Luce	7,600	106	8	4	66	1	1	2	1	84	18
Mackinac	10,500	135	17	9	121	1	1	2	1	100	12
Macomb	644,800	9,462	547	621	3,951	167	135	218	89	6,436	2,750
Manistee	21,200	284	18	21	269	5	5	10	5	199	59
Marquette	68,700	1,124	50	64	554	12	9	22	13	737	232
Mason	24,800	315	32	20	296	6	4	13	9	272	79
Mecosta	33,500	439	37	33	236	4	2	10	9	294	86
Menominee	24,800	353	27	23	296	5	4	5	1	406	59
Midland	65,200	1,024	60	60	379	18	12	23	13	694	251
Missaukee	7,900	133	7	11	92	2	1	3	2	78	22
Monroe	124,600	2,019	172	116	1,012	33	26	45	21	2,138	438
Montcalm	42,700	729	37	52	421	14	8	14	6	428	152
Montmorency	6,400	78	3	7	73	-	-	1	1	52	24
Muskegon	158,000	2,479	431	182	1,376	43	30	66	36	1,689	690
Newaygo	29,000	482	42	20	320	12	10	13	4	295	117
Oakland	941,300	13,243	1,166	1,002	6,627	220	177	294	135	9,268	4,600
Oceana	19,200	363	38	17	223	9	5	11	7	244	76
Ogemaw	13,000	188	17	15	162	5	4	4	-	181	30
Ontonagon	10,900	182	7	16	130	3	3	9	6	96	33
Osceola	17,100	271	15	17	177	1	1	3	2	199	-
Oscoda	5,700	56	5	7	79	-	-	-	-	60	14
Otsego	12,600	193	17	8	109	2	2	6	4	124	39
Ottawa	138,400	2,166	99	92	900	30	25	41	17	1,302	368
Presque Isle	13,500	203	12	15	136	7	7	7	1	126	28
Roscommon	12,800	150	20	15	216	4	2	3	1	119	53
Saginaw	226,600	3,922	718	318	1,876	75	58	99	45	2,515	881
St. Clair	127,800	2,136	180	134	1,211	34	32	48	18	1,336	504
St. Joseph	50,100	829	79	57	507	9	8	21	14	649	226
Sanilac	37,900	580	34	24	419	13	8	17	9	387	95
Schoolcraft	8,400	102	3	4	123	3	2	7	5	110	28
Shiawassee	67,300	1,156	104	50	507	11	7	20	15	716	270
Tuscola	51,900	826	63	55	468	13	9	18	10	479	158
Van Buren	60,500	992	144	75	628	20	11	21	11	647	211
Washtenaw	244,300	3,723	340	294	1,328	53	40	76	43	2,714	1,231
Wayne	2,613,900	41,876	10,172	4,178	26,253	911	661	1,212	625	23,992	11,773*
Wexford	21,300	364	32	29	254	9	7	11	6	295	92
Not Stated	-	1	-	-	3	-	-	-	-	-	-

1 - By county of occurrence rather than county of residence

* Number of divorces for Wayne County is an estimate.

TABLE 4.8
SELECTED VITAL STATISTICS RATES BY COUNTY
MICHIGAN RESIDENTS, 1973

Area	Live Births	Illegitimate Live Births ³	Low Weight Live Births ³	Deaths	Infant Deaths	Neonatal Deaths	Prenatal Deaths	Fetal Deaths ³	Marriages ²	Divorces ²
STATE	15.6	143.4	77.4	8.7	18.1	13.4	23.7	11.7	20.9	8.7
Alcona	13.7	87.7	61.4	12.8	8.8	8.8	17.4	8.7	20.0	4.8
Alger	14.8	66.1	41.3	11.6	57.9	49.6	41.3	-	17.6	-
Allegan	16.7	61.7	66.8	8.7	11.1	7.7	17.0	9.3	21.0	8.0
Alpena	15.7	66.9	76.8	8.6	17.7	15.7	27.1	15.5	21.4	7.1
Antrim	15.0	76.6	43.1	10.1	14.4	*	4.8	4.8	19.4	5.8
Arenac	16.6	77.3	87.0	11.3	14.5	14.5	14.5	-	23.4	5.0
Baraga	14.3	54.5	72.7	14.9	-	*	17.9	17.9	19.5	6.2
Barry	14.2	77.6	63.8	9.3	13.8	10.3	20.4	11.9	18.6	8.3
Bay	15.9	81.7	57.3	8.7	14.3	10.6	18.9	10.0	22.0	7.4
Benzie	14.1	94.5	47.2	15.7	39.4	23.6	31.0	15.5	31.1	8.9
Berrien	17.4	196.2	77.1	9.4	20.0	15.1	21.8	9.5	25.6	10.6
Branch	15.5	85.0	60.5	9.5	13.1	9.8	17.8	17.8	22.3	7.3
Calhoun	16.1	168.3	74.2	9.6	17.2	12.4	21.8	11.4	24.7	11.8
Cass	16.2	97.7	58.9	10.3	20.1	12.9	17.1	5.7	22.5	11.3
Charlevoix	12.5	81.4	58.8	11.8	13.6	13.6	26.8	13.4	21.6	8.1
Cheboygan	15.1	70.9	53.2	10.5	7.1	7.1	14.1	7.0	19.8	4.8
Chippewa	21.0	70.4	49.7	9.7	13.8	12.4	20.5	9.6	22.5	7.0
Clare	13.8	112.4	71.2	11.1	3.7	3.7	11.2	7.4	26.1	6.7
Clinton	15.9	45.5	55.9	6.3	14.3	13.0	25.7	12.8	16.9	5.6
Crawford	12.6	82.5	82.5	11.0	30.9	30.9	20.6	-	21.8	8.6
Delta	14.4	86.1	54.9	10.5	25.6	16.5	28.9	12.7	22.9	5.7
Dickinson	13.0	54.7	51.4	12.4	3.2	3.2	15.9	12.7	24.3	7.0
Eaton	14.6	56.4	68.9	7.3	12.3	11.3	21.5	10.3	18.7	6.5
Emmet	14.9	93.6	87.0	9.2	20.1	6.7	10.0	6.6	25.6	7.4
Genesee	17.3	172.8	76.7	7.6	20.8	15.8	24.6	9.8	22.4	10.4
Gladwin	14.4	58.8	63.3	11.3	22.6	9.0	13.5	9.0	17.1	2.1
Gogebic	13.4	94.9	43.8	16.0	14.6	14.6	28.7	17.9	32.7	4.2
Grand Traverse	15.7	82.5	48.6	8.6	13.3	4.4	18.8	15.9	26.8	10.0
Gratiot	15.7	69.4	72.6	9.0	14.2	11.0	17.2	6.3	23.0	6.3
Hillsdale	14.3	72.8	76.4	9.5	19.5	12.4	19.4	8.8	22.3	-
Houghton	12.9	48.9	72.3	13.4	12.8	8.5	14.8	6.3	17.2	5.8
Huron	15.4	51.5	46.0	12.1	14.7	11.0	32.4	21.6	22.1	4.5
Ingham	15.7	118.2	68.7	6.5	16.0	12.2	21.1	10.9	24.5	11.6
Ionia	17.0	61.4	62.7	8.8	19.7	16.0	20.8	6.1	20.5	6.4
Iosco	17.2	39.3	70.2	9.1	16.5	12.4	16.4	6.2	20.3	5.0
Iron	10.0	88.2	44.1	19.3	22.1	22.1	28.8	21.6	26.5	5.6
Isabella	13.1	61.4	74.0	6.5	29.9	25.2	34.2	12.4	19.8	6.4
Jackson	15.2	102.5	66.8	8.9	17.8	12.4	24.8	14.0	23.0	10.1
Kalamazoo	13.9	128.1	68.7	7.0	15.4	10.7	18.4	9.2	22.7	10.6
Kalkaska	18.3	67.2	67.2	14.6	16.8	8.4	16.7	8.3	25.8	7.4
Kent	15.6	115.7	67.6	8.4	13.1	9.2	17.3	9.4	23.7	9.1
Keeweenaw	12.7	-	-	15.5	-	-	34.5	34.5	21.8	3.6
Lake	13.4	244.2	81.4	20.2	23.3	11.6	23.0	11.5	18.8	4.4
Lapeer	16.7	55.6	58.6	8.0	14.4	7.2	15.3	8.2	20.4	8.1
Leelanau	13.3	50.3	56.6	11.0	6.3	6.3	6.3	-	16.2	5.5
Lenawee	17.8	74.0	53.8	8.7	12.1	6.1	14.0	8.0	25.2	7.9
Livingston	15.0	60.1	51.4	7.3	15.5	8.7	16.4	7.7	19.7	7.6
Luce	13.9	75.5	37.7	9.4	9.4	9.4	18.7	9.3	22.1	4.7
Mackinac	12.9	125.9	66.7	11.5	7.4	7.4	14.7	7.4	19.0	2.3
Macomb	14.7	57.8	65.6	6.1	17.6	14.3	22.8	9.3	20.0	8.5
Manistee	13.4	63.4	73.9	12.7	17.6	17.6	34.6	17.3	18.8	5.6
Marquette	16.4	44.5	56.9	8.1	10.7	8.0	19.3	11.4	21.5	6.8
Mason	12.7	101.6	63.5	11.9	19.0	12.7	40.1	27.8	21.9	6.4
Mecosta	13.1	84.3	75.2	7.0	9.1	4.6	22.3	20.1	17.6	5.1
Menominee	14.2	76.5	65.2	11.9	14.2	11.3	14.1	2.8	32.7	4.8
Midland	15.7	58.6	58.6	5.8	17.6	11.7	22.2	12.5	21.3	7.7
Missaukee	16.8	52.6	82.7	11.6	13.0	7.5	22.2	14.8	19.7	5.6
Monroe	16.2	85.2	57.5	8.1	16.3	12.9	22.1	10.3	34.3	7.0
Montcalm	17.1	50.8	71.3	9.9	19.2	11.0	19.0	8.2	20.0	7.1
Montmorency	12.2	38.5	89.7	11.4	-	-	12.7	12.7	16.3	7.5
Muskegon	15.7	173.9	73.4	8.7	17.3	12.1	26.2	14.3	21.4	8.7
Newaygo	16.6	87.1	41.5	11.0	24.9	20.7	26.7	8.2	20.3	8.1
Oakland	14.1	88.0	75.7	7.0	16.6	13.4	22.0	10.1	19.7	9.8
Oceana	18.9	104.7	46.8	11.6	24.8	13.8	29.7	18.9	25.4	7.9
Ogemaw	14.5	90.4	79.8	12.5	26.6	21.3	21.3	-	27.8	4.6
Ontonagon	16.7	38.5	87.9	11.9	16.5	16.5	47.9	31.9	17.6	6.1
Osceola	15.8	55.4	62.7	10.4	3.7	3.7	11.0	7.3	23.3	-
Oscoda	9.8	89.3	125.0	13.9	-	-	-	-	21.1	4.9
Otsego	15.3	88.1	41.5	8.7	10.4	10.4	30.5	20.3	19.7	6.2
Ottawa	15.7	45.7	42.5	6.5	13.9	11.5	18.8	7.8	18.8	5.3
Presque Isle	15.0	59.1	73.9	10.1	34.5	34.5	34.3	4.9	18.7	4.1
Roscommon	11.7	133.3	100.0	16.9	26.7	13.3	19.9	6.6	18.6	8.3
Saginaw	17.3	183.1	81.1	8.3	19.1	14.8	25.0	11.3	20.4	7.8
St. Clair	16.7	84.3	62.7	9.5	15.9	15.0	22.3	8.4	20.9	7.9
St. Joseph	16.5	95.3	68.8	10.1	10.9	9.7	24.9	16.6	25.9	9.0
Sanilac	15.3	58.6	41.4	11.1	22.4	13.8	28.9	15.3	20.4	5.0
Schoolcraft	12.1	29.4	39.2	14.6	29.4	19.6	65.4	46.7	26.2	6.7
Shiawassee	17.2	90.0	43.3	7.5	9.5	6.1	17.1	12.8	21.3	8.0
Tuscola	15.9	76.3	66.6	9.0	15.7	10.9	21.5	12.0	18.5	6.1
Van Buren	16.4	145.2	75.6	10.4	20.2	11.1	20.9	11.0	21.4	7.0
Washtenaw	15.2	91.3	79.0	5.4	14.2	10.7	20.2	11.4	22.2	10.1
Wayne	16.0	242.9	99.8	10.0	21.8	15.8	28.5	14.7	18.4	9.0
Wexford	17.1	87.9	79.7	11.9	24.7	19.2	29.7	16.2	27.7	8.6

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, 1973

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	Ratio
Allen Park	338	14	41.4	310	6	17.8	2	5.9
Ann Arbor	1,485	110	74.1	470	15	10.1	20	13.5
Battle Creek	750	215	286.7	570	20	26.7	14	18.7
Bay City	794	92	115.9	569	14	17.6	7	8.8
Birmingham	354	5	14.1	321	5	14.1	6	16.9
Dearborn	950	45	47.4	1,041	9	9.5	10	10.5
Dearborn Heights	827	42	50.8	471	13	15.7	13	15.7
Detroit	25,557	8,786	343.8	17,674	640	25.0	425	16.6
East Detroit	475	33	69.5	364	7	14.7	4	8.4
East Lansing	399	13	32.6	135	5	12.5	1	2.5
Ferndale	479	55	114.8	286	4	8.4	4	8.4
Flint	3,862	1,006	260.5	1,820	99	25.6	43	11.1
Garden City	511	39	76.3	299	5	9.8	7	13.7
Grand Rapids	3,023	589	194.8	2,068	38	12.6	29	9.6
Hamtramck	357	45	126.1	454	9	25.2	4	11.2
Highland Park	525	194	369.5	429	24	45.7	11	21.0
Holland (Pt.)	423	30	70.9	222	9	21.3	1	2.4
Inkster	785	213	271.3	290	22	28.0	4	5.1
Jackson	799	129	161.5	567	17	21.3	10	12.5
Kalamazoo	1,390	254	182.7	754	22	15.8	14	10.1
Lansing (Pt.)	2,561	395	154.2	1,118	49	19.1	35	13.7
Lincoln Park	722	43	59.6	385	8	11.1	5	6.9
Livonia	1,074	49	45.6	604	10	9.3	12	11.2
Madison Heights	606	42	69.3	195	9	14.9	11	18.2
Midland (Pt.)	546	29	53.1	184	10	18.3	6	11.0
Muskegon	908	190	209.3	557	17	18.7	14	15.4
Oak Park	408	13	31.9	313	7	17.2	4	9.8
Pontiac	2,232	548	245.5	847	58	26.0	18	8.1
Portage	405	24	59.3	132	4	9.9	6	14.8
Port Huron	709	87	122.7	405	16	22.6	4	5.6
Roseville	957	66	69.0	346	14	14.6	13	13.6
Royal Oak	1,026	45	43.9	699	18	17.5	8	7.8
Saginaw	1,976	574	290.5	981	45	22.8	29	14.7
St. Clair Shores	879	53	60.3	629	14	15.9	5	5.7
Southfield	693	15	21.6	530	9	13.0	7	10.1
Southgate	471	22	46.7	181	5	10.6	8	17.0
Sterling Heights	1,432	44	30.7	279	14	9.8	11	7.7
Taylor	1,572	109	69.3	382	29	18.4	19	12.1
Troy	735	23	31.3	253	9	12.2	4	5.4
Warren	2,038	129	63.3	934	42	20.6	18	8.8
Westland	1,587	93	58.6	369	24	15.1	22	13.9
Wyandotte	596	47	78.9	391	4	6.7	7	11.7
Wyoming	956	39	40.8	366	10	10.5	8	8.4
Ypsilanti	600	126	210.0	206	13	21.7	11	18.3

* 25,000 population or over

TABLE 4.10
SELECTED CAUSES OF DEATH BY COUNTY
MICHIGAN RESIDENTS, 1973

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 the Liver	Nephritis & Nephrosis	Infections of Kidney	Maternal Deaths, All Forms	Suicide and Self-Inflicted Injury	Homicide and Injury Purposely Inflicted by Other Persons - Not in War	Residual
STATE	78,522	29,944	14,220	7,987	4,630	2,389	2,074	2,090	1,142	138	406	1,711	323	180	26	1,117	1,180	11,354
Alcona	106	46	20	13	7	3	1	4	1	-	-	2	-	-	-	-	-	12
Alger	95	43	21	7	2	-	3	3	-	-	-	-	1	-	-	-	-	13
Allegan	608	226	103	74	42	27	24	11	22	-	-	6	2	3	-	8	2	82
Alpena	277	110	46	38	19	11	3	5	3	-	-	4	1	-	1	5	1	40
Antrim	141	57	27	15	12	6	-	4	2	-	2	4	-	-	-	3	-	15
Arenac	141	58	25	16	10	6	7	1	3	1	-	-	-	-	-	-	1	19
Baraga	115	36	19	14	11	9	7	3	2	-	-	-	3	-	-	-	-	20
Barry	379	161	58	32	26	16	8	12	8	1	1	3	-	-	-	-	-	61
Bay	1,029	410	166	139	67	42	21	19	18	2	7	17	1	5	-	14	-	143
Benzie	141	57	18	16	13	6	4	3	3	1	-	-	-	-	-	-	-	25
Berrien	1,568	602	273	158	96	48	43	41	29	2	10	24	5	5	1	20	15	244
Branch	377	130	60	52	34	21	12	11	10	-	3	6	-	-	-	6	1	52
Calhoun	1,348	529	235	152	70	33	41	37	11	8	21	6	3	1	-	18	6	187
Cass	442	162	93	42	28	12	7	19	10	1	5	8	-	-	-	2	2	63
Charlevoix	208	64	40	35	17	6	6	3	7	-	1	6	-	-	-	1	-	28
Cheboygan	196	92	32	16	11	6	6	2	2	-	2	3	1	-	-	-	-	29
Chippewa	334	131	54	22	34	15	10	12	11	-	1	7	2	-	-	6	2	42
Clare	214	107	33	22	13	6	-	2	5	-	1	1	-	-	1	4	1	24
Clinton	306	112	47	35	22	18	15	6	10	-	1	-	-	2	-	9	1	46
Crawford	85	21	19	11	8	3	2	3	-	-	2	2	2	-	-	1	1	13
Delta	400	149	79	39	24	14	17	6	15	1	-	6	1	-	-	3	4	55
Dickinson	297	136	50	32	12	8	13	4	11	-	-	2	5	-	-	3	-	29
Eaton	529	196	102	46	31	18	20	10	23	-	1	8	3	-	-	11	1	76
Emmet	185	71	37	20	13	9	6	2	2	-	2	3	-	-	-	2	2	25
Genesee	3,425	1,281	647	320	243	132	87	89	54	-	13	60	8	13	2	65	58	485
Gladwin	174	71	26	24	10	8	3	4	4	1	1	1	-	-	-	4	-	26
Gogebic	326	161	61	20	15	4	11	12	3	2	-	4	-	2	-	2	-	33
Grand Traverse	373	132	54	53	29	13	7	9	8	1	3	8	-	1	-	4	-	64
Gratiot	365	133	63	62	20	14	15	5	9	-	1	1	-	1	-	8	1	46
Hillsdale	376	141	66	29	23	14	16	15	6	-	5	1	3	-	2	1	-	68
Houghton	490	225	75	59	27	15	13	16	2	-	2	6	6	-	-	3	1	55
Huron	427	140	74	82	35	20	10	10	8	-	1	8	2	1	-	3	-	53
Ingham	1,722	626	315	176	112	59	44	49	30	5	8	29	4	6	-	27	13	278
Ionia	421	157	67	50	33	18	10	12	8	-	-	5	1	1	-	5	-	72
Iosco	258	110	51	28	14	12	5	4	3	-	1	2	1	-	-	2	-	37
Iron	263	96	49	60	12	1	4	5	-	-	-	3	-	-	-	5	-	29
Isabella	313	141	42	25	21	9	10	7	5	1	2	5	1	-	-	4	-	49
Jackson	1,270	514	212	122	71	38	27	28	33	-	6	25	6	2	-	21	10	193
Kalamazoo	1,411	546	246	141	81	39	28	49	32	1	12	15	3	5	-	23	7	222
Kalkaska	95	36	14	12	6	3	6	2	3	-	-	1	1	-	-	1	-	13
Kent	3,506	1,322	648	384	214	105	81	106	85	6	19	57	9	9	-	38	19	509
Keeweenaw	34	23	4	4	-	1	1	-	-	-	-	-	-	-	-	-	-	1
Lake	129	53	15	15	8	4	3	4	4	-	-	4	-	-	-	1	-	22
Lapeer	462	193	75	42	36	21	12	10	7	-	4	4	-	-	-	4	-	75
Leelanau	132	52	18	15	12	2	4	2	2	-	-	3	-	-	-	1	-	22
Lenawee	726	269	135	76	65	34	31	10	15	-	4	8	-	1	-	9	-	103
Livingston	504	178	105	47	43	23	11	7	7	-	2	9	1	-	-	10	2	79
Luce	66	34	8	5	3	2	5	2	1	-	-	-	-	-	-	1	-	6
Mackinac	121	46	27	12	3	1	5	5	-	-	1	4	-	-	-	2	-	16
Macomb	3,951	1,494	846	321	226	111	90	94	38	7	23	91	17	6	3	68	32	595
Manistee	269	108	43	27	22	13	10	6	4	1	1	2	2	2	-	1	1	39
Marquette	554	257	107	36	28	12	12	15	9	-	1	14	6	2	1	4	1	61
Mason	296	141	35	31	17	8	10	8	9	1	1	2	-	-	-	5	-	36
Mecosta	236	83	47	21	13	8	10	12	6	-	1	2	-	1	-	5	-	35
Menominee	296	120	54	33	17	6	12	9	12	-	-	1	1	-	-	6	-	30
Midland	379	127	65	47	38	25	8	11	8	-	2	5	-	1	-	7	2	58
Missaukee	92	36	22	6	4	-	5	1	2	-	1	-	-	-	-	1	-	14
Monroe	1,012	377	192	89	88	49	23	31	14	1	2	16	5	-	2	17	6	149
Montcalm	421	173	68	47	24	9	9	12	6	-	2	6	3	2	-	2	1	66
Montmorency	73	29	12	7	2	-	2	-	-	-	-	3	3	-	-	3	-	12
Muskegon	1,376	487	265	201	71	33	32	34	25	3	3	17	3	5	1	14	12	203
Newaygo	320	122	58	40	22	6	4	3	8	-	-	3	2	1	-	1	-	56
Oakland	6,627	2,518	1,251	691	399	206	160	148	64	15	35	124	25	15	-	137	80	965
Oceana	223	85	29	24	15	9	4	4	8	-	1	3	-	1	-	1	1	47
Ogemaw	162	68	30	26	12	6	4	2	3	-	-	-	1	1	-	-	-	15
Ontonagon	130	41	27	10	13	10	6	5	3	1	1	3	-	-	-	4	-	16
Osceola	177	74	22	20	15	7	7	8	-	-	-	2	2	1	-	2	1	23
Oscoda	79	35	14	7	8	4	1	2	1	-	1	-	-	-	-	1	-	8
Otsego	109	39	21	8	13	6	2	2	2	-	2	1	-	-	-	1	-	20
Ottawa	900	359	147	110	54	30	17	26	16	1	2	7	2	3	-	13	2	141
Presque Isle	136	51	27	11	13	8	-	2	5	-	-	3	2	-	-	1	-	21
Roscommon	216	96	48	21	10	7	5	3	3	-	-	3	1	-	-	2	1	23
Saginaw	1,876	625	362	215	128	65	53	42	58	3	10	26	3	6	-	29	40	276
St. Clair	1,211	442	212	134	95	56	41	24	35	2	3	17	4	2	1	19	10	170
St. Joseph	507	212	76	51	41	23	8	19	6	1	2	2	1	3	-	7	6	72
Sanilac	419	159	63	63	29	16	12	7	4	1	1	2	4	1	-	3	1	69
Schoolcraft	123	55	21	18	4	2	4	2	4	-	1	-	1	-	-	-	-	12
Shiawassee	507	179	109	59	39	26	7	13	9	1	4	7	1	-	-	7	-	72
Tuscola	468	210	58	44	47	31	24	9	2	1	-	6	2	-	-	7	2	56
Van Buren	628	200	118	75	56	27	23	19	11	-	2	11	4					

TABLE 4.11
REPORTED CASES OF CERTAIN COMMUNICABLE DISEASES BY COUNTY
MICHIGAN RESIDENTS, 1973

Area	Total	Gonorrhea	Streptococcal Sore Throat (Including Scarlet Fever)	Chickenpox	Mumps	Measles	Syphilis	Hepatitis Infections and Serum*	Rubella	Tuberculosis		Salmonella Infections	Disseminated Bacterial	Whooping Cough	Meningococcal Infections	All Other**
										Total All Forms	New Active Cases					
STATE	97,317	31,086	24,467	17,788	5,042	4,552	4,375	3,872	2,001	1,473	1,121	795	623	86	54	1,103
Alcona	92	1	7	13	-	63	-	4	3	-	-	-	-	-	-	1
Alger	10	2	-	2	2	-	1	1	1	-	-	-	-	-	-	1
Allegan	411	54	209	36	11	7	16	28	7	-	6	11	13	6	2	4
Alpena	469	13	22	194	3	135	-	-	100	2	1	-	-	-	-	-
Antrim	8	7	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Arenac	72	3	5	28	1	1	-	-	1	-	-	2	-	-	-	31
Baraga	40	1	-	29	7	-	-	-	1	1	1	1	-	-	-	-
Barry	364	17	127	136	41	9	1	8	1	4	4	6	12	-	1	1
Bay	939	166	15	455	161	8	6	26	75	13	10	1	1	-	-	12
Benzie	15	5	-	5	-	-	4	-	-	1	1	-	-	-	-	-
Berrien	1,466	811	217	82	41	97	58	25	57	41	30	19	14	3	-	1
Branch	331	73	13	109	89	12	15	15	2	4	3	3	-	-	-	5
Calhoun	767	467	16	74	40	15	38	80	4	10	8	5	2	-	1	15
Cass	168	64	15	2	7	14	14	40	2	8	8	1	1	-	-	-
Charlevoix	27	16	-	-	-	-	3	-	2	2	2	1	-	-	-	5
Cheboygan	194	15	2	35	133	-	5	3	1	-	-	-	-	-	-	-
Chippewa	509	15	20	433	3	11	2	2	22	-	-	-	-	-	-	1
Clare	31	9	5	6	-	2	4	1	-	1	-	1	2	-	-	-
Clinton	433	43	15	300	9	4	2	52	-	2	2	2	-	-	-	4
Crawford	66	8	2	12	32	-	1	5	6	-	-	-	-	-	-	-
Delta	260	27	69	119	26	2	10	-	1	2	1	-	-	-	-	4
Dickinson	243	2	26	114	91	1	1	-	6	3	1	-	-	-	-	-
Eaton	1,474	64	432	463	282	12	6	34	154	5	3	3	7	2	-	10
Emmet	23	7	-	-	-	-	3	12	-	-	-	-	-	-	-	1
Genesee	4,943	2,386	484	978	465	67	175	151	68	29	27	36	27	1	-	76
Gladwin	11	5	1	2	-	-	-	2	-	1	-	-	-	-	-	-
Gogebic	51	4	27	3	6	1	3	-	-	6	5	-	-	-	-	1
Grand Traverse	188	23	30	99	4	3	9	9	-	4	4	-	-	-	-	7
Gratiot	64	20	9	9	3	4	4	11	-	2	2	5	3	-	-	3
Hillsdale	55	23	5	3	-	-	3	7	-	2	2	8	1	1	-	2
Houghton	883	11	34	205	583	17	6	2	17	5	4	-	-	-	-	3
Huron	62	6	-	-	2	47	2	1	1	3	1	-	-	-	-	-
Ingham	8,576	1,625	5,590	461	206	17	103	321	107	32	21	35	38	3	-	38
Ionia	270	28	98	83	3	5	6	28	5	3	2	2	-	1	-	8
Iosco	584	12	423	102	6	23	-	9	7	1	-	-	-	-	-	1
Iron	109	-	89	2	-	1	5	1	6	5	4	-	-	-	-	-
Isabella	93	44	2	8	3	1	2	9	1	4	4	5	7	2	-	5
Jackson	1,113	328	174	350	59	21	68	58	9	11	8	11	2	9	1	12
Kalamazoo	2,631	1,280	303	552	41	20	91	138	20	12	7	9	54	1	2	108
Kalkaska	81	1	1	22	41	4	-	1	10	-	-	-	-	-	-	1
Kent	13,663	1,693	11,473	53	11	-	89	128	8	40	28	33	83	13	2	37
Keweenaw	11	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-
Lake	52	9	1	19	-	-	16	6	-	1	1	-	-	-	-	-
Lapeer	87	15	1	4	1	14	3	33	13	2	1	-	-	-	-	1
Leelanau	26	3	-	14	-	-	3	-	-	1	1	2	-	-	-	3
Lenawee	902	145	111	303	228	15	5	26	15	3	2	6	36	-	1	8
Livingston	258	37	24	77	58	6	11	30	6	5	2	1	-	-	-	3
Luce	119	10	2	25	4	71	2	-	2	2	2	-	-	1	-	-
Mackinac	64	5	-	39	1	8	5	1	-	3	2	-	-	2	-	-
Macomb	3,307	509	193	1,375	177	337	89	311	163	64	37	29	6	-	3	51
Manistee	51	18	19	1	-	5	6	-	-	2	2	-	-	-	-	-
Marquette	1,402	73	988	267	7	5	5	20	16	3	1	5	-	2	1	10
Mason	149	88	12	27	-	2	4	10	2	1	-	2	-	-	-	1
Mecona	372	50	114	52	2	48	2	8	85	-	-	2	3	-	-	6
Menominee	124	-	1	112	4	-	-	2	1	3	3	-	-	-	1	-
Midland	575	60	28	376	23	35	1	27	16	2	2	1	1	-	-	5
Missaukee	98	5	8	75	5	-	1	-	2	1	-	1	-	-	-	-
Monroe	434	137	137	33	14	2	12	66	-	20	17	3	6	-	-	4
Montcalm	116	30	-	18	5	3	3	26	4	3	3	4	17	-	-	5
Montmorency	23	5	2	4	-	9	1	-	-	1	1	-	-	-	-	1
Muskegon	1,059	684	27	51	32	2	43	65	67	26	18	26	9	1	1	25
Newaygo	121	25	19	11	32	-	10	17	-	2	1	3	1	1	-	-
Oakland	11,764	2,176	1,202	4,832	1,030	851	131	540	507	127	77	87	40	21	12	208
Oceana	306	10	8	193	4	-	12	64	6	1	1	2	2	-	1	3
Ogemaw	132	5	23	65	14	11	-	6	3	1	1	-	-	-	-	4
Ontonagon	62	-	1	60	-	-	-	-	1	-	-	-	-	-	-	-
Oscoda	13	8	-	-	-	-	2	3	-	-	-	-	-	-	-	-
Oscoda	4	-	1	-	-	-	-	-	-	1	1	-	-	-	-	-
Otsego	18	11	-	-	-	-	3	-	-	-	-	-	-	-	1	-
Ottawa	936	331	38	457	15	4	10	36	15	3	3	9	6	4	-	8
Presque Isle	312	9	4	41	243	7	1	1	6	-	-	-	-	-	-	-
Roscommon	26	6	-	8	2	-	3	2	3	1	-	-	-	-	-	1
Saginaw	2,114	1,197	34	670	5	13	43	55	5	39	24	12	22	2	-	17
St. Clair	694	359	38	35	9	91	14	69	19	23	22	17	13	-	-	7
St. Joseph	309	81	14	120	19	6	21	34	3	5	5	-	-	-	-	6
Sanilac	11	3	-	-	-	-	-	6	-	2	2	-	-	-	-	-
Schoolcraft	10	2	-	1	-	1	3	-	1	-	-	-	-	-	-	-
Shiawassee	371	58	60	104	86	3	9	35	2	7	7	-	2	-	-	5
Tuscola	263	35	12	108	4	55	4	29	10	3	2	-	-	-	-	3
Van Buren	709	161	26	364	31	13	49	19	20	12	10	3	2	-	-	9
Washtenaw	1,746	1,284	126	91	18	24	46	74	30	42	30	1	5	-	3	2
Wayne	26,208	14,050	1,230	2,106	510	2,286	3,049	1,025	270	791	637	380	173	11	20	307
Wexford	107	13	10	44	17	1	6	5	5	4	3	-	1	-	-	1
State Homes	63	-	-	27	19	2	-	8	-	-	-	1	6	-	-	-

* 489 of these were serum hepatitis

** Includes:

Meningitis, Aseptic	434	Diarrhea of Infants under 1 year	24	Leptospirosis	3
Encephalitis, Infectious	163	Typhoid Fever	14	Tetanus	2
Meningitis, Other	154	Rabies in Animals	12	Tularemia	2
Staphylococcal Infections	101	Dysentery, Amebic	10	Leprosy	1
Meningitis, H. Influenza	89	Food Poisonings	9	Trichinosis	1
Rheumatic Fever	42	Malaria	6	Undulant Fever	1
Ring Worm	31	Congenital Rubella Syndrome	4		

TABLE 4.12
NUMBER OF DEATHS BY CAUSE
MICHIGAN RESIDENTS, 1973

ICDA LIST NUMBER	CAUSE OF DEATH	NUMBER	ICDA LIST NUMBER	CAUSE OF DEATH	NUMBER
I. INFECTIVE AND PARASITIC DISEASES (000-136)					
003	Other salmonella infections-----	2	185	Malignant neoplasm of prostate-----	729
008	Enteritis due to other specified organisms-----	8	186	Malignant neoplasm of testis-----	50
009	Diarrheal disease-----	67	187	Malignant neoplasm of other and unspecified male genital organs-----	6
010	Silicotuberculosis-----	7	188	Malignant neoplasm of bladder-----	388
011	Pulmonary tuberculosis-----	92	189	Malignant neoplasm of other and unspecified urinary organs-----	301
012	Other respiratory tuberculosis-----	2	190	Malignant neoplasm of eye-----	12
013	Tuberculosis of meninges and central nervous system-----	3	191	Malignant neoplasm of brain-----	318
014	Tuberculosis of intestines, peritoneum and mesenteric glands-----	1	192	Malignant neoplasm of other parts of nervous system-----	43
016	Tuberculosis of genitourinary system-----	2	193	Malignant neoplasm of thyroid gland-----	43
017	Tuberculosis of other organs-----	1	194	Malignant neoplasm of other endocrine glands-----	13
018	Disseminated tuberculosis-----	11	195	Malignant neoplasm of ill-defined sites-----	103
019	Late effects of tuberculosis-----	19	196	Secondary and unspecified malignant neoplasm of lymph nodes-----	4
027	Other zoonotic bacterial diseases-----	5	197	Secondary malignant neoplasm of respiratory and digestive system-----	246
031	Other mycobacterial diseases-----	1	198	Other secondary malignant neoplasms-----	75
033	Whooping cough-----	1	199	Malignant neoplasm without specification of site-----	531
036	Meningococcal infection-----	16	200	Lymphosarcoma and reticulum-cell sarcoma-----	324
038	Septicemia-----	153	201	Hodgkin's disease-----	151
039	Other bacterial diseases-----	22	202	Other neoplasms of lymphoid tissue-----	145
044	Late effects of acute poliomyelitis-----	3	203	Multiple myeloma-----	187
045	Aseptic meningitis due to enterovirus-----	3	204	Lymphatic leukemia-----	167
046	Other enterovirus diseases of central nervous system-----	3	205	Myeloid leukemia-----	284
052	Chickenpox-----	7	206	Monocytic leukemia-----	20
054	Herpes simplex-----	5	207	Other and unspecified leukemia-----	168
055	Measles-----	2	208	Polycythemia vera-----	30
065	Viral encephalitis, unspecified-----	18	209	Myelofibrosis-----	31
070	Infectious hepatitis-----	32	210	Benign neoplasm buccal cavity and pharynx-----	1
075	Infectious mononucleosis-----	1	211	Benign neoplasm of other parts of digestive system-----	11
079	Other viral diseases-----	14	212	Benign neoplasm of respiratory system-----	6
084	Malaria-----	1	214	Lipoma-----	2
093	Cardiovascular syphilis-----	7	215	Other benign neoplasms of muscular and connective tissue-----	1
094	Syphilis of central nervous system-----	5	218	Uterine fibroma-----	1
100	Leptospirosis-----	1	220	Benign neoplasm of ovary-----	1
112	Monilliasis-----	5	223	Benign neoplasm of kidney and other urinary organs-----	1
115	Histoplasmosis-----	1	225	Benign neoplasm of brain and other parts of nervous system-----	28
116	Blastomycosis-----	4	226	Benign neoplasm of endocrine glands-----	8
117	Other systemic mycosis-----	1	227	Hemangioma and lymphangioma-----	2
130	Toxoplasmosis-----	1	228	Benign neoplasm of other and unspecified organs and tissues-----	4
135	Sarcoidosis-----	11	230	Neoplasm of unspecified nature of digestive organs-----	9
136	Other and unspecified infective and parasitic diseases-----	6	231	Neoplasm of unspecified nature of respiratory organs-----	11
II. NEOPLASMS (140-239)					
140	Malignant neoplasm of lip-----	4	232	Neoplasm of unspecified skin and musculoskeletal system-----	2
141	Malignant neoplasm of tongue-----	66	234	Neoplasm of unspecified nature of uterus--	2
142	Malignant neoplasm of salivary gland-----	11	235	Neoplasm of unspecified nature of ovary--	2
143	Malignant neoplasm of gum-----	4	237	Neoplasm of unspecified nature of other genitourinary organs-----	3
144	Malignant neoplasm of floor of mouth-----	26	238	Neoplasm of unspecified nature of eye, brain and other parts of nervous system--	50
145	Malignant neoplasm of other and unspecified parts of mouth-----	44	239	Neoplasm of unspecified nature of other and unspecified organs-----	8
146	Malignant neoplasm of oropharynx-----	37	III. ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES (240-279)		
147	Malignant neoplasm of nasopharynx-----	21	242	Thyrototoxicosis with or without goiter----	11
148	Malignant neoplasm of hypopharynx-----	19	243	Cretinism of congenital origin-----	1
149	Malignant neoplasm of pharynx, unspecified-----	59	244	Myxedema-----	26
150	Malignant neoplasm of esophagus-----	287	245	Thyroiditis-----	1
151	Malignant neoplasm of stomach-----	612	250	Diabetes mellitus-----	2,074
152	Malignant neoplasm of small intestine, including duodenum-----	24	251	Disorders of pancreatic internal secre- tion other than diabetes mellitus-----	12
153	Malignant neoplasm of large intestine, except rectum-----	1,529	252	Diseases of parathyroid gland-----	5
154	Malignant neoplasm of rectum and rectosigmoid junction-----	364	253	Diseases of pituitary gland-----	14
155	Malignant neoplasm of liver and intrahepatic bile ducts, specified as primary-----	84	254	Diseases of thymus gland-----	2
156	Malignant neoplasm of gall bladder and bile ducts-----	196	255	Diseases of adrenal glands-----	27
157	Malignant neoplasm of pancreas-----	710	256	Ovarian dysfunction-----	1
158	Malignant neoplasm of peritoneum and retroperitoneal tissue-----	28	258	Polyglandular dysfunction and other diseases of endocrine glands-----	14
159	Malignant neoplasm of unspecified digestive organs-----	24	262	Niacin deficiency-----	1
160	Malignant neoplasm of nose, nasal cavities, middle ear and accessory sinuses-----	22	263	Other vitamin B deficiency-----	1
161	Malignant neoplasm of larynx-----	126	266	Other vitamin deficiency-----	1
162	Malignant neoplasm of trachea, bronchus and lung-----	3,004	267	Protein malnutrition-----	1
163	Malignant neoplasm of other and unspecified respiratory organs-----	27	268	Nutritional marasmus-----	29
170	Malignant neoplasm of bone-----	71	269	Other nutritional deficiency-----	83
171	Malignant neoplasm of connective and other soft tissue-----	75	270	Congenital disorders of amino acid metabolism-----	2
172	Malignant melanoma of skin-----	109	271	Congenital disorders of carbohydrate metabolism-----	2
173	Other malignant neoplasm of skin-----	39	272	Congenital disorders of lipid metabolism--	3
174	Malignant neoplasm of breast-----	1,326			
180	Malignant neoplasm of cervix uteri-----	264			
181	Chorionepithelioma-----	4			
182	Other malignant neoplasm of uterus-----	218			
183	Malignant neoplasm of ovary, fallopian tube and broad ligament-----	373			
184	Malignant neoplasm of other and unspecified female genital organs-----	44			

TABLE 4.12
NUMBER OF DEATHS BY CAUSE
MICHIGAN RESIDENTS, 1973 (continued)

ICDA LIST NUMBER	CAUSE OF DEATH	NUMBER	ICDA LIST NUMBER	CAUSE OF DEATH	NUMBER
273	Other and unspecified congenital disorders of metabolism-----	30	400	Malignant hypertension-----	43
274	Gout-----	16	401	Essential benign hypertension-----	38
275	Plasma protein abnormalities-----	14	402	Hypertensive heart disease-----	330
276	Amyloidosis-----	11	403	Hypertensive renal disease-----	191
277	Obesity not specified as of endocrine origin-----	69	404	Hypertensive heart and renal disease-----	140
278	Other hyperalimentations-----	1	410	Acute myocardial infarction-----	14,724
279	Other and unspecified metabolic diseases-----	29	411	Other acute and subacute forms of ischemic heart disease-----	99
	IV. DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS (280-289)		412	Chronic ischemic heart disease-----	12,633
280	Iron deficiency anemias-----	4	413	Angina pectoris-----	11
281	Other deficiency anemias-----	12	420	Acute pericarditis, non-rheumatic-----	2
282	Hereditary hemolytic anemias-----	24	421	Acute and subacute endocarditis-----	28
283	Acquired hemolytic anemias-----	4	422	Acute myocarditis-----	19
284	Aplastic anemia-----	59	423	Chronic disease of pericardium, non-rheumatic-----	15
285	Other and unspecified anemias-----	50	424	Chronic disease of endocardium-----	46
286	Coagulation defects-----	31	425	Cardiomyopathy-----	111
287	Purpura and other hemorrhagic conditions-----	18	426	Pulmonary heart disease-----	61
288	Agranulocytosis-----	20	427	Symptomatic heart disease-----	966
289	Other diseases of blood and blood-forming organs-----	18	428	Other myocardial insufficiency-----	124
	V. MENTAL DISORDERS (290-315)		429	Ill-defined heart disease-----	72
290	Senile and presenile dementia-----	18	430	Subarachnoid hemorrhage-----	379
291	Alcoholic psychosis-----	19	431	Cerebral hemorrhage-----	1,233
294	Psychosis associated with other physical conditions-----	1	432	Occlusion of precerebral arteries-----	132
295	Schizophrenia-----	8	433	Cerebral thrombosis-----	2,446
296	Affective psychoses-----	1	434	Cerebral embolism-----	39
298	Other psychoses-----	1	435	Transient cerebral ischemia-----	1
299	Unspecified psychosis-----	2	436	Acute but ill-defined cerebrovascular disease-----	2,387
300	Neuroses-----	1	437	Generalized ischemic cerebrovascular disease-----	1,241
303	Alcoholism-----	176	438	Other and ill-defined cerebrovascular disease-----	129
304	Drug dependence-----	163	440	Arteriosclerosis-----	1,142
305	Physical disorder presume psychogenic-----	1	441	Aortic aneurysm (non-syphilitic)-----	618
306	Special symptoms not elsewhere classified-----	5	442	Other aneurysm-----	50
309	Mental disorders not specified as psychotic associated with physical conditions-----	41	443	Other peripheral vascular disease-----	23
313	Severe mental retardation-----	3	444	Arterial embolism and thrombosis-----	225
315	Unspecified mental retardation-----	17	445	Gangrene-----	97
	VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS (320-389)		446	Polyarteritis nodosa and allied conditions-----	24
320	Meningitis-----	57	447	Other diseases of arteries and arterioles-----	16
321	Phlebitis and thrombophlebitis of intracranial venous sinuses-----	1	448	Diseases of capillaries-----	1
322	Intracranial and intraspinal abscess-----	8	450	Pulmonary embolism and infarction-----	475
323	Encephalitis, myelitis and encephalomyelitis-----	18	451	Phlebitis and thrombophlebitis-----	77
324	Late effects of intracranial abscess or pyogenic infection-----	1	452	Portal vein thrombosis-----	2
330	Hereditary neuromuscular disorders-----	31	453	Other venous embolism and thrombosis-----	31
331	Hereditary diseases of the striatopallidal system-----	16	454	Varicose veins of lower extremities-----	8
332	Hereditary ataxia-----	1	456	Varicose veins of other sites-----	24
333	Other hereditary and familial diseases of nervous system-----	6	457	Non-infective disease of lymphatic channels-----	1
340	Multiple sclerosis-----	72	458	Other diseases of circulatory system-----	30
341	Other demyelinating diseases of central nervous system-----	1	460	Acute nasopharyngitis (common cold)-----	2
342	Paralysis agitans-----	144	462	Acute pharyngitis-----	4
343	Cerebral spastic infantile paralysis-----	29	463	Acute tonsillitis-----	2
344	Other cerebral paralysis-----	55	465	Acute upper respiratory infection of multiple or unspecified sites-----	14
345	Epilepsy-----	84	466	Acute bronchitis and bronchiolitis-----	25
347	Other diseases of brain-----	107	470	Influenza, unqualified-----	61
348	Motor neurone disease-----	79	471	Influenza with pneumonia-----	62
349	Other diseases of spinal cord-----	8	472	Influenza with other respiratory manifestations-----	6
354	Polymyositis and polyradiculitis-----	7	473	Influenza with digestive manifestations-----	3
357	Other diseases of peripheral nerves except autonomic-----	5	480	Viral pneumonia-----	43
374	Cataract-----	3	481	Pneumococcal pneumonia-----	120
375	Glaucoma-----	1	482	Other bacterial pneumonia-----	57
381	Otitis media without mention of mastoiditis-----	6	483	Pneumonia due to other specified organism-----	1
387	Other diseases of ear and mastoid process-----	1	484	Acute interstitial pneumonia-----	42
389	Other deafness-----	1	485	Bronchopneumonia, unspecified-----	541
	DISEASES OF THE CIRCULATORY SYSTEM (390-458)		486	Pneumonia, unspecified-----	1,154
390	Rheumatic fever without mention of heart involvement-----	1	490	Bronchitis, unqualified-----	29
391	Rheumatic fever with heart involvement-----	11	491	Chronic bronchitis-----	194
393	Diseases of pericardium-----	7	492	Emphysema-----	1,085
394	Diseases of mitral valve-----	136	493	Asthma-----	85
395	Diseases of aortic valve-----	157	500	Hypertrophy of tonsils and adenoids-----	1
396	Diseases of mitral and aortic valves-----	40	501	Peritonsillar abscess-----	1
397	Diseases of other endocardial structures-----	27	503	Chronic sinusitis-----	1
398	Other heart disease, specified as rheumatic-----	184	508	Other diseases of upper respiratory tract-----	14
	VII. DISEASES OF THE RESPIRATORY SYSTEM (460-519)		510	Empyema-----	18
460	Acute nasopharyngitis (common cold)-----	2	511	Pleurisy-----	23
462	Acute pharyngitis-----	4	512	Spontaneous pneumothorax-----	12
463	Acute tonsillitis-----	2	513	Abscess of lung-----	36
465	Acute upper respiratory infection of multiple or unspecified sites-----	14	514	Pulmonary congestion and hypostasis-----	39
466	Acute bronchitis and bronchiolitis-----	25			
470	Influenza, unqualified-----	61			
471	Influenza with pneumonia-----	62			
472	Influenza with other respiratory manifestations-----	6			
473	Influenza with digestive manifestations-----	3			
480	Viral pneumonia-----	43			
481	Pneumococcal pneumonia-----	120			
482	Other bacterial pneumonia-----	57			
483	Pneumonia due to other specified organism-----	1			
484	Acute interstitial pneumonia-----	42			
485	Bronchopneumonia, unspecified-----	541			
486	Pneumonia, unspecified-----	1,154			
490	Bronchitis, unqualified-----	29			
491	Chronic bronchitis-----	194			
492	Emphysema-----	1,085			
493	Asthma-----	85			
500	Hypertrophy of tonsils and adenoids-----	1			
501	Peritonsillar abscess-----	1			
503	Chronic sinusitis-----	1			
508	Other diseases of upper respiratory tract-----	14			
510	Empyema-----	18			
511	Pleurisy-----	23			
512	Spontaneous pneumothorax-----	12			
513	Abscess of lung-----	36			
514	Pulmonary congestion and hypostasis-----	39			

TABLE 4.12
NUMBER OF DEATHS BY CAUSE
MICHIGAN RESIDENTS, 1973 (continued)

ICDA LIST NUMBER	CAUSE OF DEATH	NUMBER	ICDA LIST NUMBER	CAUSE OF DEATH	NUMBER
515	Pneumoconiosis due to silica and silicates-----	25	651	Delivery complicated by placenta previa or antepartum hemorrhage-----	1
516	Other pneumoconioses and related diseases-----	1	652	Delivery complicated retained placenta-----	1
517	Other chronic interstitial pneumonia-----	146	653	Delivery complicated other postpartum hemorrhage-----	1
518	Bronchiectasis-----	29	660	Delivery complicated other obstetrical trauma-----	3
519	Other diseases of respiratory system-----	444	670	Sepsis of childbirth and the puerperium-----	4
IX. DISEASES OF THE DIGESTIVE SYSTEM (520-577)			673	Puerperal pulmonary embolism-----	3
525	Other diseases and conditions of the teeth and supporting structures-----	2	674	Cerebral hemorrhage in puerperium-----	2
526	Diseases of the jaws-----	1	675	Puerperal blood dyscrasias-----	1
528	Diseases of oral soft tissue excluding gingiva and tongue-----	1	XII. DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE (680-709)		
530	Diseases of esophagus-----	41	680	Boil and carbuncle-----	1
531	Ulcer of stomach-----	145	682	Other cellulitis and abscess-----	12
532	Ulcer of duodenum-----	123	686	Other local infections of skin and subcutaneous tissue-----	4
533	Peptic ulcer, site unspecified-----	48	692	Other eczema and dermatitis-----	1
534	Gastrojejunal ulcer-----	29	694	Pemphigus-----	3
535	Gastritis and duodenitis-----	27	695	Erythematous conditions-----	10
536	Disorders of function of stomach-----	2	700	Corns and callosities-----	1
537	Other diseases of stomach and duodenum-----	20	707	Chronic ulcer of skin-----	42
540	Acute appendicitis-----	29	708	Urticaria-----	2
541	Appendicitis, unqualified-----	2	709	Other diseases of skin-----	1
550	Inguinal hernia without mention of obstruction-----	2	XIII. DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE (710-738)		
551	Other hernia of abdominal cavity without mention of obstruction-----	31	710	Acute arthritis due to pyogenic organisms--	1
552	Inguinal hernia with obstruction-----	16	712	Rheumatoid arthritis and allied conditions-----	59
553	Other hernia of abdominal cavity with obstruction-----	41	713	Osteoarthritis and allied conditions-----	12
560	Intestinal obstruction without mention of hernia-----	193	715	Arthritis, unspecified-----	9
561	Non-infect gastroenteritis and colitis-----	1	716	Polymyositis and dermatomyositis-----	9
562	Diverticula of intestine-----	157	717	Other non-articular rheumatism-----	1
563	Chronic enteritis and ulcerative colitis-----	44	720	Osteomyelitis and periostitis-----	10
564	Functional disorders of intestines-----	6	721	Osteitis deformans-----	5
566	Abscess of anal and rectal regions-----	2	723	Other diseases of bone-----	3
567	Peritonitis-----	38	725	Displacement of intervertebral disc-----	1
568	Peritoneal adhesions-----	2	729	Other diseases of joint-----	8
569	Other diseases of intestines and peritoneum-----	217	733	Other diseases of muscle, tendon and fascia-----	9
570	Acute and subacute necrosis of liver-----	21	734	Diffuse diseases of connective tissue-----	58
571	Cirrhosis of liver-----	1,711	735	Curvature of spine-----	7
572	Suppurative hepatitis and liver abscess-----	3	737	Hallux valgus and varus-----	1
573	Other diseases of liver-----	91	XIV. CONGENITAL ANOMALIES (740-759)		
574	Cholelithiasis-----	81	740	Anencephalus-----	41
575	Cholecystitis and cholangitis, without mention of calculus-----	46	741	Spina bifida-----	27
576	Other diseases of gall bladder and biliary ducts-----	58	742	Congenital hydrocephalus-----	21
577	Diseases of pancreas-----	142	743	Other congenital anomalies of nervous system-----	28
X. DISEASES OF THE GENITOURINARY SYSTEM (580-629)			745	Congenital anomalies of ear, face and neck-----	1
580	Acute nephritis-----	47	746	Congenital anomalies of heart-----	255
581	Nephrotic syndrome-----	20	747	Other congenital anomalies of circulatory system-----	43
582	Chronic nephritis-----	209	748	Congenital anomalies of respiratory system-----	36
583	Nephritis, unqualified-----	41	749	Cleft palate and cleft lip-----	3
584	Renal sclerosis, unqualified-----	6	750	Other congenital anomalies of upper alimentary tract-----	4
590	Infections of kidney-----	180	751	Other congenital anomalies of digestive system-----	26
591	Hydronephrosis-----	6	752	Congenital anomalies of genital organs-----	1
592	Calculus of kidney and ureter-----	17	753	Congenital anomalies of urinary system-----	29
593	Other diseases of kidney and ureter-----	179	755	Other congenital anomalies of limbs-----	1
594	Calculus of other parts of urinary system-----	5	756	Other congenital anomalies of musculoskeletal system-----	19
595	Cystitis-----	11	758	Other and unspecified congenital anomalies-----	12
596	Other diseases of bladder-----	10	759	Congenital syndromes affecting multiple systems-----	71
598	Stricture of urethra-----	4	XV. CERTAIN CAUSES OF PERINATAL MORBIDITY AND MORTALITY (760-779)		
599	Other diseases of urinary tract-----	55	761	Other maternal conditions unrelated to pregnancy-----	17
600	Hyperplasia of prostate-----	40	762	Toxemia of pregnancy-----	7
601	Prostatitis-----	6	763	Maternal ante- and intrapartum infection-----	10
602	Other diseases of prostate-----	20	764	Difficult labor with abnormality of bones, organs or tissues of pelvis-----	1
603	Hydrocele-----	1	766	Difficult labor with malposition of fetus-----	5
607	Other diseases of male genital organs-----	6	767	Difficult labor with abnormality of forces of labor-----	3
614	Salpingitis and oophoritis, unqualified-----	2	768	Difficult labor with other and unspecified complications-----	9
616	Diseases of parametrium and pelvic peritoneum (female)-----	8	769	Other complications of pregnancy and childbirth-----	189
620	Infective diseases of cervix uteri-----	1			
622	Infective diseases of uterus (except cervix), vagina and vulva-----	1			
623	Uterovaginal prolapse-----	5			
623	Other diseases of uterus-----	7			
626	Disorders of menstruation-----	1			
629	Other diseases of female genital organs-----	3			
XI. COMPLICATIONS OF PREGNANCY, CHILDBIRTH AND THE PUERPERIUM (630-678)					
631	Ectopic pregnancy-----	4			
632	Hemorrhage of pregnancy-----	2			
634	Other complications of pregnancy-----	3			
644	Abortion not specified as induced or spontaneous-----	1			

TABLE 4.12
NUMBER OF DEATHS BY CAUSE
MICHIGAN RESIDENTS, 1973 (continued)

ICDA LIST NUMBER	CAUSE OF DEATH	NUMBER	ICDA LIST NUMBER	CAUSE OF DEATH	NUMBER
770	Conditions of placenta-----	73	E864	Accidental poisoning by petroleum products and other solvents-----	2
771	Conditions of umbilical cord-----	20	E865	Accidental poisoning by pesticides, fertilizers or plant food-----	1
772	Birth injury without mention of cause-----	77	E869	Accidental poisoning by other and unspecified solid and liquid substances-----	26
774	Hemolytic disease of newborn with kernicterus-----	1	E870	Accidental poisoning by gas distributed by pipeline-----	1
775	Hemolytic disease of newborn without mention of kernicterus-----	21	E871	Accidental poisoning by liquefied petroleum gas distributed in mobile containers-----	1
776	Anoxic and hypoxic conditions not elsewhere classifiable-----	695	E873	Accidental poisoning by motor vehicle exhaust gas-----	59
777	Immaturity, unqualified-----	263	E875	Accidental poisoning by other carbon monoxide-----	36
778	Other conditions of fetus or newborn-----	97	E876	Accidental poisoning by other gases and vapors-----	6
XVI. SYMPTOMS AND ILL DEFINED CONDITIONS (780-796)			E880	Fall on or from stairs or steps-----	68
780	Symptoms referable nervous system senses-----	6	E881	Fall on or from ladders or scaffolding-----	12
782	Symptoms referable to cardiovascular and lymphatic system-----	69	E882	Fall from or out of building or other structure-----	21
783	Symptoms referable to respiratory system-----	4	E883	Fall into hole or other opening in surface-----	10
784	Symptoms referable to upper gastrointestinal tract-----	1	E884	Other fall from one level to another-----	46
785	Symptoms referable to abdomen and lower gastrointestinal tract-----	2	E885	Fall on same level from slipping, stumbling or tripping-----	9
786	Symptoms referable genitourinary system-----	1	E886	Fall on same level collision, pushing, shoving or other-----	1
788	Other general symptoms-----	9	E887	Other and unspecified falls-----	485
792	Uremia-----	17	E890	Accident caused by conflagration in private dwelling-----	201
794	Senility without mention of psychosis-----	20	E891	Accident caused by conflagration in other building or structure-----	4
795	Sudden death (cause unknown)-----	221	E892	Accident caused by conflagration not in building or structure-----	6
796	Other ill-defined and unknown causes of morbidity and mortality-----	212	E893	Accident caused by ignition of clothing-----	9
XVII. ACCIDENTS, POISONINGS AND VIOLENCE EXTERNAL CAUSE (E800-E999)			E894	Accident caused by ignition of highly inflammable material-----	9
E801	Railway accident involving collision with other object-----	3	E895	Accident caused by controlled fire in private dwelling-----	1
E805	Hit by rolling stock-----	6	E896	Accident caused by controlled fire in other building or structure-----	1
E807	Railway accident of unspecified nature-----	2	E897	Accident caused by controlled fire not in building or structure-----	1
E810	Motor vehicle traffic accident involving collision with train-----	50	E898	Accident caused by other specified fires or flames-----	13
E812	Motor vehicle traffic accident involving collision with another motor vehicle-----	1,052	E899	Accident caused by unspecified fire-----	19
E813	Motor vehicle traffic accident involving collision with other vehicle-----	73	E900	Excessive heat-----	8
E814	Motor vehicle traffic accident involving collision with pedestrian-----	372	E901	Excessive cold-----	8
E815	Other motor vehicle traffic accident involving collision-----	243	E902	High and low air pressure-----	1
E816	Non-collision motor vehicle traffic accident due to loss of control-----	404	E904	Hunger, thirst, exposure and neglect-----	13
E818	Other non-collision motor vehicle traffic accident-----	23	E905	Bites and stings of venomous animals and insects-----	1
E819	Motor vehicle traffic accident of unspecified nature-----	109	E906	Other accidents caused by animals-----	5
E820	Motor vehicle non-traffic accident involving collision with moving object-----	27	E907	Lightning-----	4
E821	Motor vehicle non-traffic accident involving collision with stationary object-----	1	E910	Accidental drowning and submersion-----	294
E822	Motor vehicle non-traffic accident boarding or alightin.-----	1	E911	Inhalation and ingestion of food causing obstruction or suffocation-----	90
E823	Motor vehicle non-traffic accident of other and unspecified nature-----	34	E912	Inhalation and ingestion of other object causing obstruction or suffocation-----	45
E826	Pedal cycle accident-----	3	E913	Accidental mechanical suffocation-----	39
E827	Other non-motor road vehicle accident-----	3	E915	Foreign body accidentally entering other orifice-----	3
E830	Accident to watercraft causing submersion-----	30	E916	Struck accidentally by falling object-----	36
E831	Accident to watercraft causing other injury-----	4	E917	Striking against or struck accidentally by object-----	24
E832	Other accidental submersion or drowning in water transport-----	24	E918	Caught accidentally in or between objects-----	24
E833	Fall on stairs or ladders in water transport-----	1	E919	Overexertion and strenuous movements-----	1
E837	Explosion fire burning and in water transport-----	1	E920	Accident caused by cutting or piercing instruments-----	7
E838	Other and unspecified water transport accident-----	7	E921	Accident caused by explosion of pressure vessel-----	1
E841	Accident to powered aircraft, other and unspecified-----	64	E922	Accident caused by firearm missiles-----	75
E844	Other specified air transport accident-----	5	E923	Accident caused by explosive material-----	18
E851	Accidental poisoning by hormones and synthetic substitutes-----	1	E924	Accident caused by hot substance, corrosive liquid and steam-----	10
E852	Accidental poisoning by primarily systematic and hematologic agents-----	2	E925	Accident caused by electric current-----	42
E853	Accidental poisoning by analgesics and antipyretics-----	26	E927	Vehicle accident not elsewhere classifiable-----	23
E854	Accidental poisoning by other sedatives and hypnotics-----	22	E928	Machinery accidents not elsewhere classifiable-----	24
E855	Accidental poisoning by autonomic nervous system and psychotherapeutic drugs-----	4	E929	Other and unspecified accidents-----	63
E857	Accidental poisoning by cardiovascular drugs-----	1	E930	Complications and misadventures in operative therapeutic procedures-----	27
E859	Accidental poisoning by other and unspecified drugs and medicaments-----	33	E931	Complications and misadventures in other and unspecified therapeutic procedures-----	27
E860	Accidental poisoning by alcohol-----	7	E932	Complications and misadventures in diagnostic procedures-----	3
E861	Accidental poisoning by cleansing and polishing agents-----	1	E935	Complications and misadventures in other prophylactic procedures-----	2

TABLE 4.12
NUMBER OF DEATHS BY CAUSE
MICHIGAN RESIDENTS, 1973 (continued)

ICDA LIST NUMBER	CAUSE OF DEATH	NUMBER
E936	Complications and misadventures in other non-therapeutic procedures-----	1
E940	Late effect of motor vehicle accident-----	7
E941	Late effect other transport accident-----	1
E942	Late effect of accidental poisoning-----	1
E943	Late effect of accidental fall-----	4
E946	Late effect of other accident-----	6
E947	Late effect of surgical operation-----	4
E948	Late effect of irradiation-----	1
E950	Suicide and self-inflicted poisoning by solid or liquid substances-----	184
E951	Suicide and self-inflicted poisoning by gases in domestic use-----	1
E952	Suicide and self-inflicted poisoning by other gases-----	172
E953	Suicide and self-inflicted injury by hanging, strangulation and suffocation-----	177
E954	Suicide and self-inflicted injury by submersion (drowning)-----	29
E955	Suicide and self-inflicted injury by firearms and explosives-----	507
E956	Suicide and self-inflicted injury by cutting and piercing instruments-----	12
E957	Suicide and self-inflicted injury by jumping from high place-----	16
E958	Suicide and self-inflicted injury by other and unspecified means-----	19
E960	Fight, brawl or rape-----	4
E963	Assault by hanging and strangulation-----	45
E964	Assault by submersion (drowning)-----	2
E965	Assault by firearms and explosives-----	819
E966	Assault by cutting and piercing instruments-----	164
E967	Assault by pushing from high place-----	1
E968	Assault by other and unspecified means-----	112
E969	Late effect of injury purposely inflicted by other person-----	2
E970	Injury due to legal intervention by firearms-----	31
E980	Poisoning by solid or liquid substances, undetermined whether accidentally or purposely inflicted-----	37
E982	Poisoning by other gases, undetermined whether accidentally or purposely inflicted-----	11
E983	Hanging and strangulation undetermined-----	6
E984	Submersion (drowning), undetermined whether accidentally or purposely inflicted-----	27
E985	Injury by firearms and explosives, undetermined whether accidentally or purposely inflicted-----	32
E986	Injury by cutting and piercing instruments, undetermined whether accidentally or purposely inflicted-----	1
E987	Falling from high places undetermined whether accidentally or purposely inflicted-----	8
E988	Injury by other and unspecified means, undetermined whether accidentally or purposely inflicted-----	40
E989	Late effects of injury undetermined whether accidentally or purposely inflicted-----	1
TOTAL		78,522

TABLE 4.13—Population by Age and Sex, Michigan Residents, 1973

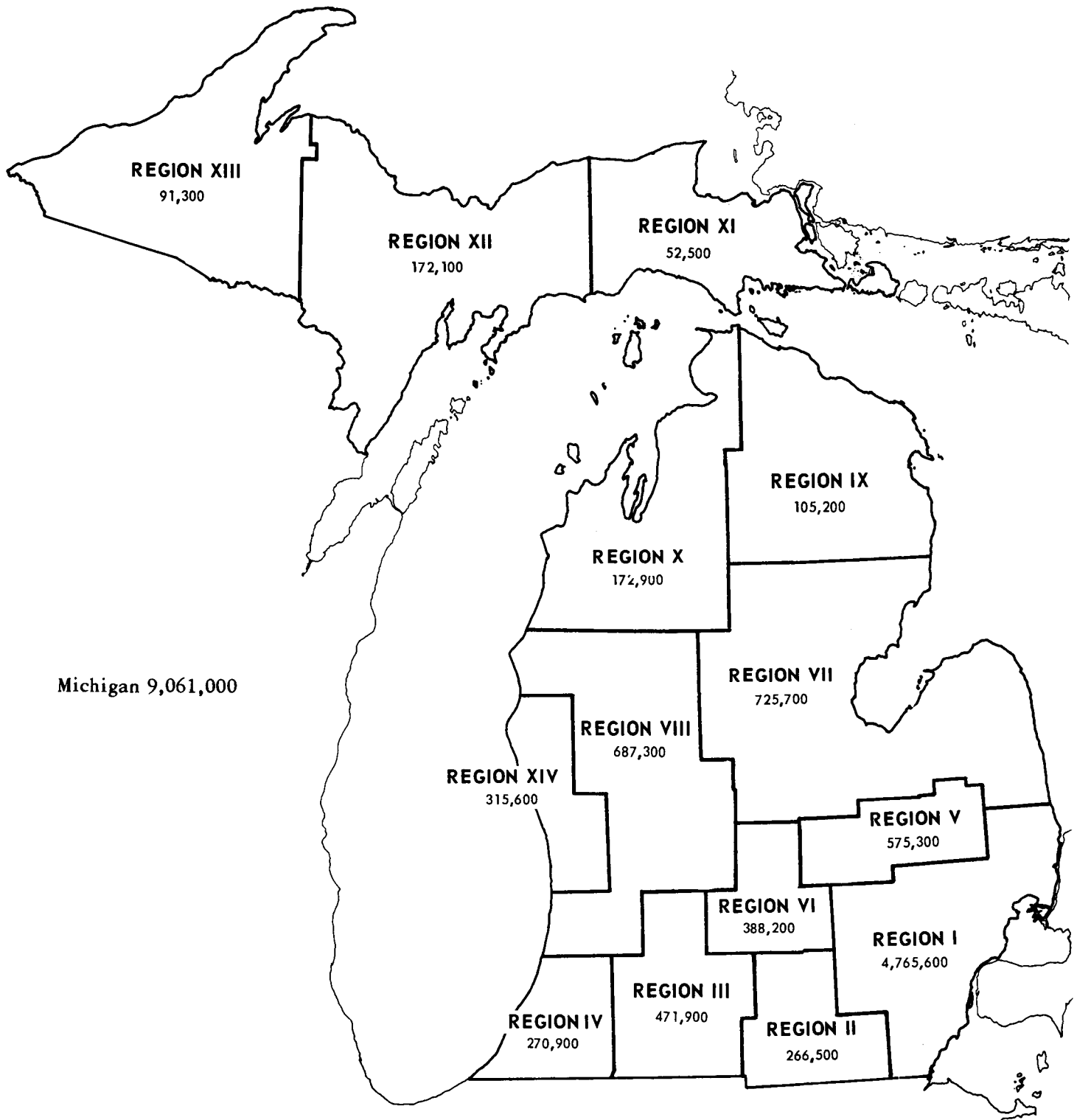
AGE	TOTAL	%	MALES	%	FEMALES	%
0-4 Years.....	795,556	8.78	406,468	9.13	389,457	8.45
5-9.....	852,640	9.41	434,070	9.75	418,682	9.08
10-14.....	946,875	10.45	481,706	10.82	464,808	10.08
15-19.....	943,250	10.41	479,926	10.78	462,840	10.04
20-24.....	735,753	8.12	346,811	7.79	388,711	8.43
25-29.....	624,303	6.89	295,168	6.63	329,508	7.15
30-34.....	574,468	6.34	296,058	6.65	278,286	6.04
35-39.....	472,078	5.21	239,072	5.37	233,489	5.07
40-44.....	482,951	5.33	241,744	5.43	241,183	5.23
45-49.....	531,881	5.87	262,223	5.89	269,655	5.85
50-54.....	506,510	5.59	243,524	5.47	262,681	5.70
55-59.....	438,553	4.84	212,360	4.77	226,602	4.92
60-64.....	357,003	3.94	170,512	3.83	186,401	4.04
65-69.....	273,642	3.02	127,772	2.87	145,998	3.17
70-74.....	202,966	2.24	88,595	1.99	114,249	2.48
75-79.....	147,694	1.63	60,992	1.37	86,706	1.88
80-84.....	111,450	1.23	42,294	0.95	68,848	1.49
85 and Over.....	63,427	0.70	22,705	0.51	40,896	0.89
TOTAL.....	9,061,000	100.0	4,452,000	100.0	4,609,000	99.99

TABLE 4.14
POPULATION CHANGES BY COUNTY
MICHIGAN RESIDENTS, 1973

Area	Population Estimates July 1, 1963	Revised Population Estimates July 1, 1973	Percent Change	Natural Increases	Net Migration
STATE	8,030,000	9,061,000	12.8	879,549	151,451
Alcona	6,100	8,300	36.1	67	2,133
Alger	8,900	8,200	-7.9	304	-1,004
Allegan	56,900	69,800	22.7	6,110	6,790
Alpena	28,900	32,300	11.8	2,832	568
Antrim	10,400	13,900	33.7	451	3,049
Arenac	9,500	12,500	31.6	553	2,447
Baraga	7,400	7,700	4.1	443	-143
Barry	28,800	40,800	41.7	2,963	9,037
Bay	106,000	118,700	12.0	12,268	432
Benzie	8,000	9,000	12.5	273	727
Berrien	154,100	167,400	8.6	17,768	-4,468
Branch	34,700	39,600	14.1	2,308	2,592
Calhoun	137,300	140,600	2.4	13,182	-9,882
Cass	37,200	43,000	15.6	2,981	2,819
Charlevoix	14,000	17,700	26.4	954	2,746
Cheboygan	13,800	18,700	35.5	1,134	3,766
Chippewa	35,800	34,400	-3.9	4,882	-6,282
Clare	12,100	19,300	59.5	684	6,516
Clinton	41,900	48,500	15.8	5,916	484
Crawford	5,200	7,700	48.1	335	2,165
Delta	33,800	38,000	12.4	2,076	2,124
Dickinson	24,300	24,000	-1.2	465	-765
Eaton	52,200	72,800	39.5	6,517	14,083
Emmet	16,100	20,100	24.8	1,169	2,831
Genesee	401,700	449,900	12.0	61,105	-12,905
Gladwin	10,200	15,400	51.0	597	4,603
Gogebic	22,000	20,400	-7.3	-459	-1,141
Grand Traverse	35,300	43,300	22.7	3,171	4,829
Gratiot	37,500	40,400	7.7	4,257	-1,357
Hillsdale	33,800	39,400	16.6	2,740	2,860
Houghton	34,900	36,500	4.6	327	1,273
Huron	34,500	35,400	2.6	2,268	-1,368
Ingham	222,700	266,900	19.8	34,135	10,065
Ionia	43,600	47,800	9.6	4,270	-70
Iosco	20,700	28,200	36.2	3,660	3,840
Iron	15,900	13,600	-14.5	-599	-1,701
Isabella	35,200	48,400	37.5	4,510	8,690
Jackson	133,900	143,400	7.1	12,523	-3,023
Kalamazoo	174,600	200,800	15.0	19,717	6,483
Kalamaska	4,400	6,500	47.7	216	1,884
Kent	378,200	416,200	10.0	41,489	-3,489
Keweenaw	2,500	2,200	-12.0	-116	-184
Lake	5,200	6,400	23.1	-185	1,385
Lapeer	43,400	58,100	33.9	5,607	9,093
Leelanau	9,400	12,000	27.7	377	2,223
Lenawee	75,700	83,700	10.6	7,716	284
Livingston	39,600	68,900	74.0	5,183	24,117
Luce	7,200	7,600	5.6	160	240
Mackinac	10,600	10,500	-0.9	573	-673
Macomb	477,200	644,800	35.1	84,594	83,006
Manistee	19,200	21,200	10.4	809	1,191
Marquette	61,400	68,700	11.9	6,988	312
Mason	21,700	24,800	14.3	839	2,261
Mecosta	21,800	33,500	53.7	2,329	9,371
Menominee	24,300	24,800	2.1	816	-316
Midland	52,500	65,200	24.2	8,831	3,869
Missaukee	6,400	7,900	23.4	244	1,256
Monroe	104,200	124,600	19.6	13,202	7,198
Montcalm	37,200	42,700	14.8	3,216	2,284
Montmorency	4,200	6,400	52.4	19	2,181
Muskegon	152,700	158,000	3.5	16,425	-11,125
Newaygo	24,700	29,000	17.4	1,855	2,445
Oakland	724,900	941,300	29.9	97,620	118,780
Oceana	16,600	19,200	15.7	1,270	1,330
Ogemaw	9,200	13,000	41.3	193	3,607
Ontonagon	11,100	10,900	-1.8	469	-669
Osceola	13,500	17,100	26.7	986	2,614
Oscoda	3,500	5,700	62.9	10	2,190
Otsego	8,400	12,600	50.0	1,014	3,186
Ottawa	103,600	138,400	33.6	14,454	20,346
Presque Isle	13,000	13,500	3.8	835	-335
Roscommon	7,300	12,800	75.3	-202	5,702
Saginaw	196,500	226,600	15.3	27,742	2,358
St. Clair	106,600	127,800	19.9	10,322	10,878
St. Joseph	42,300	50,100	18.4	3,629	4,171
Sanilac	32,900	37,900	15.2	2,184	2,816
Schoolcraft	8,400	8,400	0.0	251	-251
Shiawassee	55,000	67,300	22.4	7,322	4,978
Tuscola	43,800	51,900	18.5	4,557	3,543
Van Buren	50,700	60,500	19.3	4,094	5,706
Washtenaw	184,300	244,300	32.6	28,467	31,533
Wayne	2,656,200	2,613,900	-1.6	233,052	-275,352
Wexford	18,600	21,300	14.5	1,237	1,463
Not Stated	0	0	0.0	-1	1

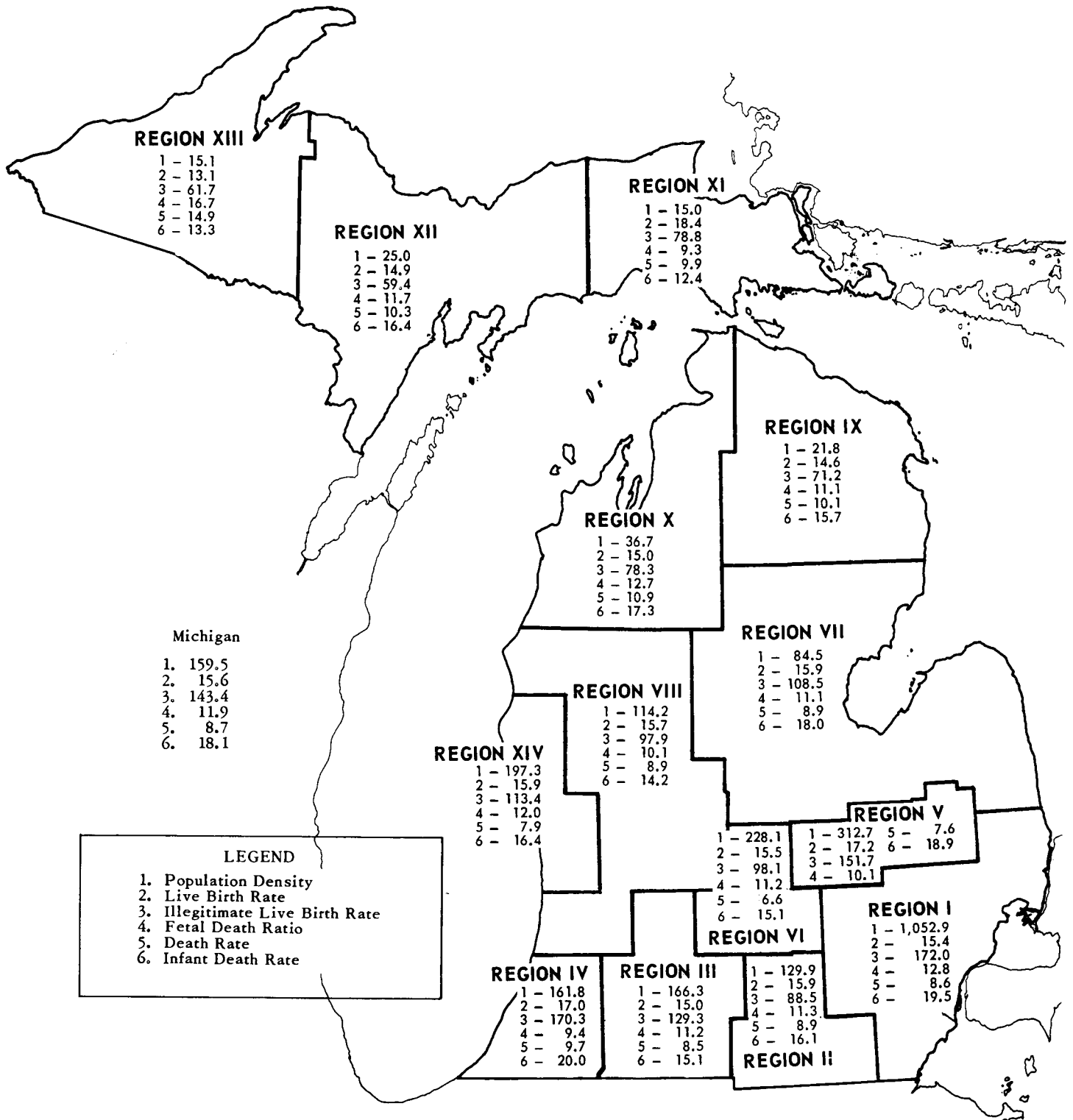
Note: County totals rounded to nearest hundred
State totals rounded to nearest thousand

FIGURE 4.1—Population by Region,¹ Michigan, 1973



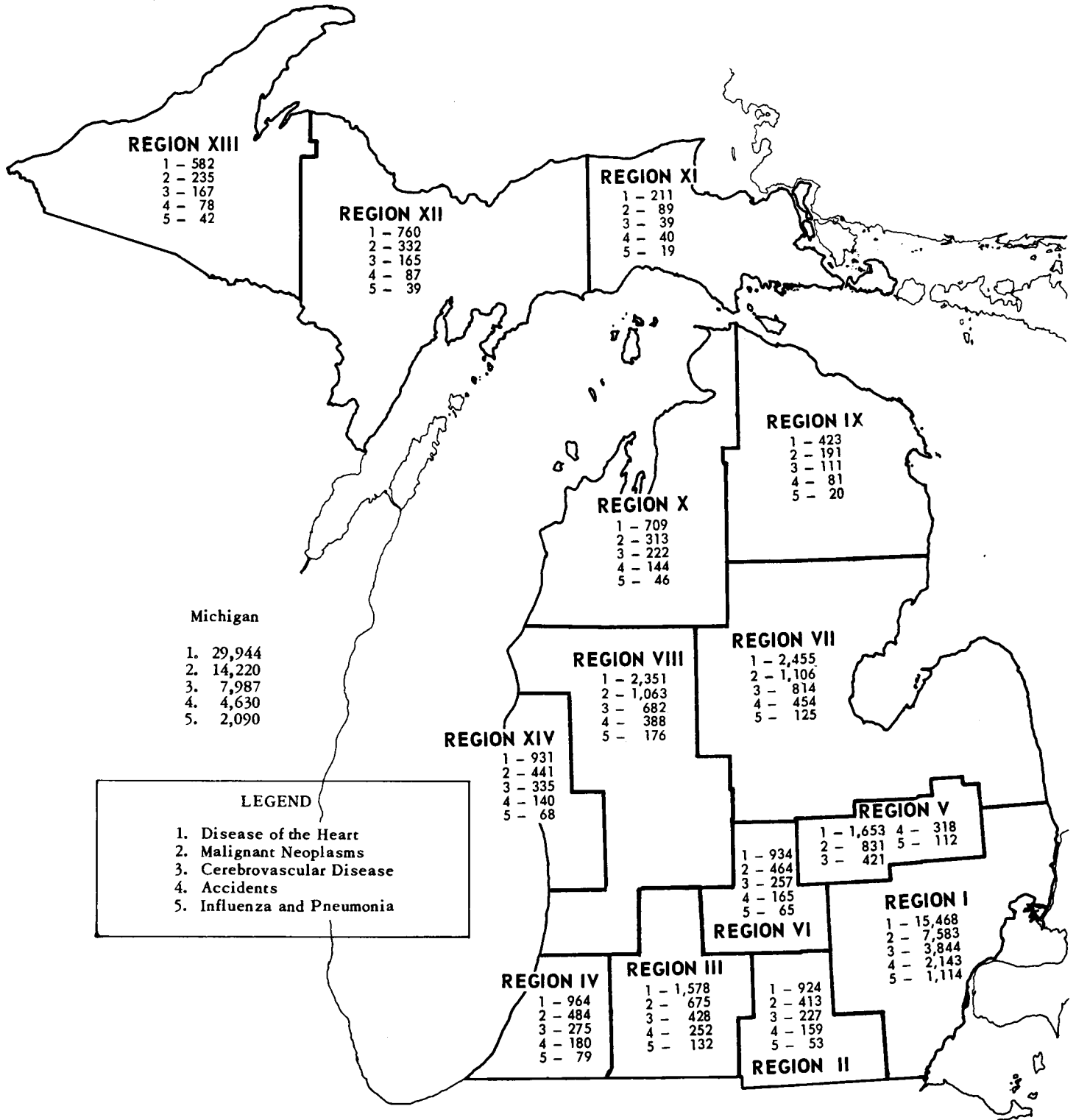
¹ State Planning and Development Regions – August, 1973

FIGURE 4.2—Population Density, Live Birth Rates, Illegitimate Live Birth Rates, Fetal Death Ratios, Death Rates and Infant Death Rates by Region,¹ Michigan Residents, 1973



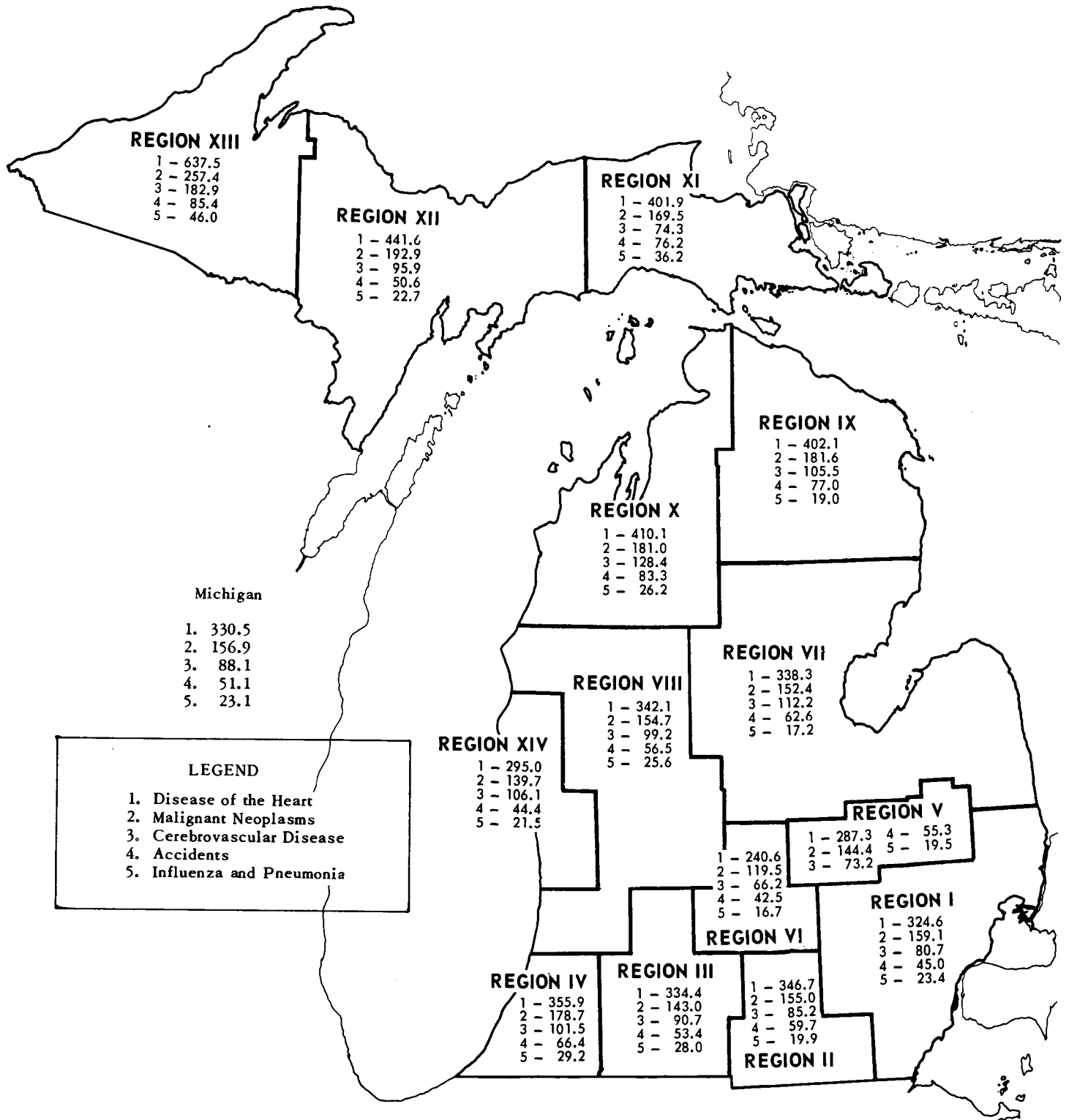
¹ State Planning and Development Regions - August, 1973

FIGURE 4.3—Leading Causes of Death; Number of Deaths by Region,¹
Michigan Residents, 1973



¹ State Planning and Development Regions - August, 1973

FIGURE 4.4—Leading Causes of Death; Rates by Region,¹
Michigan Residents, 1973



¹ State Planning and Development Regions - August, 1973.

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
CERTIFICATE OF LIVE BIRTH 121 -

LOCAL FILE NUMBER

BIRTH NUMBER

CHILD - NAME FIRST MIDDLE LAST			DATE OF BIRTH (MONTH, DAY, YEAR)		HOUR
1. SEX			2a. THIS BIRTH—SINGLE, TWIN, TRIPLET, ETC. (SPECIFY)		2b. M.
3. CITY, VILLAGE OR TOWNSHIP OF BIRTH			4a. INSIDE CITY LIMITS (SPECIFY YES OR NO)		4b. HOSPITAL—NAME (IF NOT IN HOSPITAL, GIVE STREET AND NUMBER)
5b.			5c.		5d.
MOTHER—MAIDEN NAME FIRST MIDDLE LAST			6b. AGE (AT TIME OF THIS BIRTH)		6c. STATE OF BIRTH (IF NOT IN U.S.A., NAME COUNTRY)
6a. RESIDENCE—STATE			7b. COUNTY		7c. CITY, VILLAGE OR TOWNSHIP
7d. INSIDE CITY LIMITS (SPECIFY YES OR NO)			7e. STREET AND NUMBER		
FATHER—NAME FIRST MIDDLE LAST			8b. AGE (AT TIME OF THIS BIRTH)		8c. STATE OF BIRTH (IF NOT IN U.S.A., NAME COUNTRY)
8a. INFORMANT			8b.		8c. RELATION TO CHILD
9a.			9b.		9c.
10a. CERTIFIER—NAME (TYPE OR PRINT)			10b. DATE SIGNED (MONTH, DAY, YEAR)		10c. ATTENDANT—M.D., D.O., MIDWIFE, OTHER (SPECIFY)
10d. REGISTRAR—SIGNATURE			10e. MAILING ADDRESS (STREET OR R.F.D. NO., CITY OR TOWN, STATE, ZIP)		
11a.			11b. DATE RECEIVED BY LOCAL REGISTRAR (MONTH, DAY, YEAR)		
CONFIDENTIAL INFORMATION FOR MEDICAL AND HEALTH USE ONLY					
12. RACE—FATHER WHITE, NEGRO, AMERICAN INDIAN, ETC. (SPECIFY)			13. EDUCATION—SPECIFY HIGHEST GRADE COMPLETED ELEMENTARY (0, 1, 2, 3, OR 4) HIGH SCHOOL (1, 2, 3, OR 4) COLLEGE (1, 2, 3, 4, OR 5 +)		14. PREVIOUS DELIVERIES—HOW MANY OTHER CHILDREN 14a. ARE NOW LIVING 14b. WERE BORN ALIVE—NOW DEAD 14c. WERE BORN DEAD (FETAL DEATH AT ANY TIME AFTER CONCEPTION)
15. RACE—MOTHER WHITE, NEGRO, AMERICAN INDIAN, ETC. (SPECIFY)			16. EDUCATION—SPECIFY HIGHEST GRADE COMPLETED ELEMENTARY (0, 1, 2, 3, OR 4) HIGH SCHOOL (1, 2, 3, OR 4) COLLEGE (1, 2, 3, 4, OR 5 +)		17a. DATE OF LAST LIVE BIRTH (MONTH, DAY, YEAR) 17b. DATE OF LAST FETAL DEATH (Still birth) (MONTH, DAY, YEAR)
18. DATE LAST NORMAL MENSES BEGAN (MONTH, DAY, YEAR)			19a. MONTH OF PREGNANCY PRENATAL CARE BEGAN FIRST, SECOND, THIRD, ETC. (SPECIFY)		19b. PRENATAL VISITS TOTAL NUMBER (IF NONE, SO STATE) 20. LEGITIMATE (SPECIFY YES OR NO) 21. BIRTH WEIGHT
22. COMPLICATIONS RELATED TO PREGNANCY (DESCRIBE OR WRITE "NONE")			23. BIRTH INJURIES TO CHILD (DESCRIBE OR WRITE "NONE")		
24. COMPLICATIONS NOT RELATED TO PREGNANCY (DESCRIBE OR WRITE "NONE")			25. CONGENITAL MALFORMATIONS OR ANOMALIES OF CHILD (DESCRIBE OR WRITE "NONE")		
26. COMPLICATIONS OF LABOR (DESCRIBE OR WRITE "NONE")			27. HAVE EYES OF CHILD BEEN TREATED WITH ONE PERCENT SOLUTION OF SILVER NITRATE?		
28. WAS MOTHER'S BLOOD TESTED FOR SYPHILIS DURING THIS PREGNANCY?			29. DATE OF TEST		30. IF BLOOD NOT TESTED, STATE REASON
31. DEATH UNDER ONE YEAR OF AGE			32. ENTER STATE FILE NUMBER OF DEATH CERTIFICATE FOR THIS CHILD		33. MULTIPLE BIRTHS (ENTER STATE FILE NUMBER FOR MATRICES) 34. LIVE BIRTH(S) 35. FETAL DEATH(S)

SAMPLE COPY

B-213
7-68
300M

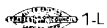
DETACH INSTRUCTIONS BEFORE FILING CERTIFICATE WITH REGISTRAR

TYPE OR PRINT (EXCEPT SIGNATURES) IN BLACK INK—THIS IS A PERMANENT RECORD

Michigan Public Act 343 of 1925, as amended, requires that certificates of birth be filed with the registrar of the district in which the birth occurred within five days after the event.

Many important legal, personal, public health, and social welfare interests require complete and accurate registration of all births. Individuals need certification of the facts of birth for evidence of age, of citizenship, and of family relationship. Social and health agencies need medical and social information concerning the child and his parents for administrative and statistical purposes. In order to protect the privacy of the individual to whom this certificate applies, most of the information of the latter type has been placed in a section of the certificate labeled: "Confidential Information for Medical and Health Use Only."

In case of more than one child at birth, a SEPARATE RETURN must be made for each and the number of each in order of birth stated. Accurate recording of the residence (not mailing address) of the mother is particularly important as it is used extensively for statistical purposes.



MICHIGAN DEPARTMENT OF PUBLIC HEALTH
CERTIFICATE OF FETAL DEATH

LOCAL FILE NUMBER

STATE FILE NUMBER

1. FETUS—NAME FIRST MIDDLE LAST			2a. DATE OF DELIVERY (MONTH, DAY, YEAR)		2b. HOUR
3. SEX	4a. THIS DELIVERY—SINGLE, TWIN, TRIPLET, ETC. (SPECIFY)		4b. IF NOT SINGLE DELIVERY BORN FIRST, SECOND, THIRD, ETC. (SPECIFY)		5a. COUNTY OF DELIVERY
5b. CITY, VILLAGE OR TOWNSHIP OF BIRTH		5c. INSIDE CITY LIMITS (SPECIFY YES OR NO)	5d. HOSPITAL—NAME (IF NOT IN HOSPITAL, GIVE STREET AND NUMBER)		
6a. MOTHER—MAIDEN NAME FIRST MIDDLE LAST			6b. AGE (AT TIME OF THIS DELIVERY)	6c. STATE OF BIRTH (IF NOT IN U.S.A., NAME COUNTRY)	
7a. RESIDENCE—STATE	7b. COUNTY	7c. CITY, VILLAGE OR TOWNSHIP	7d. INSIDE CITY LIMITS (SPECIFY YES OR NO)	7e. STREET AND NUMBER	
8a. FATHER—NAME FIRST MIDDLE LAST			8b. AGE (AT TIME OF THIS DELIVERY)	8c. STATE OF BIRTH (IF NOT IN U.S.A., NAME COUNTRY)	
9. PART I. FETAL DEATH WAS CAUSED BY: [ENTER ONLY ONE CAUSE PER LINE FOR (a), (b), AND (c)]					SPECIFY FETAL OR MATERNAL
FETAL OR MATERNAL CONDITION DIRECTLY CAUSING FETAL DEATH		(a) IMMEDIATE CAUSE			
FETAL AND/OR MATERNAL CONDITIONS, IF ANY, GIVING RISE TO THE IMMEDIATE CAUSE (a), STATING THE UNDERLYING CAUSE LAST		(b) DUE TO, OR AS A CONSEQUENCE OF:			
		(c) DUE TO, OR AS A CONSEQUENCE OF:			
10. PART II. OTHER SIGNIFICANT CONDITIONS OF FETUS OR MOTHER: CONDITION CONTRIBUTING TO FETAL DEATH BUT NOT RELATED TO CAUSE GIVEN IN PART I (a)			10. FETAL DISORDER OR DEFECT OCCURRING LATER OR DELAYED, UNKNOWN (SPECIFY)	11a. AUTOPSY (SPECIFY YES OR NO)	11b. IF YES, WERE FINDINGS CONSIDERED IN DETERMINING CAUSE OF DEATH
12a. SIGNATURE			12b. DATE (MONTH, DAY, YEAR)		12c. ATTENDANT—M.D., D.O., MIDWIFE, OTHER (SPECIFY)
12d. CERTIFIER—MAILING ADDRESS (STREET OR R.F.D. NO., CITY OR TOWN, STATE, ZIP)			12e. AUTHORIZED OFFICIAL (IF DELIVERY NOT ATTENDED BY PHYSICIAN)		
13. SIGNATURE					
14a. BURIAL, CREMATION, OR REMOVAL (SPECIFY)		14b. CEMETERY OR CREMATORY—NAME		14c. LOCATION (CITY OR TOWN, STATE)	
14d. DATE (MONTH, DAY, YEAR)		15a. FUNERAL HOME—NAME AND ADDRESS (STREET OR R.F.D. NO., CITY OR TOWN, STATE, ZIP)			
15b. FUNERAL DIRECTOR—SIGNATURE			16a. REGISTRAR—SIGNATURE		16b. DATE RECEIVED BY LOCAL REGISTRAR (MONTH DAY YEAR)
CONFIDENTIAL INFORMATION FOR MEDICAL AND HEALTH USE ONLY					
17. RACE—FATHER (WHITE, NEGRO, AMERICAN INDIAN, ETC. (SPECIFY))		18. EDUCATION—SPECIFY HIGHEST GRADE COMPLETED (ELEMENTARY (0,1,2,3,4, ... OR 8) HIGH SCHOOL (1,2,3, OR 4) COLLEGE (1,2,3,4, OR 5+))		19a. PREVIOUS DELIVERIES—HOW MANY OTHER CHILDREN (ARE NOW LIVING WERE BORN ALIVE—NOW DEAD WERE BORN DEAD (FETAL DEATH AT ANY TIME AFTER CONCEPTION))	
20. RACE—MOTHER (WHITE, NEGRO, AMERICAN INDIAN, ETC. (SPECIFY))		21. EDUCATION—SPECIFY HIGHEST GRADE COMPLETED (ELEMENTARY (0,1,2,3,4, ... OR 8) HIGH SCHOOL (1,2,3, OR 4) COLLEGE (1,2,3,4, OR 5+))		22a. DATE OF LAST LIVE BIRTH (MONTH DAY YEAR)	
23. DATE LAST NORMAL MENSTRUATION BEGAN (MONTH, DAY, YEAR)		24. MONTH OF PREGNANCY PRENATAL CARE BEGAN (1ST, 2D, ETC. (SPECIFY))		25. LEGITIMATE (SPECIFY YES OR NO)	
27. COMPLICATIONS RELATED TO PREGNANCY (DESCRIBE OR WRITE "NONE")			28. BIRTH INJURIES TO FETUS (DESCRIBE OR WRITE "NONE")		
29. COMPLICATIONS NOT RELATED TO PREGNANCY (DESCRIBE OR WRITE "NONE")			30. CONGENITAL MALFORMATIONS OR ANOMALIES OF FETUS (DESCRIBE OR WRITE "NONE")		
31. COMPLICATIONS OF LABOR (DESCRIBE OR WRITE "NONE")			31. MULTIPLE BIRTHS (ENTER STATE FILE NUMBER FOR MATRICES) (LIVE BIRTHS)		FETAL DEATH(S)

SAMPLE COPY

IF BLOOD NOT TESTED, STATE REASON

DATE OF TEST

WAS MOTHER'S BLOOD TESTED FOR SYPHILIS DURING THIS PREGNANCY?

DETACH INSTRUCTIONS BEFORE FILING CERTIFICATE WITH REGISTRAR

TYPE OR PRINT (EXCEPT SIGNATURES) IN BLACK INK—THIS IS A PERMANENT RECORD

Michigan Public Act 343 of 1925, as amended, requires that the attending physician, or in the absence of an attending physician, a coroner shall fill out and sign the medical certificate of fetal death (stillbirth) within 24 hours after death.

The funeral director is responsible for completing all other portions of the certificate and obtaining a burial or removal permit prior to disposing of the body, or removing from the registration district where the death occurred.

Many important legal, personal, public health, and social welfare interests require complete and accurate registration of all fetal deaths. Social and health agencies need medical and social information concerning the child and his parents for administrative and statistical purposes. In order to protect the privacy of the individual to whom this certificate applies, most of the information of this type has been placed in a section of the certificate labeled: "Confidential Information for Medical and Health Use Only."



B-35
1-68
25M

CERTIFICATE OF DEATH

LOCAL FILE NUMBER

Michigan Department of Public Health

STATE FILE NUMBER

DECEASED — NAME		FIRST	MIDDLE	LAST	SEX	DATE OF DEATH (MONTH, DAY, YEAR)		
1.				2.		3.		
DECEASED	RACE WHITE, NEGRO, AMERICAN INDIAN, ETC. (SPECIFY)	AGE — LAST BIRTHDAY (YEARS)	UNDER 1 YEAR MOS. DAYS	UNDER 1 DAY HOURS MIN.	DATE OF BIRTH (MONTH, DAY, YEAR)	COUNTY OF DEATH		
	4.	5a.	5b.	5c.	6.	7a.		
CITY, VILLAGE, OR TOWNSHIP OF DEATH			INSIDE CITY LIMITS (SPECIFY YES OR NO)	HOSPITAL OR OTHER INSTITUTION — NAME (IF NOT IN EITHER, GIVE STREET AND NUMBER)				
7b.			7c.	7d.				
STATE OF BIRTH (IF NOT IN U.S.A., NAME COUNTRY)		CITIZEN OF WHAT COUNTRY		MARRIED, NEVER MARRIED, WIDOWED, DIVORCED (SPECIFY)		SURVIVING SPOUSE (IF WIFE, GIVE MAIDEN NAME)		
8.		9.		10.		11.		
SOCIAL SECURITY NUMBER		USUAL OCCUPATION (GIVE KIND OF WORK DONE DURING MOST OF WORKING LIFE, EVEN IF RETIRED)			KIND OF BUSINESS OR INDUSTRY			
12.		13a.			13b.			
RESIDENCE — STATE	COUNTY	CITY, VILLAGE OR TOWNSHIP		INSIDE CITY LIMITS (SPECIFY YES OR NO)	STREET AND NUMBER			
14a.	14b.	14c.		14d.	14e.			
FATHER — NAME		FIRST	MIDDLE	LAST	MOTHER — MAIDEN NAME			
15.						16.		
INFORMANT — NAME				MAILING ADDRESS (STREET OR R.F.D. NO., CITY OR TOWN, STATE, ZIP)				
17a.				17b.				
PART I. DEATH WAS CAUSED BY:		[ENTER ONLY ONE CAUSE PER LINE FOR (a), (b), AND (c)]					APPROXIMATE INTERVAL BETWEEN ONSET AND DEATH	
18		IMMEDIATE CAUSE						
(a)		DUE TO, OR AS A CONSEQUENCE OF:						
CONDITIONS, IF ANY, WHICH GAVE RISE TO IMMEDIATE CAUSE (a), STATING THE UNDERLYING CAUSE LAST	(b)		DUE TO, OR AS A CONSEQUENCE OF:					
	(c)		DUE TO, OR AS A CONSEQUENCE OF:					
PART II. OTHER SIGNIFICANT CONDITIONS: CONDITIONS CONTRIBUTING TO DEATH AND NOT RELATED TO CAUSE GIVEN IN PART I (a)						AUTOPSY (YES OR NO)	IF YES WERE FINDINGS CONSIDERED IN DETERMINING CAUSE OF DEATH	
19a.						19b.	19c.	
ACCIDENT, SUICIDE, HOMICIDE, (SPECIFY)	DATE OF INJURY (MONTH, DAY, YEAR)	HOUR	HOW INJURY OCCURRED (ENTER NATURE OF INJURY IN PART I OR PART II, ITEM 18)					
20a.	20b.	20c.	20d.					
INJURY AT WORK (SPECIFY YES OR NO)	PLACE OF INJURY AT HOME, FARM, STREET, FACTORY, OFFICE BLDG., ETC. (SPECIFY)	LOCATION (STREET OR R.F.D. NO., CITY OR TOWN, STATE)						
20e.	20f.	20g.						
CERTIFICATION — PHYSICIAN:	MONTH DAY YEAR	MONTH DAY YEAR	AND LAST SAW HIM/HER ALIVE ON	MONTH DAY YEAR	I DID/DID NOT VIEW THE BODY AFTER DEATH.	DEATH OCCURRED AT THE PLACE, ON THE DATE, AND, TO THE BEST OF MY KNOWLEDGE, DUE TO THE CAUSE(S) STATED.		
21a.	21b.	21c.	21d.	21e.	21f.	21g.		
CERTIFICATION — MEDICAL EXAMINER OR CORONER: ON THE BASIS OF THE EXAMINATION OF THE BODY AND/OR THE INVESTIGATION, IN MY OPINION, DEATH OCCURRED ON THE DATE AND DUE TO THE CAUSE(S) STATED.			HOUR OF DEATH	THE DECEDENT WAS PRONOUNCED DEAD				
22a.			M.	22b.	22c.	22d.		
CERTIFIER — NAME (TYPE OR PRINT)			SIGNATURE		DEGREE OR TITLE	DATE SIGNED (MONTH, DAY, YEAR)		
23a.			23b.		23c.			
MAILING ADDRESS — CERTIFIER			STREET OR R.F.D. NO.		CITY OR TOWN	STATE ZIP		
23d.								
BURIAL, CREMATION, REMOVAL (SPECIFY)	CEMETERY OR CREMATORY — NAME			LOCATION CITY, VILLAGE, TWP. OR COUNTY STATE				
24a.	24b.			24c.				
DATE (MONTH, DAY, YEAR)	FUNERAL HOME — NAME AND ADDRESS (STREET OR R.F.D. NO., CITY OR TOWN, STATE, ZIP)							
24d.	25a.			24e.				
FUNERAL DIRECTOR — SIGNATURE			REGISTRAR — SIGNATURE		DATE RECEIVED BY LOCAL REGISTRAR			
25b.			26a.		26b.			

SAMPLE COPY

USUAL RESIDENCE WHERE DECEASED LIVED. IF DEATH OCCURRED IN INSTITUTION, GIVE RESIDENCE BEFORE ADMISSION.

DETACH INSTRUCTIONS BEFORE FILING CERTIFICATE WITH REGISTRAR

TYPE OR PRINT (EXCEPT SIGNATURES) IN BLACK INK—THIS IS A PERMANENT RECORD

Michigan Public Act 343 of 1925, as amended, requires that the attending physician, or in the absence of an attending physician, a coroner shall fill out and sign the medical certificate of death within 24 hours after death.

The funeral director is responsible for completing all other portions of the certificate and obtaining a burial or removal permit prior to disposing of the body or removing from the registration district where the death occurred.

Many important legal, personal, public health and social welfare interests require complete and accurate registration of all deaths. Individuals need certification of the facts of death for insurance claims, liquidation of estates, to prove name of spouse and parents and other general legal use. Social and health agencies need information on the causes of death for purposes of planning health programs; they need information on the number of births and deaths in making population estimates; and they need birth and death statistics to measure the fertility and mortality of various racial, economic or social groups.



Marriage License

State File No. _____
 Local File No. _____
COUNTY, MICHIGAN

To any person legally authorized to solemnize marriage in the State of Michigan,
 offering:
 Marriage must be solemnized within 30 days of date of issue in the State of Michigan
 between _____ and _____

Full name of male _____ Date of birth _____ Age at last birthday _____
 Residence No. _____ Street _____
 City _____ State _____ Zip Code _____
 Birthplace—city and state _____
 Occupation _____
 Number of times previously married _____
 Father's full name _____
 Mother's maiden name _____
 Maiden name (if a widow) _____ and whose
 parent's or guardian's consent, in case she has not attained the age of eighteen years, has been filed in my office. An affidavit has been filed in this office, as provided by Public Act No. 128, Laws of 1887, as amended, by which it appears that said statements are true.

SAMPLE COPY

In witness whereof, I have signed and sealed these presents,
 this _____ day of _____ A. D. 19____

 Deputy County Clerk

L.S.

This marriage license VOID 30 days after date of issue.

* Certificate of Marriage

Between Mr. _____ and M. _____
 I hereby certify that, in accordance with the above license, the persons herein mentioned were joined in marriage by me, at _____ county of _____ MICHIGAN, on the _____ day of _____ A. D. 19____ in the presence of _____ and _____
 Full name _____ of _____ Residence—city and state _____
 Full name _____ of _____ Residence—city and state _____
 as witnesses.
 Signature of magistrate or clergyman _____ Official title _____
 Post office address _____

THIS ORIGINAL must be returned, WITHIN TEN DAYS AFTER THE MARRIAGE, to the COUNTY CLERK, who issued the same, under severe penalty. This must be complied with to insure a PROPER LEGAL RECORD of the marriage.

This space reserved for blinding.
 Except for signatures, spaces left blank must be completed by typewriter or printed lightly. Act 96, P.A. 1935

B138

ORIGINAL*

No. _____ 19____

LICENSE AND CERTIFICATE OF MARRIAGE

and

CLERK'S OFFICE
 County of _____

Received for record the _____ day of _____
 _____ A. D. 19____ and recorded
 in liber _____ of marriages, on page _____

_____ Clerk

*THIS ORIGINAL must be returned WITHIN TEN DAYS AFTER THE MARRIAGE, to the County Clerk who issued the same, under severe penalty. This provision must be complied with to insure a PROPER LEGAL RECORD of the marriage.
 THE DUPLICATE must be delivered to one of the parties joined in marriage.

**RECORD OF
DIVORCE OR ANNULMENT**
MICHIGAN DEPARTMENT OF PUBLIC HEALTH
VITAL RECORDS SECTION

STATE FILE NO.
DOCKET NO.

COUNTY

HUSBAND—NAME				FIRST	MIDDLE	LAST		
HUSBAND	1 RESIDENCE—STATE		COUNTY		CITY, VILLAGE, OR TOWNSHIP		INSIDE CITY LIMITS (SPECIFY YES OR NO)	
	2a STREET AND NUMBER		2b	2c STATE OF BIRTH (IF NOT IN U.S.A., NAME COUNTRY)		2d DATE OF BIRTH (MONTH, DAY, YEAR)		
	2e		3		4			
WIFE—NAME				FIRST	MIDDLE	LAST	MAIDEN NAME	
WIFE	5a RESIDENCE—STATE		COUNTY		CITY, VILLAGE, OR TOWNSHIP		INSIDE CITY LIMITS (SPECIFY YES OR NO)	
	6a STREET AND NUMBER		6b	6c STATE OF BIRTH (IF NOT IN U.S.A., NAME COUNTRY)		6d DATE OF BIRTH (MONTH, DAY, YEAR)		
	6e		7		8			
9a PLACE OF THIS MARRIAGE—STATE		COUNTY		DATE OF THIS MARRIAGE (MONTH, DAY, YEAR)		APPROXIMATE DATE COUPLE SEPARATED (MONTH, YEAR)		
9b		9c		10				
11a LIVING CHILDREN—TOTAL NUMBER		11b UNDER 18 YEARS OF AGE		12 PLAINTIFF HUSBAND, WIFE, OTHER (SPECIFY)				
13a ATTORNEY FOR PLAINTIFF—NAME		13b ADDRESS (STREET OR R.F.D. NO., CITY OR TOWN, STATE, ZIP)						
DECREE	14a I CERTIFY THAT THE MARRIAGE OF THE ABOVE NAMED PERSONS WAS DISSOLVED ON: MONTH DAY YEAR			14b TYPE OF DECREE—ABSOLUTE DIVORCE OR ANNULMENT (SPECIFY)			14c DECREE GRANTED TO HUSBAND, WIFE, OTHER (SPECIFY)	
	14d LEGAL GROUNDS FOR DECREE (SPECIFY)			14e COUNTY OF DECREE			14f DATE OF RECORDING (MONTH, DAY, YEAR)	
	14g COURT OFFICIAL—SIGNATURE			14h TITLE OF COURT OFFICIAL			14i COURT—NAME	
	14j			14k			14l	

CONFIDENTIAL INFORMATION

HUSBAND	15. NUMBER OF THIS MARRIAGE FIRST, SECOND, ETC. (SPECIFY)	16. IF PREVIOUSLY MARRIED HOW MANY ENDED BY DEATH DIVORCE OR ANNULMENT (SPECIFY IF NONE)		17. EDUCATION—SPECIFY HIGHEST GRADE COMPLETED ELEMENTARY HIGH SCHOOL COLLEGE (0, 1, 2, 3, 4, . . . OR 8) (1, 2, 3, OR 4) (1, 2, 3, 4, OR 5 +)		
	18. NUMBER OF THIS MARRIAGE FIRST, SECOND, ETC. (SPECIFY)	19. IF PREVIOUSLY MARRIED HOW MANY ENDED BY DEATH DIVORCE OR ANNULMENT (SPECIFY IF NONE)		20. EDUCATION—SPECIFY HIGHEST GRADE COMPLETED ELEMENTARY HIGH SCHOOL COLLEGE (0, 1, 2, 3, 4, . . . OR 8) (1, 2, 3, OR 4) (1, 2, 3, 4, OR 5 +)		

B-42 1/69

Names and Ages of All Children in Family

Name	Age
Name	Age
Name	Age
Name	Age
Name	Age
Name	Age