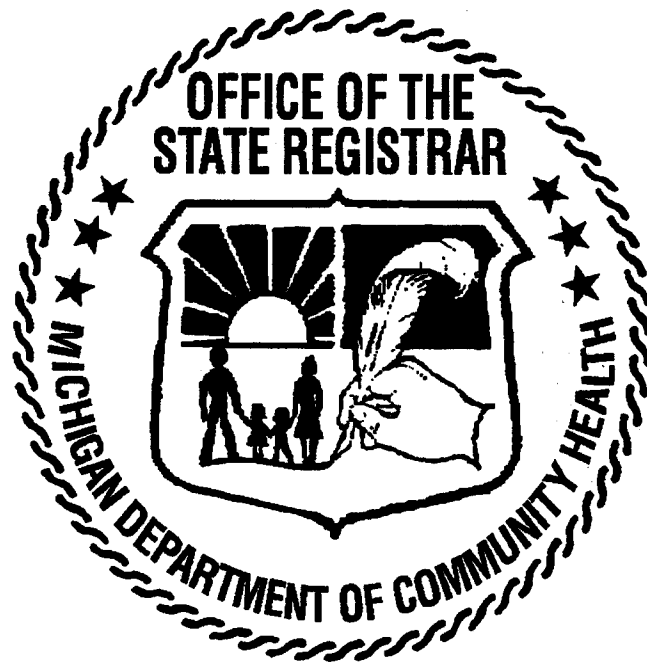




**Michigan Department of Community Health**

# **MICHIGAN HEALTH STATISTICS**



**1995**

**SYMBOLS USED IN TABLES**

<b>Data not available</b> . . . . .	<b>- - -</b>
<b>Category not applicable</b> . . . .	<b>000</b>
<b>Quantity zero</b> . . . . .	<b>-</b>
<b>Quantity more than zero but less than 0.05</b> . . . . .	<b>0.0</b>
<b>Figure does not meet standards of reliability or precision</b> . . . .	<b>*</b>
<b>Provisional</b> . . . . .	<b>Pr.</b>

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**MICHIGAN  
HEALTH STATISTICS**

**1995**

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Office of the State Registrar and Division of Health Statistics

Michigan Department of Community Health  
Lansing, Michigan      December 1996

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State of Michigan



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## INTRODUCTION

The 1995 edition of Michigan Health Statistics is a statistical summary of vital events for calendar year 1995. 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 1995, 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 with respect to where the event occurred rather than the residence of the party or parties involved.

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 tabulations pertaining to Michigan residents. This report includes all such out-of-state certificates received prior to April 30, 1996, and all in-state certificates and records received prior to March 15, 1996. Although a few additional records for the calendar year 1995 were received after these filing dates, their exclusion from this report is statistically insignificant.

This report is composed of county and state vital event profiles as well as the following sections and appendices:

1. County and State Health Statistics Profiles
2. Natality Section
3. Mortality Section
4. Marriage and Divorce Section
5. Reference Appendix

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. The Office will make every attempt to comply with requests for data within the limitations of staff and resources.

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## TECHNICAL NOTES, DEFINITIONS, RATES AND RATIOS

### DEFINITIONS

**ANCESTRY** - National origin for mother, father or decedent is as stated on certificate. First collected in 1989. If more than one ancestry is reported, the first listed is used. If "American" is given with any other ancestry, the other ancestry is used.

**BIRTHWEIGHT** - Weight of fetus or infant at time of delivery.

**EXTREMELY LOW BIRTHWEIGHT** - Births in 1984 or later wherein the birthweight is less than 750 grams (approximately 1 lbs., 10.5 oz.) or births before 1984 wherein the birthweight is 750 grams or less.

**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 or weighing at least 400 grams; the fetus shows no signs of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles. (Note: This does not include induced terminations.)

**FIRST BIRTH** - A live birth where the maternal medical history indicates there were no prior live births to the mother.

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

**HEBDOMADAL DEATH** - Deaths occurring to individuals less than 7 days of age.

**INFANT DEATH** - Deaths occurring to individuals less than 1 year of age.

**INTERPREGNANCY TIME PERIOD** - Birth date minus date of last termination, whether a live birth or fetal death, in months. Time periods of zero length are dropped to exclude 2nd or higher births of multiple deliveries.

**KESSNER INDEX** -

**Adequate prenatal care** is defined as care which began within the first trimester and which included

an average of at least one or two additional prenatal visits per month of gestation, depending on the length of gestation.

**Intermediate prenatal care** is defined as care which began during the second trimester of the pregnancy with correspondingly fewer visits, or which began during the first trimester but with fewer visits than would be appropriate for the length of gestation.

**Inadequate prenatal care** is when no care was received or if care began during the third trimester. It is also inadequate if care began during the first or second trimester but less than five visits occurred, when the length of gestation was 34 weeks or more. When the length of gestation was less than 34 weeks, care is defined as inadequate when care began during the first or second trimester but a number of visits less than four occurred, that number depending on the actual weeks of gestation.

**LEADING CAUSES OF DEATH** - Deaths are grouped into 72 categories dependent upon the underlying cause of death. Ranks are assigned by organizing these categories according to the number of deaths in each category from most frequent to least.

**LIFE EXPECTANCY** - A hypothetical calculation of the average age at death for a cohort of persons subject to the age-specific mortality rates observed over a given time period.

**LIFE TABLE VALUES** -

$nq_x$  = The proportion of persons in the cohort alive at the beginning of an age interval ( $x$ ) who will die before reaching the end of that age interval ( $x+n$ ).

$l_x$  = The number of persons living at the beginning of an age interval ( $x$ ) out of an original cohort of 100,000.

$ndx$  = The number of persons who would die during an age interval ( $x$  to  $x+n$ ) out of an original cohort of 100,000.

$nL_x$  = The number of person-years that would be lived within an indicated age interval ( $x$  to  $x+n$ ) out of an original cohort of 100,000 alive for all or part of the interval.

$T_x$  = The number of person-years that would be lived after the beginning of an age interval ( $x$ ) by an

original cohort of 100,000 until all are assumed to have died.

*ex* = The average remaining lifetime (in years) for an individual person who survives to the beginning of an indicated age interval (*x*).

**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. Effective on November 9, 1981, the definition of a live birth is established in administrative rule number 325.3201 as follows:

*"Live birth"* means the complete expulsion or extraction from a pregnant woman of a product of human conception which, after such expulsion or extraction, shows any evidence of life, whether or not the umbilical cord has been cut or the placenta is attached.

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

**LOW BIRTHWEIGHT** - Births in 1984 or later wherein the birthweight is less than 2,500 grams (approximately 5 lbs., 8 oz.) or births before 1984 wherein the birthweight is 2,500 grams or less.

**MATERNAL DEATHS** - Those deaths wherein the physician has designated a maternal condition as the underlying cause of death (9th Revision ICD codes 630-676)

**MEAN** - The average of a set of values, equal to the sum of the values divided by the number of values.

**MEDIAN** - The central value of a distribution of values wherein the same percentage of observations are above this point as are below.

**MINOR CIVIL DIVISION** - City, village, or township.

**NEONATAL DEATH** - Deaths occurring to individuals less than 28 days of age.

**OCCURRENCE** - Place where the event actually occurred.

**PERINATAL DEATH** - Fetal deaths plus deaths to individuals less than 7 days of age.

**POSTNEONATAL DEATH** - Deaths occurring to individuals 28-364 days of age.

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

**REMAINING YEARS OF LIFE** - A hypothetical calculation of the average number of years a cohort of persons will live given that they have reached a specific age and assuming they are subject to the age-specific mortality rates observed over a given time period.

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

**TOTAL BIRTHS** - Live births plus fetal deaths.

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

**VERY LOW BIRTHWEIGHT** - Births in 1984 or later wherein the birthweight is less than 1,500 grams (approximately 3 lbs., 4 oz.) or births before 1984 wherein the birthweight is 1,500 grams or less.

**YEARS OF POTENTIAL LIFE LOST** - The number of years between the age at death and 65 years of age for individuals dying before age 65.

## ***RATES AND RATIOS***

**AGE-ADJUSTED DEATH RATE** - A summary rate of death that is developed using a standard population distribution to improve the comparability of rates for areas or population subgroups with differing age distributions. When calculated by the direct method, as in this report, age-specific death rates for a geographic area or population subgroup are multiplied by the standard population by specific age and the products summed and divided by the total standard population. Age-adjusted death rates represent the mortality experience that would have occurred in a standard population had the age-specific rates of the area or population subgroup been experienced by the standard population. These rates are presented as per 100,000 population.

**AGE-SPECIFIC BIRTH RATE** - Number of resident live births to women of a specific age divided by total resident female population of specific age x 1,000.

**AGE-SPECIFIC DEATH RATE** - Number of resident deaths in specific age group divided by total resident population in specific age group x 100,000.

**AGE-SPECIFIC DEATH RATE BY CAUSE OF DEATH** - Number of resident deaths in specific age group and from a specific cause divided by total resident population in specific age group x 100,000.

**AGE-SPECIFIC MARRIAGE RATE** - Number of occurrent marriages in specific age group by sex divided by total resident population in specific age and sex group x 1,000.

**CAUSE-SPECIFIC RATE** - Number of resident deaths due to a specific cause divided by total resident population x 100,000.

**CONGENITAL ANOMALY RATE** - Number of resident live births with a congenital malformation reported divided by the total number of resident live births x 10,000.

**COMMUNICABLE DISEASE CASE RATE** - Number of reported cases (specific communicable diseases) divided by total resident population x 100,000.

**CRUDE BIRTH RATE** - Number of resident live births divided by total resident population x 1,000.

**CRUDE DEATH RATE** - Number of resident deaths divided by total resident population x 1,000.

**DIVORCE RATE** - Number of persons with occurrent divorces and annulments divided by total resident population x 1,000.

**FERTILITY RATE** - Number of resident live births divided by total resident female population ages 15-44 x 1,000.

**FETAL DEATH RATE** - Number of resident fetal deaths divided by total resident live births plus resident fetal deaths x 1,000.

**FETAL DEATH RATIO** - Number of resident fetal deaths divided by total resident live births x 1,000.

**FIRST MARRIAGE RATE** - Number of occurrent marriages to persons not previously married by sex divided by total resident population by sex x 1,000.

**INFANT MORTALITY RATE** - Number of resident infant deaths divided by total resident live births x 1,000.

**LOW BIRTHWEIGHT RATIO** - Number of resident low birthweight live births divided by total resident live births x 1,000.

**MARRIAGE RATE** - Number of persons with occurrent marriages divided by total resident population x 1,000.

**MATERNAL DEATH RATE** - Number of resident maternal deaths divided by total resident live births x 100,000.

**NEONATAL DEATH RATE** - Number of resident neonatal deaths divided by total resident live births x 1,000.

**NO PRENATAL CARE RATIO** - Number of resident live births to mothers with no prenatal care divided by total resident live births x 1,000.

### ***RELIABILITY OF RATES***

**PERINATAL DEATH RATE** - Number of perinatal deaths divided by total resident live births plus resident fetal deaths x 1,000.

**POSTNEONATAL DEATH RATE** - Number of resident postneonatal deaths divided by total resident live births x 1,000.

**RATE OF NATURAL INCREASE** - (Total resident live births minus total resident deaths) divided by total resident population x 1,000.

**TOTAL FERTILITY RATE** - Sum of (age-specific birth rates) x (number of years in age group) for each age group from ages 10-14 through 45-49 years.

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 atherosclerosis 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 confounding factors. For this reason the reader should exercise diligence and caution while attempting to draw substantive conclusions when comparing vital statistics rates.

For further information regarding this report, contact Kathy Humphrys, Michigan Department of Community Health: Phone (517)335-8714, E-mail [Humphrysk@state.mi.us](mailto:Humphrysk@state.mi.us), or fax (517)335-8711. To order additional copies of this report, phone (517)335-8705.

## 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 or that weigh 400 grams or more. Prior to the introduction of a new reporting form for fetal deaths on September 30, 1978, Michigan law required only the reporting of deaths of fetuses which had passed through 20 weeks gestation. Inadequacies in determining the gestational age of the fetus may have resulted in some underreporting of fetal deaths. The change in definition has had little impact on the number of fetal deaths reported.

### *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.

In 1979 the 9th Revision of the International Classification of Diseases, WHO, was introduced for coding causes of death and was employed in categorizing the data for 1979 to date. Certain ICD-9 codes are grouped in order to classify selected causes of death. The codes for selected causes used in this report are:

<u>ICD codes</u>	<u>Selected Causes</u>
42-44	AIDS
36	Meningococcal Infections
140-208	Cancer
250	Diabetes Mellitus
260-269	Nutritional Deficiencies
390-398,	Heart Disease
402,	
404-429	
430-438	Cerebrovascular Diseases
480-487	Pneumonia and Influenza
490-496	Chronic Obstructive Pulmonary Diseases
571	Chronic Liver Disease and Cirrhosis
740-759	Congenital Anomalies
760-779	Certain Conditions Originating in the Perinatal Period
798.0	Sudden Infant Death Syndrome
E800-E949	Accidents and Adverse Effects
E950-E959	Suicide
E960-E978	Homicide

### *LIFE EXPECTANCY*

The procedure used to obtain the Michigan life table values is called the iterative method. This is a method which has been developed by Felix Moore, formerly of



the Department of Biostatistics, School of Public  
Health, University of Michigan.

For the age group 0-1 the method utilizes the algorithm developed by Greville with no iteration. For all subsequent age groups the method of Greville (Keyfitz) is used with three iterations to improve the estimate of  $ndx$  and  $nqx$ . An iteration procedure is also used for  $nLx$  for age groups 75-80 and 80-85 where the accuracy of mortality information is a factor and for obtaining the separation factor for the age group 1-4.

### **AGE-ADJUSTMENT PROCEDURE AND POPULATION ESTIMATION**

Population data for 1970 were obtained from the April 1, 1970 census counts. The population totals used for 1971-1979 are intercensal estimates prepared by the Census Bureau utilizing the revised 1980 census figures. The breakdowns of these totals by age, race, and sex were prepared by the Office of the State Registrar and Division of Health Statistics. For 1970 and 1980 the proportion of the total population in each age, race, and sex group was computed. Estimates of the proportion of the total population in each age, race, and sex group for the years 1971-1979 were then derived by interpolating between the proportions for 1970 and 1980. These subgroup proportions were then applied to the state totals to obtain population estimates by age, race, and sex for years 1971-1979.

Population estimates for 1980 through 1994 by age, race and sex were developed by the Office of the State Demographer, Michigan Department of Management and Budget, using a mathematical model which reflects current Census Bureau statewide estimates by single year of age and its county estimates of total population. They also reflect deviations observed from 1980 to 1990 in the growth of each county/age/race/sex category relative to the growth of county total population and statewide population by age.

The age-adjusted rates for Michigan presented in this report for years 1970-1995 were calculated using Michigan resident mortality data and the series of population data described above. Death records with

the race not stated were first randomly allocated to the white and other than white groups based on the proportion of Michigan resident deaths in each of the racial categories for that year. Records with sex not stated were randomly assigned to male and female (50 percent each). Records with age not stated were allocated to the age group 85 and over.

In the age-adjustment procedure ten age groups were employed including under 1 year, 1-14 years, ten year age groups from 15-24 years to age 75-84, and 85 years and over. Age-specific rates for the total population and for each subgroup were applied to the same standard population distributed by age. The resulting expected deaths were then summed over the ten age groups and divided by the total of the standard population to obtain the age-adjusted rate. The standard population selected was the 1940 United States enumerated population. Comparisons can be made between subgroup rates, between rates in different years, and between rates for Michigan and similarly computed rates for the United States.

### **UNITED STATES DEATH RATES**

Death rates for the United States were taken from publications by the National Center for Health Statistics, U.S. Dept. of Health and Human Services. Rates for the United States shown in the series of tables of death rates for Michigan and the United States have been revised for 1971-1980 based on the 1980 census enumeration, as a result of the large difference between the 1980 census enumeration and the previously estimated population for 1980. The 1980 census enumeration was about 5.5 million higher than the estimated population for April 1, 1980.

The estimated populations used for 1994 and 1995 provisional data are based on the 1990 census enumeration and therefore are comparable to those used for the 1992 and 1993 final data. Rates for 1981-1989 have been recomputed based on populations for those years that are consistent with the 1990 census levels.

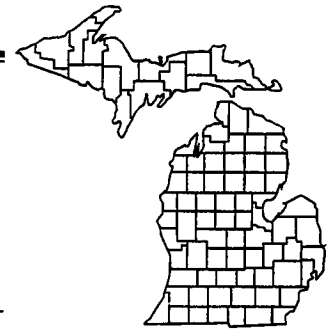
## COUNTY AND STATE HEALTH STATISTICS PROFILES

Profiles of county and state vital events statistics are presented in a one page summary form for each county and the state as a whole. The profiles contain those data most often requested of the Division of Health Statistics by health data users.

For further county or state information, please direct your inquiries to the address or phone number printed in the Introduction.



Profile of Michigan



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	9,496,073	Total Live Births:	134,169	Total Deaths:	83,405
Rank Among Counties:	-	Mothers Age <18:	6,530	Infant Deaths:	1,110
Per Square Mile:	166.7	Low Weight Births:	10,356	Neonatal Deaths:	725
		First Births:	53,876	Postneonatal Deaths:	385
				Perinatal Deaths:	1,363
				Fetal Deaths:	767
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	71,042	Divorces:	39,449		
Marriage Rate:	15.0	Divorce Rate:	8.3		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	134,169	14.1	105,274	13.3	24,914	18.3	3,124	16.2
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	6,530	48.7	3,624	27.0	2,781	20.7	102	0.8
Low Weight	10,356	77.2	6,589	62.6	3,496	140.3	211	67.5
Under 1,500 Grams	1,981	14.8	1,152	10.9	784	31.5	31	9.9
< 38 Weeks Gestation	23,401	174.4	16,488	156.6	6,225	249.9	549	175.7
Prenatal Care Began in 1st Trimester	109,067	812.9	89,820	853.2	16,120	647.0	2,451	784.6

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	1,110	8.3	655	6.2	432	17.3	19	6.1
Neonatal Deaths	725	5.4	426	4.0	287	11.5	10	3.2
Postneonatal Deaths	385	2.9	229	2.2	145	5.8	9	2.9
Perinatal Deaths	1,363	10.1	876	8.3	445	17.7	21	6.7
Fetal Deaths	767	5.7	533	5.0	202	8.0	13	4.1

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races						
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female				
Deaths	83,405	41,878	41,523	70,091	34,637	35,453	12,618	6,885	5,731	664	342	322				
				Age in Years												
				<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1,110	232	158	138	554	691	740	2,593	4,366	6,339	12,794	53,681	9			
White Male	368	84	67	48	239	290	341	1,153	1,914	2,960	6,140	21,030	3			
White Female	286	59	49	47	120	118	125	581	1,014	1,919	4,327	26,806	2			
Black Male	226	47	24	31	147	211	179	556	874	810	1,251	2,525	4			
Black Female	204	33	16	9	38	50	80	277	495	546	936	3,047	-			
Other Male	5	3	1	2	5	15	9	18	33	52	70	129	-			
Other Female	14	6	1	1	5	7	6	7	36	48	62	129	-			

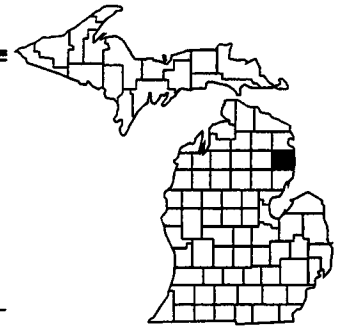
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	83,405	878.3	70,091	882.8	12,618	925.5	1,082	40.8
Diseases of the Heart	28,007	294.9	24,002	302.3	3,825	280.6	27	1.0
Cancer	19,442	204.7	16,685	210.1	2,583	189.5	73	2.8
Cerebrovascular Diseases	5,857	61.7	4,988	62.8	833	61.1	7	0.3
Accidents and Adverse Effects	3,137	33.0	2,604	32.8	472	34.6	437	16.5
Chronic Obstructive Pulmonary Diseases and Allied Conditions	3,589	37.8	3,270	41.2	286	21.0	19	0.7
Pneumonia and Influenza	3,002	31.6	2,597	32.7	387	28.4	17	0.6
Diabetes Mellitus	2,247	23.7	1,816	22.9	401	29.4	1	*
Chronic Liver Disease and Cirrhosis	1,002	10.6	772	9.7	215	15.8	-	-
Homicide	943	9.9	278	3.5	651	47.8	184	6.9
Suicide	969	10.2	844	10.6	111	8.1	77	2.9
Atherosclerosis	754	7.9	707	8.9	44	3.2	-	-
AIDS	795	8.4	350	4.4	443	32.5	7	0.3

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Alcona County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	10,380	Total Live Births:	93	Total Deaths:	166
Rank Among Counties:	74	Mothers Age <18:	1	Infant Deaths:	-
Per Square Mile:	15.3	Low Weight Births:	4	Neonatal Deaths:	-
		First Births:	39	Postneonatal Deaths:	-
				Perinatal Deaths:	2
				Fetal Deaths:	2
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	73	Divorces:	42		
Marriage Rate:	14.1	Divorce Rate:	8.1		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	93	9.0	90	8.8	1	*	2	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	1	*	1	*	-	-	-	-
Low Weight	4	*	4	*	-	-	-	-
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	19	204.3	19	211.1	-	-	-	-
Prenatal Care Began in 1st Trimester	78	838.7	76	844.4	1	*	1	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	-	-	-	-	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	2	*	2	*	-	-	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	166	99	67	165	98	67	-	-	-	1	1	-	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	-	1	-	-	-	-	1	2	1	18	22	121	-
White Male	-	-	-	-	-	-	1	2	1	12	15	67	-
White Female	-	-	-	-	-	-	-	-	-	6	7	54	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	1	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

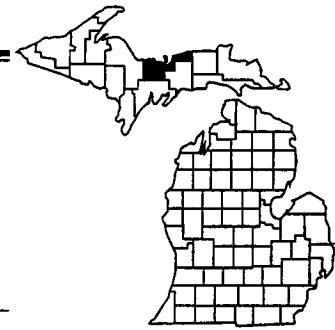
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	166	1,599.2	165	1,612.1	-	-	1	*
Diseases of the Heart	61	587.7	61	596.0	-	-	-	-
Cancer	48	462.4	48	469.0	-	-	-	-
Cerebrovascular Diseases	8	77.1	8	78.2	-	-	-	-
Accidents and Adverse Effects	4	*	4	*	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	7	67.4	7	68.4	-	-	-	-
Pneumonia and Influenza	5	*	5	*	-	-	-	-
Diabetes Mellitus	5	*	5	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	2	*	2	*	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Alger County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	9,818	Total Live Births:	87	Total Deaths:	101
Rank Among Counties:	75	Mothers Age <18:	-	Infant Deaths:	1
Per Square Mile:	10.8	Low Weight Births:	3	Neonatal Deaths:	-
		First Births:	35	Postneonatal Deaths:	1
				Perinatal Deaths:	-
				Fetal Deaths:	-
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	74	Divorces:	29		
Marriage Rate:	15.1	Divorce Rate:	5.9		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	87	8.9	82	9.0	-	-	5	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	-	-	-	-	-	-	-	-
Low Weight	3	*	2	*	-	-	1	*
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	8	92.0	7	85.4	-	-	1	*
Prenatal Care Began in 1st Trimester	77	885.1	72	878.0	-	-	5	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	1	*	1	*	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	-	-	-	-	-	-	-	-
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	101	55	46	101	55	46	-	-	-	-	-	-	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	-	-	-	-	-	2	2	2	5	14	75	-
White Male	-	-	-	-	-	-	2	2	2	4	10	35	-
White Female	1	-	-	-	-	-	-	-	-	1	4	40	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

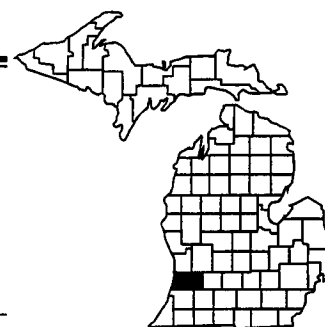
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	101	1,028.7	101	1,109.8	-	-	-	-
Diseases of the Heart	36	366.7	36	395.6	-	-	-	-
Cancer	28	285.2	28	307.7	-	-	-	-
Cerebrovascular Diseases	5	*	5	*	-	-	-	-
Accidents and Adverse Effects	4	*	4	*	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	1	*	1	*	-	-	-	-
Pneumonia and Influenza	1	*	1	*	-	-	-	-
Diabetes Mellitus	2	*	2	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	1	*	1	*	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Profile of Allegan County**



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	96,088	Total Live Births:	1,317	Total Deaths:	769
Rank Among Counties:	20	Mothers Age <18:	61	Infant Deaths:	11
Per Square Mile:	115.5	Low Weight Births:	69	Neonatal Deaths:	10
		First Births:	501	Postneonatal Deaths:	1
				Perinatal Deaths:	17
				Fetal Deaths:	9
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	796	Divorces:	434		
Marriage Rate:	16.6	Divorce Rate:	9.0		

**NATALITY BY RACE OF MOTHER**

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,317	13.7	1,287	13.8	17	11.4	13	10.9
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	61	46.3	58	44.0	2	*	1	*
Low Weight	69	52.4	66	51.3	3	*	-	-
Under 1,500 Grams	16	12.1	15	11.7	1	*	-	-
< 38 Weeks Gestation	225	170.8	220	170.9	3	*	2	*
Prenatal Care Began in 1st Trimester	1,082	821.6	1,063	826.0	9	529.4	10	769.2

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

**INFANT AND PERINATAL MORTALITY BY RACE**

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	11	8.4	11	8.5	-	-	-	-
Neonatal Deaths	10	7.6	10	7.8	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	17	12.8	17	13.1	-	-	-	-
Fetal Deaths	9	6.8	9	6.9	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

**MORTALITY**

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	769	363	406	744	349	395	16	10	6	8	4	4	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	11	2	1	3	3	6	5	30	35	48	92	533	-
White Male	7	1	1	2	1	3	5	19	21	33	41	215	-
White Female	4	1	-	1	2	3	-	9	13	15	43	304	-
Black Male	-	-	-	-	-	-	-	-	-	-	3	7	-
Black Female	-	-	-	-	-	-	-	1	-	-	-	5	-
Other Male	-	-	-	-	-	-	-	-	1	-	3	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	2	2	-

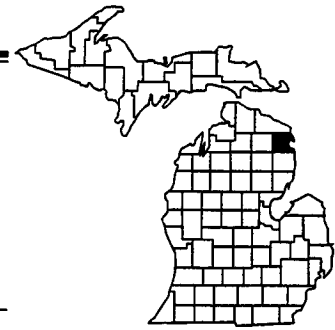
**LEADING CAUSES OF DEATH**

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	769	800.3	744	796.6	16	1,069.5	9	30.2
Diseases of the Heart	234	243.5	222	237.7	6	401.1	-	-
Cancer	175	182.1	169	180.9	5	*	1	*
Cerebrovascular Diseases	60	62.4	59	63.2	1	*	-	-
Accidents and Adverse Effects	44	45.8	43	46.0	1	*	8	26.9
Chronic Obstructive Pulmonary Diseases and Allied Conditions	26	27.1	26	27.8	-	-	-	-
Pneumonia and Influenza	42	43.7	42	45.0	-	-	-	-
Diabetes Mellitus	17	17.7	15	16.1	2	*	-	-
Chronic Liver Disease and Cirrhosis	10	10.4	10	10.7	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	11	11.4	11	11.8	-	-	-	-
Atherosclerosis	4	*	4	*	-	-	-	-
AIDS	6	6.2	6	6.4	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Alpena County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	30,806	Total Live Births:	337	Total Deaths:	330
Rank Among Counties:	46	Mothers Age <18:	18	Infant Deaths:	1
Per Square Mile:	54.3	Low Weight Births:	28	Neonatal Deaths:	1
		First Births:	147	Postneonatal Deaths:	-
				Perinatal Deaths:	5
				Fetal Deaths:	4
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	279	Divorces:	123		
Marriage Rate:	18.1	Divorce Rate:	8.0		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	337	10.9	332	10.9	1	*	3	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	18	53.4	18	53.4	-	-	-	-
Low Weight	28	83.1	28	84.3	-	-	-	-
Under 1,500 Grams	2	*	2	*	-	-	-	-
< 38 Weeks Gestation	58	172.1	57	171.7	-	-	1	*
Prenatal Care Began in 1st Trimester	305	905.0	301	906.6	1	*	2	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	1	*	1	*	-	-	-	-
Neonatal Deaths	1	*	1	*	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	5	*	5	*	-	-	-	-
Fetal Deaths	4	*	4	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	330	161	169	329	160	169	1	1	-	-	-	-	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	-	1	-	1	1	1	3	12	26	54	230	-
White Male	1	-	-	-	-	1	-	3	10	17	31	97	-
White Female	-	-	1	-	1	-	1	-	2	9	23	132	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

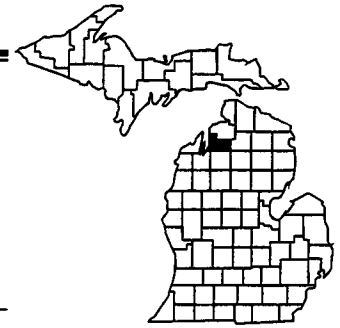
	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	330	1,071.2	329	1,077.0	1	*	2	*
Diseases of the Heart	105	340.8	105	343.7	-	-	-	-
Cancer	84	272.7	83	271.7	1	*	-	-
Cerebrovascular Diseases	23	74.7	23	75.3	-	-	-	-
Accidents and Adverse Effects	14	45.4	14	45.8	-	-	2	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	13	42.2	13	42.6	-	-	-	-
Pneumonia and Influenza	18	58.4	18	58.9	-	-	-	-
Diabetes Mellitus	7	22.7	7	22.9	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	2	*	2	*	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



Profile of Antrim County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	19,526	Total Live Births:	241	Total Deaths:	211
Rank Among Counties:	63	Mothers Age <18:	9	Infant Deaths:	1
Per Square Mile:	40.7	Low Weight Births:	9	Neonatal Deaths:	-
		First Births:	95	Postneonatal Deaths:	1
				Perinatal Deaths:	2
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	165	Divorces:	82		
Marriage Rate:	16.9	Divorce Rate:	8.4		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	241	12.3	230	12.0	-	-	10	33.4
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	9	37.3	8	33.2	-	-	1	*
Low Weight	9	37.3	8	34.8	-	-	1	*
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	31	128.6	28	121.7	-	-	3	*
Prenatal Care Began in 1st Trimester	175	726.1	167	726.1	-	-	7	700.0

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	1	*	1	*	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	2	*	2	*	-	-	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	211	133	78	208	130	78	-	-	-	3	3	-	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	1	1	-	1	1	-	2	2	15	31	156	-
White Male	1	-	1	-	-	1	-	1	2	7	19	98	-
White Female	-	1	-	-	1	-	-	-	-	7	11	58	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	1	-	1	-	1	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

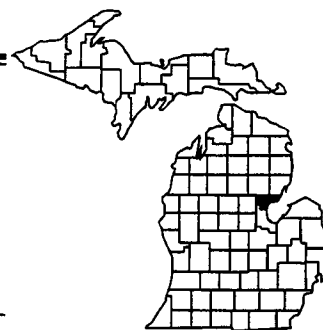
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	211	1,080.6	208	1,084.0	-	-	3	*
Diseases of the Heart	87	445.6	86	448.2	-	-	-	-
Cancer	56	286.8	56	291.8	-	-	-	-
Cerebrovascular Diseases	13	66.6	12	62.5	-	-	-	-
Accidents and Adverse Effects	12	61.5	11	57.3	-	-	2	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	6	30.7	6	31.3	-	-	-	-
Pneumonia and Influenza	6	30.7	6	31.3	-	-	-	-
Diabetes Mellitus	4	*	4	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	2	*	2	*	-	-	-	-
Suicide	-	-	-	-	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Arenac County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	15,952	Total Live Births:	190	Total Deaths:	180
Rank Among Counties:	66	Mothers Age <18:	12	Infant Deaths:	1
Per Square Mile:	43.4	Low Weight Births:	13	Neonatal Deaths:	-
		First Births:	72	Postneonatal Deaths:	1
				Perinatal Deaths:	1
				Fetal Deaths:	1
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	109	Divorces:	37		
Marriage Rate:	13.7	Divorce Rate:	4.6		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	190	11.9	188	12.0	-	-	2	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	12	63.2	11	57.9	-	-	1	*
Low Weight	13	68.4	13	69.1	-	-	-	-
Under 1,500 Grams	2	*	2	*	-	-	-	-
< 38 Weeks Gestation	29	152.6	28	148.9	-	-	1	*
Prenatal Care Began in 1st Trimester	165	868.4	163	867.0	-	-	2	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	1	*	1	*	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	1	*	1	*	-	-	-	-
Fetal Deaths	1	*	1	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Total	Black		All Other Races			
	Total	Male	Female	Total	Male	Female		Male	Female	Total	Male	Female	
Deaths	180	101	79	179	101	78	-	-	-	1	-	1	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	-	-	-	1	1	-	2	6	14	24	131	-
White Male	-	-	-	-	1	1	-	2	4	5	18	70	-
White Female	1	-	-	-	-	-	-	-	1	9	6	61	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	1	-	-	-	-	-

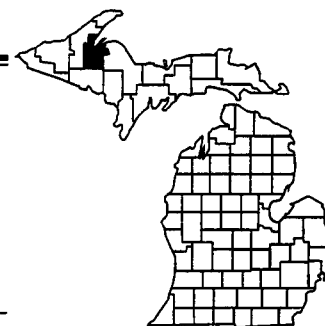
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	180	1,128.4	179	1,140.1	-	-	1	*
Diseases of the Heart	65	407.5	65	414.0	-	-	-	-
Cancer	42	263.3	42	267.5	-	-	-	-
Cerebrovascular Diseases	6	37.6	5	*	-	-	-	-
Accidents and Adverse Effects	3	*	3	*	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	10	62.7	10	63.7	-	-	-	-
Pneumonia and Influenza	9	56.4	9	57.3	-	-	-	-
Diabetes Mellitus	3	*	3	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	2	*	2	*	-	-	1	*
Suicide	1	*	1	*	-	-	-	-
Atherosclerosis	5	*	5	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Baraga County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	8,054	Total Live Births:	79	Total Deaths:	97
Rank Among Counties:	81	Mothers Age <18:	3	Infant Deaths:	-
Per Square Mile:	8.9	Low Weight Births:	4	Neonatal Deaths:	-
		First Births:	38	Postneonatal Deaths:	-
				Perinatal Deaths:	-
				Fetal Deaths:	-
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	58	Divorces:	24		
Marriage Rate:	14.4	Divorce Rate:	6.0		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	79	9.8	59	8.5	-	-	20	19.4
Mothers Age <18	3	*	-	-	-	-	3	*
Low Weight	4	*	2	*	-	-	2	*
Under 1,500 Grams	2	*	1	*	-	-	1	*
< 38 Weeks Gestation	8	101.3	5	*	-	-	3	*
Prenatal Care Began in 1st Trimester	65	822.8	52	881.4	-	-	13	650.0

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	-	-	-	-	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	-	-	-	-	-	-	-	-
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	97	56	41	89	51	38	-	-	-	8	5	3	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	-	-	-	1	1	-	-	1	4	7	7	76	-
White Male	-	-	-	-	1	-	-	-	3	5	4	38	-
White Female	-	-	-	-	-	-	-	-	1	1	3	33	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	1	-	-	-	1	-	1	-	2	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	3	-

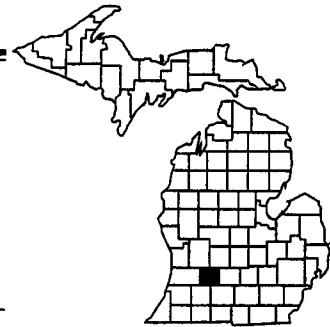
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	97	1,204.4	89	1,276.4	-	-	2	*
Diseases of the Heart	33	409.7	32	458.9	-	-	-	-
Cancer	24	298.0	22	315.5	-	-	-	-
Cerebrovascular Diseases	4	*	4	*	-	-	-	-
Accidents and Adverse Effects	2	*	-	-	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	2	*	2	*	-	-	-	-
Pneumonia and Influenza	6	74.5	6	86.0	-	-	-	-
Diabetes Mellitus	6	74.5	4	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	1	*	1	*	-	-	1	*
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Barry County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	52,234	Total Live Births:	695	Total Deaths:	416
Rank Among Counties:	34	Mothers Age <18:	29	Infant Deaths:	3
Per Square Mile:	93.3	Low Weight Births:	37	Neonatal Deaths:	2
		First Births:	280	Postneonatal Deaths:	1
				Perinatal Deaths:	8
				Fetal Deaths:	6
MARRIAGE		DIVORCE			
Marriages:	429	Divorces:	291		
Marriage Rate:	16.4	Divorce Rate:	11.1		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	695	13.3	691	13.4	-	-	4	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	29	41.7	29	41.7	-	-	-	-
Low Weight	37	53.2	37	53.5	-	-	-	-
Under 1,500 Grams	3	*	3	*	-	-	-	-
< 38 Weeks Gestation	112	161.2	111	160.6	-	-	1	*
Prenatal Care Began in 1st Trimester	589	847.5	585	846.6	-	-	4	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	3	*	3	*	-	-	-	-
Neonatal Deaths	2	*	2	*	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	8	11.4	8	11.5	-	-	-	-
Fetal Deaths	6	8.6	6	8.6	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	416	205	211	414	204	210	-	-	-	2	1	1	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	3	3	1	-	3	4	1	13	14	32	71	271	-
White Male	1	2	-	-	2	3	1	8	9	16	39	123	-
White Female	2	1	1	-	1	1	-	5	5	15	32	147	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	1	-	-	-	-

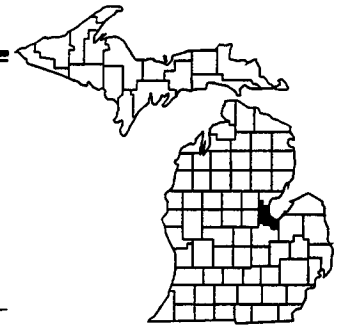
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	416	796.4	414	800.9	-	-	7	45.9
Diseases of the Heart	123	235.5	122	236.0	-	-	-	-
Cancer	93	178.0	92	178.0	-	-	-	-
Cerebrovascular Diseases	31	59.3	31	60.0	-	-	-	-
Accidents and Adverse Effects	18	34.5	18	34.8	-	-	4	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	39	74.7	39	75.4	-	-	-	-
Pneumonia and Influenza	18	34.5	18	34.8	-	-	-	-
Diabetes Mellitus	7	13.4	7	13.5	-	-	-	-
Chronic Liver Disease and Cirrhosis	4	*	4	*	-	-	-	-
Homicide	2	*	2	*	-	-	-	-
Suicide	10	19.1	10	19.3	-	-	3	*
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Bay County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	111,774	Total Live Births:	1,357	Total Deaths:	978
Rank Among Counties:	18	Mothers Age <18:	60	Infant Deaths:	7
Per Square Mile:	249.9	Low Weight Births:	83	Neonatal Deaths:	5
		First Births:	572	Postneonatal Deaths:	2
				Perinatal Deaths:	18
				Fetal Deaths:	13
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	912	Divorces:	437		
Marriage Rate:	16.3	Divorce Rate:	7.8		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,357	12.1	1,324	12.1	19	13.7	14	10.0
Mothers Age <18	60	44.2	57	42.0	2	*	1	*
Low Weight	83	61.2	81	61.2	1	*	1	*
Under 1,500 Grams	16	11.8	15	11.3	-	-	1	*
< 38 Weeks Gestation	211	155.5	207	156.3	2	*	2	*
Prenatal Care Began in 1st Trimester	1,216	896.1	1,189	898.0	15	789.5	12	857.1

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	7	5.2	7	5.3	-	-	-	-
Neonatal Deaths	5	*	5	*	-	-	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	18	13.1	18	13.5	-	-	-	-
Fetal Deaths	13	9.5	13	9.7	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

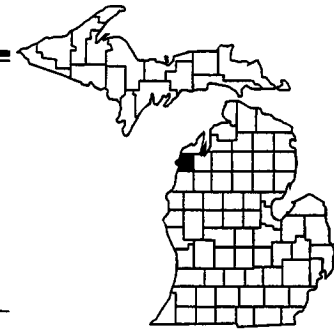
	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	978	535	443	967	528	439	7	3	4	2	2	-	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	7	5	4	4	3	4	7	25	43	68	127	681	-
White Male	5	3	4	-	2	3	6	16	29	43	86	331	-
White Female	2	2	-	4	1	1	1	8	12	23	39	346	-
Black Male	-	-	-	-	-	-	-	1	1	-	-	1	-
Black Female	-	-	-	-	-	-	-	-	1	1	1	1	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	978	875.0	967	887.2	7	506.1	16	53.0
Diseases of the Heart	376	336.4	373	342.2	2	*	2	*
Cancer	227	203.1	224	205.5	2	*	2	*
Cerebrovascular Diseases	41	36.7	41	37.6	-	-	-	-
Accidents and Adverse Effects	29	25.9	29	26.6	-	-	6	19.9
Chronic Obstructive Pulmonary Diseases and Allied Conditions	41	36.7	40	36.7	1	*	-	-
Pneumonia and Influenza	35	31.3	35	32.1	-	-	-	-
Diabetes Mellitus	43	38.5	42	38.5	-	-	-	-
Chronic Liver Disease and Cirrhosis	16	14.3	15	13.8	-	-	-	-
Homicide	3	*	3	*	-	-	1	*
Suicide	8	7.2	8	7.3	-	-	-	-
Atherosclerosis	31	27.7	31	28.4	-	-	-	-
AIDS	3	*	3	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Profile of Benzie County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	13,271	Total Live Births:	166	Total Deaths:	143
Rank Among Counties:	71	Mothers Age <18:	6	Infant Deaths:	-
Per Square Mile:	41.2	Low Weight Births:	6	Neonatal Deaths:	-
		First Births:	71	Postneonatal Deaths:	-
				Perinatal Deaths:	-
				Fetal Deaths:	-
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	100	Divorces:	67		
Marriage Rate:	15.1	Divorce Rate:	10.1		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	166	12.5	162	12.6	-	-	4	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	6	36.1	5	*	-	-	1	*
Low Weight	6	36.1	5	*	-	-	1	*
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	27	162.7	25	154.3	-	-	2	*
Prenatal Care Began in 1st Trimester	126	759.0	124	765.4	-	-	2	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	-	-	-	-	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	-	-	-	-	-	-	-	-
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	143	69	74	142	69	73	-	-	-	1	-	1	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	-	3	-	1	2	1	1	4	1	8	34	88	-
White Male	-	3	-	-	2	-	1	1	-	5	18	39	-
White Female	-	-	-	1	-	1	-	3	1	3	15	49	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	1	-	-

LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	143	1,077.5	142	1,103.6	-	-	6	184.6
Diseases of the Heart	45	339.1	44	342.0	-	-	-	-
Cancer	34	256.2	34	264.2	-	-	-	-
Cerebrovascular Diseases	10	75.4	10	77.7	-	-	-	-
Accidents and Adverse Effects	12	90.4	12	93.3	-	-	5	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	6	45.2	6	46.6	-	-	-	-
Pneumonia and Influenza	4	*	4	*	-	-	-	-
Diabetes Mellitus	9	67.8	9	69.9	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	4	*	4	*	-	-	1	*
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Profile of Berrien County**



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	161,748	Total Live Births:	2,101	Total Deaths:	1,523
Rank Among Counties:	12	Mothers Age <18:	204	Infant Deaths:	22
Per Square Mile:	280.8	Low Weight Births:	168	Neonatal Deaths:	12
		First Births:	923	Postneonatal Deaths:	10
				Perinatal Deaths:	25
				Fetal Deaths:	14
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	1,364	Divorces:	727		
Marriage Rate:	16.9	Divorce Rate:	9.0		

**NATALITY BY RACE OF MOTHER**

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	2,101	13.0	1,526	11.4	546	21.2	23	9.1
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	204	97.1	96	45.7	108	51.4	-	-
Low Weight	168	80.0	87	57.0	79	144.7	1	*
Under 1,500 Grams	31	14.8	17	11.1	14	25.6	-	-
< 38 Weeks Gestation	344	163.7	216	141.5	127	232.6	1	*
Prenatal Care Began in 1st Trimester	1,509	718.2	1,220	799.5	265	485.3	20	869.6

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

**INFANT AND PERINATAL MORTALITY BY RACE**

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	22	10.5	14	9.2	8	14.7	-	-
Neonatal Deaths	12	5.7	9	5.9	3	*	-	-
Postneonatal Deaths	10	4.8	5	*	5	*	-	-
Perinatal Deaths	25	11.8	17	11.1	7	12.7	-	-
Fetal Deaths	14	6.6	9	5.9	4	*	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

**MORTALITY**

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	1,523	756	767	1,298	630	668	215	120	95	10	6	4	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	22	4	3	3	22	14	8	39	62	123	212	1,011	-
White Male	8	1	1	-	6	7	6	18	29	47	105	402	-
White Female	6	-	-	2	5	3	1	12	20	44	74	501	-
Black Male	3	3	1	1	9	4	-	6	7	17	14	55	-
Black Female	5	-	1	-	2	-	1	2	6	12	18	48	-
Other Male	-	-	-	-	-	-	-	1	-	1	-	4	-
Other Female	-	-	-	-	-	-	-	-	-	2	1	1	-

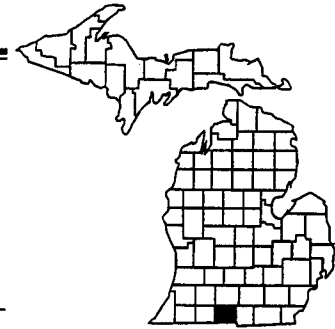
**LEADING CAUSES OF DEATH**

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,523	941.6	1,298	972.2	215	836.1	32	70.2
Diseases of the Heart	479	296.1	420	314.6	57	221.7	1	*
Cancer	370	228.8	320	239.7	47	182.8	2	*
Cerebrovascular Diseases	91	56.3	80	59.9	10	38.9	-	-
Accidents and Adverse Effects	53	32.8	42	31.5	10	38.9	11	24.1
Chronic Obstructive Pulmonary Diseases and Allied Conditions	72	44.5	66	49.4	5	*	1	*
Pneumonia and Influenza	57	35.2	52	38.9	4	*	-	-
Diabetes Mellitus	59	36.5	47	35.2	11	42.8	-	-
Chronic Liver Disease and Cirrhosis	16	9.9	14	10.5	2	*	-	-
Homicide	22	13.6	5	*	17	66.1	8	17.6
Suicide	20	12.4	17	12.7	3	*	2	*
Atherosclerosis	14	8.7	12	9.0	2	*	-	-
AIDS	12	7.4	9	6.7	3	*	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Branch County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	41,972	Total Live Births:	532	Total Deaths:	409
Rank Among Counties:	38	Mothers Age <18:	22	Infant Deaths:	1
Per Square Mile:	82.6	Low Weight Births:	47	Neonatal Deaths:	1
		First Births:	203	Postneonatal Deaths:	-
				Perinatal Deaths:	4
				Fetal Deaths:	4
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	349	Divorces:	279		
Marriage Rate:	16.6	Divorce Rate:	13.3		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	532	12.7	525	13.0	1	*	3	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	22	41.4	21	39.5	-	-	-	-
Low Weight	47	88.3	46	87.6	-	-	1	*
Under 1,500 Grams	10	18.8	10	19.0	-	-	-	-
< 38 Weeks Gestation	79	148.5	78	148.6	-	-	-	-
Prenatal Care Began in 1st Trimester	392	736.8	388	739.0	1	*	1	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	1	*	1	*	-	-	-	-
Neonatal Deaths	1	*	1	*	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	4	*	4	*	-	-	-	-
Fetal Deaths	4	*	4	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	409	210	199	405	208	197	2	-	2	2	2	-	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	1	1	-	3	6	5	11	19	42	71	249	-
White Male	-	-	-	-	3	2	4	9	12	26	42	110	-
White Female	1	1	1	-	-	3	1	2	6	15	29	138	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	1	-	1	-
Other Male	-	-	-	-	-	1	-	-	1	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

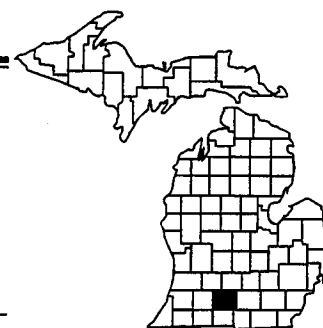
	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	409	974.5	405	999.6	2	*	5	*
Diseases of the Heart	118	281.1	117	288.8	1	*	-	-
Cancer	95	226.3	95	234.5	-	-	-	-
Cerebrovascular Diseases	29	69.1	29	71.6	-	-	-	-
Accidents and Adverse Effects	26	61.9	26	64.2	-	-	5	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	25	59.6	25	61.7	-	-	-	-
Pneumonia and Influenza	25	59.6	25	61.7	-	-	-	-
Diabetes Mellitus	10	23.8	9	22.2	1	*	-	-
Chronic Liver Disease and Cirrhosis	5	*	5	*	-	-	-	-
Homicide	2	*	2	*	-	-	-	-
Suicide	7	16.7	5	*	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	2	*	2	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



Profile of Calhoun County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	139,993	Total Live Births:	1,909	Total Deaths:	1,372
Rank Among Counties:	15	Mothers Age <18:	153	Infant Deaths:	13
Per Square Mile:	196.8	Low Weight Births:	143	Neonatal Deaths:	8
		First Births:	811	Postneonatal Deaths:	5
				Perinatal Deaths:	20
				Fetal Deaths:	15
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	1,189	Divorces:	722		
Marriage Rate:	17.0	Divorce Rate:	10.3		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,909	13.6	1,581	12.9	303	19.5	25	11.5
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	153	80.1	104	54.5	49	25.7	-	-
Low Weight	143	74.9	108	68.3	34	112.2	1	*
Under 1,500 Grams	17	8.9	14	8.9	3	*	-	-
< 38 Weeks Gestation	333	174.4	254	160.7	75	247.5	4	*
Prenatal Care Began in 1st Trimester	1,430	749.1	1,231	778.6	182	600.7	17	680.0

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	13	6.8	10	6.3	3	*	-	-
Neonatal Deaths	8	4.2	5	*	3	*	-	-
Postneonatal Deaths	5	*	5	*	-	-	-	-
Perinatal Deaths	20	10.4	17	10.7	3	*	-	-
Fetal Deaths	15	7.8	13	8.2	2	*	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	1,372	720	652	1,215	632	583	148	85	63	8	3	5	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	13	5	1	1	6	10	17	31	66	108	230	884	-
White Male	5	-	-	1	3	5	7	16	34	54	106	401	-
White Female	5	3	1	-	1	4	2	6	16	38	86	421	-
Black Male	2	2	-	-	2	-	4	7	12	10	24	22	-
Black Female	1	-	-	-	-	1	3	2	2	6	12	36	-
Other Male	-	-	-	-	-	-	1	-	1	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	1	-	2	2	-

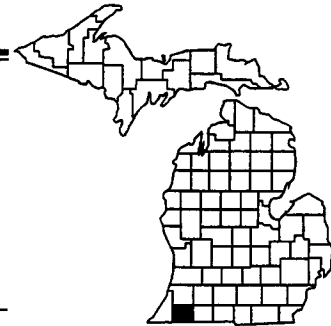
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,372	980.0	1,215	993.4	148	953.9	13	32.7
Diseases of the Heart	413	295.0	370	302.5	41	264.3	-	-
Cancer	320	228.6	283	231.4	35	225.6	1	*
Cerebrovascular Diseases	104	74.3	92	75.2	12	77.3	-	-
Accidents and Adverse Effects	59	42.1	49	40.1	9	58.0	3	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	83	59.3	82	67.0	1	*	-	-
Pneumonia and Influenza	78	55.7	72	58.9	4	*	1	*
Diabetes Mellitus	49	35.0	45	36.8	4	*	-	-
Chronic Liver Disease and Cirrhosis	18	12.9	14	11.4	2	*	-	-
Homicide	14	10.0	6	4.9	8	51.6	4	*
Suicide	14	10.0	13	10.6	1	*	1	*
Atherosclerosis	17	12.1	16	13.1	1	*	-	-
AIDS	6	4.3	2	*	4	*	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Cass County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	48,911	Total Live Births:	466	Total Deaths:	439
Rank Among Counties:	35	Mothers Age <18:	49	Infant Deaths:	5
Per Square Mile:	98.6	Low Weight Births:	39	Neonatal Deaths:	3
		First Births:	195	Postneonatal Deaths:	2
				Perinatal Deaths:	6
				Fetal Deaths:	3
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	354	Divorces:	259		
Marriage Rate:	14.5	Divorce Rate:	10.6		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	466	9.5	410	9.2	48	13.6	7	8.9
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	49	105.2	37	79.4	10	21.5	2	*
Low Weight	39	83.7	34	82.9	3	*	2	*
Under 1,500 Grams	6	12.9	6	14.6	-	-	-	-
< 38 Weeks Gestation	68	145.9	62	151.2	5	*	1	*
Prenatal Care Began in 1st Trimester	326	699.6	294	717.1	29	604.2	3	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	5	*	5	*	-	-	-	-
Neonatal Deaths	3	*	3	*	-	-	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	6	12.8	6	14.5	-	-	-	-
Fetal Deaths	3	*	3	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	439	225	214	383	192	191	50	32	18	6	1	5	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	5	-	2	-	4	3	3	14	14	29	80	285	-
White Male	5	-	-	-	3	2	1	7	8	11	47	108	-
White Female	-	-	1	-	-	-	1	6	3	11	26	143	-
Black Male	-	-	-	-	-	-	1	2	5	4	4	19	-
Black Female	-	-	1	-	-	-	-	1	1	2	2	13	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	1	1	-	-	1	1	1	1	-

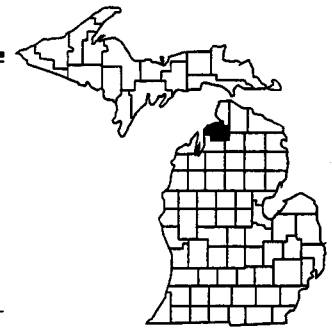
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	439	897.5	383	858.7	50	1,419.2	6	43.2
Diseases of the Heart	135	276.0	131	293.7	4	*	-	-
Cancer	112	229.0	97	217.5	12	340.6	1	*
Cerebrovascular Diseases	42	85.9	34	76.2	7	198.7	-	-
Accidents and Adverse Effects	22	45.0	18	40.4	4	*	4	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	15	30.7	12	26.9	3	*	-	-
Pneumonia and Influenza	18	36.8	14	31.4	4	*	-	-
Diabetes Mellitus	13	26.6	11	24.7	2	*	-	-
Chronic Liver Disease and Cirrhosis	4	*	3	*	1	*	-	-
Homicide	1	*	-	-	1	*	-	-
Suicide	5	*	5	*	-	-	-	-
Atherosclerosis	4	*	4	*	-	-	-	-
AIDS	2	*	1	*	1	*	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Charlevoix County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	22,826	Total Live Births:	298	Total Deaths:	230
Rank Among Counties:	56	Mothers Age <18:	12	Infant Deaths:	2
Per Square Mile:	54.2	Low Weight Births:	13	Neonatal Deaths:	2
		First Births:	125	Postneonatal Deaths:	-
				Perinatal Deaths:	4
				Fetal Deaths:	3
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	177	Divorces:	118		
Marriage Rate:	15.5	Divorce Rate:	10.3		

**NATALITY BY RACE OF MOTHER**

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	298	13.1	278	12.5	5	*	14	28.7
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	12	40.3	10	33.6	1	*	1	*
Low Weight	13	43.6	12	43.2	-	-	1	*
Under 1,500 Grams	3	*	3	*	-	-	-	-
< 38 Weeks Gestation	45	151.0	39	140.3	1	*	5	*
Prenatal Care Began in 1st Trimester	249	835.6	234	841.7	3	*	11	785.7

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

**INFANT AND PERINATAL MORTALITY BY RACE**

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	2	*	2	*	-	-	-	-
Neonatal Deaths	2	*	2	*	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	4	*	4	*	-	-	-	-
Fetal Deaths	3	*	3	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

**MORTALITY**

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	230	106	124	225	104	121	-	-	-	5	2	3	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	2	-	1	-	4	1	2	4	8	18	29	161	-
White Male	2	-	1	-	2	-	2	2	4	10	18	63	-
White Female	-	-	-	-	2	1	-	2	4	7	10	95	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	2	-
Other Female	-	-	-	-	-	-	-	-	-	1	1	1	-

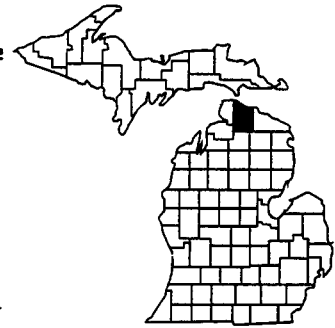
**LEADING CAUSES OF DEATH**

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	230	1,007.6	225	1,008.2	-	-	5	*
Diseases of the Heart	81	354.9	80	358.5	-	-	-	-
Cancer	49	214.7	49	219.6	-	-	-	-
Cerebrovascular Diseases	18	78.9	18	80.7	-	-	-	-
Accidents and Adverse Effects	14	61.3	14	62.7	-	-	4	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	10	43.8	9	40.3	-	-	-	-
Pneumonia and Influenza	7	30.7	6	26.9	-	-	-	-
Diabetes Mellitus	5	*	4	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	5	*	4	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	3	*	3	*	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Cheboygan County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	22,469	Total Live Births:	286	Total Deaths:	254
Rank Among Counties:	58	Mothers Age <18:	16	Infant Deaths:	3
Per Square Mile:	31.2	Low Weight Births:	18	Neonatal Deaths:	2
		First Births:	116	Postneonatal Deaths:	1
				Perinatal Deaths:	5
				Fetal Deaths:	3
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	184	Divorces:	96		
Marriage Rate:	16.4	Divorce Rate:	8.5		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	286	12.7	273	12.5	-	-	13	19.1
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	16	55.9	16	55.9	-	-	-	-
Low Weight	18	62.9	18	65.9	-	-	-	-
Under 1,500 Grams	3	*	3	*	-	-	-	-
< 38 Weeks Gestation	50	174.8	48	175.8	-	-	2	*
Prenatal Care Began in 1st Trimester	239	835.7	227	831.5	-	-	12	923.1

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	3	*	3	*	-	-	-	-
Neonatal Deaths	2	*	2	*	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	5	*	5	*	-	-	-	-
Fetal Deaths	3	*	3	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Total	Black		All Other Races			
	Total	Male	Female	Total	Male	Female		Male	Female	Total	Male	Female	
Deaths	254	130	124	247	128	119	-	-	-	6	1	5	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	3	-	1	2	1	3	3	4	9	14	42	172	-
White Male	2	-	1	1	1	3	3	3	2	9	23	80	-
White Female	1	-	-	1	-	-	-	1	5	5	17	89	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	1	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	1	-	-	2	2	-

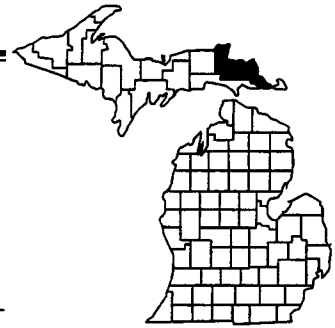
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	254	1,130.4	247	1,134.6	-	-	4	*
Diseases of the Heart	93	413.9	89	408.8	-	-	1	*
Cancer	48	213.6	46	211.3	-	-	-	-
Cerebrovascular Diseases	15	66.8	15	68.9	-	-	-	-
Accidents and Adverse Effects	11	49.0	11	50.5	-	-	3	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	16	71.2	16	73.5	-	-	-	-
Pneumonia and Influenza	10	44.5	10	45.9	-	-	-	-
Diabetes Mellitus	12	53.4	11	50.5	-	-	-	-
Chronic Liver Disease and Cirrhosis	6	26.7	6	27.6	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	4	*	4	*	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Chippewa County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	36,590	Total Live Births:	412	Total Deaths:	299
Rank Among Counties:	43	Mothers Age <18:	20	Infant Deaths:	1
Per Square Mile:	23.0	Low Weight Births:	18	Neonatal Deaths:	1
		First Births:	168	Postneonatal Deaths:	-
				Perinatal Deaths:	6
				Fetal Deaths:	5
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	308	Divorces:	113		
Marriage Rate:	16.8	Divorce Rate:	6.2		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	412	11.3	314	10.9	2	*	95	20.3
Mothers Age <18	20	48.5	15	36.4	-	-	5	*
Low Weight	18	43.7	12	38.2	-	-	6	63.2
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	57	138.3	45	143.3	-	-	12	126.3
Prenatal Care Began in 1st Trimester	325	788.8	253	805.7	2	*	69	726.3

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	1	*	1	*	-	-	-	-
Neonatal Deaths	1	*	1	*	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	6	14.4	6	18.8	-	-	-	-
Fetal Deaths	5	*	5	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	299	151	148	271	136	135	3	3	-	25	12	13	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	-	1	2	6	2	3	3	12	21	39	209	-
White Male	1	-	-	-	2	1	2	3	4	13	25	85	-
White Female	-	-	1	2	2	-	-	-	4	5	12	109	-
Black Male	-	-	-	-	-	-	-	-	1	1	-	1	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	1	-	-	-	1	2	8	-
Other Female	-	-	-	-	2	-	1	-	3	1	-	6	-

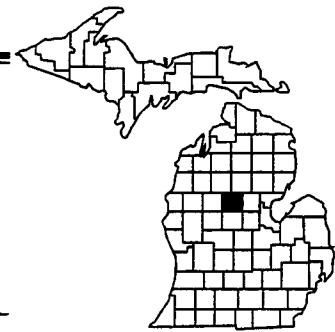
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	299	817.2	271	937.0	3	*	9	97.2
Diseases of the Heart	94	256.9	85	293.9	3	*	1	*
Cancer	82	224.1	76	262.8	-	-	-	-
Cerebrovascular Diseases	25	68.3	25	86.4	-	-	-	-
Accidents and Adverse Effects	16	43.7	12	41.5	-	-	6	64.8
Chronic Obstructive Pulmonary Diseases and Allied Conditions	10	27.3	9	31.1	-	-	-	-
Pneumonia and Influenza	4	*	2	*	-	-	-	-
Diabetes Mellitus	12	32.8	9	31.1	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	5	*	5	*	-	-	1	*
Atherosclerosis	3	*	3	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Clare County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	27,602	Total Live Births:	354	Total Deaths:	345
Rank Among Counties:	48	Mothers Age <18:	20	Infant Deaths:	-
Per Square Mile:	48.4	Low Weight Births:	22	Neonatal Deaths:	-
		First Births:	146	Postneonatal Deaths:	-
				Perinatal Deaths:	4
				Fetal Deaths:	4
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	253	Divorces:	138		
Marriage Rate:	18.3	Divorce Rate:	10.0		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	354	12.8	348	12.8	-	-	6	20.9
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	20	56.5	20	56.5	-	-	-	-
Low Weight	22	62.1	22	63.2	-	-	-	-
Under 1,500 Grams	3	*	3	*	-	-	-	-
< 38 Weeks Gestation	50	141.2	49	140.8	-	-	1	*
Prenatal Care Began in 1st Trimester	270	762.7	266	764.4	-	-	4	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	-	-	-	-	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	4	*	4	*	-	-	-	-
Fetal Deaths	4	*	4	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	345	182	163	345	182	163	-	-	-	-	-	-	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	-	1	2	1	1	1	1	8	16	33	54	227	-
White Male	-	-	1	-	-	1	-	4	15	23	38	100	-
White Female	-	1	1	1	1	-	1	4	1	10	16	127	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

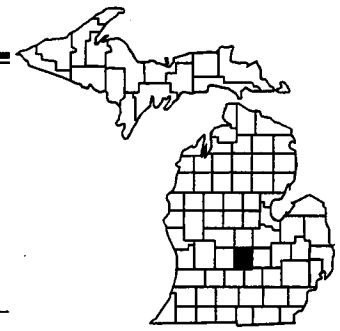
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	345	1,249.9	345	1,266.1	-	-	5	*
Diseases of the Heart	135	489.1	135	495.4	-	-	-	-
Cancer	85	307.9	85	311.9	-	-	-	-
Cerebrovascular Diseases	20	72.5	20	73.4	-	-	-	-
Accidents and Adverse Effects	18	65.2	18	66.1	-	-	5	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	20	72.5	20	73.4	-	-	-	-
Pneumonia and Influenza	10	36.2	10	36.7	-	-	-	-
Diabetes Mellitus	10	36.2	10	36.7	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	4	*	4	*	-	-	-	-
Atherosclerosis	3	*	3	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Clinton County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	60,891	Total Live Births:	835	Total Deaths:	434
Rank Among Counties:	28	Mothers Age <18:	23	Infant Deaths:	7
Per Square Mile:	106.3	Low Weight Births:	48	Neonatal Deaths:	5
		First Births:	317	Postneonatal Deaths:	2
				Perinatal Deaths:	9
				Fetal Deaths:	4
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	418	Divorces:	207		
Marriage Rate:	13.7	Divorce Rate:	6.8		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	835	13.7	821	13.7	4	*	10	17.1
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	23	27.5	22	26.3	1	*	-	-
Low Weight	48	57.5	46	56.0	1	*	1	*
Under 1,500 Grams	12	14.4	12	14.6	-	-	-	-
< 38 Weeks Gestation	138	165.3	137	166.9	-	-	1	*
Prenatal Care Began in 1st Trimester	758	907.8	746	908.6	4	*	8	800.0

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	7	8.4	6	7.3	1	*	-	-
Neonatal Deaths	5	*	4	*	1	*	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	9	10.7	8	9.7	1	*	-	-
Fetal Deaths	4	*	4	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	434	197	237	428	195	233	2	-	2	3	1	2	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	7	-	-	1	4	4	2	12	15	37	43	309	-
White Male	5	-	-	-	2	1	1	6	10	20	20	130	-
White Female	1	-	-	1	2	3	1	5	5	16	21	178	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	1	-	-	-	-	-	-	1	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	1	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	1	1	-

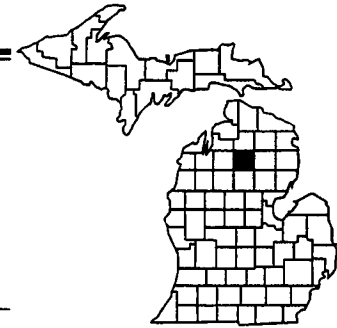
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	434	712.7	428	712.9	2	*	5	*
Diseases of the Heart	123	202.0	122	203.2	1	*	-	-
Cancer	101	165.9	99	164.9	-	-	-	-
Cerebrovascular Diseases	50	82.1	50	83.3	-	-	-	-
Accidents and Adverse Effects	15	24.6	15	25.0	-	-	4	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	23	37.8	22	36.6	-	-	-	-
Pneumonia and Influenza	14	23.0	14	23.3	-	-	-	-
Diabetes Mellitus	19	31.2	19	31.6	-	-	-	-
Chronic Liver Disease and Cirrhosis	5	*	5	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	5	*	5	*	-	-	1	*
Atherosclerosis	4	*	4	*	-	-	-	-
AIDS	2	*	2	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Crawford County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	13,394	Total Live Births:	149	Total Deaths:	145
Rank Among Counties:	69	Mothers Age <18:	12	Infant Deaths:	4
Per Square Mile:	24.0	Low Weight Births:	16	Neonatal Deaths:	2
		First Births:	51	Postneonatal Deaths:	2
				Perinatal Deaths:	2
				Fetal Deaths:	2
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	99	Divorces:	67		
Marriage Rate:	14.8	Divorce Rate:	10.0		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	149	11.1	147	11.5	1	*	1	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	12	80.5	11	73.8	1	*	-	-
Low Weight	16	107.4	16	108.8	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	26	174.5	26	176.9	-	-	-	-
Prenatal Care Began in 1st Trimester	128	859.1	127	863.9	-	-	1	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	4	*	4	*	-	-	-	-
Neonatal Deaths	2	*	2	*	-	-	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	2	*	2	*	-	-	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

Deaths	All Races			White			Total	Black		All Other Races			
	Total	Male	Female	Total	Male	Female		Male	Female	Total	Male	Female	
	145	70	75	143	69	74	-	-	-	2	1	1	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	4	-	-	-	-	-	-	2	4	13	23	99	-
White Male	3	-	-	-	-	-	-	1	4	8	12	41	-
White Female	1	-	-	-	-	-	-	1	-	5	10	57	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	1	-

LEADING CAUSES OF DEATH

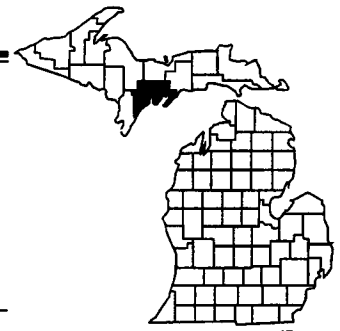
	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	145	1,082.6	143	1,120.2	-	-	-	-
Diseases of the Heart	40	298.6	39	305.5	-	-	-	-
Cancer	35	261.3	34	266.3	-	-	-	-
Cerebrovascular Diseases	16	119.5	16	125.3	-	-	-	-
Accidents and Adverse Effects	5	*	5	*	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	11	82.1	11	86.2	-	-	-	-
Pneumonia and Influenza	5	*	5	*	-	-	-	-
Diabetes Mellitus	4	*	4	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	-	-	-	-	-	-	-	-
Atherosclerosis	3	*	3	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



Profile of Delta County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	38,599	Total Live Births:	391	Total Deaths:	383
Rank Among Counties:	42	Mothers Age <18:	12	Infant Deaths:	3
Per Square Mile:	32.9	Low Weight Births:	21	Neonatal Deaths:	2
		First Births:	144	Postneonatal Deaths:	1
				Perinatal Deaths:	5
				Fetal Deaths:	3
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	296	Divorces:	170		
Marriage Rate:	15.3	Divorce Rate:	8.8		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	391	10.1	380	10.1	2	*	8	7.2
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	12	30.7	11	28.1	-	-	1	*
Low Weight	21	53.7	21	55.3	-	-	-	-
Under 1,500 Grams	2	*	2	*	-	-	-	-
< 38 Weeks Gestation	38	97.2	38	100.0	-	-	-	-
Prenatal Care Began in 1st Trimester	295	754.5	290	763.2	1	*	4	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	3	*	2	*	-	-	1	*
Neonatal Deaths	2	*	2	*	-	-	-	-
Postneonatal Deaths	1	*	-	-	-	-	1	*
Perinatal Deaths	5	*	5	*	-	-	-	-
Fetal Deaths	3	*	3	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	383	190	193	377	187	190	-	-	-	6	3	3	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	3	-	1	1	1	2	4	4	14	33	55	265	-
White Male	2	-	-	1	-	2	4	4	7	16	33	118	-
White Female	-	-	1	-	-	-	-	-	6	15	22	146	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	1	1	-	1	-
Other Female	1	-	-	-	1	-	-	-	-	1	-	-	-

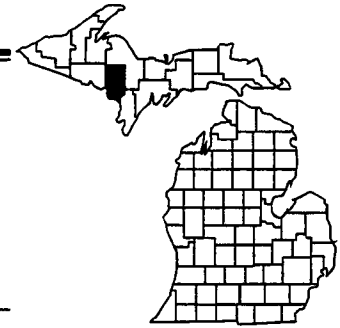
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	383	992.3	377	1,006.2	-	-	3	*
Diseases of the Heart	115	297.9	113	301.6	-	-	-	-
Cancer	85	220.2	84	224.2	-	-	-	-
Cerebrovascular Diseases	36	93.3	36	96.1	-	-	-	-
Accidents and Adverse Effects	22	57.0	19	50.7	-	-	2	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	23	59.6	23	61.4	-	-	-	-
Pneumonia and Influenza	11	28.5	11	29.4	-	-	-	-
Diabetes Mellitus	13	33.7	13	34.7	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	9	23.3	9	24.0	-	-	1	*
Atherosclerosis	3	*	3	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Dickinson County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	27,044	Total Live Births:	289	Total Deaths:	322
Rank Among Counties:	50	Mothers Age <18:	6	Infant Deaths:	2
Per Square Mile:	35.1	Low Weight Births:	12	Neonatal Deaths:	2
		First Births:	112	Postneonatal Deaths:	-
				Perinatal Deaths:	3
				Fetal Deaths:	1
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	245	Divorces:	127		
Marriage Rate:	18.1	Divorce Rate:	9.4		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	289	10.7	282	10.6	-	-	7	21.6
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	6	20.8	5	*	-	-	1	*
Low Weight	12	41.5	12	42.6	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	46	159.2	45	159.6	-	-	1	*
Prenatal Care Began in 1st Trimester	255	882.4	249	883.0	-	-	6	857.1

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	2	*	2	*	-	-	-	-
Neonatal Deaths	2	*	2	*	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	3	*	3	*	-	-	-	-
Fetal Deaths	1	*	1	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	322	149	173	322	149	173	-	-	-	-	-	-	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	2	-	-	-	1	4	1	7	11	18	29	249	-
White Male	1	-	-	-	-	3	1	4	5	9	22	104	-
White Female	1	-	-	-	1	1	-	3	6	9	7	145	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	322	1,190.7	322	1,206.4	-	-	1	*
Diseases of the Heart	118	436.3	118	442.1	-	-	-	-
Cancer	75	277.3	75	281.0	-	-	-	-
Cerebrovascular Diseases	23	85.0	23	86.2	-	-	-	-
Accidents and Adverse Effects	10	37.0	10	37.5	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	14	51.8	14	52.5	-	-	-	-
Pneumonia and Influenza	10	37.0	10	37.5	-	-	-	-
Diabetes Mellitus	10	37.0	10	37.5	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	3	*	3	*	-	-	1	*
Suicide	4	*	4	*	-	-	-	-
Atherosclerosis	6	22.2	6	22.5	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Eaton County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	96,810	Total Live Births:	1,215	Total Deaths:	728
Rank Among Counties:	19	Mothers Age <18:	47	Infant Deaths:	7
Per Square Mile:	167.1	Low Weight Births:	76	Neonatal Deaths:	4
		First Births:	541	Postneonatal Deaths:	3
				Perinatal Deaths:	15
				Fetal Deaths:	11
MARRIAGE		DIVORCE			
Marriages:	793	Divorces:	433		
Marriage Rate:	16.4	Divorce Rate:	8.9		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,215	12.6	1,152	12.6	49	12.2	12	10.1
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	47	38.7	42	34.6	4	*	1	*
Low Weight	76	62.6	74	64.2	1	*	1	*
Under 1,500 Grams	14	11.5	14	12.2	-	-	-	-
< 38 Weeks Gestation	177	145.7	163	141.5	10	204.1	3	*
Prenatal Care Began in 1st Trimester	1,058	870.8	1,009	875.9	43	877.6	6	500.0

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	7	5.8	6	5.2	1	*	-	-
Neonatal Deaths	4	*	4	*	-	-	-	-
Postneonatal Deaths	3	*	2	*	1	*	-	-
Perinatal Deaths	15	12.2	13	11.2	2	*	-	-
Fetal Deaths	11	9.0	9	7.8	2	*	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

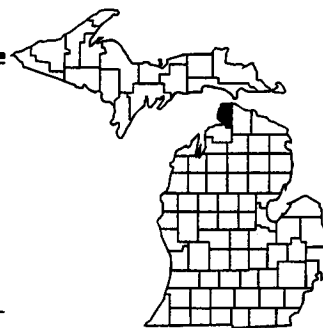
	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	728	371	357	710	363	347	14	7	7	4	1	3	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	7	1	2	1	3	5	5	17	34	57	103	493	-
White Male	2	1	1	-	2	5	5	11	24	40	61	211	-
White Female	4	-	1	1	1	-	-	5	10	15	37	273	-
Black Male	1	-	-	-	-	-	-	-	-	2	2	2	-
Black Female	-	-	-	-	-	-	-	1	-	-	1	5	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	1	2	-

LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	728	752.0	710	775.0	14	349.8	7	25.0
Diseases of the Heart	219	226.2	217	236.9	2	*	-	-
Cancer	195	201.4	186	203.0	7	174.9	1	*
Cerebrovascular Diseases	34	35.1	34	37.1	-	-	-	-
Accidents and Adverse Effects	28	28.9	28	30.6	-	-	3	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	46	47.5	44	48.0	-	-	-	-
Pneumonia and Influenza	25	25.8	25	27.3	-	-	-	-
Diabetes Mellitus	17	17.6	17	18.6	-	-	-	-
Chronic Liver Disease and Cirrhosis	6	6.2	6	6.5	-	-	-	-
Homicide	2	*	2	*	-	-	1	*
Suicide	11	11.4	11	12.0	-	-	-	-
Atherosclerosis	6	6.2	5	*	1	*	-	-
AIDS	3	*	3	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Profile of Emmet County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	27,042	Total Live Births:	383	Total Deaths:	231
Rank Among Counties:	51	Mothers Age <18:	9	Infant Deaths:	3
Per Square Mile:	57.8	Low Weight Births:	23	Neonatal Deaths:	2
		First Births:	145	Postneonatal Deaths:	1
				Perinatal Deaths:	3
				Fetal Deaths:	1
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	263	Divorces:	134		
Marriage Rate:	19.5	Divorce Rate:	9.9		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	383	14.2	361	13.9	1	*	21	24.3
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	9	23.5	8	20.9	-	-	1	*
Low Weight	23	60.1	20	55.4	-	-	3	*
Under 1,500 Grams	3	*	2	*	-	-	1	*
< 38 Weeks Gestation	62	161.9	57	157.9	-	-	5	*
Prenatal Care Began in 1st Trimester	322	840.7	309	856.0	-	-	13	619.0

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	3	*	3	*	-	-	-	-
Neonatal Deaths	2	*	2	*	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	3	*	3	*	-	-	-	-
Fetal Deaths	1	*	1	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	231	119	112	229	118	111	-	-	-	2	1	1	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	3	-	-	-	1	1	2	10	4	17	26	167	-
White Male	3	-	-	-	1	-	2	6	2	10	20	74	-
White Female	-	-	-	-	-	1	-	4	2	7	6	91	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	1	-

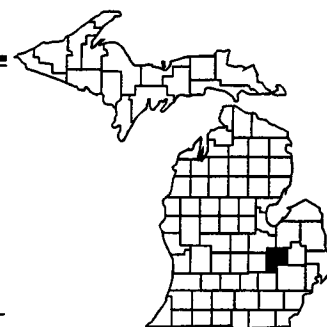
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	231	854.2	229	880.4	-	-	1	*
Diseases of the Heart	59	218.2	58	223.0	-	-	-	-
Cancer	67	247.8	67	257.6	-	-	-	-
Cerebrovascular Diseases	19	70.3	19	73.0	-	-	-	-
Accidents and Adverse Effects	17	62.9	17	65.4	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	11	40.7	11	42.3	-	-	-	-
Pneumonia and Influenza	15	55.5	15	57.7	-	-	-	-
Diabetes Mellitus	5	*	5	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	3	*	3	*	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	2	*	2	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Genesee County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	433,302	Total Live Births:	6,469	Total Deaths:	3,723
Rank Among Counties:	5	Mothers Age <18:	452	Infant Deaths:	74
Per Square Mile:	675.4	Low Weight Births:	572	Neonatal Deaths:	41
		First Births:	2,612	Postneonatal Deaths:	33
				Perinatal Deaths:	61
				Fetal Deaths:	26
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	3,444	Divorces:	1,913		
Marriage Rate:	15.9	Divorce Rate:	8.8		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	6,469	14.9	4,575	13.6	1,801	20.2	90	13.1
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	452	69.9	214	33.1	237	38.6	1	*
Low Weight	572	88.4	316	69.1	252	139.9	4	*
Under 1,500 Grams	114	17.6	63	13.8	50	27.8	1	*
< 38 Weeks Gestation	1,134	175.3	735	160.7	387	214.9	12	133.3
Prenatal Care Began in 1st Trimester	5,395	834.0	3,998	873.9	1,325	735.7	69	766.7

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	74	11.4	40	8.7	31	17.2	3	*
Neonatal Deaths	41	6.3	22	4.8	17	9.4	2	*
Postneonatal Deaths	33	5.1	18	3.9	14	7.8	1	*
Perinatal Deaths	61	9.4	38	8.3	20	11.1	3	*
Fetal Deaths	26	4.0	20	4.4	5	*	1	*

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	3,723	1,829	1,894	2,985	1,442	1,543	705	369	336	33	18	15	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	74	17	10	4	29	40	45	145	227	332	614	2,186	-
White Male	26	8	2	-	14	21	19	55	103	142	263	789	-
White Female	14	2	5	1	4	7	7	31	46	107	199	1,120	-
Black Male	17	3	2	2	8	9	11	32	43	46	86	110	-
Black Female	14	4	1	1	3	2	7	27	31	33	58	155	-
Other Male	-	-	-	-	-	1	-	-	2	3	6	6	-
Other Female	3	-	-	-	-	-	1	-	2	1	2	6	-

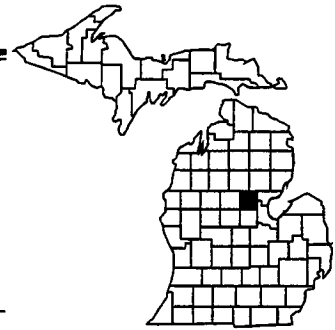
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	3,723	859.2	2,985	884.9	705	791.3	60	47.7
Diseases of the Heart	1,294	298.6	1,079	319.9	208	233.5	2	*
Cancer	813	187.6	648	192.1	155	174.0	5	*
Cerebrovascular Diseases	232	53.5	189	56.0	42	47.1	1	*
Accidents and Adverse Effects	150	34.6	113	33.5	35	39.3	27	21.5
Chronic Obstructive Pulmonary Diseases and Allied Conditions	171	39.5	147	43.6	21	23.6	1	*
Pneumonia and Influenza	97	22.4	86	25.5	10	11.2	1	*
Diabetes Mellitus	119	27.5	84	24.9	32	35.9	-	-
Chronic Liver Disease and Cirrhosis	43	9.9	34	10.1	9	10.1	-	-
Homicide	50	11.5	14	4.2	36	40.4	8	6.4
Suicide	42	9.7	34	10.1	8	9.0	2	*
Atherosclerosis	23	5.3	23	6.8	-	-	-	-
AIDS	23	5.3	11	3.3	12	13.5	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Gladwin County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	23,945	Total Live Births:	269	Total Deaths:	284
Rank Among Counties:	54	Mothers Age <18:	18	Infant Deaths:	4
Per Square Mile:	47.4	Low Weight Births:	18	Neonatal Deaths:	2
		First Births:	111	Postneonatal Deaths:	2
				Perinatal Deaths:	2
				Fetal Deaths:	1
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	211	Divorces:	99		
Marriage Rate:	17.6	Divorce Rate:	8.3		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	269	11.2	266	11.2	-	-	1	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	18	66.9	18	66.9	-	-	-	-
Low Weight	18	66.9	18	67.7	-	-	-	-
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	50	185.9	49	184.2	-	-	-	-
Prenatal Care Began in 1st Trimester	205	762.1	203	763.2	-	-	1	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	4	*	4	*	-	-	-	-
Neonatal Deaths	2	*	2	*	-	-	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	2	*	2	*	-	-	-	-
Fetal Deaths	1	*	1	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	284	142	142	282	141	141	-	-	-	2	1	1	
				Age in Years									
Total Deaths	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
White Male	4	2	-	1	4	1	2	2	6	22	55	185	-
White Female	-	1	-	-	2	1	1	1	3	12	32	88	-
Black Male	4	1	-	1	2	-	1	1	3	10	22	96	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	1	-

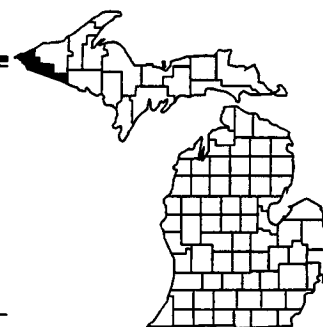
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	284	1,186.1	282	1,189.6	-	-	7	107.3
Diseases of the Heart	97	405.1	96	405.0	-	-	-	-
Cancer	68	284.0	68	286.8	-	-	1	*
Cerebrovascular Diseases	25	104.4	25	105.5	-	-	-	-
Accidents and Adverse Effects	18	75.2	18	75.9	-	-	4	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	10	41.8	10	42.2	-	-	1	*
Pneumonia and Influenza	10	41.8	10	42.2	-	-	-	-
Diabetes Mellitus	7	29.2	7	29.5	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	2	*	2	*	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Gogebic County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	18,001	Total Live Births:	151	Total Deaths:	288
Rank Among Counties:	65	Mothers Age <18:	4	Infant Deaths:	-
Per Square Mile:	16.3	Low Weight Births:	5	Neonatal Deaths:	-
		First Births:	51	Postneonatal Deaths:	-
				Perinatal Deaths:	-
				Fetal Deaths:	-
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	122	Divorces:	66		
Marriage Rate:	13.6	Divorce Rate:	7.3		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	151	8.4	144	8.3	-	-	7	20.2
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	4	*	4	*	-	-	-	-
Low Weight	5	*	4	*	-	-	1	*
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	20	132.5	19	131.9	-	-	1	*
Prenatal Care Began in 1st Trimester	125	827.8	121	840.3	-	-	4	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	-	-	-	-	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	-	-	-	-	-	-	-	-
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	288	159	129	285	158	127	-	-	-	3	1	2	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	-	-	1	1	2	-	1	4	9	17	38	215	-
White Male	-	-	1	1	1	-	1	4	5	13	24	108	-
White Female	-	-	-	-	1	-	-	-	4	4	14	104	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	2	-

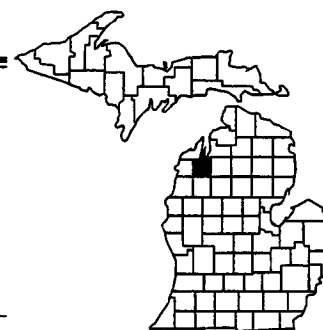
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	288	1,599.9	285	1,640.7	-	-	4	*
Diseases of the Heart	90	500.0	89	512.3	-	-	-	-
Cancer	87	483.3	86	495.1	-	-	1	*
Cerebrovascular Diseases	23	127.8	23	132.4	-	-	-	-
Accidents and Adverse Effects	5	*	5	*	-	-	2	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	12	66.7	12	69.1	-	-	1	*
Pneumonia and Influenza	14	77.8	14	80.6	-	-	-	-
Diabetes Mellitus	2	*	2	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	1	*	1	*	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	3	*	3	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Grand Traverse County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	69,597	Total Live Births:	870	Total Deaths:	556
Rank Among Counties:	27	Mothers Age <18:	34	Infant Deaths:	4
Per Square Mile:	149.3	Low Weight Births:	49	Neonatal Deaths:	2
		First Births:	378	Postneonatal Deaths:	2
				Perinatal Deaths:	6
				Fetal Deaths:	4
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	655	Divorces:	390		
Marriage Rate:	18.8	Divorce Rate:	11.2		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	870	12.5	844	12.4	4	*	19	17.8
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	34	39.1	33	37.9	1	*	-	-
Low Weight	49	56.3	47	55.7	1	*	1	-
Under 1,500 Grams	6	6.9	6	7.1	-	-	-	-
< 38 Weeks Gestation	132	151.7	129	152.8	-	-	3	*
Prenatal Care Began in 1st Trimester	696	800.0	679	804.5	4	*	10	526.3

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	4	*	4	*	-	-	-	-
Neonatal Deaths	2	*	2	*	-	-	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	6	6.9	5	*	-	-	1	*
Fetal Deaths	4	*	3	*	-	-	1	*

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	556	268	288	550	265	285	1	1	-	5	2	3	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	4	-	1	-	3	3	5	14	28	28	74	396	-
White Male	3	-	1	-	3	2	3	11	15	17	48	162	-
White Female	1	-	-	-	-	1	1	3	11	10	26	232	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	1	-	1	-	-	-	-
Other Female	-	-	-	-	-	-	-	1	1	-	-	1	-

LEADING CAUSES OF DEATH

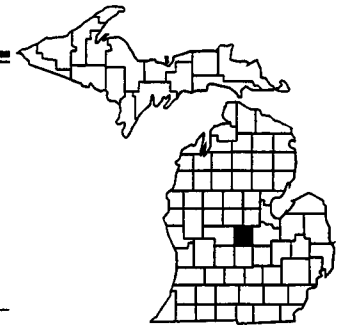
	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	556	798.9	550	806.3	1	*	4	*
Diseases of the Heart	181	260.1	180	263.9	-	-	-	-
Cancer	123	176.7	122	178.8	-	-	-	-
Cerebrovascular Diseases	46	66.1	46	67.4	-	-	-	-
Accidents and Adverse Effects	25	35.9	23	33.7	1	*	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	33	47.4	32	46.9	-	-	-	-
Pneumonia and Influenza	19	27.3	19	27.9	-	-	-	-
Diabetes Mellitus	6	8.6	6	8.8	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	2	*	2	*	-	-	-	-
Suicide	7	10.1	7	10.3	-	-	1	*
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	2	*	2	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



Profile of Gratiot County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	39,779	Total Live Births:	501	Total Deaths:	431
Rank Among Counties:	40	Mothers Age <18:	22	Infant Deaths:	3
Per Square Mile:	69.7	Low Weight Births:	29	Neonatal Deaths:	2
		First Births:	197	Postneonatal Deaths:	1
				Perinatal Deaths:	7
				Fetal Deaths:	6
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	323	Divorces:	168		
Marriage Rate:	16.2	Divorce Rate:	8.4		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	501	12.6	494	12.7	-	-	6	19.4
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	22	43.9	22	43.9	-	-	-	-
Low Weight	29	57.9	28	56.7	-	-	1	*
Under 1,500 Grams	4	*	4	*	-	-	-	-
< 38 Weeks Gestation	80	159.7	77	155.9	-	-	3	*
Prenatal Care Began in 1st Trimester	421	840.3	415	840.1	-	-	6	1,000.0

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	3	*	3	*	-	-	-	-
Neonatal Deaths	2	*	2	*	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	7	13.8	7	14.0	-	-	-	-
Fetal Deaths	6	11.8	6	12.0	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	431	218	213	426	217	209	2	-	2	3	1	2	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	3	1	4	-	4	2	3	9	26	23	48	308	-
White Male	2	-	4	-	4	2	1	5	15	11	32	141	-
White Female	1	1	-	-	-	-	2	4	11	11	16	163	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	2	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	1	-	-	1	-

LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	431	1,083.5	426	1,092.0	2	*	9	78.0
Diseases of the Heart	181	455.0	180	461.4	-	-	-	-
Cancer	78	196.1	78	199.9	-	-	-	-
Cerebrovascular Diseases	36	90.5	35	89.7	1	*	-	-
Accidents and Adverse Effects	19	47.8	19	48.7	-	-	6	52.0
Chronic Obstructive Pulmonary Diseases and Allied Conditions	10	25.1	10	25.6	-	-	-	-
Pneumonia and Influenza	26	65.4	25	64.1	1	*	-	-
Diabetes Mellitus	9	22.6	9	23.1	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	6	15.1	6	15.4	-	-	2	*
Atherosclerosis	5	*	5	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Hillsdale County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	44,830	Total Live Births:	566	Total Deaths:	447
Rank Among Counties:	36	Mothers Age <18:	26	Infant Deaths:	3
Per Square Mile:	74.4	Low Weight Births:	44	Neonatal Deaths:	2
		First Births:	206	Postneonatal Deaths:	1
				Perinatal Deaths:	6
				Fetal Deaths:	4
MARRIAGE		DIVORCE			
Marriages:	347	Divorces:	265		
Marriage Rate:	15.5	Divorce Rate:	11.8		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	566	12.6	559	12.6	1	*	6	18.3
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	26	45.9	26	45.9	-	-	-	-
Low Weight	44	77.7	43	76.9	-	-	1	*
Under 1,500 Grams	4	*	4	*	-	-	-	-
< 38 Weeks Gestation	92	162.5	91	162.8	-	-	1	*
Prenatal Care Began in 1st Trimester	415	733.2	409	731.7	1	*	5	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	3	*	3	*	-	-	-	-
Neonatal Deaths	2	*	2	*	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	6	10.5	6	10.7	-	-	-	-
Fetal Deaths	4	*	4	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	447	224	223	447	224	223	-	-	-	-	-	-	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	3	1	1	2	4	7	3	19	18	32	68	289	-
White Male	3	1	1	-	3	6	1	12	13	24	40	120	-
White Female	-	-	-	2	1	1	2	7	5	8	28	169	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

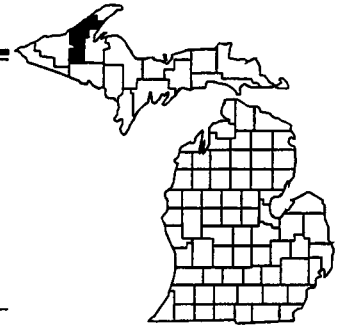
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	447	997.1	447	1,007.4	-	-	8	58.3
Diseases of the Heart	145	323.4	145	326.8	-	-	-	-
Cancer	101	225.3	101	227.6	-	-	-	-
Cerebrovascular Diseases	29	64.7	29	65.4	-	-	-	-
Accidents and Adverse Effects	30	66.9	30	67.6	-	-	4	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	20	44.6	20	45.1	-	-	-	-
Pneumonia and Influenza	18	40.2	18	40.6	-	-	-	-
Diabetes Mellitus	5	*	5	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	7	15.6	7	15.8	-	-	-	-
Homicide	3	*	3	*	-	-	1	*
Suicide	11	24.5	11	24.8	-	-	1	*
Atherosclerosis	3	*	3	*	-	-	-	-
AIDS	2	*	2	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Houghton County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	36,369	Total Live Births:	434	Total Deaths:	400
Rank Among Counties:	44	Mothers Age <18:	6	Infant Deaths:	1
Per Square Mile:	35.9	Low Weight Births:	29	Neonatal Deaths:	1
		First Births:	161	Postneonatal Deaths:	-
				Perinatal Deaths:	4
				Fetal Deaths:	3
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	244	Divorces:	108		
Marriage Rate:	13.4	Divorce Rate:	5.9		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	434	11.9	417	11.8	1	*	16	16.6
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	6	13.8	6	13.8	-	-	-	-
Low Weight	29	66.8	28	67.1	-	-	1	*
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	64	147.5	64	153.5	-	-	-	-
Prenatal Care Began in 1st Trimester	357	822.6	343	822.5	1	*	13	812.5

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	1	*	1	*	-	-	-	-
Neonatal Deaths	1	*	1	*	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	4	*	4	*	-	-	-	-
Fetal Deaths	3	*	3	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	400	228	172	400	228	172	-	-	-	-	-	-	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	-	3	2	-	1	2	4	12	21	39	315	-
White Male	1	-	2	1	-	-	2	2	8	15	25	172	-
White Female	-	-	1	1	-	1	-	2	4	6	14	143	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

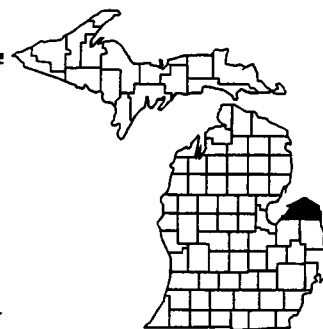
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	400	1,099.8	400	1,135.6	-	-	5	*
Diseases of the Heart	147	404.2	147	417.3	-	-	1	*
Cancer	82	225.5	82	232.8	-	-	-	-
Cerebrovascular Diseases	49	134.7	49	139.1	-	-	-	-
Accidents and Adverse Effects	13	35.7	13	36.9	-	-	3	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	18	49.5	18	51.1	-	-	-	-
Pneumonia and Influenza	17	46.7	17	48.3	-	-	-	-
Diabetes Mellitus	8	22.0	8	22.7	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	3	*	3	*	-	-	-	-
Suicide	2	*	2	*	-	-	-	-
Atherosclerosis	6	16.5	6	17.0	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Profile of Huron County**



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	35,203	Total Live Births:	384	Total Deaths:	405
Rank Among Counties:	45	Mothers Age <18:	10	Infant Deaths:	-
Per Square Mile:	42.4	Low Weight Births:	29	Neonatal Deaths:	-
		First Births:	158	Postneonatal Deaths:	-
				Perinatal Deaths:	2
				Fetal Deaths:	2
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	275	Divorces:	109		
Marriage Rate:	15.6	Divorce Rate:	6.2		

**NATALITY BY RACE OF MOTHER**

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	384	10.9	376	10.7	1	*	5	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	10	26.0	10	26.0	-	-	-	-
Low Weight	29	75.5	29	77.1	-	-	-	-
Under 1,500 Grams	8	20.8	8	21.3	-	-	-	-
< 38 Weeks Gestation	58	151.0	58	154.3	-	-	-	-
Prenatal Care Began in 1st Trimester	321	835.9	316	840.4	-	-	3	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

**INFANT AND PERINATAL MORTALITY BY RACE**

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	-	-	-	-	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	2	*	2	*	-	-	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

**MORTALITY**

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	405	203	202	403	201	202	-	-	-	2	2	-	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	-	-	1	-	5	-	2	6	12	30	49	300	-
White Male	-	-	1	-	2	-	2	5	6	20	30	135	-
White Female	-	-	-	-	3	-	-	1	6	10	18	164	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

**LEADING CAUSES OF DEATH**

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	405	1,150.5	403	1,151.8	-	-	6	61.9
Diseases of the Heart	155	440.3	155	443.0	-	-	-	-
Cancer	105	298.3	104	297.2	-	-	-	-
Cerebrovascular Diseases	40	113.6	40	114.3	-	-	-	-
Accidents and Adverse Effects	16	45.5	16	45.7	-	-	4	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	18	51.1	18	51.4	-	-	-	-
Pneumonia and Influenza	10	28.4	10	28.6	-	-	-	-
Diabetes Mellitus	13	36.9	13	37.2	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	7	19.9	7	20.0	-	-	1	*
Atherosclerosis	3	*	3	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Ingham County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	278,435	Total Live Births:	3,856	Total Deaths:	1,971
Rank Among Counties:	7	Mothers Age <18:	214	Infant Deaths:	33
Per Square Mile:	497.5	Low Weight Births:	297	Neonatal Deaths:	18
		First Births:	1,647	Postneonatal Deaths:	15
				Perinatal Deaths:	51
				Fetal Deaths:	37
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	2,334	Divorces:	1,212		
Marriage Rate:	16.8	Divorce Rate:	8.7		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	3,856	13.8	3,008	12.7	608	19.9	232	19.9
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	214	55.5	123	31.9	76	19.7	13	3.4
Low Weight	297	77.0	199	66.2	83	136.5	15	64.7
Under 1,500 Grams	50	13.0	22	7.3	24	39.5	4	*
< 38 Weeks Gestation	607	157.4	433	143.9	129	212.2	45	194.0
Prenatal Care Began in 1st Trimester	3,336	865.1	2,654	882.3	484	796.1	193	831.9

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	33	8.6	17	5.7	13	21.4	2	*
Neonatal Deaths	18	4.7	5	*	11	18.1	2	*
Postneonatal Deaths	15	3.9	12	4.0	2	*	-	-
Perinatal Deaths	51	13.1	29	9.6	18	29.1	3	*
Fetal Deaths	37	9.5	24	7.9	11	17.8	1	*

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	1,971	923	1,047	1,774	813	961	175	99	76	18	10	8	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	33	3	1	2	13	20	25	65	105	143	288	1,273	-
White Male	8	2	-	1	5	6	17	34	49	72	138	481	-
White Female	9	1	1	-	6	7	3	19	32	49	115	719	-
Black Male	8	-	-	-	2	5	2	5	17	12	18	30	-
Black Female	5	-	-	1	-	-	3	7	5	8	11	36	-
Other Male	-	-	-	-	-	2	-	-	2	1	2	3	-
Other Female	2	-	-	-	-	-	-	-	-	1	3	2	-

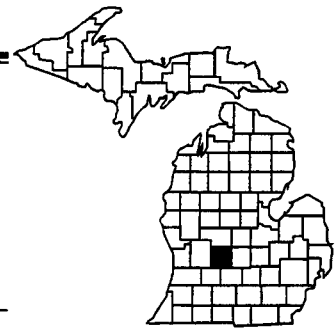
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,971	707.9	1,774	751.1	175	572.4	19	23.6
Diseases of the Heart	604	216.9	552	233.7	47	153.7	-	-
Cancer	431	154.8	392	166.0	37	121.0	1	*
Cerebrovascular Diseases	157	56.4	147	62.2	9	29.4	-	-
Accidents and Adverse Effects	84	30.2	75	31.8	5	*	10	12.4
Chronic Obstructive Pulmonary Diseases and Allied Conditions	103	37.0	96	40.6	5	*	-	-
Pneumonia and Influenza	56	20.1	52	22.0	3	*	-	-
Diabetes Mellitus	62	22.3	55	23.3	7	22.9	-	-
Chronic Liver Disease and Cirrhosis	21	7.5	18	7.6	3	*	-	-
Homicide	15	5.4	8	3.4	7	22.9	4	*
Suicide	33	11.9	31	13.1	2	*	2	*
Atherosclerosis	17	6.1	16	6.8	1	*	-	-
AIDS	20	7.2	17	7.2	3	*	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Ionia County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	59,191	Total Live Births:	831	Total Deaths:	454
Rank Among Counties:	30	Mothers Age <18:	46	Infant Deaths:	6
Per Square Mile:	102.6	Low Weight Births:	56	Neonatal Deaths:	3
		First Births:	311	Postneonatal Deaths:	3
				Perinatal Deaths:	5
				Fetal Deaths:	3
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	487	Divorces:	249		
Marriage Rate:	16.5	Divorce Rate:	8.4		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	831	14.0	815	14.8	4	*	12	28.6
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	46	55.4	45	54.2	1	*	-	-
Low Weight	56	67.4	54	66.3	2	*	-	-
Under 1,500 Grams	9	10.8	8	9.8	1	*	-	-
< 38 Weeks Gestation	147	176.9	144	176.7	2	*	1	*
Prenatal Care Began in 1st Trimester	678	815.9	666	817.2	3	*	9	750.0

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	6	7.2	6	7.4	-	-	-	-
Neonatal Deaths	3	*	3	*	-	-	-	-
Postneonatal Deaths	3	*	3	*	-	-	-	-
Perinatal Deaths	5	*	5	*	-	-	-	-
Fetal Deaths	3	*	3	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	454	233	221	448	229	219	2	2	-	4	2	2	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	6	1	-	-	2	7	7	5	27	29	62	308	-
White Male	1	1	-	-	1	4	5	4	18	21	38	136	-
White Female	5	-	-	-	1	2	2	1	8	8	23	169	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	2	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	1	-
Other Female	-	-	-	-	-	1	-	-	1	-	-	-	-

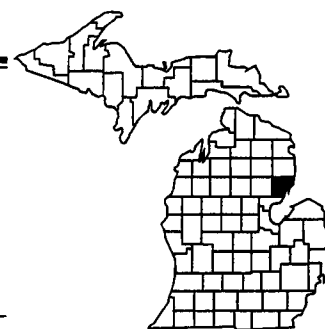
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	454	767.0	448	811.0	2	*	3	*
Diseases of the Heart	137	231.5	136	246.2	-	-	-	-
Cancer	97	163.9	95	172.0	1	*	1	*
Cerebrovascular Diseases	31	52.4	30	54.3	1	*	-	-
Accidents and Adverse Effects	21	35.5	20	36.2	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	24	40.5	24	43.4	-	-	-	-
Pneumonia and Influenza	18	30.4	18	32.6	-	-	-	-
Diabetes Mellitus	12	20.3	12	21.7	-	-	-	-
Chronic Liver Disease and Cirrhosis	7	11.8	7	12.7	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	11	18.6	11	19.9	-	-	-	-
Atherosclerosis	3	*	3	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Iosco County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	24,016	Total Live Births:	287	Total Deaths:	345
Rank Among Counties:	53	Mothers Age <18:	19	Infant Deaths:	1
Per Square Mile:	44.0	Low Weight Births:	18	Neonatal Deaths:	1
		First Births:	124	Postneonatal Deaths:	-
				Perinatal Deaths:	4
				Fetal Deaths:	3
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	192	Divorces:	121		
Marriage Rate:	16.0	Divorce Rate:	10.1		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	287	12.0	279	12.1	1	*	6	12.3
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	19	66.2	18	62.7	-	-	-	-
Low Weight	18	62.7	18	64.5	-	-	-	-
Under 1,500 Grams	3	*	3	*	-	-	-	-
< 38 Weeks Gestation	51	177.7	49	175.6	-	-	2	*
Prenatal Care Began in 1st Trimester	230	801.4	225	806.5	-	-	4	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	1	*	1	*	-	-	-	-
Neonatal Deaths	1	*	1	*	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	4	*	3	*	-	-	-	-
Fetal Deaths	3	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	345	199	146	343	198	145	-	-	-	2	1	1	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	1	1	-	2	3	1	8	6	22	62	238	-
White Male	-	-	1	-	2	2	1	4	4	13	44	127	-
White Female	1	1	-	-	-	1	-	4	2	8	18	110	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	1	-	-	-

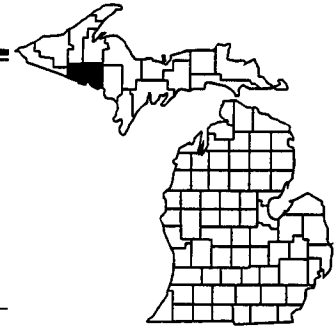
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	345	1,436.5	343	1,488.6	-	-	4	*
Diseases of the Heart	113	470.5	113	490.4	-	-	-	-
Cancer	84	349.8	83	360.2	-	-	-	-
Cerebrovascular Diseases	22	91.6	22	95.5	-	-	-	-
Accidents and Adverse Effects	13	54.1	13	56.4	-	-	2	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	17	70.8	17	73.8	-	-	-	-
Pneumonia and Influenza	21	87.4	21	91.1	-	-	-	-
Diabetes Mellitus	12	50.0	12	52.1	-	-	-	-
Chronic Liver Disease and Cirrhosis	6	25.0	6	26.0	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	4	*	4	*	-	-	2	*
Atherosclerosis	5	*	5	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Iron County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	13,118	Total Live Births:	128	Total Deaths:	204
Rank Among Counties:	72	Mothers Age <18:	6	Infant Deaths:	-
Per Square Mile:	11.3	Low Weight Births:	11	Neonatal Deaths:	-
		First Births:	48	Postneonatal Deaths:	-
				Perinatal Deaths:	-
				Fetal Deaths:	-
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	84	Divorces:	42		
Marriage Rate:	12.8	Divorce Rate:	6.4		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	128	9.8	124	9.6	-	-	4	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	6	46.9	4	*	-	-	2	*
Low Weight	11	85.9	11	88.7	-	-	-	-
Under 1,500 Grams	3	*	3	*	-	-	-	-
< 38 Weeks Gestation	28	218.8	27	217.7	-	-	1	*
Prenatal Care Began in 1st Trimester	107	835.9	104	838.7	-	-	3	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	-	-	-	-	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	-	-	-	-	-	-	-	-
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	204	98	106	200	97	103	-	-	-	4	1	3	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	-	3	-	-	-	-	-	4	2	8	23	164	-
White Male	-	-	-	-	-	-	-	3	1	6	11	76	-
White Female	-	-	-	-	-	-	-	1	1	2	12	87	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	3	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

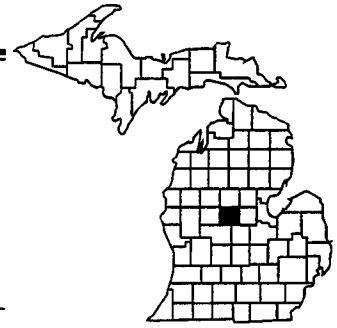
	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	204	1,555.1	200	1,544.2	-	-	3	*
Diseases of the Heart	85	648.0	85	656.3	-	-	-	-
Cancer	40	304.9	40	308.8	-	-	-	-
Cerebrovascular Diseases	9	68.6	9	69.5	-	-	-	-
Accidents and Adverse Effects	11	83.9	8	61.8	-	-	3	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	13	99.1	13	100.4	-	-	-	-
Pneumonia and Influenza	11	83.9	11	84.9	-	-	-	-
Diabetes Mellitus	7	53.4	6	46.3	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	1	*	1	*	-	-	-	-
Atherosclerosis	3	*	3	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



Profile of Isabella County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	57,047	Total Live Births:	585	Total Deaths:	374
Rank Among Counties:	31	Mothers Age <18:	22	Infant Deaths:	5
Per Square Mile:	98.9	Low Weight Births:	33	Neonatal Deaths:	4
		First Births:	248	Postneonatal Deaths:	1
				Perinatal Deaths:	6
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	399	Divorces:	240		
Marriage Rate:	14.0	Divorce Rate:	8.4		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	585	10.3	539	9.9	9	12.4	37	20.2
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	22	37.6	20	34.2	-	-	2	*
Low Weight	33	56.4	29	53.8	2	*	2	*
Under 1,500 Grams	6	10.3	4	*	-	-	2	*
< 38 Weeks Gestation	87	148.7	78	144.7	2	*	7	189.2
Prenatal Care Began in 1st Trimester	480	820.5	446	827.5	5	*	29	783.8

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	5	*	5	*	-	-	-	-
Neonatal Deaths	4	*	4	*	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	6	10.2	6	11.1	-	-	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	374	194	180	359	186	173	3	3	-	12	5	7	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	5	2	-	1	4	3	1	6	19	30	58	245	-
White Male	1	-	-	-	3	3	1	1	14	17	33	113	-
White Female	4	2	-	1	1	-	-	4	3	10	23	125	-
Black Male	-	-	-	-	-	-	-	1	1	-	-	1	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	1	1	1	2	-
Other Female	-	-	-	-	-	-	-	-	-	2	1	4	-

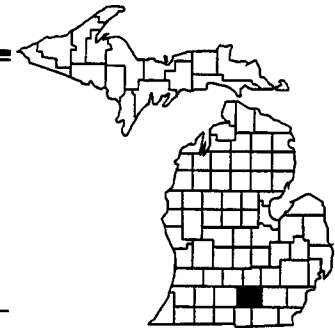
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	374	655.6	359	658.9	3	*	7	40.6
Diseases of the Heart	126	220.9	122	223.9	3	*	-	-
Cancer	81	142.0	79	145.0	-	-	-	-
Cerebrovascular Diseases	35	61.4	34	62.4	-	-	-	-
Accidents and Adverse Effects	17	29.8	16	29.4	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	12	21.0	12	22.0	-	-	-	-
Pneumonia and Influenza	14	24.5	14	25.7	-	-	-	-
Diabetes Mellitus	13	22.8	9	16.5	-	-	-	-
Chronic Liver Disease and Cirrhosis	5	*	4	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	5	*	5	*	-	-	1	*
Atherosclerosis	6	10.5	6	11.0	-	-	-	-
AIDS	3	*	3	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Jackson County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	153,282	Total Live Births:	2,156	Total Deaths:	1,483
Rank Among Counties:	13	Mothers Age <18:	130	Infant Deaths:	16
Per Square Mile:	217.5	Low Weight Births:	137	Neonatal Deaths:	11
		First Births:	897	Postneonatal Deaths:	5
				Perinatal Deaths:	23
				Fetal Deaths:	16
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	1,249	Divorces:	843		
Marriage Rate:	16.3	Divorce Rate:	11.0		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	2,156	14.1	1,928	13.9	186	14.6	25	16.8
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	130	60.3	95	44.1	32	14.8	1	*
Low Weight	137	63.5	114	59.1	19	102.2	2	*
Under 1,500 Grams	32	14.8	26	13.5	6	32.3	-	-
< 38 Weeks Gestation	291	135.0	245	127.1	37	198.9	7	280.0
Prenatal Care Began in 1st Trimester	1,546	717.1	1,432	742.7	86	462.4	17	680.0

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	16	7.4	14	7.3	1	*	1	*
Neonatal Deaths	11	5.1	10	5.2	1	*	-	-
Postneonatal Deaths	5	*	4	*	-	-	1	*
Perinatal Deaths	23	10.6	16	8.3	6	31.4	-	-
Fetal Deaths	16	7.4	10	5.2	5	*	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	1,483	752	731	1,383	683	700	90	61	29	10	8	2	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	16	1	3	-	6	12	11	50	76	118	238	952	-
White Male	9	1	1	-	1	9	5	26	38	72	122	399	-
White Female	5	-	2	-	4	3	3	16	21	37	95	514	-
Black Male	1	-	-	-	-	-	2	6	11	7	10	24	-
Black Female	-	-	-	-	-	-	1	2	6	2	6	12	-
Other Male	1	-	-	-	1	-	-	-	-	-	5	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	2	-

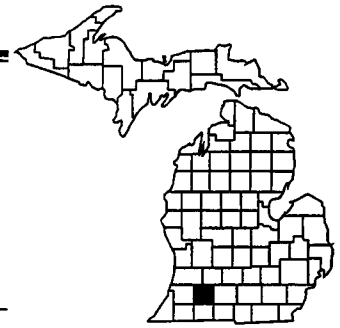
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,483	967.5	1,383	994.5	90	707.5	10	24.4
Diseases of the Heart	461	300.8	434	312.1	26	204.4	-	-
Cancer	373	243.3	345	248.1	26	204.4	-	-
Cerebrovascular Diseases	98	63.9	95	68.3	3	*	-	-
Accidents and Adverse Effects	60	39.1	56	40.3	3	*	5	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	107	69.8	103	74.1	4	*	-	-
Pneumonia and Influenza	79	51.5	74	53.2	5	*	-	-
Diabetes Mellitus	46	30.0	44	31.6	1	*	-	-
Chronic Liver Disease and Cirrhosis	15	9.8	15	10.8	-	-	-	-
Homicide	3	*	3	*	-	-	-	-
Suicide	21	13.7	20	14.4	1	*	-	-
Atherosclerosis	8	5.2	7	5.0	-	-	-	-
AIDS	19	12.4	7	5.0	12	94.3	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Kalamazoo County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	228,797	Total Live Births:	3,011	Total Deaths:	1,692
Rank Among Counties:	8	Mothers Age <18:	161	Infant Deaths:	30
Per Square Mile:	407.1	Low Weight Births:	229	Neonatal Deaths:	20
		First Births:	1,293	Postneonatal Deaths:	10
				Perinatal Deaths:	41
				Fetal Deaths:	24
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	1,935	Divorces:	1,066		
Marriage Rate:	16.9	Divorce Rate:	9.3		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	3,011	13.2	2,460	12.2	471	21.4	78	15.3
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	161	53.5	86	28.6	74	24.6	1	*
Low Weight	229	76.1	162	65.9	65	138.0	2	*
Under 1,500 Grams	46	15.3	25	10.2	20	42.5	1	*
< 38 Weeks Gestation	478	158.8	360	146.3	110	233.5	7	89.7
Prenatal Care Began in 1st Trimester	2,574	854.9	2,186	888.6	320	679.4	66	846.2

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	30	10.0	16	6.5	14	29.7	-	-
Neonatal Deaths	20	6.6	7	2.8	13	27.6	-	-
Postneonatal Deaths	10	3.3	9	3.7	1	*	-	-
Perinatal Deaths	41	13.5	24	9.7	17	35.6	-	-
Fetal Deaths	24	7.9	18	7.3	6	12.6	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	1,692	807	885	1,543	718	825	134	77	57	13	10	3	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	30	5	3	2	3	11	16	51	84	114	215	1,158	-
White Male	11	3	2	-	-	3	10	32	41	61	111	444	-
White Female	5	2	-	1	1	4	-	11	19	38	86	658	-
Black Male	7	-	1	1	2	3	3	6	13	7	10	24	-
Black Female	7	-	-	-	-	1	2	2	10	3	7	25	-
Other Male	-	-	-	-	-	-	1	-	-	4	1	4	-
Other Female	-	-	-	-	-	-	-	-	1	-	-	2	-

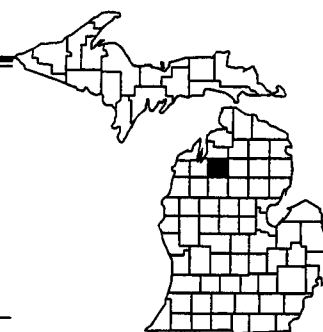
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,692	739.5	1,543	765.0	134	608.8	13	20.6
Diseases of the Heart	512	223.8	480	238.0	28	127.2	-	-
Cancer	396	173.1	363	180.0	27	122.7	2	*
Cerebrovascular Diseases	118	51.6	108	53.5	10	45.4	-	-
Accidents and Adverse Effects	77	33.7	69	34.2	7	31.8	6	9.5
Chronic Obstructive Pulmonary Diseases and Allied Conditions	79	34.5	75	37.2	4	*	-	-
Pneumonia and Influenza	67	29.3	61	30.2	5	*	-	-
Diabetes Mellitus	47	20.5	41	20.3	6	27.3	-	-
Chronic Liver Disease and Cirrhosis	21	9.2	18	8.9	2	*	-	-
Homicide	11	4.8	6	3.0	5	*	2	*
Suicide	17	7.4	15	7.4	2	*	-	-
Atherosclerosis	10	4.4	9	4.5	1	*	-	-
AIDS	15	6.6	11	5.5	4	*	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Kalkaska County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	14,541	Total Live Births:	214	Total Deaths:	136
Rank Among Counties:	67	Mothers Age <18:	13	Infant Deaths:	-
Per Square Mile:	25.8	Low Weight Births:	16	Neonatal Deaths:	-
		First Births:	75	Postneonatal Deaths:	-
				Perinatal Deaths:	2
				Fetal Deaths:	2
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	118	Divorces:	79		
Marriage Rate:	16.2	Divorce Rate:	10.9		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	214	14.7	205	14.3	1	*	7	34.8
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	13	60.7	12	56.1	1	*	-	-
Low Weight	16	74.8	14	68.3	-	-	2	*
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	35	163.6	35	170.7	-	-	-	-
Prenatal Care Began in 1st Trimester	160	747.7	156	761.0	-	-	3	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	-	-	-	-	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	2	*	2	*	-	-	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	136	73	63	134	72	62	-	-	-	2	1	1	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	-	1	1	-	-	2	1	4	5	12	25	85	-
White Male	-	1	-	-	-	1	1	2	3	10	12	42	-
White Female	-	-	1	-	-	1	-	2	1	2	12	43	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	1	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	1	-	-

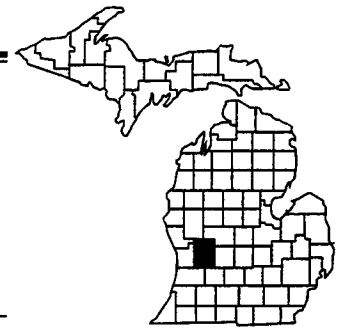
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	136	935.3	134	935.4	-	-	2	*
Diseases of the Heart	45	309.5	44	307.1	-	-	1	*
Cancer	36	247.6	36	251.3	-	-	-	-
Cerebrovascular Diseases	6	41.3	6	41.9	-	-	-	-
Accidents and Adverse Effects	8	55.0	8	55.8	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	6	41.3	5	*	-	-	-	-
Pneumonia and Influenza	3	*	3	*	-	-	-	-
Diabetes Mellitus	4	*	4	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	2	*	2	*	-	-	-	-
Atherosclerosis	8	55.0	8	55.8	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Kent County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	520,130	Total Live Births:	8,884	Total Deaths:	3,815
Rank Among Counties:	4	Mothers Age <18:	442	Infant Deaths:	70
Per Square Mile:	603.6	Low Weight Births:	605	Neonatal Deaths:	44
		First Births:	3,548	Postneonatal Deaths:	26
				Perinatal Deaths:	99
				Fetal Deaths:	66
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	4,810	Divorces:	2,233		
Marriage Rate:	18.5	Divorce Rate:	8.6		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	8,884	17.1	7,589	16.3	1,061	23.4	233	22.5
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	442	49.8	267	30.1	167	18.8	7	0.8
Low Weight	605	68.1	466	61.4	125	117.8	14	60.1
Under 1,500 Grams	124	14.0	92	12.1	30	28.3	2	*
< 38 Weeks Gestation	1,490	167.7	1,150	151.5	299	281.8	41	176.0
Prenatal Care Began in 1st Trimester	6,884	774.9	6,111	805.2	612	576.8	160	686.7

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	70	7.9	48	6.3	18	17.0	4	*
Neonatal Deaths	44	5.0	32	4.2	12	11.3	-	-
Postneonatal Deaths	26	2.9	16	2.1	6	5.7	4	*
Perinatal Deaths	99	11.1	65	8.5	27	25.1	3	*
Fetal Deaths	66	7.4	43	5.6	16	14.9	3	*

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	3,815	1,844	1,971	3,484	1,658	1,826	297	166	131	33	19	14	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	70	15	7	5	27	29	39	101	159	242	506	2,615	-
White Male	24	9	4	3	12	11	18	56	100	118	270	1,033	-
White Female	24	5	2	-	7	5	13	28	37	84	181	1,440	-
Black Male	8	-	-	2	4	9	4	12	12	20	27	68	-
Black Female	10	-	-	-	3	1	2	3	5	18	26	63	-
Other Male	2	1	1	-	1	3	1	2	3	1	1	3	-
Other Female	2	-	-	-	-	-	1	-	2	1	1	7	-

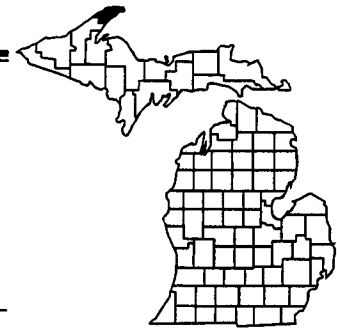
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	3,815	733.5	3,484	750.1	297	655.5	54	34.8
Diseases of the Heart	1,245	239.4	1,143	246.1	96	211.9	-	-
Cancer	866	166.5	791	170.3	71	156.7	6	3.9
Cerebrovascular Diseases	245	47.1	225	48.4	18	39.7	-	-
Accidents and Adverse Effects	172	33.1	159	34.2	6	13.2	26	16.7
Chronic Obstructive Pulmonary Diseases and Allied Conditions	151	29.0	142	30.6	7	15.4	-	-
Pneumonia and Influenza	172	33.1	168	36.2	4	*	3	*
Diabetes Mellitus	71	13.7	63	13.6	8	17.7	-	-
Chronic Liver Disease and Cirrhosis	32	6.2	27	5.8	5	*	-	-
Homicide	30	5.8	13	2.8	15	33.1	6	3.9
Suicide	55	10.6	50	10.8	4	*	1	*
Atherosclerosis	17	3.3	16	3.4	1	*	-	-
AIDS	34	6.5	28	6.0	6	13.2	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Profile of Keweenaw County**



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	1,878	Total Live Births:	14	Total Deaths:	23
Rank Among Counties:	83	Mothers Age <18:	1	Infant Deaths:	-
Per Square Mile:	3.5	Low Weight Births:	1	Neonatal Deaths:	-
		First Births:	5	Postneonatal Deaths:	-
				Perinatal Deaths:	-
				Fetal Deaths:	-
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	18	Divorces:	3		
Marriage Rate:	19.2	Divorce Rate:	*		

**NATALITY BY RACE OF MOTHER**

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	14	7.5	14	7.5	-	-	-	-
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	1	*	1	*	-	-	-	-
Low Weight	1	*	1	*	-	-	-	-
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	2	*	2	*	-	-	-	-
Prenatal Care Began in 1st Trimester	7	500.0	7	500.0	-	-	-	-

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

**INFANT AND PERINATAL MORTALITY BY RACE**

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	-	-	-	-	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	-	-	-	-	-	-	-	-
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

**MORTALITY**

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	23	10	13	23	10	13	-	-	-	-	-	-	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	-	-	-	-	-	-	-	-	-	2	2	19	-
White Male	-	-	-	-	-	-	-	-	-	-	1	9	-
White Female	-	-	-	-	-	-	-	-	-	2	1	10	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

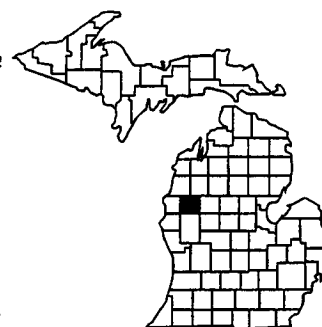
**LEADING CAUSES OF DEATH**

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	23	1,224.7	23	1,233.9	-	-	-	-
Diseases of the Heart	14	745.5	14	751.1	-	-	-	-
Cancer	4	*	4	*	-	-	-	-
Cerebrovascular Diseases	1	*	1	*	-	-	-	-
Accidents and Adverse Effects	-	-	-	-	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	-	-	-	-	-	-	-	-
Pneumonia and Influenza	1	*	1	*	-	-	-	-
Diabetes Mellitus	-	-	-	-	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	-	-	-	-	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Lake County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	9,632	Total Live Births:	108	Total Deaths:	171
Rank Among Counties:	76	Mothers Age <18:	9	Infant Deaths:	-
Per Square Mile:	17.0	Low Weight Births:	14	Neonatal Deaths:	-
		First Births:	50	Postneonatal Deaths:	-
				Perinatal Deaths:	1
				Fetal Deaths:	1
MARRIAGE		DIVORCE			
Marriages:	80	Divorces:	38		
Marriage Rate:	16.6	Divorce Rate:	7.9		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	108	11.2	99	11.9	9	7.8	-	-
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	9	83.3	9	83.3	-	-	-	-
Low Weight	14	129.6	12	121.2	2	*	-	-
Under 1,500 Grams	4	*	4	*	-	-	-	-
< 38 Weeks Gestation	20	185.2	17	171.7	3	*	-	-
Prenatal Care Began in 1st Trimester	74	685.2	70	707.1	4	*	-	-

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	-	-	-	-	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	1	*	1	*	-	-	-	-
Fetal Deaths	1	*	1	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	171	81	90	142	74	68	26	6	20	2	1	1	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	-	-	1	-	2	1	-	3	6	15	41	102	-
White Male	-	-	1	-	-	-	-	1	2	12	23	35	-
White Female	-	-	-	-	2	1	-	1	3	2	16	43	-
Black Male	-	-	-	-	-	-	-	1	-	-	-	5	-
Black Female	-	-	-	-	-	-	1	-	1	1	17	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	1	-

LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	171	1,775.3	142	1,703.7	26	2,249.1	3	*
Diseases of the Heart	70	726.7	56	671.9	11	951.6	-	-
Cancer	46	477.6	40	479.9	6	519.0	-	-
Cerebrovascular Diseases	9	93.4	6	72.0	3	*	-	-
Accidents and Adverse Effects	12	124.6	11	132.0	1	*	3	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	5	*	5	*	-	-	-	-
Pneumonia and Influenza	4	*	4	*	-	-	-	-
Diabetes Mellitus	1	*	1	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	1	*	1	*	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	2	*	2	*	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Lapeer County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	81,249	Total Live Births:	1,120	Total Deaths:	518
Rank Among Counties:	22	Mothers Age <18:	37	Infant Deaths:	3
Per Square Mile:	123.5	Low Weight Births:	60	Neonatal Deaths:	2
		First Births:	429	Postneonatal Deaths:	1
				Perinatal Deaths:	6
				Fetal Deaths:	4
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	677	Divorces:	380		
Marriage Rate:	16.7	Divorce Rate:	9.4		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,120	13.8	1,109	13.9	2	*	7	9.0
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	37	33.0	36	32.1	-	-	1	*
Low Weight	60	53.6	59	53.2	-	-	1	*
Under 1,500 Grams	6	5.4	6	5.4	-	-	-	-
< 38 Weeks Gestation	167	149.1	164	147.9	1	*	2	*
Prenatal Care Began in 1st Trimester	941	840.2	933	841.3	2	*	5	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	3	*	3	*	-	-	-	-
Neonatal Deaths	2	*	2	*	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	6	5.3	6	5.4	-	-	-	-
Fetal Deaths	4	*	4	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	518	285	233	516	285	231	1	-	1	1	-	1	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	3	1	2	1	2	4	4	19	31	43	82	326	-
White Male	1	-	1	-	1	2	3	11	26	26	48	166	-
White Female	2	1	1	1	1	2	1	8	5	17	33	159	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	1	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	1	-

LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	518	637.5	516	646.5	1	*	6	24.3
Diseases of the Heart	171	210.5	170	213.0	-	-	1	*
Cancer	147	180.9	146	182.9	1	*	-	-
Cerebrovascular Diseases	45	55.4	45	56.4	-	-	-	-
Accidents and Adverse Effects	34	41.8	34	42.6	-	-	3	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	16	19.7	16	20.0	-	-	-	-
Pneumonia and Influenza	12	14.8	12	15.0	-	-	-	-
Diabetes Mellitus	10	12.3	10	12.5	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	2	*	2	*	-	-	-	-
Suicide	1	*	1	*	-	-	-	-
Atherosclerosis	5	*	5	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



Profile of Leelanau County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	18,135	Total Live Births:	189	Total Deaths:	171
Rank Among Counties:	64	Mothers Age <18:	2	Infant Deaths:	1
Per Square Mile:	53.1	Low Weight Births:	11	Neonatal Deaths:	-
		First Births:	72	Postneonatal Deaths:	1
				Perinatal Deaths:	-
				Fetal Deaths:	-
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	131	Divorces:	79		
Marriage Rate:	14.4	Divorce Rate:	8.7		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	189	10.4	174	10.0	1	*	13	18.9
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	2	*	2	*	-	-	-	-
Low Weight	11	58.2	11	63.2	-	-	-	-
Under 1,500 Grams	2	*	2	*	-	-	-	-
< 38 Weeks Gestation	30	158.7	30	172.4	-	-	-	-
Prenatal Care Began in 1st Trimester	144	761.9	138	793.1	-	-	5	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	1	*	1	*	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	-	-	-	-	-	-	-	-
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	171	83	88	165	79	86	-	-	-	6	4	2	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	-	-	-	-	-	-	3	3	10	31	123	-
White Male	-	-	-	-	-	-	-	3	2	6	17	51	-
White Female	1	-	-	-	-	-	-	-	1	3	12	69	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	1	1	2	-
Other Female	-	-	-	-	-	-	-	-	-	-	1	1	-

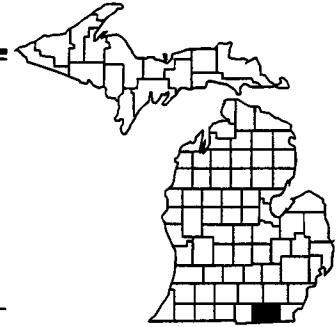
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	171	942.9	165	947.2	-	-	-	-
Diseases of the Heart	46	253.7	45	258.3	-	-	-	-
Cancer	48	264.7	44	252.6	-	-	-	-
Cerebrovascular Diseases	15	82.7	15	86.1	-	-	-	-
Accidents and Adverse Effects	4	*	4	*	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	10	55.1	10	57.4	-	-	-	-
Pneumonia and Influenza	10	55.1	10	57.4	-	-	-	-
Diabetes Mellitus	2	*	2	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	-	-	-	-	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Lenawee County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	95,674	Total Live Births:	1,199	Total Deaths:	887
Rank Among Counties:	21	Mothers Age <18:	64	Infant Deaths:	11
Per Square Mile:	127.1	Low Weight Births:	91	Neonatal Deaths:	9
		First Births:	503	Postneonatal Deaths:	2
				Perinatal Deaths:	10
				Fetal Deaths:	4
MARRIAGE		DIVORCE			
Marriages:	606	Divorces:	454		
Marriage Rate:	12.7	Divorce Rate:	9.5		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,199	12.5	1,161	12.5	19	10.4	10	9.7
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	64	53.4	58	48.4	5	*	1	*
Low Weight	91	75.9	89	76.7	2	*	-	-
Under 1,500 Grams	12	10.0	12	10.3	-	-	-	-
< 38 Weeks Gestation	231	192.7	226	194.7	2	*	2	*
Prenatal Care Began in 1st Trimester	981	818.2	954	821.7	10	526.3	9	900.0

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	11	9.2	10	8.6	1	*	-	-
Neonatal Deaths	9	7.5	9	7.8	-	-	-	-
Postneonatal Deaths	2	*	1	*	1	*	-	-
Perinatal Deaths	10	8.3	10	8.6	-	-	-	-
Fetal Deaths	4	*	4	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	887	434	453	880	429	451	3	1	2	4	4	-	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	11	1	1	2	4	9	3	16	40	57	121	622	-
White Male	4	1	1	-	2	8	2	12	24	37	69	269	-
White Female	6	-	-	2	1	1	1	4	14	20	50	352	-
Black Male	-	-	-	-	-	-	-	-	1	-	-	-	-
Black Female	1	-	-	-	-	-	-	-	-	-	1	-	-
Other Male	-	-	-	-	1	-	-	-	1	-	1	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

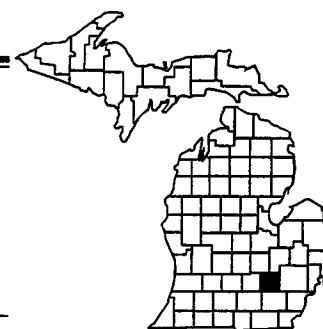
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	887	927.1	880	948.2	3	*	8	27.8
Diseases of the Heart	280	292.7	279	300.6	-	-	1	*
Cancer	190	198.6	189	203.6	-	-	-	-
Cerebrovascular Diseases	68	71.1	67	72.2	1	*	-	-
Accidents and Adverse Effects	32	33.4	31	33.4	-	-	5	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	52	54.4	52	56.0	-	-	-	-
Pneumonia and Influenza	35	36.6	35	37.7	-	-	-	-
Diabetes Mellitus	24	25.1	24	25.9	-	-	-	-
Chronic Liver Disease and Cirrhosis	6	6.3	6	6.5	-	-	-	-
Homicide	3	*	3	*	-	-	-	-
Suicide	10	10.5	10	10.8	-	-	-	-
Atherosclerosis	28	29.3	28	30.2	-	-	-	-
AIDS	2	*	2	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Livingston County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	129,066	Total Live Births:	1,806	Total Deaths:	754
Rank Among Counties:	17	Mothers Age <18:	31	Infant Deaths:	7
Per Square Mile:	224.7	Low Weight Births:	96	Neonatal Deaths:	4
		First Births:	731	Postneonatal Deaths:	3
				Perinatal Deaths:	7
				Fetal Deaths:	3
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	994	Divorces:	611		
Marriage Rate:	15.4	Divorce Rate:	9.5		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,806	14.0	1,745	13.8	2	*	25	16.7
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	31	17.2	30	16.6	-	-	-	-
Low Weight	96	53.2	95	54.4	-	-	-	-
Under 1,500 Grams	16	8.9	16	9.2	-	-	-	-
< 38 Weeks Gestation	274	151.7	269	154.2	-	-	2	*
Prenatal Care Began in 1st Trimester	1,589	879.8	1,539	881.9	2	*	22	880.0

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	7	3.9	7	4.0	-	-	-	-
Neonatal Deaths	4	*	4	*	-	-	-	-
Postneonatal Deaths	3	*	3	*	-	-	-	-
Perinatal Deaths	7	3.9	7	4.0	-	-	-	-
Fetal Deaths	3	*	3	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	754	366	388	746	362	384	3	2	1	5	2	3	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	7	2	2	1	4	6	4	23	35	62	125	483	-
White Male	4	2	1	1	1	5	1	13	24	43	68	199	-
White Female	3	-	1	-	2	1	3	10	11	18	54	281	-
Black Male	-	-	-	-	-	-	-	-	-	1	1	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	1	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	2	-
Other Female	-	-	-	-	1	-	-	-	-	-	1	1	-

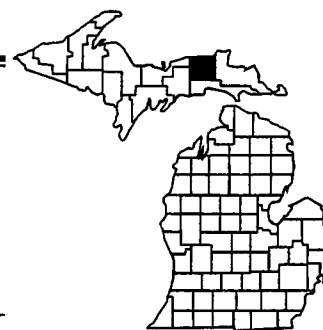
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	754	584.2	746	588.7	3	*	9	23.8
Diseases of the Heart	236	182.9	235	185.4	-	-	-	-
Cancer	190	147.2	187	147.6	2	*	-	-
Cerebrovascular Diseases	43	33.3	42	33.1	1	*	1	*
Accidents and Adverse Effects	38	29.4	37	29.2	-	-	5	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	35	27.1	34	26.8	-	-	-	-
Pneumonia and Influenza	20	15.5	20	15.8	-	-	-	-
Diabetes Mellitus	20	15.5	20	15.8	-	-	-	-
Chronic Liver Disease and Cirrhosis	10	7.7	10	7.9	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	13	10.1	12	9.5	-	-	1	*
Atherosclerosis	3	*	3	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Luce County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	5,563	Total Live Births:	64	Total Deaths:	67
Rank Among Counties:	82	Mothers Age <18:	2	Infant Deaths:	-
Per Square Mile:	6.2	Low Weight Births:	6	Neonatal Deaths:	-
		First Births:	25	Postneonatal Deaths:	-
				Perinatal Deaths:	1
				Fetal Deaths:	1
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	52	Divorces:	30		
Marriage Rate:	18.7	Divorce Rate:	10.8		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	64	11.5	57	11.0	-	-	7	18.3
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	2	*	2	*	-	-	-	-
Low Weight	6	93.8	5	*	-	-	1	*
Under 1,500 Grams	2	*	2	*	-	-	-	-
< 38 Weeks Gestation	9	140.6	8	140.4	-	-	1	*
Prenatal Care Began in 1st Trimester	50	781.3	44	771.9	-	-	6	857.1

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	-	-	-	-	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	1	*	1	*	-	-	-	-
Fetal Deaths	1	*	1	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	67	31	36	65	30	35	-	-	-	2	1	1	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	-	-	-	-	-	-	-	-	2	7	13	45	-
White Male	-	-	-	-	-	-	-	-	1	6	6	17	-
White Female	-	-	-	-	-	-	-	-	1	1	5	28	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	1	-	-

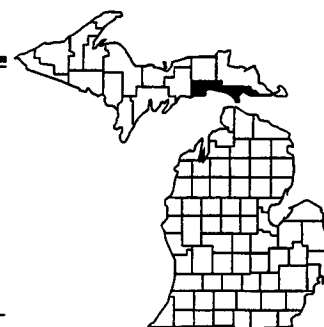
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	67	1,204.4	65	1,255.1	-	-	-	-
Diseases of the Heart	19	341.5	18	347.6	-	-	-	-
Cancer	13	233.7	13	251.0	-	-	-	-
Cerebrovascular Diseases	5	*	4	*	-	-	-	-
Accidents and Adverse Effects	1	*	1	*	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	1	*	1	*	-	-	-	-
Pneumonia and Influenza	3	*	3	*	-	-	-	-
Diabetes Mellitus	2	*	2	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	-	-	-	-	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Mackinac County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	10,911	Total Live Births:	122	Total Deaths:	119
Rank Among Counties:	73	Mothers Age <18:	9	Infant Deaths:	-
Per Square Mile:	10.6	Low Weight Births:	4	Neonatal Deaths:	-
		First Births:	55	Postneonatal Deaths:	-
				Perinatal Deaths:	1
				Fetal Deaths:	1
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	188	Divorces:	66		
Marriage Rate:	34.5	Divorce Rate:	12.1		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	122	11.2	90	10.2	2	*	30	14.6
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	9	73.8	4	*	1	*	4	*
Low Weight	4	*	3	*	-	-	1	*
Under 1,500 Grams	1	*	1	*	-	-	-	*
< 38 Weeks Gestation	17	139.3	12	133.3	-	-	5	*
Prenatal Care Began in 1st Trimester	103	844.3	80	888.9	1	*	22	733.3

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	-	-	-	-	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	1	*	1	*	-	-	-	-
Fetal Deaths	1	*	1	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	119	64	55	105	57	48	-	-	-	13	6	7	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	-	-	1	-	-	-	-	2	4	12	22	78	-
White Male	-	-	1	-	-	-	-	2	4	5	12	33	-
White Female	-	-	-	-	-	-	-	-	-	4	6	38	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	2	1	3	-
Other Female	-	-	-	-	-	-	-	-	-	-	3	4	-

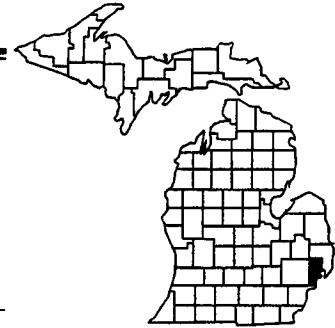
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	119	1,090.6	105	1,185.5	-	-	1	*
Diseases of the Heart	41	375.8	38	429.0	-	-	-	-
Cancer	34	311.6	28	316.1	-	-	1	*
Cerebrovascular Diseases	8	73.3	8	90.3	-	-	-	-
Accidents and Adverse Effects	3	*	3	*	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	6	55.0	5	*	-	-	-	-
Pneumonia and Influenza	2	*	1	*	-	-	-	-
Diabetes Mellitus	6	55.0	6	67.7	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	-	-	-	-	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Macomb County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	728,556	Total Live Births:	9,735	Total Deaths:	6,404
Rank Among Counties:	3	Mothers Age <18:	205	Infant Deaths:	64
Per Square Mile:	1,510.2	Low Weight Births:	652	Neonatal Deaths:	48
		First Births:	4,139	Postneonatal Deaths:	16
				Perinatal Deaths:	94
				Fetal Deaths:	53
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	6,155	Divorces:	2,693		
Marriage Rate:	16.9	Divorce Rate:	7.4		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	9,735	13.4	9,206	13.1	223	20.3	215	16.0
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	205	21.1	174	17.9	20	2.1	9	0.9
Low Weight	652	67.0	610	66.3	24	107.6	11	51.2
Under 1,500 Grams	131	13.5	121	13.1	9	40.4	-	-
< 38 Weeks Gestation	1,593	163.6	1,474	160.1	61	273.5	36	167.4
Prenatal Care Began in 1st Trimester	8,759	899.7	8,352	907.2	162	726.5	179	832.6

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	64	6.6	60	6.5	3	*	1	*
Neonatal Deaths	48	4.9	45	4.9	3	*	-	-
Postneonatal Deaths	16	1.6	15	1.6	-	-	1	*
Perinatal Deaths	94	9.6	86	9.3	5	*	1	*
Fetal Deaths	53	5.4	47	5.1	3	*	1	*

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	6,404	3,125	3,279	6,266	3,055	3,211	84	50	34	53	19	34	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	64	14	8	7	28	33	48	166	266	472	1,013	4,285	-
White Male	39	9	5	2	18	20	34	113	155	257	584	1,819	-
White Female	21	3	3	4	9	10	11	47	92	196	403	2,412	-
Black Male	2	1	-	-	1	2	-	2	6	5	10	21	-
Black Female	1	-	-	-	-	-	2	2	3	4	8	14	-
Other Male	-	-	-	-	-	1	1	2	4	2	3	6	-
Other Female	1	1	-	1	-	-	-	-	6	8	4	13	-

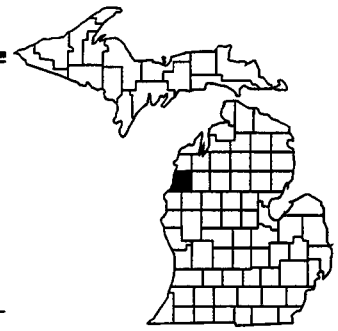
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	6,404	879.0	6,266	889.9	84	764.3	57	32.7
Diseases of the Heart	2,313	317.5	2,271	322.5	27	245.7	2	*
Cancer	1,629	223.6	1,596	226.7	18	163.8	5	*
Cerebrovascular Diseases	473	64.9	463	65.8	6	54.6	-	-
Accidents and Adverse Effects	174	23.9	161	22.9	6	54.6	21	12.0
Chronic Obstructive Pulmonary Diseases and Allied Conditions	264	36.2	260	36.9	2	*	1	*
Pneumonia and Influenza	208	28.5	205	29.1	3	*	1	*
Diabetes Mellitus	126	17.3	123	17.5	2	*	-	-
Chronic Liver Disease and Cirrhosis	82	11.3	81	11.5	-	-	-	-
Homicide	26	3.6	23	3.3	3	*	7	4.0
Suicide	74	10.2	72	10.2	1	*	7	4.0
Atherosclerosis	101	13.9	101	14.3	-	-	-	-
AIDS	44	6.0	38	5.4	5	*	2	*

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Manistee County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	22,632	Total Live Births:	264	Total Deaths:	299
Rank Among Counties:	57	Mothers Age <18:	12	Infant Deaths:	3
Per Square Mile:	41.7	Low Weight Births:	17	Neonatal Deaths:	1
		First Births:	105	Postneonatal Deaths:	2
				Perinatal Deaths:	4
				Fetal Deaths:	3
MARRIAGE		DIVORCE			
Marriages:	164	Divorces:	103		
Marriage Rate:	14.5	Divorce Rate:	9.1		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
Live Births	264	11.7	258	11.6	1	*	3	*	
		All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio	
Mothers Age <18	12	45.5	12	45.5	-	-	-	-	
Low Weight	17	64.4	16	62.0	-	-	1	*	
Under 1,500 Grams	3	*	2	*	-	-	1	*	
< 38 Weeks Gestation	48	181.8	45	174.4	-	-	2	*	
Prenatal Care Began in 1st Trimester	209	791.7	205	794.6	1	*	2	*	

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	3	*	2	*	-	-	1	*
Neonatal Deaths	1	*	-	-	-	-	1	*
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	4	*	3	*	-	-	1	*
Fetal Deaths	3	*	3	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	299	145	154	294	143	151	2	1	1	3	1	2	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	3	-	1	-	1	-	1	6	9	13	40	225	-
White Male	1	-	-	-	1	-	1	4	8	10	22	96	-
White Female	1	-	1	-	-	-	-	2	1	2	18	126	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Black Female	-	-	-	-	-	-	-	-	-	1	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	1	-	-	-	-	-	-	-	-	-	-	1	-

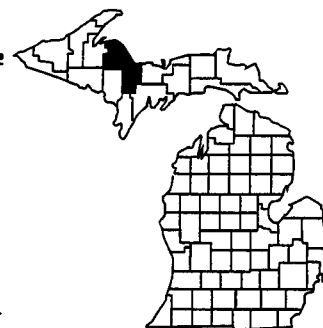
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	299	1,321.1	294	1,319.9	2	*	2	*
Diseases of the Heart	120	530.2	120	538.7	-	-	-	-
Cancer	59	260.7	59	264.9	-	-	-	-
Cerebrovascular Diseases	23	101.6	23	103.3	-	-	-	-
Accidents and Adverse Effects	15	66.3	15	67.3	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	10	44.2	10	44.9	-	-	-	-
Pneumonia and Influenza	1	*	1	*	-	-	-	-
Diabetes Mellitus	9	39.8	7	31.4	1	*	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	9	39.8	9	40.4	-	-	-	-
Atherosclerosis	9	39.8	7	31.4	1	*	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Marquette County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	70,684	Total Live Births:	716	Total Deaths:	598
Rank Among Counties:	26	Mothers Age <18:	21	Infant Deaths:	5
Per Square Mile:	38.8	Low Weight Births:	33	Neonatal Deaths:	5
		First Births:	309	Postneonatal Deaths:	-
				Perinatal Deaths:	5
				Fetal Deaths:	-
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	561	Divorces:	304		
Marriage Rate:	15.9	Divorce Rate:	8.6		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	716	10.1	688	10.1	1	*	27	15.6
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	21	29.3	20	27.9	-	-	1	*
Low Weight	33	46.1	30	43.6	-	-	3	*
Under 1,500 Grams	11	15.4	11	16.0	-	-	-	-
< 38 Weeks Gestation	96	134.1	85	123.5	-	-	11	407.4
Prenatal Care Began in 1st Trimester	644	899.4	621	902.6	1	*	22	814.8

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	5	*	4	*	-	-	1	*
Neonatal Deaths	5	*	4	*	-	-	1	*
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	5	*	4	*	-	-	1	*
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	598	307	291	589	303	286	-	-	-	9	4	5	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	5	2	-	4	2	3	6	12	25	42	79	418	-
White Male	2	1	-	2	2	2	4	9	18	31	37	195	-
White Female	2	1	-	2	-	1	2	3	7	8	41	219	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	2	-	2	-
Other Female	1	-	-	-	-	-	-	-	1	-	1	2	-

LEADING CAUSES OF DEATH

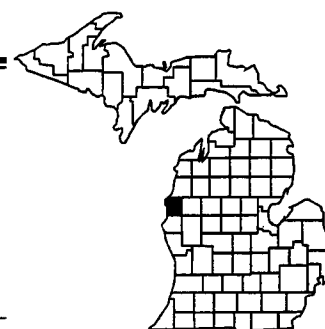
	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	598	846.0	589	868.5	-	-	8	39.3
Diseases of the Heart	188	266.0	187	275.7	-	-	-	-
Cancer	140	198.1	136	200.5	-	-	1	*
Cerebrovascular Diseases	55	77.8	54	79.6	-	-	-	-
Accidents and Adverse Effects	27	38.2	27	39.8	-	-	3	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	28	39.6	28	41.3	-	-	-	-
Pneumonia and Influenza	26	36.8	26	38.3	-	-	-	-
Diabetes Mellitus	14	19.8	14	20.6	-	-	-	-
Chronic Liver Disease and Cirrhosis	9	12.7	9	13.3	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	12	17.0	12	17.7	-	-	1	*
Atherosclerosis	3	*	3	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



Profile of Mason County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	27,219	Total Live Births:	327	Total Deaths:	311
Rank Among Counties:	49	Mothers Age <18:	27	Infant Deaths:	3
Per Square Mile:	55.0	Low Weight Births:	22	Neonatal Deaths:	3
		First Births:	139	Postneonatal Deaths:	-
				Perinatal Deaths:	4
				Fetal Deaths:	1
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	221	Divorces:	151		
Marriage Rate:	16.2	Divorce Rate:	11.1		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	327	12.0	323	12.1	1	*	3	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	27	82.6	27	82.6	-	-	-	-
Low Weight	22	67.3	22	68.1	-	-	-	-
Under 1,500 Grams	3	*	3	*	-	-	-	-
< 38 Weeks Gestation	58	177.4	57	176.5	-	-	1	*
Prenatal Care Began in 1st Trimester	253	773.7	250	774.0	1	*	2	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	3	*	3	*	-	-	-	-
Neonatal Deaths	3	*	3	*	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	4	*	4	*	-	-	-	-
Fetal Deaths	1	*	1	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

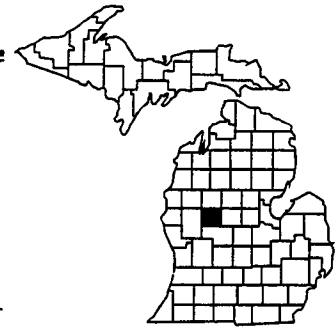
	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	311	163	148	309	162	147	1	-	1	1	1	-	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	3	-	-	-	1	4	2	7	13	20	42	219	-
White Male	1	-	-	-	-	4	2	4	9	13	27	102	-
White Female	2	-	-	-	1	-	-	3	4	7	15	115	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	311	1,142.6	309	1,158.2	1	*	1	*
Diseases of the Heart	99	363.7	98	367.3	-	-	-	-
Cancer	72	264.5	71	266.1	1	*	-	-
Cerebrovascular Diseases	25	91.8	25	93.7	-	-	-	-
Accidents and Adverse Effects	8	29.4	8	30.0	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	17	62.5	17	63.7	-	-	-	-
Pneumonia and Influenza	8	29.4	8	30.0	-	-	-	-
Diabetes Mellitus	12	44.1	12	45.0	-	-	-	-
Chronic Liver Disease and Cirrhosis	4	*	4	*	-	-	-	-
Homicide	3	*	3	*	-	-	-	-
Suicide	1	*	1	*	-	-	-	-
Atherosclerosis	4	*	4	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Profile of Mecosta County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	38,614	Total Live Births:	458	Total Deaths:	293
Rank Among Counties:	41	Mothers Age <18:	17	Infant Deaths:	3
Per Square Mile:	68.9	Low Weight Births:	24	Neonatal Deaths:	1
		First Births:	175	Postneonatal Deaths:	2
				Perinatal Deaths:	1
				Fetal Deaths:	-
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	257	Divorces:	136		
Marriage Rate:	13.3	Divorce Rate:	7.0		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	458	11.9	426	11.5	21	19.4	10	18.3
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	17	37.1	16	34.9	1	*	-	-
Low Weight	24	52.4	22	51.6	2	*	-	-
Under 1,500 Grams	2	*	2	*	-	-	-	-
< 38 Weeks Gestation	54	117.9	48	112.7	6	285.7	-	-
Prenatal Care Began in 1st Trimester	346	755.5	325	762.9	12	571.4	9	900.0

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	3	*	3	*	-	-	-	-
Neonatal Deaths	1	*	1	*	-	-	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	1	*	1	*	-	-	-	-
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	293	164	129	286	160	126	3	3	-	4	1	3	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	3	1	-	-	-	2	1	4	10	27	40	205	-
White Male	2	-	-	-	-	1	-	2	7	18	23	107	-
White Female	1	1	-	-	-	1	-	1	3	9	15	95	-
Black Male	-	-	-	-	-	-	1	-	-	-	-	2	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	-	-
Other Female	-	-	-	-	-	-	1	-	-	-	1	1	-

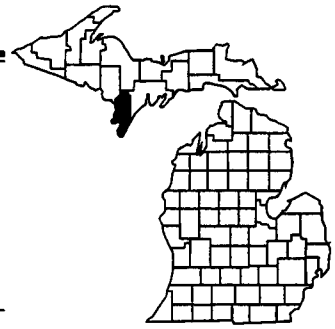
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	293	758.8	286	773.3	3	*	1	*
Diseases of the Heart	101	261.6	99	267.7	1	*	-	-
Cancer	77	199.4	75	202.8	-	-	-	-
Cerebrovascular Diseases	17	44.0	15	40.6	1	*	-	-
Accidents and Adverse Effects	15	38.8	14	37.9	1	*	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	12	31.1	12	32.4	-	-	-	-
Pneumonia and Influenza	15	38.8	15	40.6	-	-	-	-
Diabetes Mellitus	7	18.1	7	18.9	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	3	*	3	*	-	-	-	-
Suicide	2	*	2	*	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Menominee County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	24,525	Total Live Births:	262	Total Deaths:	287
Rank Among Counties:	52	Mothers Age <18:	12	Infant Deaths:	2
Per Square Mile:	23.5	Low Weight Births:	13	Neonatal Deaths:	1
		First Births:	95	Postneonatal Deaths:	1
				Perinatal Deaths:	3
				Fetal Deaths:	2
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	284	Divorces:	82		
Marriage Rate:	23.2	Divorce Rate:	6.7		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	262	10.7	244	10.2	-	-	18	36.6
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	12	45.8	11	42.0	-	-	1	*
Low Weight	13	49.6	13	53.3	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	39	148.9	34	139.3	-	-	5	*
Prenatal Care Began in 1st Trimester	176	671.8	168	688.5	-	-	8	444.4

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	2	*	2	*	-	-	-	-
Neonatal Deaths	1	*	1	*	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	3	*	3	*	-	-	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	287	138	149	285	137	148	-	-	-	2	1	1	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	2	-	-	-	3	3	1	9	5	11	37	216	-
White Male	1	-	-	-	2	3	-	7	4	7	23	90	-
White Female	1	-	-	-	-	-	1	2	1	4	13	126	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	1	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	1	-	-

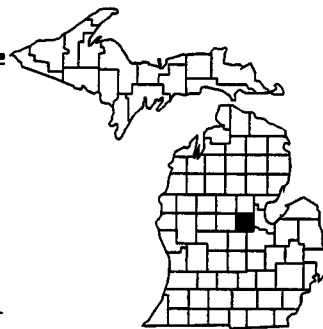
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	287	1,170.2	285	1,186.3	-	-	3	*
Diseases of the Heart	101	411.8	101	420.4	-	-	-	-
Cancer	58	236.5	58	241.4	-	-	1	*
Cerebrovascular Diseases	21	85.6	20	83.3	-	-	-	-
Accidents and Adverse Effects	10	40.8	10	41.6	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	17	69.3	17	70.8	-	-	-	-
Pneumonia and Influenza	11	44.9	11	45.8	-	-	-	-
Diabetes Mellitus	14	57.1	14	58.3	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	6	24.5	6	25.0	-	-	-	-
Atherosclerosis	12	48.9	12	50.0	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Midland County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	79,235	Total Live Births:	1,021	Total Deaths:	569
Rank Among Counties:	23	Mothers Age <18:	17	Infant Deaths:	2
Per Square Mile:	150.9	Low Weight Births:	56	Neonatal Deaths:	-
		First Births:	404	Postneonatal Deaths:	2
				Perinatal Deaths:	4
				Fetal Deaths:	4
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	524	Divorces:	342		
Marriage Rate:	13.2	Divorce Rate:	8.6		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,021	12.9	999	13.0	9	11.0	13	9.7
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	17	16.7	17	16.7	-	-	-	-
Low Weight	56	54.8	56	56.1	-	-	-	-
Under 1,500 Grams	6	5.9	6	6.0	-	-	-	-
< 38 Weeks Gestation	158	154.8	156	156.2	1	*	1	*
Prenatal Care Began in 1st Trimester	930	910.9	913	913.9	5	*	12	923.1

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	2	*	2	*	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	4	*	4	*	-	-	-	-
Fetal Deaths	4	*	4	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	569	298	271	563	295	268	3	1	2	3	2	1	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	2	1	2	1	5	4	6	15	27	40	82	384	-
White Male	1	-	1	1	4	3	5	12	23	26	51	168	-
White Female	1	1	1	-	1	1	-	3	4	13	29	214	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Black Female	-	-	-	-	-	-	-	-	1	-	1	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	1	-
Other Female	-	-	-	-	-	1	-	-	-	-	-	-	-

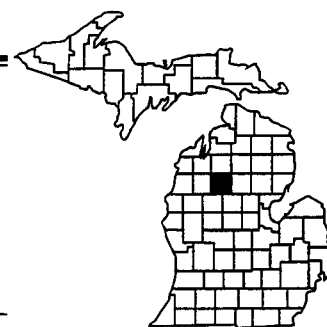
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	569	718.1	563	730.5	3	*	9	40.3
Diseases of the Heart	180	227.2	179	232.2	1	*	-	-
Cancer	126	159.0	124	160.9	1	*	1	*
Cerebrovascular Diseases	33	41.6	33	42.8	-	-	-	-
Accidents and Adverse Effects	28	35.3	27	35.0	-	-	7	31.4
Chronic Obstructive Pulmonary Diseases and Allied Conditions	25	31.6	25	32.4	-	-	-	-
Pneumonia and Influenza	32	40.4	31	40.2	1	*	-	-
Diabetes Mellitus	17	21.5	17	22.1	-	-	-	-
Chronic Liver Disease and Cirrhosis	9	11.4	9	11.7	-	-	-	-
Homicide	3	*	3	*	-	-	-	-
Suicide	9	11.4	9	11.7	-	-	-	-
Atherosclerosis	11	13.9	10	13.0	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Missaukee County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	13,353	Total Live Births:	176	Total Deaths:	105
Rank Among Counties:	70	Mothers Age <18:	7	Infant Deaths:	2
Per Square Mile:	23.6	Low Weight Births:	15	Neonatal Deaths:	2
		First Births:	77	Postneonatal Deaths:	-
				Perinatal Deaths:	2
				Fetal Deaths:	-
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	89	Divorces:	70		
Marriage Rate:	13.3	Divorce Rate:	10.5		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	176	13.2	174	13.2	-	-	2	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	7	39.8	7	39.8	-	-	-	-
Low Weight	15	85.2	15	86.2	-	-	-	-
Under 1,500 Grams	2	*	2	*	-	-	-	-
< 38 Weeks Gestation	21	119.3	21	120.7	-	-	-	-
Prenatal Care Began in 1st Trimester	137	778.4	137	787.4	-	-	-	-

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	2	*	2	*	-	-	-	-
Neonatal Deaths	2	*	2	*	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	2	*	2	*	-	-	-	-
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	105	57	48	104	57	47	-	-	-	1	-	1	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	2	-	-	-	-	-	-	4	9	1	20	69	-
White Male	1	-	-	-	-	-	-	3	6	-	16	31	-
White Female	1	-	-	-	-	-	-	1	3	-	4	38	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	1	-	-	-

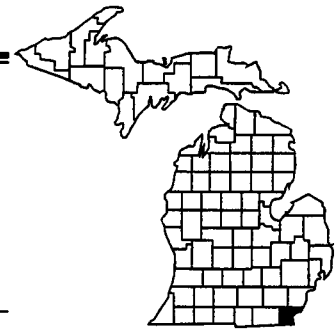
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	105	786.3	104	788.2	-	-	-	-
Diseases of the Heart	33	247.1	33	250.1	-	-	-	-
Cancer	30	224.7	29	219.8	-	-	-	-
Cerebrovascular Diseases	10	74.9	10	75.8	-	-	-	-
Accidents and Adverse Effects	4	*	4	*	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	6	44.9	6	45.5	-	-	-	-
Pneumonia and Influenza	5	*	5	*	-	-	-	-
Diabetes Mellitus	-	-	-	-	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	3	*	3	*	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Monroe County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	137,708	Total Live Births:	1,805	Total Deaths:	1,124
Rank Among Counties:	16	Mothers Age <18:	81	Infant Deaths:	14
Per Square Mile:	247.4	Low Weight Births:	118	Neonatal Deaths:	11
		First Births:	724	Postneonatal Deaths:	3
				Perinatal Deaths:	11
				Fetal Deaths:	3
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	1,003	Divorces:	605		
Marriage Rate:	14.6	Divorce Rate:	8.8		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,805	13.1	1,740	13.0	33	13.4	20	15.4
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	81	44.9	74	41.0	6	3.3	1	*
Low Weight	118	65.4	105	60.3	10	303.0	3	*
Under 1,500 Grams	23	12.7	22	12.6	1	*	-	-
< 38 Weeks Gestation	319	176.7	303	174.1	5	*	8	400.0
Prenatal Care Began in 1st Trimester	1,611	892.5	1,561	897.1	25	757.6	15	750.0

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	14	7.8	12	6.9	2	*	-	-
Neonatal Deaths	11	6.1	10	5.7	1	*	-	-
Postneonatal Deaths	3	*	2	*	1	*	-	-
Perinatal Deaths	11	6.1	10	5.7	1	*	-	-
Fetal Deaths	3	*	3	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	1,124	582	542	1,097	569	528	24	12	12	3	1	2	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	14	2	2	-	5	9	10	31	46	82	175	748	-
White Male	8	2	1	-	4	6	10	21	31	42	105	339	-
White Female	4	-	1	-	1	2	-	10	14	39	64	393	-
Black Male	-	-	-	-	-	1	-	-	-	-	3	8	-
Black Female	2	-	-	-	-	-	-	-	1	-	1	8	-
Other Male	-	-	-	-	-	-	-	-	-	1	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	2	-	-

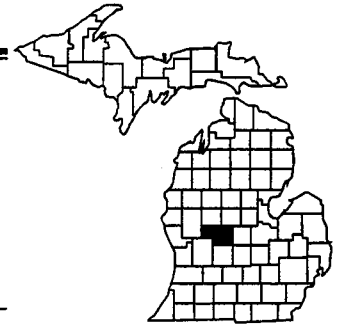
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,124	816.2	1,097	819.0	24	976.4	9	22.1
Diseases of the Heart	433	314.4	425	317.3	8	325.5	-	-
Cancer	253	183.7	247	184.4	5	*	1	*
Cerebrovascular Diseases	59	42.8	56	41.8	2	*	-	-
Accidents and Adverse Effects	45	32.7	43	32.1	1	*	3	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	62	45.0	61	45.5	1	*	-	-
Pneumonia and Influenza	24	17.4	22	16.4	2	*	-	-
Diabetes Mellitus	27	19.6	27	20.2	-	-	-	-
Chronic Liver Disease and Cirrhosis	15	10.9	14	10.5	1	*	-	-
Homicide	5	*	4	*	1	*	1	*
Suicide	13	9.4	13	9.7	-	-	1	*
Atherosclerosis	6	4.4	6	4.5	-	-	-	-
AIDS	5	*	5	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Montcalm County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	56,889	Total Live Births:	772	Total Deaths:	510
Rank Among Counties:	33	Mothers Age <18:	34	Infant Deaths:	8
Per Square Mile:	79.8	Low Weight Births:	50	Neonatal Deaths:	4
		First Births:	296	Postneonatal Deaths:	4
				Perinatal Deaths:	9
				Fetal Deaths:	5
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	484	Divorces:	296		
Marriage Rate:	17.0	Divorce Rate:	10.4		

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	772	13.6	760	13.9	5	*	7	9.9
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	34	44.0	33	42.7	1	*	-	-
Low Weight	50	64.8	48	63.2	2	*	-	-
Under 1,500 Grams	10	13.0	9	11.8	1	*	-	-
< 38 Weeks Gestation	124	160.6	121	159.2	2	*	1	*
Prenatal Care Began in 1st Trimester	611	791.5	604	794.7	3	*	4	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	8	10.4	8	10.5	-	-	-	-
Neonatal Deaths	4	*	4	*	-	-	-	-
Postneonatal Deaths	4	*	4	*	-	-	-	-
Perinatal Deaths	9	11.6	9	11.8	-	-	-	-
Fetal Deaths	5	*	5	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	510	262	248	505	259	246	3	1	2	1	1	-	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	8	1	2	1	3	7	3	11	23	25	81	345	-
White Male	6	1	-	1	3	4	2	7	13	14	49	159	-
White Female	2	-	2	-	-	3	1	3	10	10	30	185	-
Black Male	-	-	-	-	-	-	-	1	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	2	-	-
Other Male	-	-	-	-	-	-	-	-	-	1	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

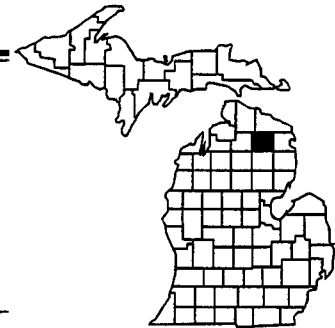
  

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	510	896.5	505	921.3	3	*	7	41.0
Diseases of the Heart	143	251.4	141	257.2	2	*	-	-
Cancer	112	196.9	111	202.5	1	*	-	-
Cerebrovascular Diseases	38	66.8	38	69.3	-	-	-	-
Accidents and Adverse Effects	32	56.2	32	58.4	-	-	4	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	31	54.5	31	56.6	-	-	-	-
Pneumonia and Influenza	17	29.9	17	31.0	-	-	1	*
Diabetes Mellitus	20	35.2	20	36.5	-	-	-	-
Chronic Liver Disease and Cirrhosis	4	*	4	*	-	-	-	-
Homicide	2	*	1	*	-	-	1	*
Suicide	6	10.5	6	10.9	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Montmorency County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	9,514	Total Live Births:	90	Total Deaths:	142
Rank Among Counties:	77	Mothers Age <18:	3	Infant Deaths:	1
Per Square Mile:	17.3	Low Weight Births:	11	Neonatal Deaths:	1
		First Births:	35	Postneonatal Deaths:	-
				Perinatal Deaths:	1
				Fetal Deaths:	-
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	206	Divorces:	35		
Marriage Rate:	43.3	Divorce Rate:	7.4		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	90	9.5	90	9.5	-	-	-	-
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	3	*	3	*	-	-	-	-
Low Weight	11	122.2	11	122.2	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	18	200.0	18	200.0	-	-	-	-
Prenatal Care Began in 1st Trimester	81	900.0	81	900.0	-	-	-	-

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	1	*	1	*	-	-	-	-
Neonatal Deaths	1	*	1	*	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	1	*	1	*	-	-	-	-
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	142	78	64	141	78	63	-	-	-	1	-	1
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	1	-	-	-	-	-	3	2	11	27	98	-
White Male	1	-	-	-	-	-	2	2	5	17	51	-
White Female	-	-	-	-	-	-	1	-	6	9	47	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	1	-	-

LEADING CAUSES OF DEATH

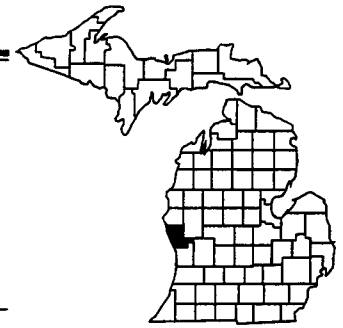
	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	142	1,492.5	141	1,494.9	-	-	-	-
Diseases of the Heart	61	641.2	61	646.7	-	-	-	-
Cancer	28	294.3	27	286.3	-	-	-	-
Cerebrovascular Diseases	5	*	5	*	-	-	-	-
Accidents and Adverse Effects	1	*	1	*	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	8	84.1	8	84.8	-	-	-	-
Pneumonia and Influenza	5	*	5	*	-	-	-	-
Diabetes Mellitus	7	73.6	7	74.2	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	1	*	1	*	-	-	-	-
Atherosclerosis	7	73.6	7	74.2	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



Profile of Muskegon County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	163,439	Total Live Births:	2,230	Total Deaths:	1,437
Rank Among Counties:	11	Mothers Age <18:	165	Infant Deaths:	22
Per Square Mile:	322.3	Low Weight Births:	175	Neonatal Deaths:	14
		First Births:	903	Postneonatal Deaths:	8
				Perinatal Deaths:	27
				Fetal Deaths:	16
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	1,190	Divorces:	886		
Marriage Rate:	14.6	Divorce Rate:	10.8		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	2,230	13.6	1,719	12.5	482	20.6	26	12.0
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	165	74.0	97	43.5	66	29.6	2	*
Low Weight	175	78.5	110	64.0	63	130.7	1	*
Under 1,500 Grams	41	18.4	24	14.0	16	33.2	1	*
< 38 Weeks Gestation	356	159.6	231	134.4	122	253.1	3	*
Prenatal Care Began in 1st Trimester	1,627	729.6	1,327	772.0	280	580.9	19	730.8

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	22	9.9	19	11.1	3	*	-	-
Neonatal Deaths	14	6.3	11	6.4	3	*	-	-
Postneonatal Deaths	8	3.6	8	4.7	-	-	-	-
Perinatal Deaths	27	12.0	16	9.3	11	22.4	-	-
Fetal Deaths	16	7.1	8	4.6	8	16.3	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	1,437	706	731	1,259	614	645	165	84	81	13	8	5	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	22	4	2	1	11	10	7	54	70	102	229	925	-
White Male	11	4	-	1	7	5	4	26	33	46	91	386	-
White Female	8	-	2	-	2	-	1	14	24	43	96	455	-
Black Male	1	-	-	-	1	3	2	7	7	7	20	36	-
Black Female	2	-	-	-	-	-	-	5	4	6	20	44	-
Other Male	-	-	-	-	1	2	-	1	-	-	2	2	-
Other Female	-	-	-	-	-	-	-	1	2	-	-	2	-

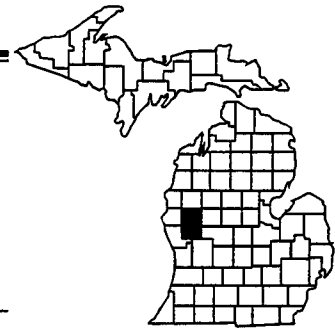
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,437	879.2	1,259	912.8	165	706.7	18	37.6
Diseases of the Heart	455	278.4	403	292.2	51	218.4	-	-
Cancer	329	201.3	289	209.5	39	167.0	1	*
Cerebrovascular Diseases	96	58.7	84	60.9	12	51.4	-	-
Accidents and Adverse Effects	62	37.9	54	39.1	7	30.0	10	20.9
Chronic Obstructive Pulmonary Diseases and Allied Conditions	63	38.5	57	41.3	4	*	-	-
Pneumonia and Influenza	60	36.7	56	40.6	3	*	-	-
Diabetes Mellitus	43	26.3	33	23.9	9	38.5	-	-
Chronic Liver Disease and Cirrhosis	18	11.0	16	11.6	2	*	-	-
Homicide	9	5.5	4	*	4	*	1	*
Suicide	11	6.7	8	5.8	1	*	1	*
Atherosclerosis	54	33.0	48	34.8	6	25.7	-	-
AIDS	3	*	2	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Newaygo County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	42,734	Total Live Births:	594	Total Deaths:	361
Rank Among Counties:	37	Mothers Age <18:	34	Infant Deaths:	5
Per Square Mile:	50.5	Low Weight Births:	56	Neonatal Deaths:	3
		First Births:	197	Postneonatal Deaths:	2
				Perinatal Deaths:	4
				Fetal Deaths:	2
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	383	Divorces:	217		
Marriage Rate:	17.9	Divorce Rate:	10.2		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	594	13.9	583	14.0	5	*	4	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	34	57.2	34	57.2	-	-	-	-
Low Weight	56	94.3	54	92.6	1	*	1	*
Under 1,500 Grams	8	13.5	8	13.7	-	-	-	-
< 38 Weeks Gestation	92	154.9	89	152.7	1	*	2	*
Prenatal Care Began in 1st Trimester	447	752.5	437	749.6	5	*	3	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	5	*	4	*	1	*	-	-
Neonatal Deaths	3	*	3	*	-	-	-	-
Postneonatal Deaths	2	*	1	*	1	*	-	-
Perinatal Deaths	4	*	4	*	-	-	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	361	193	168	349	183	166	6	4	2	6	6	-	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	5	2	-	-	4	5	1	12	20	29	52	231	-
White Male	1	1	-	-	3	2	1	4	13	19	32	107	-
White Female	3	1	-	-	1	2	-	7	7	7	19	119	-
Black Male	1	-	-	-	-	1	-	-	-	-	-	2	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	2	-
Other Male	-	-	-	-	-	-	1	-	3	1	1	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

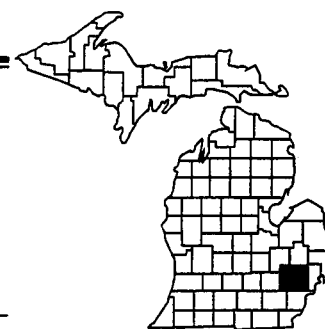
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	361	844.8	349	836.4	6	1,197.6	6	45.9
Diseases of the Heart	127	297.2	122	292.4	2	*	-	-
Cancer	86	201.2	85	203.7	1	*	1	*
Cerebrovascular Diseases	17	39.8	16	38.3	1	*	-	-
Accidents and Adverse Effects	16	37.4	15	36.0	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	12	28.1	11	26.4	-	-	-	-
Pneumonia and Influenza	14	32.8	14	33.6	-	-	-	-
Diabetes Mellitus	8	18.7	8	19.2	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	6	14.0	6	14.4	-	-	1	*
Suicide	6	14.0	6	14.4	-	-	1	*
Atherosclerosis	3	*	3	*	-	-	-	-
AIDS	3	*	3	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Oakland County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	1,142,000	Total Live Births:	16,196	Total Deaths:	8,566
Rank Among Counties:	2	Mothers Age <18:	362	Infant Deaths:	100
Per Square Mile:	1,305.3	Low Weight Births:	1,107	Neonatal Deaths:	64
		First Births:	6,664	Postneonatal Deaths:	36
				Perinatal Deaths:	137
				Fetal Deaths:	87
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	8,832	Divorces:	4,801		
Marriage Rate:	15.5	Divorce Rate:	8.4		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	16,196	14.2	13,897	13.7	1,589	17.0	437	12.0
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	362	22.4	234	14.4	121	7.5	5	*
Low Weight	1,107	68.4	861	62.0	192	120.8	29	66.4
Under 1,500 Grams	191	11.8	136	9.8	45	28.3	3	*
< 38 Weeks Gestation	2,806	173.3	2,300	165.5	380	239.1	73	167.0
Prenatal Care Began in 1st Trimester	14,475	893.7	12,671	911.8	1,187	747.0	380	869.6

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	100	6.2	71	5.1	28	17.6	1	*
Neonatal Deaths	64	4.0	45	3.2	18	11.3	1	*
Postneonatal Deaths	36	2.2	26	1.9	10	6.3	-	-
Perinatal Deaths	137	8.4	109	7.8	27	16.9	-	-
Fetal Deaths	87	5.3	76	5.4	10	6.3	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	8,566	4,085	4,481	7,872	3,713	4,159	604	322	282	87	50	37	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	100	14	17	12	47	57	72	252	436	652	1,245	5,661	1
White Male	38	1	6	7	16	25	35	134	228	336	628	2,259	-
White Female	33	7	4	2	19	13	20	76	128	221	498	3,137	1
Black Male	12	3	2	2	11	15	13	22	35	51	52	104	-
Black Female	16	3	5	-	1	1	2	15	36	30	48	125	-
Other Male	1	-	-	1	-	2	1	3	4	4	8	26	-
Other Female	-	-	-	-	-	1	1	2	5	9	9	10	-

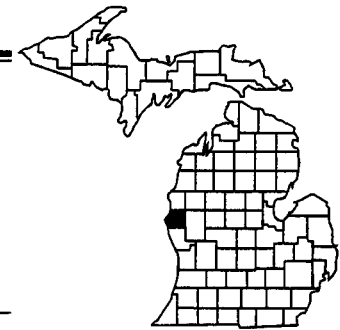
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	8,566	750.1	7,872	777.7	604	646.3	90	31.2
Diseases of the Heart	2,872	251.5	2,708	267.5	145	155.2	2	*
Cancer	2,060	180.4	1,904	188.1	131	140.2	8	2.8
Cerebrovascular Diseases	698	61.1	641	63.3	50	53.5	1	*
Accidents and Adverse Effects	266	23.3	233	23.0	26	27.8	30	10.4
Chronic Obstructive Pulmonary Diseases and Allied Conditions	331	29.0	311	30.7	16	17.1	4	*
Pneumonia and Influenza	283	24.8	267	26.4	15	16.1	1	*
Diabetes Mellitus	224	19.6	198	19.6	22	23.5	-	-
Chronic Liver Disease and Cirrhosis	100	8.8	88	8.7	12	12.8	-	-
Homicide	77	6.7	37	3.7	36	38.5	16	5.5
Suicide	101	8.8	92	9.1	6	6.4	6	2.1
Atherosclerosis	55	4.8	53	5.2	2	*	-	-
AIDS	62	5.4	41	4.1	21	22.5	1	*

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Oceana County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	23,489	Total Live Births:	341	Total Deaths:	245
Rank Among Counties:	55	Mothers Age <18:	25	Infant Deaths:	-
Per Square Mile:	43.4	Low Weight Births:	11	Neonatal Deaths:	-
		First Births:	121	Postneonatal Deaths:	-
				Perinatal Deaths:	-
				Fetal Deaths:	-
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	213	Divorces:	106		
Marriage Rate:	18.1	Divorce Rate:	9.0		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	341	14.5	337	14.6	-	-	4	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	25	73.3	25	73.3	-	-	-	-
Low Weight	11	32.3	10	29.7	-	-	1	*
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	52	152.5	51	151.3	-	-	1	*
Prenatal Care Began in 1st Trimester	249	730.2	248	735.9	-	-	1	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	-	-	-	-	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	-	-	-	-	-	-	-	-
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	245	138	107	241	135	106	1	1	-	3	2	1	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	-	-	1	1	3	3	1	5	7	18	43	163	-
White Male	-	-	-	-	3	2	1	2	5	10	29	83	-
White Female	-	-	1	1	-	1	-	3	2	8	13	77	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	1	-

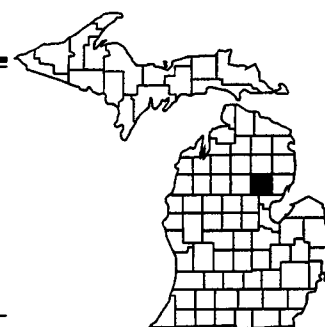
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	245	1,043.0	241	1,046.6	1	*	5	*
Diseases of the Heart	73	310.8	72	312.7	-	-	-	-
Cancer	55	234.2	55	238.9	-	-	1	*
Cerebrovascular Diseases	19	80.9	19	82.5	-	-	-	-
Accidents and Adverse Effects	17	72.4	17	73.8	-	-	2	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	14	59.6	14	60.8	-	-	-	-
Pneumonia and influenza	15	63.9	15	65.1	-	-	-	-
Diabetes Mellitus	6	25.5	6	26.1	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	3	*	3	*	-	-	1	*
Atherosclerosis	4	*	4	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Ogemaw County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	20,247	Total Live Births:	235	Total Deaths:	245
Rank Among Counties:	61	Mothers Age <18:	12	Infant Deaths:	3
Per Square Mile:	35.5	Low Weight Births:	11	Neonatal Deaths:	2
		First Births:	70	Postneonatal Deaths:	1
				Perinatal Deaths:	2
				Fetal Deaths:	-
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	173	Divorces:	93		
Marriage Rate:	17.1	Divorce Rate:	9.2		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	235	11.8	231	11.6	-	-	4	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	12	51.1	12	51.1	-	-	-	-
Low Weight	11	46.8	11	47.6	-	-	-	-
Under 1,500 Grams	3	*	3	*	-	-	-	-
< 38 Weeks Gestation	42	178.7	42	181.8	-	-	-	-
Prenatal Care Began in 1st Trimester	196	834.0	193	835.5	-	-	3	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	3	*	3	*	-	-	-	-
Neonatal Deaths	2	*	2	*	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	2	*	2	*	-	-	-	-
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	245	137	108	245	137	108	-	-	-	-	-	-	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	3	1	-	-	3	1	3	4	5	20	51	154	-
White Male	2	1	-	-	2	1	3	4	3	14	29	78	-
White Female	1	-	-	-	1	-	-	-	2	6	22	76	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

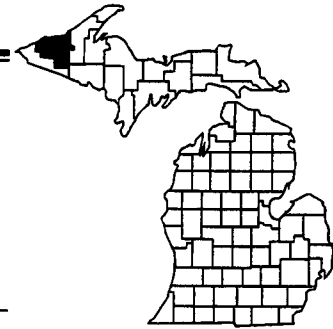
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	245	1,210.1	245	1,225.1	-	-	4	*
Diseases of the Heart	87	429.7	87	435.0	-	-	-	-
Cancer	61	301.3	61	305.0	-	-	1	*
Cerebrovascular Diseases	20	98.8	20	100.0	-	-	-	-
Accidents and Adverse Effects	9	44.5	9	45.0	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	13	64.2	13	65.0	-	-	1	*
Pneumonia and Influenza	5	*	5	*	-	-	-	-
Diabetes Mellitus	6	29.6	6	30.0	-	-	-	-
Chronic Liver Disease and Cirrhosis	4	*	4	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	3	*	3	*	-	-	1	*
Atherosclerosis	14	69.1	14	70.0	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Ontonagon County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	8,665	Total Live Births:	76	Total Deaths:	115
Rank Among Counties:	78	Mothers Age <18:	2	Infant Deaths:	1
Per Square Mile:	6.6	Low Weight Births:	2	Neonatal Deaths:	-
		First Births:	31	Postneonatal Deaths:	1
				Perinatal Deaths:	-
				Fetal Deaths:	-
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	54	Divorces:	7		
Marriage Rate:	12.5	Divorce Rate:	1.6		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	76	8.8	72	8.5	-	-	4	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	2	*	2	*	-	-	-	-
Low Weight	2	*	2	*	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	8	105.3	8	111.1	-	-	-	-
Prenatal Care Began in 1st Trimester	68	894.7	65	902.8	-	-	3	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	1	*	1	*	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	-	-	-	-	-	-	-	-
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	115	56	59	114	55	59	-	-	-	1	1	-	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	-	-	-	-	-	-	1	4	6	16	87	-
White Male	1	-	-	-	-	-	-	1	5	5	5	43	-
White Female	-	-	-	-	-	-	1	2	1	11	44	-	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	1	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

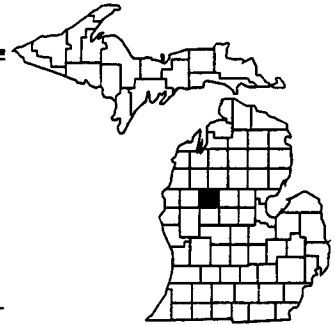
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	115	1,327.2	114	1,339.3	-	-	-	-
Diseases of the Heart	45	519.3	45	528.7	-	-	-	-
Cancer	21	242.4	21	246.7	-	-	-	-
Cerebrovascular Diseases	7	80.8	7	82.2	-	-	-	-
Accidents and Adverse Effects	6	69.2	6	70.5	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	2	*	2	*	-	-	-	-
Pneumonia and Influenza	5	*	5	*	-	-	-	-
Diabetes Mellitus	7	80.8	7	82.2	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	2	*	1	*	-	-	-	-
Atherosclerosis	3	*	3	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Osceola County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	21,364	Total Live Births:	266	Total Deaths:	210
Rank Among Counties:	60	Mothers Age <18:	11	Infant Deaths:	2
Per Square Mile:	37.6	Low Weight Births:	10	Neonatal Deaths:	1
		First Births:	104	Postneonatal Deaths:	1
				Perinatal Deaths:	3
				Fetal Deaths:	2
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	197	Divorces:	116		
Marriage Rate:	18.4	Divorce Rate:	10.9		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	266	12.5	262	12.4	-	-	3	*
Mothers Age <18	11	41.4	11	41.4	-	-	-	-
Low Weight	10	37.6	10	38.2	-	-	-	-
Under 1,500 Grams	2	*	2	*	-	-	-	-
< 38 Weeks Gestation	33	124.1	33	126.0	-	-	-	-
Prenatal Care Began in 1st Trimester	191	718.0	188	717.6	-	-	2	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	2	*	2	*	-	-	-	-
Neonatal Deaths	1	*	1	*	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	3	*	3	*	-	-	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

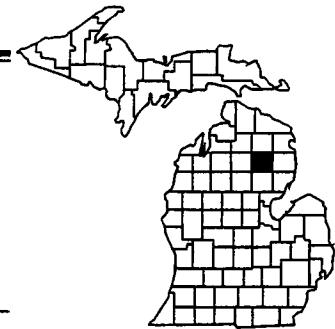
	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	210	119	91	210	119	91	-	-	-	-	-	-	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	2	-	-	-	-	-	-	4	7	19	30	148	-
White Male	2	-	-	-	-	-	-	2	4	8	20	83	-
White Female	-	-	-	-	-	-	-	2	3	11	10	65	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	210	983.0	210	996.3	-	-	-	-
Diseases of the Heart	71	332.3	71	336.9	-	-	-	-
Cancer	43	201.3	43	204.0	-	-	-	-
Cerebrovascular Diseases	14	65.5	14	66.4	-	-	-	-
Accidents and Adverse Effects	6	28.1	6	28.5	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	9	42.1	9	42.7	-	-	-	-
Pneumonia and Influenza	18	84.3	18	85.4	-	-	-	-
Diabetes Mellitus	3	*	3	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	3	*	3	*	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Profile of Oscoda County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	8,497	Total Live Births:	100	Total Deaths:	119
Rank Among Counties:	80	Mothers Age <18:	5	Infant Deaths:	2
Per Square Mile:	15.0	Low Weight Births:	12	Neonatal Deaths:	2
		First Births:	36	Postneonatal Deaths:	-
				Perinatal Deaths:	2
				Fetal Deaths:	-
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	59	Divorces:	34		
Marriage Rate:	13.9	Divorce Rate:	8.0		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	100	11.8	97	11.5	-	-	3	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	5	*	5	*	-	-	-	-
Low Weight	12	120.0	12	123.7	-	-	-	-
Under 1,500 Grams	3	*	3	*	-	-	-	-
< 38 Weeks Gestation	23	230.0	23	237.1	-	-	-	-
Prenatal Care Began in 1st Trimester	79	790.0	76	783.5	-	-	3	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	2	*	2	*	-	-	-	-
Neonatal Deaths	2	*	2	*	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	2	*	2	*	-	-	-	-
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	119	86	33	117	86	31	1	-	1	1	-	1	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	2	1	-	-	1	-	-	1	5	12	28	69	-
White Male	1	1	-	-	1	-	-	1	4	9	23	46	-
White Female	1	-	-	-	-	-	-	1	3	4	22	-	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	1	-	-	-

LEADING CAUSES OF DEATH

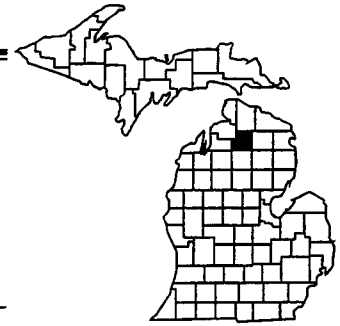
	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	119	1,400.5	117	1,388.6	1	*	2	*
Diseases of the Heart	39	459.0	39	462.9	-	-	-	-
Cancer	33	388.4	33	391.6	-	-	-	-
Cerebrovascular Diseases	7	82.4	7	83.1	-	-	-	-
Accidents and Adverse Effects	3	*	3	*	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	9	105.9	9	106.8	-	-	-	-
Pneumonia and Influenza	2	*	2	*	-	-	-	-
Diabetes Mellitus	1	*	1	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	3	*	3	*	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



Profile of Otsego County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	20,112	Total Live Births:	251	Total Deaths:	190
Rank Among Counties:	62	Mothers Age <18:	10	Infant Deaths:	1
Per Square Mile:	39.0	Low Weight Births:	16	Neonatal Deaths:	-
		First Births:	88	Postneonatal Deaths:	1
				Perinatal Deaths:	-
				Fetal Deaths:	-
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	198	Divorces:	114		
Marriage Rate:	19.7	Divorce Rate:	11.3		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	251	12.5	248	12.5	1	*	2	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	10	39.8	10	39.8	-	-	-	-
Low Weight	16	63.7	15	60.5	1	*	-	-
Under 1,500 Grams	2	*	2	*	-	-	-	-
< 38 Weeks Gestation	29	115.5	28	112.9	-	-	1	*
Prenatal Care Began in 1st Trimester	224	892.4	221	891.1	1	*	2	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	1	*	1	*	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	-	-	-	-	-	-	-	-
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	190	97	93	187	96	91	-	-	-	3	1	2	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	-	-	-	2	-	2	1	10	11	28	135	-
White Male	-	-	-	-	2	-	1	1	7	8	17	60	-
White Female	1	-	-	-	-	-	1	-	3	3	10	73	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	1	1	-

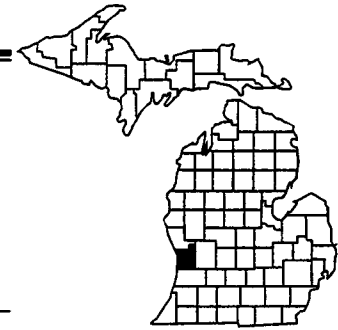
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	190	944.7	187	944.3	-	-	2	*
Diseases of the Heart	69	343.1	68	343.4	-	-	-	-
Cancer	45	223.7	44	222.2	-	-	1	*
Cerebrovascular Diseases	21	104.4	20	101.0	-	-	-	-
Accidents and Adverse Effects	3	*	3	*	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	8	39.8	8	40.4	-	-	-	-
Pneumonia and Influenza	5	*	5	*	-	-	-	-
Diabetes Mellitus	2	*	2	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	2	*	2	*	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Ottawa County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	205,351	Total Live Births:	3,239	Total Deaths:	1,313
Rank Among Counties:	10	Mothers Age <18:	86	Infant Deaths:	23
Per Square Mile:	362.1	Low Weight Births:	154	Neonatal Deaths:	13
		First Births:	1,233	Postneonatal Deaths:	10
				Perinatal Deaths:	21
				Fetal Deaths:	14
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	1,594	Divorces:	449		
Marriage Rate:	15.5	Divorce Rate:	4.4		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	3,239	15.8	3,107	15.5	33	26.1	97	23.1
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	86	26.6	79	24.4	3	*	4	*
Low Weight	154	47.5	145	46.7	3	*	6	61.9
Under 1,500 Grams	21	6.5	21	6.8	-	-	-	-
< 38 Weeks Gestation	477	147.3	439	141.3	12	363.6	26	268.0
Prenatal Care Began in 1st Trimester	2,622	809.5	2,538	816.9	15	454.5	68	701.0

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	23	7.1	22	7.1	-	-	1	*
Neonatal Deaths	13	4.0	12	3.9	-	-	1	*
Postneonatal Deaths	10	3.1	10	3.2	-	-	-	-
Perinatal Deaths	21	6.5	20	6.4	-	-	1	*
Fetal Deaths	14	4.3	14	4.5	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	1,313	635	678	1,301	629	672	4	1	3	8	5	3	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	23	6	3	3	8	10	8	33	52	66	155	946	-
White Male	12	4	3	2	6	7	8	22	28	34	92	411	-
White Female	10	1	-	1	2	1	-	10	23	30	62	532	-
Black Male	-	-	-	-	-	1	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	1	-	1	-	-	1	-	-
Other Male	-	1	-	-	-	-	-	-	1	1	-	2	-
Other Female	1	-	-	-	-	-	-	-	-	1	-	1	-

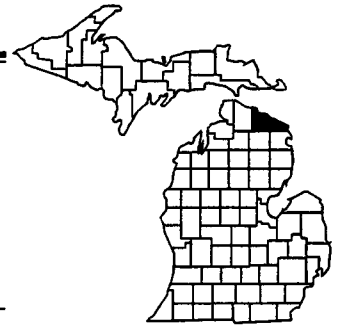
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,313	639.4	1,301	650.9	4	*	20	30.7
Diseases of the Heart	400	194.8	395	197.6	1	*	-	-
Cancer	297	144.6	295	147.6	-	-	2	*
Cerebrovascular Diseases	111	54.1	111	55.5	-	-	-	-
Accidents and Adverse Effects	57	27.8	55	27.5	2	*	12	18.4
Chronic Obstructive Pulmonary Diseases and Allied Conditions	46	22.4	46	23.0	-	-	1	*
Pneumonia and Influenza	83	40.4	83	41.5	-	-	-	-
Diabetes Mellitus	28	13.6	27	13.5	1	*	-	-
Chronic Liver Disease and Cirrhosis	9	4.4	9	4.5	-	-	-	-
Homicide	1	*	-	-	-	-	1	*
Suicide	8	3.9	8	4.0	-	-	-	-
Atherosclerosis	9	4.4	9	4.5	-	-	-	-
AIDS	6	2.9	6	3.0	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Presque Isle County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	14,020	Total Live Births:	103	Total Deaths:	181
Rank Among Counties:	68	Mothers Age <18:	5	Infant Deaths:	6
Per Square Mile:	21.4	Low Weight Births:	6	Neonatal Deaths:	5
		First Births:	52	Postneonatal Deaths:	1
				Perinatal Deaths:	6
				Fetal Deaths:	2
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	80	Divorces:	21		
Marriage Rate:	11.4	Divorce Rate:	3.0		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	103	7.3	99	7.1	-	-	4	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	5	*	5	*	-	-	-	-
Low Weight	6	58.3	6	60.6	-	-	-	-
Under 1,500 Grams	4	*	4	*	-	-	-	-
< 38 Weeks Gestation	15	145.6	14	141.4	-	-	1	*
Prenatal Care Began in 1st Trimester	91	883.5	88	888.9	-	-	3	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	6	58.3	6	60.6	-	-	-	-
Neonatal Deaths	5	*	5	*	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	6	57.1	6	59.4	-	-	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

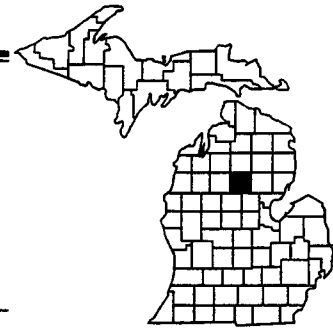
	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	181	97	84	181	97	84	-	-	-	-	-	-	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	6	-	1	-	-	-	1	6	6	10	31	120	-
White Male	3	-	1	-	-	-	-	4	3	7	20	59	-
White Female	3	-	-	-	-	-	1	2	3	3	11	61	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	181	1,291.0	181	1,300.8	-	-	1	*
Diseases of the Heart	66	470.8	66	474.3	-	-	-	-
Cancer	41	292.4	41	294.7	-	-	-	-
Cerebrovascular Diseases	13	92.7	13	93.4	-	-	-	-
Accidents and Adverse Effects	9	64.2	9	64.7	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	13	92.7	13	93.4	-	-	-	-
Pneumonia and Influenza	2	*	2	*	-	-	-	-
Diabetes Mellitus	6	42.8	6	43.1	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	1	*	1	*	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

**Profile of Roscommon County**



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	21,890	Total Live Births:	192	Total Deaths:	315
Rank Among Counties:	59	Mothers Age <18:	11	Infant Deaths:	3
Per Square Mile:	41.5	Low Weight Births:	16	Neonatal Deaths:	3
		First Births:	79	Postneonatal Deaths:	-
				Perinatal Deaths:	4
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	143	Divorces:	106		
Marriage Rate:	13.1	Divorce Rate:	9.7		

**NATALITY BY RACE OF MOTHER**

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	192	8.8	186	8.6	-	-	6	31.7
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	11	57.3	11	57.3	-	-	-	-
Low Weight	16	83.3	16	86.0	-	-	-	-
Under 1,500 Grams	3	*	3	*	-	-	-	-
< 38 Weeks Gestation	30	156.3	28	150.5	-	-	2	*
Prenatal Care Began in 1st Trimester	161	838.5	157	844.1	-	-	4	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

**INFANT AND PERINATAL MORTALITY BY RACE**

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	3	*	3	*	-	-	-	-
Neonatal Deaths	3	*	3	*	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	4	*	3	*	-	-	1	*
Fetal Deaths	2	*	1	*	-	-	1	*

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

**MORTALITY**

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	315	172	143	314	171	143	-	-	-	1	1	-	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	3	1	-	-	-	1	1	3	9	28	52	217	-
White Male	2	-	-	-	-	1	-	2	7	16	32	111	-
White Female	1	1	-	-	-	-	1	1	2	11	20	106	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	1	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

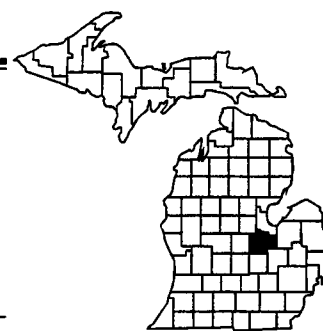
**LEADING CAUSES OF DEATH**

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	315	1,439.0	314	1,450.5	-	-	1	*
Diseases of the Heart	103	470.5	103	475.8	-	-	-	-
Cancer	95	434.0	95	438.8	-	-	-	-
Cerebrovascular Diseases	22	100.5	22	101.6	-	-	-	-
Accidents and Adverse Effects	6	27.4	6	27.7	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	16	73.1	16	73.9	-	-	-	-
Pneumonia and Influenza	10	45.7	10	46.2	-	-	-	-
Diabetes Mellitus	8	36.5	8	37.0	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	-	-	-	-	-	-
Homicide	1	*	1	*	-	-	1	*
Suicide	3	*	3	*	-	-	-	-
Atherosclerosis	9	41.1	9	41.6	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

## Profile of Saginaw County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	211,286	Total Live Births:	2,997	Total Deaths:	1,978
Rank Among Counties:	9	Mothers Age <18:	209	Infant Deaths:	27
Per Square Mile:	259.2	Low Weight Births:	285	Neonatal Deaths:	16
		First Births:	1,215	Postneonatal Deaths:	11
				Perinatal Deaths:	36
				Fetal Deaths:	21
MARRIAGE		DIVORCE			
Marriages:	1,549	Divorces:	790		
Marriage Rate:	14.7	Divorce Rate:	7.5		

## NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	2,997	14.2	2,151	12.7	791	20.3	50	18.9
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	209	69.7	94	31.4	112	37.4	3	*
Low Weight	285	95.1	161	74.8	120	151.7	4	*
Under 1,500 Grams	66	22.0	28	13.0	37	46.8	1	*
< 38 Weeks Gestation	590	196.9	372	172.9	208	263.0	9	180.0
Prenatal Care Began in 1st Trimester	2,548	850.2	1,905	885.6	595	752.2	44	880.0

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

## INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	27	9.0	11	5.1	15	19.0	-	-
Neonatal Deaths	16	5.3	7	3.3	8	10.1	-	-
Postneonatal Deaths	11	3.7	4	*	7	8.8	-	-
Perinatal Deaths	36	11.9	19	8.8	16	20.0	-	-
Fetal Deaths	21	7.0	12	5.5	9	11.3	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

## MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	1,978	988	990	1,647	797	850	322	189	133	8	2	6	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	27	3	1	3	16	12	16	51	71	124	312	1,342	-
White Male	5	1	1	3	7	4	9	22	30	52	147	516	-
White Female	6	1	-	-	4	2	1	11	10	42	101	672	-
Black Male	9	1	-	-	5	2	3	14	18	14	41	82	-
Black Female	6	-	-	-	-	4	3	4	13	14	22	67	-
Other Male	-	-	-	-	-	-	-	-	-	2	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	1	5	-

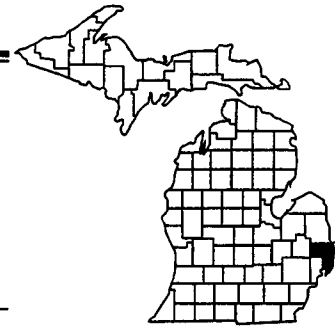
## LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,978	936.2	1,647	970.3	322	827.9	23	37.4
Diseases of the Heart	632	299.1	557	328.1	74	190.3	-	-
Cancer	478	226.2	387	228.0	89	228.8	1	*
Cerebrovascular Diseases	144	68.2	127	74.8	17	43.7	1	*
Accidents and Adverse Effects	71	33.6	55	32.4	16	41.1	7	11.4
Chronic Obstructive Pulmonary Diseases and Allied Conditions	97	45.9	84	49.5	12	30.9	-	-
Pneumonia and Influenza	74	35.0	64	37.7	10	25.7	-	-
Diabetes Mellitus	53	25.1	41	24.2	10	25.7	-	-
Chronic Liver Disease and Cirrhosis	24	11.4	17	10.0	7	18.0	-	-
Homicide	28	13.3	11	6.5	17	43.7	6	9.8
Suicide	11	5.2	9	5.3	2	*	2	*
Atherosclerosis	24	11.4	23	13.5	1	*	-	-
AIDS	14	6.6	9	5.3	5	*	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of St. Clair County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	152,358	Total Live Births:	2,093	Total Deaths:	1,346
Rank Among Counties:	14	Mothers Age <18:	76	Infant Deaths:	12
Per Square Mile:	207.5	Low Weight Births:	148	Neonatal Deaths:	10
		First Births:	792	Postneonatal Deaths:	2
				Perinatal Deaths:	14
				Fetal Deaths:	4
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	1,251	Divorces:	702		
Marriage Rate:	16.4	Divorce Rate:	9.2		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	2,093	13.7	2,032	13.8	47	14.8	13	8.8
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	76	36.3	67	32.0	7	3.3	2	*
Low Weight	148	70.7	141	69.4	7	148.9	-	-
Under 1,500 Grams	26	12.4	25	12.3	1	*	-	-
< 38 Weeks Gestation	383	183.0	363	178.6	18	383.0	2	*
Prenatal Care Began in 1st Trimester	1,754	838.0	1,710	841.5	33	702.1	10	769.2

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	12	5.7	11	5.4	1	*	-	-
Neonatal Deaths	10	4.8	9	4.4	1	*	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	14	6.7	13	6.4	1	*	-	-
Fetal Deaths	4	*	4	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	1,346	679	667	1,311	661	650	31	17	14	4	1	3	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	12	-	1	2	6	7	13	33	61	99	213	899	-
White Male	8	-	1	1	5	6	11	21	38	53	125	392	-
White Female	3	-	-	-	1	1	2	9	19	40	82	493	-
Black Male	-	-	-	-	-	-	-	2	3	3	4	5	-
Black Female	1	-	-	1	-	-	-	1	-	2	2	7	-
Other Male	-	-	-	-	-	-	-	-	-	1	-	-	-
Other Female	-	-	-	-	-	-	-	1	-	-	-	2	-

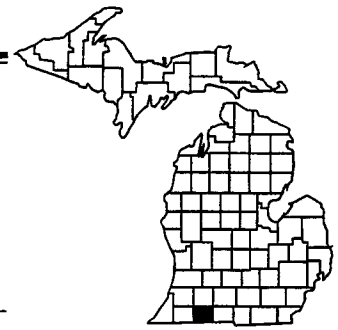
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,346	883.4	1,311	887.6	31	973.3	9	20.5
Diseases of the Heart	401	263.2	395	267.4	6	188.4	-	-
Cancer	348	228.4	336	227.5	10	314.0	-	-
Cerebrovascular Diseases	113	74.2	108	73.1	4	*	-	-
Accidents and Adverse Effects	62	40.7	60	40.6	1	*	5	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	86	56.4	86	58.2	-	-	-	-
Pneumonia and Influenza	47	30.8	45	30.5	2	*	-	-
Diabetes Mellitus	45	29.5	44	29.8	1	*	-	-
Chronic Liver Disease and Cirrhosis	24	15.8	22	14.9	2	*	-	-
Homicide	6	3.9	6	4.1	-	-	1	*
Suicide	20	13.1	20	13.5	-	-	1	*
Atherosclerosis	9	5.9	9	6.1	-	-	-	-
AIDS	5	*	5	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of St. Joseph County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	59,992	Total Live Births:	776	Total Deaths:	589
Rank Among Counties:	29	Mothers Age <18:	55	Infant Deaths:	6
Per Square Mile:	119.4	Low Weight Births:	71	Neonatal Deaths:	3
		First Births:	325	Postneonatal Deaths:	3
				Perinatal Deaths:	4
				Fetal Deaths:	2
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	445	Divorces:	334		
Marriage Rate:	14.8	Divorce Rate:	11.1		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	776	12.9	730	12.7	34	19.9	11	19.1
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	55	70.9	49	63.1	5	*	-	-
Low Weight	71	91.5	65	89.0	4	*	2	*
Under 1,500 Grams	7	9.0	6	8.2	1	*	-	-
< 38 Weeks Gestation	141	181.7	131	179.5	9	264.7	1	*
Prenatal Care Began in 1st Trimester	631	813.1	600	821.9	22	647.1	9	818.2

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	6	7.7	6	8.2	-	-	-	-
Neonatal Deaths	3	*	3	*	-	-	-	-
Postneonatal Deaths	3	*	3	*	-	-	-	-
Perinatal Deaths	4	*	4	*	-	-	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

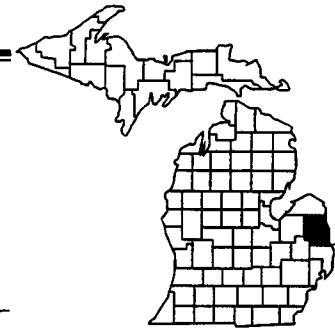
	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	589	288	301	565	276	289	20	10	10	4	2	2	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	6	2	1	3	8	-	5	16	25	46	78	399	-
White Male	3	1	-	3	6	-	4	9	14	31	36	169	-
White Female	3	1	-	-	1	-	1	6	8	14	40	215	-
Black Male	-	-	-	-	1	-	-	1	2	-	1	5	-
Black Female	-	-	1	-	-	-	-	-	-	-	-	9	-
Other Male	-	-	-	-	-	-	-	-	-	1	1	-	-
Other Female	-	-	-	-	-	-	-	-	1	-	-	1	-

LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	589	981.8	565	979.2	20	1,168.2	14	76.6
Diseases of the Heart	210	350.0	200	346.6	8	467.3	-	-
Cancer	138	230.0	132	228.8	5	*	-	-
Cerebrovascular Diseases	38	63.3	37	64.1	1	*	1	*
Accidents and Adverse Effects	33	55.0	32	55.5	1	*	9	49.3
Chronic Obstructive Pulmonary Diseases and Allied Conditions	32	53.3	31	53.7	-	-	-	-
Pneumonia and Influenza	12	20.0	12	20.8	-	-	1	*
Diabetes Mellitus	17	28.3	17	29.5	-	-	-	-
Chronic Liver Disease and Cirrhosis	7	11.7	7	12.1	-	-	-	-
Homicide	3	*	-	-	3	*	1	*
Suicide	8	13.3	7	12.1	1	*	1	*
Atherosclerosis	6	10.0	5	*	1	*	-	-
AIDS	2	*	2	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Profile of Sanilac County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	41,565	Total Live Births:	534	Total Deaths:	434
Rank Among Counties:	39	Mothers Age <18:	10	Infant Deaths:	7
Per Square Mile:	43.1	Low Weight Births:	40	Neonatal Deaths:	5
		First Births:	201	Postneonatal Deaths:	2
				Perinatal Deaths:	6
				Fetal Deaths:	2
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	344	Divorces:	177		
Marriage Rate:	16.6	Divorce Rate:	8.5		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	534	12.8	527	12.8	1	*	4	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	10	18.7	10	18.7	-	-	-	-
Low Weight	40	74.9	39	74.0	-	-	1	*
Under 1,500 Grams	7	13.1	7	13.3	-	-	-	-
< 38 Weeks Gestation	85	159.2	83	157.5	-	-	2	*
Prenatal Care Began in 1st Trimester	402	752.8	399	757.1	-	-	2	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	7	13.1	7	13.3	-	-	-	-
Neonatal Deaths	5	*	5	*	-	-	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	6	11.2	6	11.3	-	-	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	434	229	205	431	227	204	-	-	-	3	2	1	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	7	1	1	1	3	3	-	5	19	25	70	299	-
White Male	3	1	1	1	2	2	-	4	12	14	42	145	-
White Female	4	-	-	-	1	1	-	1	7	10	27	153	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	1	-
Other Female	-	-	-	-	-	-	-	-	-	1	-	-	-

LEADING CAUSES OF DEATH

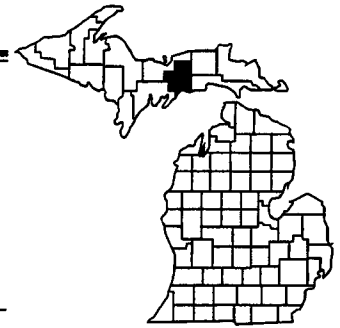
	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	434	1,044.1	431	1,047.3	-	-	6	49.1
Diseases of the Heart	147	353.7	145	352.3	-	-	-	-
Cancer	106	255.0	105	255.1	-	-	1	*
Cerebrovascular Diseases	29	69.8	29	70.5	-	-	-	-
Accidents and Adverse Effects	20	48.1	20	48.6	-	-	3	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	17	40.9	17	41.3	-	-	-	-
Pneumonia and Influenza	14	33.7	14	34.0	-	-	-	-
Diabetes Mellitus	10	24.1	10	24.3	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	7	16.8	7	17.0	-	-	1	*
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



Profile of Schoolcraft County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	8,599	Total Live Births:	110	Total Deaths:	100
Rank Among Counties:	79	Mothers Age <18:	4	Infant Deaths:	1
Per Square Mile:	7.3	Low Weight Births:	8	Neonatal Deaths:	1
		First Births:	42	Postneonatal Deaths:	-
				Perinatal Deaths:	-
				Fetal Deaths:	-
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	68	Divorces:	29		
Marriage Rate:	15.8	Divorce Rate:	6.7		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	110	12.8	103	13.0	-	-	7	11.0
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	4	*	4	*	-	-	-	-
Low Weight	8	72.7	8	77.7	-	-	-	-
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	17	154.5	16	155.3	-	-	1	*
Prenatal Care Began in 1st Trimester	91	827.3	86	835.0	-	-	5	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	1	*	1	*	-	-	-	-
Neonatal Deaths	1	*	1	*	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	-	-	-	-	-	-	-	-
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	100	46	54	91	41	50	-	-	-	9	5	4	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	-	1	-	-	-	1	2	3	6	15	71	-
White Male	-	-	-	-	-	-	-	1	3	1	6	30	-
White Female	1	-	-	-	-	-	-	1	-	3	7	38	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	1	-	-	2	1	1	-
Other Female	-	-	1	-	-	-	-	-	-	-	1	2	-

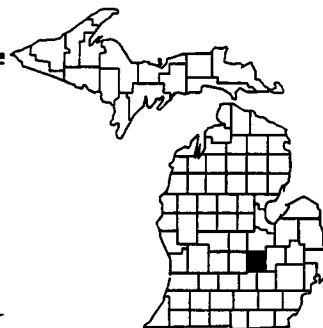
LEADING CAUSES OF DEATH

All Causes	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	100	1,162.9	91	1,144.8	-	-	1	*
Diseases of the Heart	41	476.8	37	465.5	-	-	-	-
Cancer	27	314.0	26	327.1	-	-	-	-
Cerebrovascular Diseases	4	*	4	*	-	-	-	-
Accidents and Adverse Effects	2	*	-	-	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	3	*	3	*	-	-	-	-
Pneumonia and Influenza	2	*	2	*	-	-	-	-
Diabetes Mellitus	2	*	2	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	1	*	1	*	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Shiawassee County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	71,633	Total Live Births:	919	Total Deaths:	596
Rank Among Counties:	25	Mothers Age <18:	36	Infant Deaths:	5
Per Square Mile:	132.6	Low Weight Births:	57	Neonatal Deaths:	3
		First Births:	358	Postneonatal Deaths:	2
				Perinatal Deaths:	9
				Fetal Deaths:	6
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	583	Divorces:	308		
Marriage Rate:	16.3	Divorce Rate:	8.6		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	919	12.8	909	12.8	3	*	6	8.1
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	36	39.2	36	39.2	-	-	-	-
Low Weight	57	62.0	57	62.7	-	-	-	-
Under 1,500 Grams	7	7.6	7	7.7	-	-	-	-
< 38 Weeks Gestation	155	168.7	154	169.4	-	-	1	*
Prenatal Care Began in 1st Trimester	826	898.8	819	901.0	3	*	3	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	5	*	5	*	-	-	-	-
Neonatal Deaths	3	*	3	*	-	-	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	9	9.7	9	9.8	-	-	-	-
Fetal Deaths	6	6.5	6	6.6	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	596	300	296	592	297	295	2	2	-	2	1	1	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	5	1	1	1	3	7	6	14	30	43	96	389	-
White Male	4	1	1	-	2	5	4	7	16	30	56	171	-
White Female	1	-	-	1	1	2	2	7	13	10	40	218	-
Black Male	-	-	-	-	-	-	-	-	1	1	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	1	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	1	-	-	-

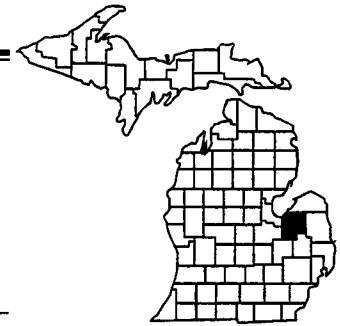
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	596	832.0	592	836.5	2	*	6	28.1
Diseases of the Heart	193	269.4	191	269.9	1	*	-	-
Cancer	155	216.4	153	216.2	1	*	1	*
Cerebrovascular Diseases	53	74.0	53	74.9	-	-	-	-
Accidents and Adverse Effects	24	33.5	24	33.9	-	-	4	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	22	30.7	22	31.1	-	-	-	-
Pneumonia and Influenza	15	20.9	15	21.2	-	-	-	-
Diabetes Mellitus	11	15.4	11	15.5	-	-	-	-
Chronic Liver Disease and Cirrhosis	5	*	5	*	-	-	-	-
Homicide	2	*	2	*	-	-	1	*
Suicide	10	14.0	10	14.1	-	-	-	-
Atherosclerosis	9	12.6	9	12.7	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Tuscola County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	57,006	Total Live Births:	698	Total Deaths:	460
Rank Among Counties:	32	Mothers Age <18:	30	Infant Deaths:	7
Per Square Mile:	70.2	Low Weight Births:	37	Neonatal Deaths:	6
		First Births:	281	Postneonatal Deaths:	1
				Perinatal Deaths:	7
				Fetal Deaths:	2
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	443	Divorces:	226		
Marriage Rate:	15.5	Divorce Rate:	7.9		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	698	12.2	692	12.4	2	*	4	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	30	43.0	30	43.0	-	-	-	-
Low Weight	37	53.0	36	52.0	-	-	1	*
Under 1,500 Grams	8	11.5	7	10.1	-	-	1	*
< 38 Weeks Gestation	124	177.7	124	179.2	-	-	-	-
Prenatal Care Began in 1st Trimester	608	871.1	603	871.4	2	*	3	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	7	10.0	6	8.7	1	*	-	-
Neonatal Deaths	6	8.6	6	8.7	-	-	-	-
Postneonatal Deaths	1	*	-	-	1	*	-	-
Perinatal Deaths	7	10.0	7	10.1	-	-	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	460	223	237	456	222	234	2	1	1	2	-	2	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	7	2	2	3	4	3	1	15	21	33	72	297	-
White Male	5	1	-	1	2	3	-	9	11	18	37	135	-
White Female	1	1	2	2	2	-	1	6	9	14	34	162	-
Black Male	-	-	-	-	-	-	-	-	-	1	-	-	-
Black Female	1	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	1	-	1	-	-

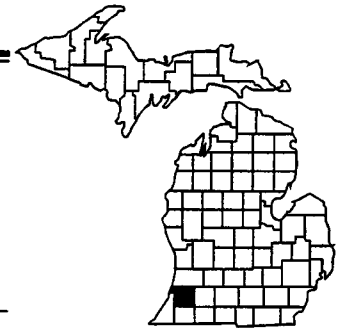
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	460	806.9	456	818.0	2	*	11	64.9
Diseases of the Heart	159	278.9	157	281.6	-	-	-	-
Cancer	106	185.9	106	190.2	-	-	-	-
Cerebrovascular Diseases	27	47.4	27	48.4	-	-	-	-
Accidents and Adverse Effects	29	50.9	29	52.0	-	-	7	41.3
Chronic Obstructive Pulmonary Diseases and Allied Conditions	20	35.1	20	35.9	-	-	-	-
Pneumonia and Influenza	17	29.8	17	30.5	-	-	-	-
Diabetes Mellitus	17	29.8	17	30.5	-	-	1	*
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	6	10.5	6	10.8	-	-	1	*
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Van Buren County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	73,852	Total Live Births:	1,045	Total Deaths:	650
Rank Among Counties:	24	Mothers Age <18:	71	Infant Deaths:	7
Per Square Mile:	120.8	Low Weight Births:	79	Neonatal Deaths:	5
		First Births:	446	Postneonatal Deaths:	2
				Perinatal Deaths:	11
				Fetal Deaths:	6
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	591	Divorces:	377		
Marriage Rate:	16.0	Divorce Rate:	10.2		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,045	14.1	956	14.1	78	16.4	9	8.2
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	71	67.9	58	55.5	13	12.4	-	-
Low Weight	79	75.6	70	73.2	7	89.7	1	-
Under 1,500 Grams	16	15.3	16	16.7	-	-	-	-
< 38 Weeks Gestation	205	196.2	180	188.3	22	282.1	2	-
Prenatal Care Began in 1st Trimester	767	734.0	722	755.2	37	474.4	6	666.7

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	7	6.7	6	6.3	1	*	-	-
Neonatal Deaths	5	*	5	*	-	-	-	-
Postneonatal Deaths	2	*	1	*	1	*	-	-
Perinatal Deaths	11	10.5	9	9.4	2	*	-	-
Fetal Deaths	6	5.7	4	*	2	*	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	650	339	311	584	298	286	59	39	20	4	1	3	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	7	3	3	-	6	7	3	19	29	44	109	420	-
White Male	1	1	2	-	3	4	2	13	14	21	67	170	-
White Female	5	2	1	-	2	1	-	4	12	17	34	208	-
Black Male	1	-	-	-	1	1	1	2	2	3	5	23	-
Black Female	-	-	-	-	-	1	-	-	1	2	2	14	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	-	-
Other Female	-	-	-	-	-	-	-	-	-	1	-	2	-

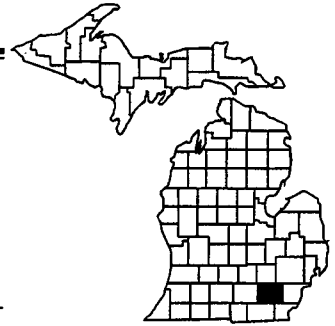
LEADING CAUSES OF DEATH

All Causes	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	650	880.1	584	858.9	59	1,240.3	12	53.1
Diseases of the Heart	219	296.5	202	297.1	13	273.3	-	-
Cancer	131	177.4	119	175.0	10	210.2	-	-
Cerebrovascular Diseases	41	55.5	36	52.9	5	*	-	-
Accidents and Adverse Effects	40	54.2	37	54.4	2	*	10	44.2
Chronic Obstructive Pulmonary Diseases and Allied Conditions	36	48.7	34	50.0	2	*	-	-
Pneumonia and Influenza	28	37.9	25	36.8	3	*	-	-
Diabetes Mellitus	13	17.6	10	14.7	3	*	-	-
Chronic Liver Disease and Cirrhosis	5	*	3	*	2	*	-	-
Homicide	6	8.1	5	*	1	*	-	-
Suicide	5	*	5	*	-	-	-	-
Atherosclerosis	11	14.9	10	14.7	1	*	-	-
AIDS	3	*	2	*	1	*	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Washtenaw County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	290,538	Total Live Births:	3,877	Total Deaths:	1,556
Rank Among Counties:	6	Mothers Age <18:	76	Infant Deaths:	27
Per Square Mile:	409.1	Low Weight Births:	261	Neonatal Deaths:	16
		First Births:	1,775	Postneonatal Deaths:	11
				Perinatal Deaths:	34
				Fetal Deaths:	26
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	2,146	Divorces:	1,227		
Marriage Rate:	14.8	Divorce Rate:	8.4		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	3,877	13.3	2,867	11.9	534	15.9	290	18.9
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	76	19.6	40	10.3	30	7.7	3	*
Low Weight	261	67.3	167	58.2	66	123.6	17	58.6
Under 1,500 Grams	59	15.2	38	13.3	16	30.0	2	*
< 38 Weeks Gestation	533	137.5	387	135.0	86	161.0	30	103.4
Prenatal Care Began in 1st Trimester	3,428	884.2	2,604	908.3	406	760.3	259	893.1

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	27	7.0	18	6.3	7	13.1	2	*
Neonatal Deaths	16	4.1	9	3.1	6	11.2	1	*
Postneonatal Deaths	11	2.8	9	3.1	1	*	1	*
Perinatal Deaths	34	8.7	21	7.3	10	18.5	1	*
Fetal Deaths	26	6.7	15	5.2	8	14.8	1	*

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	1,556	733	823	1,338	615	723	197	108	89	20	10	10	
	<b>Age in Years</b>												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	27	5	3	5	11	14	14	45	89	112	213	1,018	-
White Male	14	1	1	3	5	5	7	21	37	52	101	368	-
White Female	4	2	1	2	2	1	2	13	30	32	75	559	-
Black Male	4	1	1	-	2	5	4	7	15	15	22	32	-
Black Female	3	1	-	-	2	2	-	3	5	7	14	52	-
Other Male	1	-	-	-	-	-	-	-	2	3	1	3	-
Other Female	1	-	-	-	-	1	1	1	-	3	-	3	-

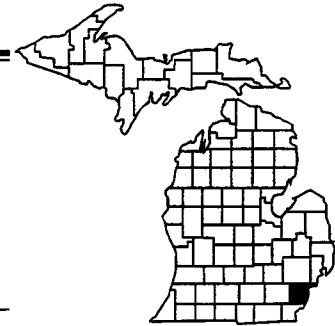
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,556	535.6	1,338	553.6	197	587.2	24	32.2
Diseases of the Heart	439	151.1	383	158.5	49	146.0	1	*
Cancer	381	131.1	327	135.3	48	143.1	3	*
Cerebrovascular Diseases	127	43.7	110	45.5	16	47.7	-	-
Accidents and Adverse Effects	56	19.3	47	19.4	8	23.8	7	9.4
Chronic Obstructive Pulmonary Diseases and Allied Conditions	62	21.3	59	24.4	2	*	-	-
Pneumonia and Influenza	65	22.4	60	24.8	4	*	-	-
Diabetes Mellitus	45	15.5	38	15.7	7	20.9	-	-
Chronic Liver Disease and Cirrhosis	13	4.5	9	3.7	3	*	-	-
Homicide	16	5.5	4	*	12	35.8	3	*
Suicide	20	6.9	18	7.4	2	*	2	*
Atherosclerosis	15	5.2	14	5.8	1	*	-	-
AIDS	12	4.1	6	2.5	6	17.9	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Wayne County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	2,064,914	Total Live Births:	32,875	Total Deaths:	21,267
Rank Among Counties:	1	Mothers Age <18:	2,191	Infant Deaths:	363
Per Square Mile:	3,357.0	Low Weight Births:	3,381	Neonatal Deaths:	244
		First Births:	12,421	Postneonatal Deaths:	119
				Perinatal Deaths:	384
				Fetal Deaths:	175
MARRIAGE		DIVORCE			
Marriages:	11,025	Divorces:	7,310		
Marriage Rate:	10.7	Divorce Rate:	7.1		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	32,875	15.9	16,260	14.1	15,832	18.1	616	18.7
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	2,191	66.6	543	16.5	1,623	49.4	18	0.5
Low Weight	3,381	102.8	995	61.2	2,318	146.4	57	92.5
Under 1,500 Grams	706	21.5	186	11.4	508	32.1	9	14.6
< 38 Weeks Gestation	6,780	206.2	2,538	156.1	4,093	258.5	131	212.7
Prenatal Care Began in 1st Trimester	24,284	738.7	13,800	848.7	9,905	625.6	467	758.1

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	363	11.0	81	5.0	279	17.6	1	*
Neonatal Deaths	244	7.4	56	3.4	186	11.7	1	*
Postneonatal Deaths	119	3.6	25	1.5	93	5.9	-	-
Perinatal Deaths	384	11.6	103	6.3	271	17.0	5	*
Fetal Deaths	175	5.3	56	3.4	111	7.0	4	*

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	21,267	10,991	10,273	11,959	5,936	6,022	9,183	4,991	4,190	119	63	56	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	363	79	37	44	177	251	258	928	1,590	1,837	3,560	12,135	8
White Male	37	11	6	7	41	45	45	209	360	521	1,155	3,496	3
White Female	43	8	7	8	11	15	29	93	192	326	813	4,476	1
Black Male	149	33	17	23	98	150	128	421	663	582	894	1,829	4
Black Female	128	25	7	6	27	36	54	197	364	393	669	2,284	-
Other Male	-	-	-	-	-	2	2	6	5	8	16	24	-
Other Female	1	2	-	-	-	3	-	2	6	7	12	23	-

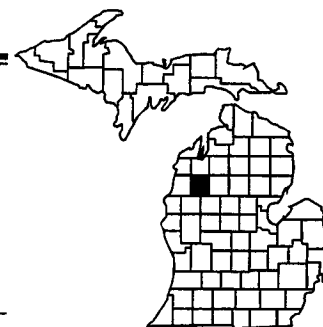
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	21,267	1,029.9	11,959	1,034.3	9,183	1,048.5	337	57.3
Diseases of the Heart	7,425	359.6	4,486	388.0	2,900	331.1	11	1.9
Cancer	4,690	227.1	2,868	248.0	1,788	204.2	17	2.9
Cerebrovascular Diseases	1,337	64.7	730	63.1	599	68.4	2	*
Accidents and Adverse Effects	644	31.2	323	27.9	319	36.4	81	13.8
Chronic Obstructive Pulmonary Diseases and Allied Conditions	722	35.0	522	45.1	196	22.4	8	1.4
Pneumonia and Influenza	693	33.6	384	33.2	304	34.7	8	1.4
Diabetes Mellitus	583	28.2	309	26.7	271	30.9	-	-
Chronic Liver Disease and Cirrhosis	340	16.5	175	15.1	161	18.4	-	-
Homicide	562	27.2	72	6.2	485	55.4	106	18.0
Suicide	210	10.2	130	11.2	77	8.8	25	4.3
Atherosclerosis	86	4.2	62	5.4	24	2.7	-	-
AIDS	452	21.9	92	8.0	360	41.1	4	*

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Profile of Wexford County



<b>POPULATION</b>		<b>NATALITY</b>		<b>MORTALITY</b>	
As of April 1, 1995:	28,108	Total Live Births:	379	Total Deaths:	263
Rank Among Counties:	47	Mothers Age <18:	24	Infant Deaths:	3
Per Square Mile:	49.7	Low Weight Births:	18	Neonatal Deaths:	2
		First Births:	157	Postneonatal Deaths:	1
				Perinatal Deaths:	2
				Fetal Deaths:	1
<b>MARRIAGE</b>		<b>DIVORCE</b>			
Marriages:	271	Divorces:	182		
Marriage Rate:	19.3	Divorce Rate:	13.0		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	379	13.5	374	13.5	1	*	3	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	24	63.3	24	63.3	-	-	-	-
Low Weight	18	47.5	18	48.1	-	-	-	-
Under 1,500 Grams	3	*	3	*	-	-	-	-
< 38 Weeks Gestation	54	142.5	52	139.0	1	*	1	*
Prenatal Care Began in 1st Trimester	276	728.2	272	727.3	1	*	2	*

Note: Rate is per 1,000 estimated population in 1994 and ratio per 1,000 live births in 1995 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	3	*	3	*	-	-	-	-
Neonatal Deaths	2	*	2	*	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	2	*	2	*	-	-	-	-
Fetal Deaths	1	*	1	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1995 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	263	120	143	262	120	142	-	-	-	1	-	1	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	3	2	1	1	1	-	-	8	11	18	47	171	-
White Male	-	-	1	1	1	-	-	4	7	10	26	70	-
White Female	3	2	-	-	-	-	-	4	3	8	21	101	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	1	-	-	-	-

LEADING CAUSES OF DEATH

All Causes	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	263	935.7	262	945.6	-	-	5	*
Diseases of the Heart	80	284.6	80	288.7	-	-	-	-
Cancer	67	238.4	67	241.8	-	-	-	-
Cerebrovascular Diseases	22	78.3	22	79.4	-	-	-	-
Accidents and Adverse Effects	16	56.9	15	54.1	-	-	2	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	17	60.5	17	61.4	-	-	-	-
Pneumonia and Influenza	9	32.0	9	32.5	-	-	-	-
Diabetes Mellitus	7	24.9	7	25.3	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	2	*	2	*	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1994 in specified group.

Source: Office of the State Registrar and Division of Health Statistics, MDCH





# NATALITY

## SECTION I





## NATALITY

### KEY TRENDS

**Demographic** Between 1900 and 1995, the number of total births (live births and fetal deaths) has varied considerably. The general trend has been increasing numbers of total births from 1900 through 1957, declining numbers through 1976 and fairly stable numbers until 1989. During 1989 through 1991 there were more total births each year in Michigan than had been born to Michigan residents in any year since 1972. There was a 10.2 percent drop in the number of total births between 1991 and 1995.

In the last twenty years fertility rates for white and black women decreased with the fertility rates for white women reaching a low level by about 1975 and for black women by about 1985. Fertility rates for white women have remained fairly stable since 1975, while rates for black women rose after 1985, peaked in 1990 and have generally declined since then. During this time period there has been an increase in the percent of births to minority race populations from 17.8 percent in 1975 to 21.6 percent of the births in 1995.

Since 1980 birth rates for white teenage women have fluctuated from a low in 1983 of 35.3 births per 1,000 white women 15 to 19 years of age to a high of 43.6 in 1990. Rates for black teenage women have fluctuated from a low of 85.9 in 1982 to a high of 135.6 in 1990. The rates have declined to 41.3 and 91.5 in 1995 for white and black teens, respectively.

**Prenatal Care** A national goal is to increase to at least 90 percent the proportion of pregnant women who initiate prenatal care in the first trimester of pregnancy by the year 2000. In Michigan, the percentage of mothers who initiated care early increased from 69 percent in 1970 to a peak of 81 percent in 1985 and was about 81 percent in 1995. In 1995, the highest percentages of mothers who initiated care early occurred among white and Asian and Pacific Islander mothers and mothers of Arab ancestry (80 to 85 percent). The lowest percentages occurred among black and American Indian mothers and mothers of Hispanic ancestry (65 to 73 percent).

### An Overview, 1995

Total Resident Births (live births & fetal deaths)	134,936
Total Resident Live Births	134,169
Resident Live Births per Day	367.6
Total Resident Fetal Deaths	767
Resident Fetal Deaths per Day	2.1
Crude Birth Rate	14.1
Fertility Rate	61.3
Fetal Death Ratio	5.7
First Births (percent of total live births)	40.2
Median Birthweight in Grams (live births)	3,374
Median Birthweight in Grams (fetal deaths)	850
Low Birthweight Live Births	10,356
Low Birthweight Ratio	77.2
Median Age of Mother (live births)	27
Median Age of Mother (fetal deaths)	27
Live Births with Congenital Anomalies	1,013
Congenital Anomalies per 10,000 Live Births	76
Live Births with No Prenatal Care	1,677
No Prenatal Care Ratio	1.2
Home Births	808
Live Born Sets of Twins	1,794
Live Born Sets of Triplets	59
Live Born Multiple Births of Four or More	1
Male Live Births per 100 Female Live Births	1.1

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Birth Outcome** A national goal is to have the percent of infants with low birthweight be no more than 5 percent overall and 9 percent among infants born to black mothers by the year 2000. The low birthweight percentage in Michigan declined from 8.0 percent in 1966 to a low of 6.8 percent in 1985. It increased to 7.7 percent in 1995. The percent for white mothers decreased from 6.6 in 1970 to 6.3 in

1995, while the percent for black mothers fell from 14.3 in 1970 to 14.0 in 1995. Of more concern is the percent of births with extremely low birthweight (less than 750 grams) where about 65 percent of the live births will die within one year, usually in the first day of life. While 0.3 percent of the infants born to white and Asian and Pacific Islander mothers and mothers of Arab and Hispanic ancestry had extremely low birthweight in 1995, 1.2 percent of the live births to black mothers had extremely low birthweight.

**Tobacco Use** A national goal is to reduce tobacco use by pregnant women to less than 10 percent of the births by the year 2000. In 1995 18.1 percent of the pregnant Michigan women used tobacco during their pregnancy.

Tobacco use during pregnancy was highest among American Indian mothers (35.0 percent). About 4 percent of the Asian and Pacific Islander mothers and the mothers of Arab ancestry smoked. About 11 percent of the mothers of Hispanic ancestry smoked, while 17 and 19 percent of the black and white mothers smoked, respectively.

### LIVE BIRTHS

**Michigan Trend** The smallest number of live births officially recorded in this century was 43,221 in 1901. The actual number of live births was undoubtedly higher. Because of the method of recording, many live births were probably not recorded.

Live births generally increased from 43,699 in 1900 to 208,488 in the peak year of 1957 with major declines occurring during the first years of the Great Depression and the Second World War (Figure 1.1). Between 1957 and 1976, live births decreased by 37.0 percent to 131,378, the lowest total since 1945. Between 1977 and 1988 the number of births fluctuated between a high of 145,162 live births in 1980 and a low of 133,026 in 1983. There was a sharp increase in the number of live births in 1989 and 1990. The number of births has declined since 1990 to 134,169 in 1995.

**United States** The national pattern was similar to that observed in Michigan. For 1995, the provisional figure was 3,900,089, a decrease of 1.3 percent from 1994.

**Crude Birth Rates** Another view of the historic pattern in live births may be obtained through examination of changes in the crude birth rate, the number of births per 1,000 Michigan residents. The historic low rate of 14.1 was achieved in 1995. Prior to 1995, in this century, the crude birth rate ranged from a low of 14.4 per 1,000 residents in 1976 to a high of 27.4 in 1956 (Figure 1.2). Between 1976 and 1988, the rate fluctuated between the high of 15.7 in 1980 and a low of 14.7 in 1983. From 1989 through 1991 the crude birth rate was about 16 live births per 1,000 residents. The 1995 rate of 14.1 is 11.9 percent lower than the rate in 1991.

Table 1.1  
Live Births and Crude Birth Rates  
Michigan and United States Residents  
Selected Years, 1900 - 1995

United States		Year	Michigan	
Number	Rate		Number	Rate
---	---	1900	43,699	18.1
2,618,000	21.3	1930	98,882	20.4
4,257,850	23.7	1960	195,056	24.9
3,731,386	18.4	1970	171,667	19.3
3,612,258	15.9	1980	145,162	15.7
3,629,238	15.8	1981	140,579	15.3
3,680,537	15.9	1982	137,950	15.1
3,638,933	15.6	1983	133,026	14.7
3,669,141	15.6	1984	135,782	15.0
3,760,561	15.8	1985	138,052	15.2
3,756,547	15.6	1986	137,626	15.1
3,809,394	15.7	1987	140,466	15.3
3,909,510	16.0	1988	139,635	15.1
4,040,958	16.4	1989	148,164	16.0
4,158,212	16.7	1990	153,080	16.4
4,110,907	16.3	1991	149,478	16.0
4,065,014	15.9	1992	143,827	15.3
4,000,240	15.5	1993	139,560	14.8
3,952,767	15.2	1994	137,844	14.5
3,900,089Pr.	14.8Pr.	1995	134,169	14.1

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Source: United States - NCHS Monthly Vital Statistics Report Provisional U.S. - Vol.45, No.5, Supplement 2, Oct. 4, 1996

Figure 1.1  
**Live Births**  
 Michigan Residents, 1900-1995

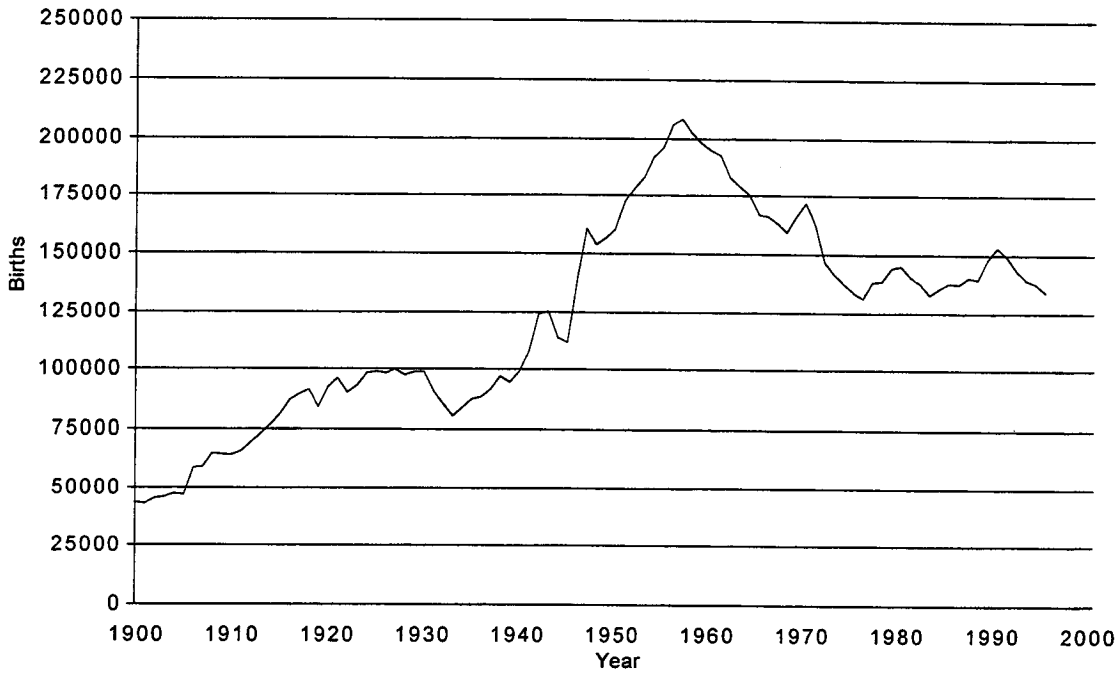
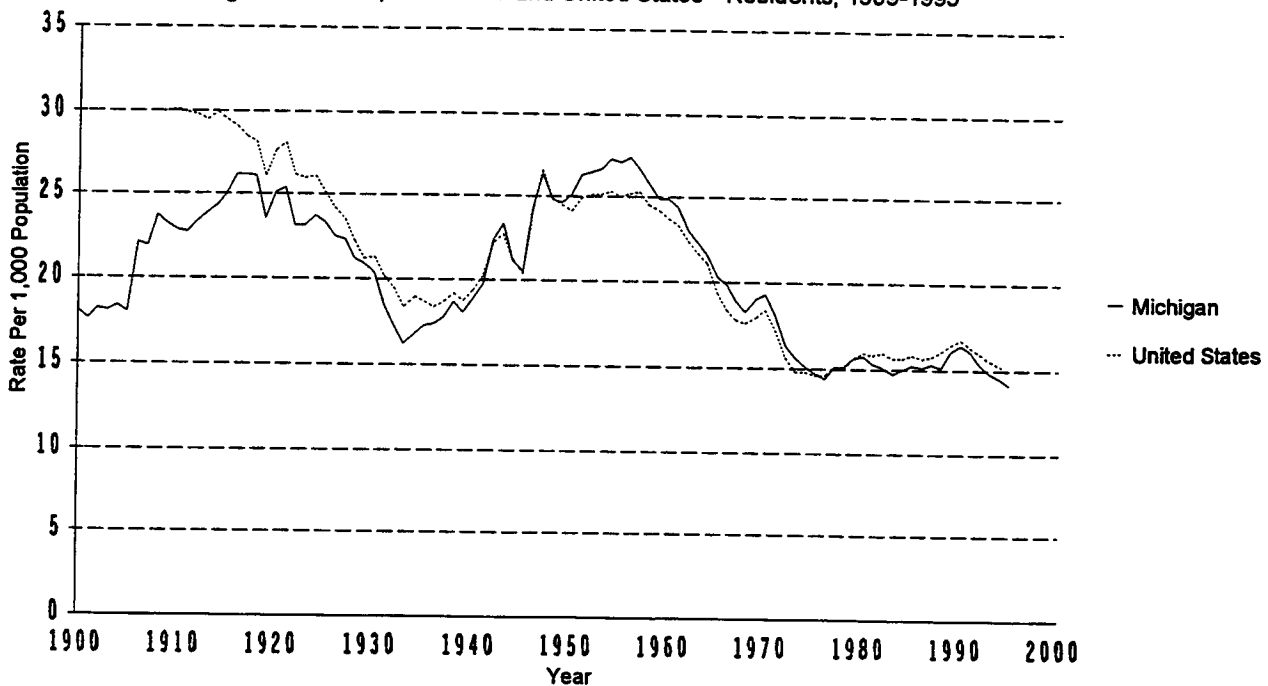


Figure 1.2  
**Live Birth Rates**  
 Michigan Residents, 1900-1995 and United States<sup>1</sup> Residents, 1909-1995

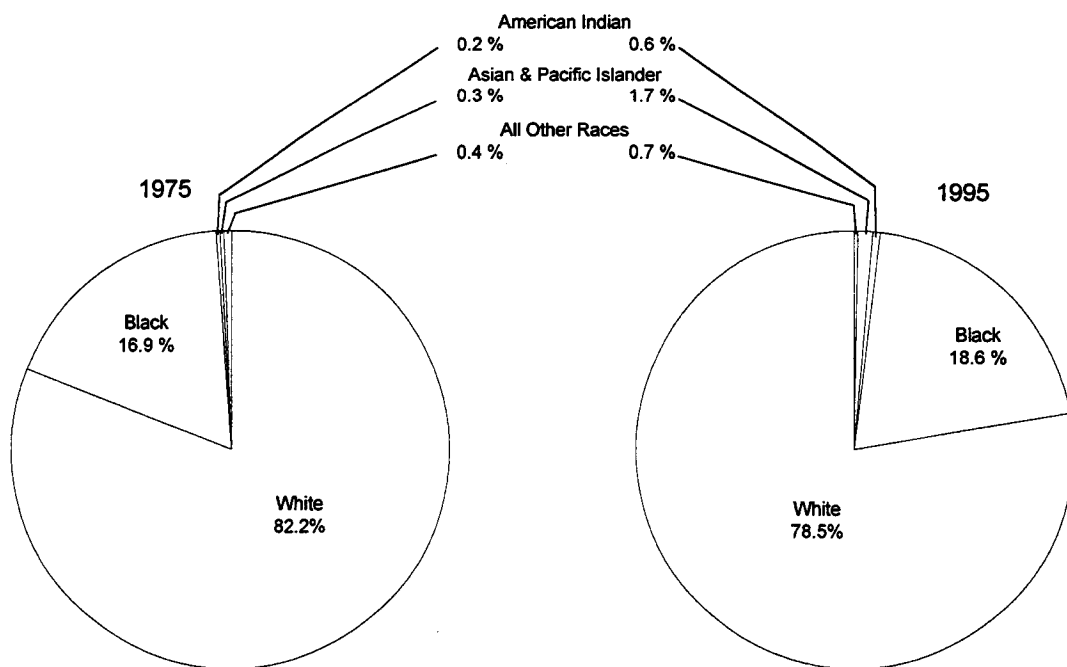


**AGE, RACE AND ANCESTRY**

**Racial Composition** As part of the changing demographics in Michigan, the racial composition of women having live births in Michigan changed over the period 1975 through 1995 (Figure 1.3). Live births to white women declined from 82.2 percent of

all live births in 1975 to 78.5 percent in 1995. The percentages of live births born to mothers of minority race groups increased from 17.8 to 21.5 percent during the twenty year interval.

**Figure 1.3**  
**Live Birth Percents<sup>1</sup> by Mother's Race or National Origin**  
**Michigan Residents, 1975 and 1995**



<sup>1</sup> The total may not add to 100 percent due to rounding.

Note: In 1975 Korean race was included in all other races and Asian Indian race was included in white.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Mother's Age** In 1995, 36.7 percent of all live births were to women less than 25 years of age (Table 1.2). Only 1.6 percent occurred to women over 39 years of age. The median age of Michigan mothers was 27 years. Black, American Indian and Hispanic mothers were younger (median: 23 or 24 years), while white, Asian and Pacific Islander and Arab mothers were older (median: 28 to 29 years).

**Teenage Mothers** Differences are reflected in the proportion of teenage births in each race or ancestry group. Although over half of the births to teenage women are to white mothers, only about 1 in 10 births to white mothers were born to a teenage women. Even lower proportions of Asian and Pacific Islander mothers and mothers of Arab ancestry were under age 20, about 1 in 19 and 1 in 16 respectively. About 1 in 4 births to black mothers and 1 in 5 births to American Indian mothers and mothers of Hispanic ancestry were born to teenage mothers.

**Table 1.2**  
**Live Births and Percent<sup>1</sup> Distribution by Age, Race<sup>2</sup> and Ancestry of Mother**  
**Michigan Residents, 1995**

Age of Mother in Years	Race												Ancestry			
	All Races		White		Black		Amer. Indian		Asian & P.I.		All Other Races		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
< 15	377	0.3	126	0.1	242	1.0	1	*	6	0.3	-	-	2	*	27	0.6
15-19	16,444	12.3	10,327	9.8	5,780	23.2	163	20.6	117	5.1	7	13.7	162	6.3	958	20.1
20-24	32,365	24.1	23,431	22.3	8,117	32.6	275	34.7	396	17.4	20	39.2	641	24.8	1,539	32.3
25-29	38,669	28.8	32,059	30.5	5,414	21.7	190	24.0	757	33.2	10	19.6	778	30.1	1,161	24.4
30-34	31,721	23.6	27,149	25.8	3,483	14.0	106	13.4	684	30.0	3	*	641	24.8	736	15.4
35-39	12,458	9.3	10,431	9.9	1,582	6.3	48	6.1	259	11.4	9	17.6	277	10.7	296	6.2
40 +	2,110	1.6	1,733	1.6	290	1.2	9	1.1	62	2.7	1	*	80	3.1	48	1.0
Not stated	25	0.0	18	0.0	6	0.0	-	-	-	-	1	*	-	-	1	*
<b>Total</b>	<b>134,169</b>	<b>100.0</b>	<b>105,274</b>	<b>100.0</b>	<b>24,914</b>	<b>100.0</b>	<b>792</b>	<b>100.0</b>	<b>2,281</b>	<b>100.0</b>	<b>51</b>	<b>100.0</b>	<b>2,581</b>	<b>100.0</b>	<b>4,766</b>	<b>100.0</b>
Median age at last birthday	27		28		23		24		29		24		28		24	

<sup>1</sup> The total may not add to 100 percent due to rounding.  
<sup>2</sup> Records with race not stated are included only in the "All Races" column.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

## FERTILITY

The fertility rate relates the number of live births to the female population of childbearing age, 15 through 44 years. Similarly, age-specific rates which relate the number of live births to the females in a specific age group provide more detail on the fertility of women in the age group.

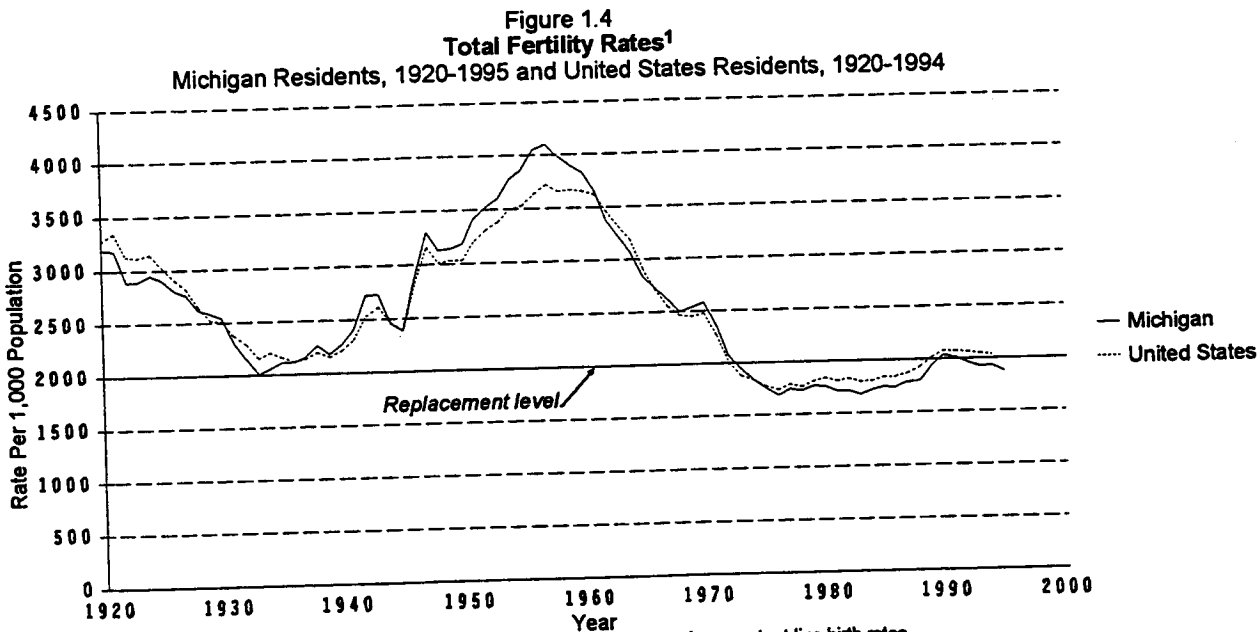
**Trends** A comparison of fertility rates since 1900 for Michigan with those for the United States since 1930 is presented in Table 1.3. The crude birth rate changes discussed above understate the recent decline in fecundity for both regions. The fertility rate for Michigan in 1995 was 50.2 percent below the 1960 rate, while the crude birth rate decreased 43.4 percent over the 35 years.

**Total Fertility** Figure 1.4 displays the changes in the total fertility rate between 1920 and 1995 for Michigan and the United States. (See also Table 4.4) The total fertility rate is a hypothetical measure of the number of live births that would occur to each 1,000 women during their reproductive life, if these women experienced the age-specific birth rates observed in a given year.

**Table 1.3**  
**Fertility Rates**  
Michigan and United States Residents  
Selected Years, 1900-1995

United States	Year	Michigan
---	1900	78.5
89.2	1930	87.6
118.0	1960	123.1
87.9	1970	91.7
68.4	1980	66.2
67.4	1981	64.3
67.3	1982	63.5
65.8	1983	61.6
65.4	1984	62.6
66.3	1985	63.1
65.4	1986	62.2
65.8	1987	63.0
67.3	1988	62.8
69.2	1989	66.9
70.9	1990	69.0
69.6	1991	67.2
68.9	1992	65.1
67.6	1993	63.5
66.7	1994	63.0
65.6Pr.	1995	61.3

Source: Office of the State Registrar and Division of Health Statistics, MDCH  
 Source: United States - NCHS Monthly Vital Statistics Report Vol.45, No.5, Supplement 2



<sup>1</sup> Total fertility rate is total children born to 1,000 women in their lifetime assuming constant live birth rates.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



Michigan's total fertility rate has generally paralleled that of the nation. The Michigan rate dropped from 3,195.5 in 1920 to 2,006.5 in 1933 and then increased between 1933 and 1957, reaching 4,100.0 in the latter year. Between 1957 and 1995 the total fertility rate in Michigan declined to a low of 1,682.0 in 1976 and increased to 1,877.5 in 1995. The rate was 2,036.0 in 1994 for the United States. The national rates have been higher than the Michigan rates since 1975.

In 1990, for the first time since 1972, both Michigan and national total fertility rates were above 2,000. In 1992 through 1995 the Michigan total fertility rate was again below 2,000. A total fertility rate of over 2,000 is necessary for replacement of the parents, since not all women survive the reproductive years nor would all children survive to adulthood. If the total fertility rate falls below 2,000 for a long period, a natural decrease in population will eventually occur. It should be noted that although the total fertility rate has almost always been below 2,000 since 1973, the rate of natural increase for Michigan remains positive. Over the period 1973 through

1995, there were 1,430,835 persons added to the population of Michigan through the excess of live births over deaths. During that period, there has been a net migration of 1,006,762 people out of Michigan.

Table 1.4 provides a comparison between fertility rates for white and black women in Michigan for the period since 1970.

The fertility rate for black women was 40.5 percent above the rate for white women in 1970, fell sharply to 9.8 percent higher in 1985 and increased to 44.4 percent higher in 1991 then decreased again to 19.2 percent higher in 1995. Since 1970 the fertility rate for black women has declined 43.1 percent compared with a 32.9 percent drop for white women.

The fertility rates for white women declined to a low level of 60.7 in 1976, then rose to a high of 64.5 in 1990. Similarly, rates for black women declined to 68.5 in 1985 and then increased to a high of 92.7 in 1990. Since then the rates have declined to a new low of 59.0 for white women and the lowest rate (70.3) for black women since 1985.

Table 1.4  
**Fertility Rates by Race of Mother**  
 Michigan Residents, Selected Years, 1970-1995

Year	Fertility Rate	
	White	Black
1970	87.9	123.5
1975	62.6	89.5
1980	64.3	77.9
1985	62.4	68.5
1990	64.5	92.7
1991	62.9	90.8
1992	61.5	84.8
1993	60.3	80.3
1994	59.9	76.5
1995	59.0	70.3
Percent change 1970-1995	-32.9	-43.1

Source: Office of the State Registrar and Division of Health Statistics, MDCH

## AGE-SPECIFIC LIVE BIRTH RATES

**All Women** Figure 1.5 displays age-specific live birth rates for the period 1970-1995. Live birth rates in all age groups dropped between 1970 and 1976. For women under 20 years of age the rate continued to decline throughout the years 1976-1983 reaching a low of 43.1 in 1983. The rate increased after 1983 to a high of 60.5 in 1990 then declined to 51.3 in 1995.

After declining between 1970 and 1976, live birth rates for women between 20-24 and 25-29 years of age remained stable until 1980. The rates decreased to the century low level in 1983 and increased to relatively high levels in 1990. These rates are decreasing again.

For women in the age groups 30-34 and 35-39, live birth rates decreased from high levels in 1956 and 1957 to century low rates in 1976, then increased by 62.1 and 86.5 percent, respectively, by 1995 (Appendix Table 4.4).

**Black and White Women** Figures 1.6 and 1.7 present the trends in age-specific rates for white and black women respectively for the period 1980-1995.

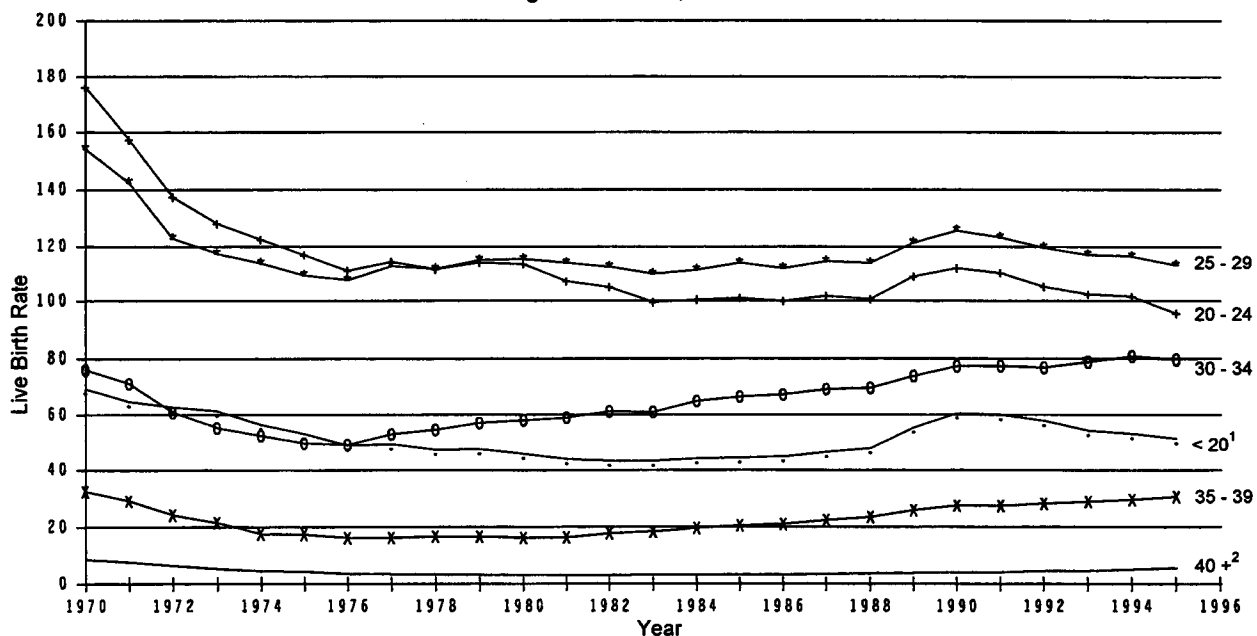
Rates for black women under age 25 were above those for white women during these years. The live birth rates for white and black women aged 25 and over were similar.

Between 1980 and 1995 rates for white females increased for all age groups, except for ages 20 to 29. For black females ages 20-29, rates increased through 1990 then decreased through 1995. There was a gradual increase in rates for ages 30 and above between 1980 and 1995 for both groups.

For black teenage women, birth rates fluctuated between 1980 and 1985, increased from 1986 to 1990, and decreased by 32.5 percent in 1995. The rates for white teenagers fell from 1980 through 1983, remained fairly constant until 1988, rose through 1990 and decreased by 5.3 percent in 1995.

The pattern observed for black teens between 1980 and 1995 was mirrored by black women between ages 20 and 29. In 1993 the rate for black teens fell below the rate for black women age 25-29 for the first time since 1986.

Figure 1.5  
Age-Specific Live Birth Rates  
Michigan Residents, 1970-1995

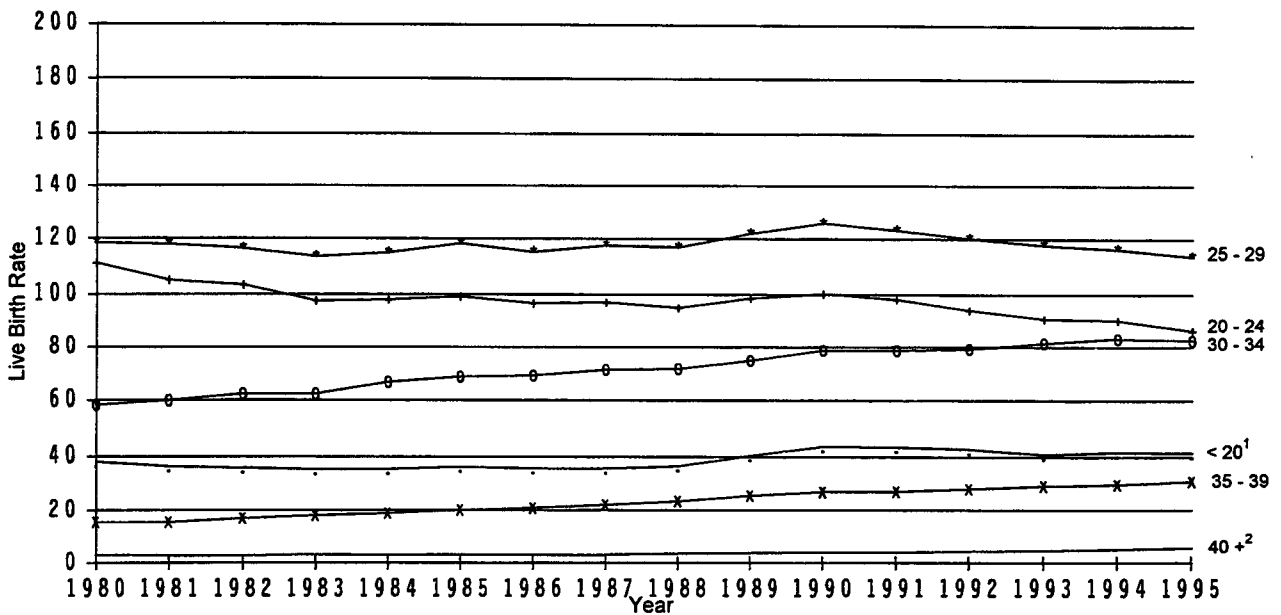


<sup>1</sup> Based on live births to women under 20 and population of females 15-19.

<sup>2</sup> Based on live births to women 40 and over and population of females 40-44.

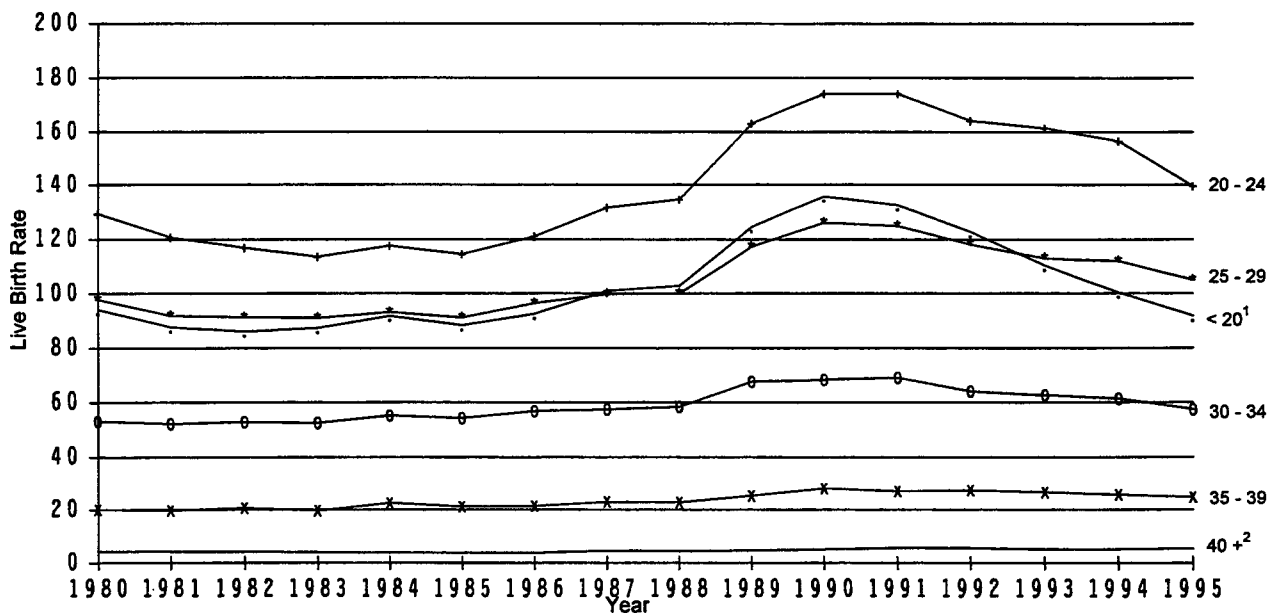
Source: Office of the State Registrar and Division of Health Statistics, MDCH

Figure 1.6  
**Age-Specific Live Birth Rates to White Mothers**  
 Michigan Residents, 1980-1995



<sup>1</sup> Based on live births to women under 20 and population of females 15-19.  
<sup>2</sup> Based on live births to women 40 and over and population of females 40-44.  
 Source: Office of the State Registrar and Division of Health Statistics, MDCH

Figure 1.7  
**Age-Specific Live Birth Rates to Black Mothers**  
 Michigan Residents, 1980-1995

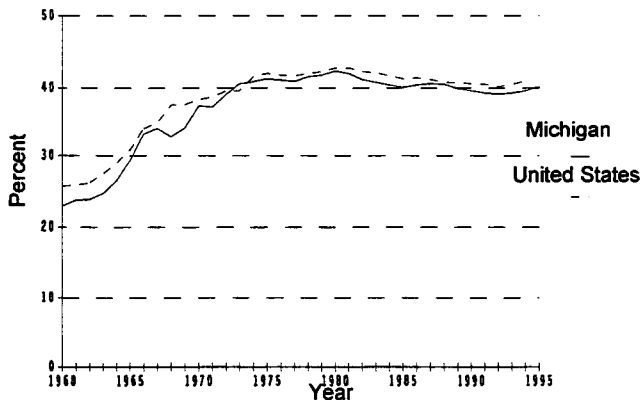


<sup>1</sup> Based on live births to women under 20 and population of females 15-19.  
<sup>2</sup> Based on live births to women 40 and over and population of females 40-44.  
 Source: Office of the State Registrar and Division of Health Statistics, MDCH

**BIRTH ORDER**

The percent of live births which were first-order births is displayed in Figure 1.8 for Michigan and the United States for the period 1960 to 1995. Between 1960 and 1980, the percent of first-order births increased from 22.9 to 42.4 in Michigan. Then the percentage generally decreased to 40.2 in 1995. Percentages for the United States followed a similar pattern.

**Figure 1.8**  
**First Births as a Percentage of All Live Births**  
 Michigan Residents, 1960-1995 and  
 United States Residents, 1960-1994



Source: Office of the State Registrar and Division of Health Statistics, MDCH

**INTERPREGNANCY TIME PERIOD**

In 1995 women having live births whose most recent prior termination was a fetal death had a median time span of 1 year and 9 months between their previous termination and a live birth (Table 1.5). This compares to a median of 2 years 9 months for women having prior live births. A spacing of less than one year was observed for 13.2 percent of all women reporting their most recent prior pregnancy was a fetal death, but only 1.7 percent of all women reporting their most recent prior pregnancy was a live birth.

**Table 1.5**  
**Live Births to Women Reporting Prior**  
**Pregnancy Terminations<sup>1</sup> by Time Span**  
**Between Last and Current Termination and**  
**by Whether Prior Termination Resulted**  
**in a Live Birth or a Fetal Death<sup>2</sup>**  
 Michigan Residents, 1995<sup>3</sup>

Time Span In Years	Total		Prior Fetal Death		Prior Live Birth	
	Number	%	Number	%	Number	%
<b>Total</b>	86,435	100.0	20,367	100.0	66,068	100.0
< 1	3,839	4.4	2,696	13.2	1,143	1.7
1-2	26,173	30.3	8,620	42.3	17,553	26.6
2-3	20,360	23.6	2,988	14.7	17,372	26.3
3-5	20,027	23.2	2,705	13.3	17,322	26.2
5 +	16,036	18.6	3,358	16.5	12,678	19.2
<b>Median time span</b>	2 yrs., 7 mos.		1 yr., 9 mos.		2 yrs., 9 mos.	

<sup>1</sup> Terminations with time spans of zero years (i.e., second or later births in plural deliveries) and terminations with unknown time spans are excluded.

<sup>2</sup> Fetal death as defined for the pregnancy history on the birth record is a fetal death of any gestational age.

<sup>3</sup> The methodology for calculating interpregnancy time span was altered slightly in 1984. Hence, median time spans and percentages are not comparable to statistics published prior to 1984.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

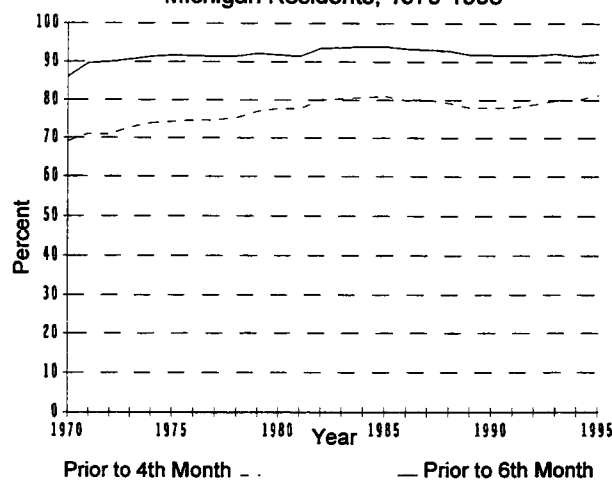
### PRENATAL CARE

**Trend** Pregnant women are encouraged to initiate prenatal care during the first trimester and to receive care on a regular, prescribed basis until delivery occurs. The percentage of women delivering live born infants who initially obtained prenatal care in the first trimester of pregnancy increased steadily between 1970, when the figure was 69.0, and 1985 when it rose to 81.0 (Figure 1.9). Between 1986 and 1994 it fluctuated between 78.0 and 80.0. The highest percentage of women (81.3 percent) obtained care in the first trimester in 1995.

**Race, Ancestry and Age** The proportion of live births to women receiving early prenatal care varied considerably by race, ancestry and age of mother (Table 1.6). In 1995, 85.3 percent of infants born to white women were born to mothers who began their prenatal care in the first trimester. Similar percentages of Asian and Pacific Islander mothers and mothers of Arab ancestry initiated care early, 80.4 and 84.7 percent respectively. Lower percentages of black and American Indian mothers and mothers of Hispanic ancestry initiated care early, 64.7 to 73.4 percent.

Eighty-three or more percent of live births to women aged 25 or over were to women who sought care promptly. The proportion fell to 34.7 percent for women under 15 years. About two in three (65.0 percent) infants born to mothers 15-19 years of age were to mothers who received care early.

Figure 1.9  
Percent of Women Having Live Births Who Received Care Prior to the 4th Month and 6th Month of Pregnancy Michigan Residents, 1970-1995



Source: Office of the State Registrar and Division of Health Statistics, MDCH

Similar patterns in the proportion of mothers initiating care early by age of mother are evident for the race and ancestry groups. However, the proportions were generally highest in each age group for white mothers and mothers of Arab ancestry, and next highest for Asian and Pacific Islander mothers. In each age group lower proportions of American Indian mothers, mothers of Hispanic ancestry and black mothers initiated care early.

Table 1.6  
Numbers and Percents<sup>1</sup> of Live Births with Prenatal Care Beginning in the First Trimester by Age, Race and Ancestry of Mother Michigan Residents, 1995

Age of Mother in Years	Race <sup>2</sup>										Ancestry					
	All Races		White		Black		Amer. Indian		Asian & P.I.		All Other Races		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
< 15	131	34.7	53	42.1	75	31.0	-	-	3	*	-	-	2	*	9	33.3
15-19	10,682	65.0	7,260	70.3	3,210	55.5	107	65.6	75	64.1	4	*	126	77.8	548	57.2
20-24	24,587	76.0	18,709	79.8	5,302	65.3	202	73.5	282	71.2	14	70.0	541	84.4	1,014	65.9
25-29	33,301	86.1	28,497	88.9	3,829	70.7	143	75.3	624	82.4	7	70.0	677	87.0	859	74.0
30-34	27,832	87.7	24,501	90.2	2,423	69.6	84	79.2	577	84.4	3	*	544	84.9	571	77.6
35-39	10,766	86.4	9,304	89.2	1,088	68.8	39	81.3	218	84.2	7	77.8	235	84.8	218	73.6
40 +	1,751	83.0	1,485	85.7	190	65.5	6	66.7	54	87.1	1	*	61	76.3	36	75.0
Not stated	15	60.0	11	61.1	3	*	-	-	-	-	1	*	-	-	1	*
<b>Total</b>	<b>109,067</b>	<b>81.3</b>	<b>89,820</b>	<b>85.3</b>	<b>16,120</b>	<b>64.7</b>	<b>581</b>	<b>73.4</b>	<b>1,833</b>	<b>80.4</b>	<b>37</b>	<b>72.5</b>	<b>2,186</b>	<b>84.7</b>	<b>3,256</b>	<b>68.3</b>

<sup>1</sup> Percents are calculated by using the numbers in Table 1.2 as the denominator.

<sup>2</sup> Records with race not stated are included only in the "All Races" column.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**No Care** In 1995, 1,677 resident live births, or 12.5 of every 1,000, occurred with the mother having had no prenatal care (Table 1.7). This figure includes only those where it was specified on the birth record that the mother received no prenatal care. The comparative statistics were 6.3 in 1985 and 22.6 in 1970.

Those who received no prenatal care were for the most part younger mothers (median age of 24). Also, the lack of prenatal care was disproportionately high among black mothers (34.7 per 1,000 live births).

**Adequacy of Care** A measure of the quality of care has been developed by Dr. D. W. Kessner which combines information on the month prenatal care began, the gestational age at birth and the number of

prenatal visits (see Technical Notes). Adequate prenatal care was obtained by mothers of 75.1 percent of the live births (Table 1.8). The proportions of live births to white mothers and mothers of Arab ancestry who received adequate care (80.2 and 78.9 percent) were higher than the corresponding proportions for black and American Indian mothers (54.6 and 65.8 percent) and mothers of Hispanic ancestry (61.2 percent).

Inadequate care was received by the mothers of 9.1 percent of all live births. The proportions of live births to mothers who received inadequate care were 5.7 percent for white mothers, 9.3 to 13.2 percent for Asian and Pacific Islander mothers, American Indian mothers and mothers of Arab and Hispanic ancestry and 23.0 percent for black mothers.

Table 1.7  
Live Births and Birth Ratios with No Prenatal Care by Age and Race of Mother  
Michigan Residents, 1995

Age of Mother in Years	Race of Mother									
	All Races		White		Black		All Other Races		Not Stated	
	Number	Ratio <sup>1</sup>	Number	Ratio <sup>1</sup>	Number	Ratio <sup>1</sup>	Number	Ratio <sup>1</sup>	Number	Ratio <sup>1</sup>
< 15	24	63.7	8	63.5	16	66.1	-	-	-	-
15-19	367	22.3	163	15.8	196	33.9	6	20.9	2	*
20-24	493	15.2	222	9.5	262	32.3	7	10.1	2	*
25-29	375	9.7	198	6.2	167	30.8	8	8.4	2	*
30-34	249	7.8	107	3.9	133	38.2	5	*	4	*
35-39	145	11.6	66	6.3	74	46.8	5	*	-	-
40 +	24	11.4	7	4.0	17	58.6	-	-	-	-
Not stated	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>1,677</b>	<b>12.5</b>	<b>771</b>	<b>7.3</b>	<b>865</b>	<b>34.7</b>	<b>31</b>	<b>9.9</b>	<b>10</b>	<b>11.7</b>
Median age at last birthday	24		24		23		25		28	

<sup>1</sup> Ratios are calculated by using the numbers in Table 1.2 as the denominator.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Although the mothers of 81.3 percent of all live births received prenatal care during the first trimester, only 75.1 percent received adequate care as defined by the *Kessner Index*. Overall, this means that of the mothers who initiated prenatal care most promptly, 7.6 percent (8,243 women) did not receive the minimum number of visits they should have received (Tables 1.6 and 1.8).

Considered as a proportion of the live births to mothers who did not receive adequate care (32,672 women), 25.2 percent of the live births to mothers not receiving adequate care were to mothers who initiated care within the recommended first trimester, but did not continue to receive the appropriate minimum number of prenatal care visits.

**Table 1.8  
Numbers and Percents of Live Births by Level of Prenatal Care, Race and Ancestry of Mother  
Michigan Residents, 1995**

Level of Prenatal Care ( <i>Kessner Index</i> <sup>1</sup> )	Race <sup>2</sup>												Ancestry			
	All Races		White		Black		Amer. Indian		Asian & P.I.		All Other Races		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Adequate	100,824	75.1	84,394	80.2	13,597	54.6	521	65.8	1,675	73.4	31	60.8	2,036	78.9	2,917	61.2
Intermediate	20,448	15.2	14,429	13.7	5,353	21.5	187	23.6	354	15.5	14	27.5	293	11.4	1,195	25.1
Inadequate	12,224	9.1	6,052	5.7	5,723	23.0	79	10.0	235	10.3	6	11.8	241	9.3	631	13.2
Unknown	673	0.5	399	0.4	241	1.0	5	*	17	0.7	-	-	11	0.4	23	0.5
<b>Total</b>	<b>134,169</b>	<b>100.0</b>	<b>105,274</b>	<b>100.0</b>	<b>24,914</b>	<b>100.0</b>	<b>792</b>	<b>100.0</b>	<b>2,281</b>	<b>100.0</b>	<b>51</b>	<b>100.0</b>	<b>2,581</b>	<b>100.0</b>	<b>4,766</b>	<b>100.0</b>

<sup>1</sup> The *Kessner Index* is a classification of prenatal care based on the month of pregnancy in which prenatal care began, the number of prenatal visits and the length of pregnancy (i.e., for shorter pregnancies, fewer prenatal visits constitute adequate care.)

<sup>2</sup> Records with race not stated are included only in the "All Races" column.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

## BIRTHWEIGHT

The mean weight for all live births was 3,334 grams or approximately 7 pounds 6 ounces (Table 1.9). The median birthweight was 3,374 grams or about 7 pounds 7 ounces. The median birthweight was lowest for infants born to black mothers, highest for white and American Indian mothers. The medians were somewhat lower for mothers of Arab and Hispanic ancestry. The median birthweight for infants born to Asian and Pacific Islander mothers was about 198 and 227 grams lower than the medians for infants born to white and American Indian

mothers and 72 grams higher than the median for infants born to black mothers.

Infants born to black mothers had a higher proportion of birthweights with extremely low birthweight below 750 grams (1.2 percent). Other race and ancestry groups had 0.3 percent of the births below 750 grams. Infants born with this extremely low birthweight have very high mortality rates (over 65 percent mortality).

Table 1.9  
Numbers and Percents of Live Births by Birthweight, Race and Ancestry of Mother  
Michigan Residents, 1995

Weight at Birth in Grams	Race <sup>1</sup>												Ancestry			
	All Races		White		Black		Amer. Indian		Asian & P.I.		All Other Races		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
<750	662	0.5	344	0.3	302	1.2	3	*	6	0.3	-	-	7	0.3	13	0.3
750-1,499	1,319	1.0	808	0.8	482	1.9	8	1.0	14	0.6	-	-	20	0.8	43	0.9
1,500-2,499 <sup>2</sup>	8,375	6.2	5,437	5.2	2,712	10.9	42	5.3	135	5.9	3	*	125	4.8	256	5.4
2,500+	123,400	92.0	98,402	93.5	21,318	85.6	736	92.9	2,117	92.8	48	94.1	2,421	93.8	4,439	93.1
Not stated	413	0.3	283	0.3	100	0.4	3	*	9	0.4	-	-	8	0.3	15	0.3
Total	134,169	100.0	105,274	100.0	24,914	100.0	792	100.0	2,281	100.0	51	100.0	2,581	100.0	4,766	100.0
Mean weight	3,334		3,394		3,087		3,402		3,223		3,266		3,335		3,327	
Median weight	3,374		3,430		3,160		3,459		3,232		3,200		3,356		3,358	

<sup>1</sup> Records with race not stated are included only in the "All Races" column.

<sup>2</sup> In order to conform to national standards, the definition of low birthweight was changed in 1984 to 'less than 2,500 grams'.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

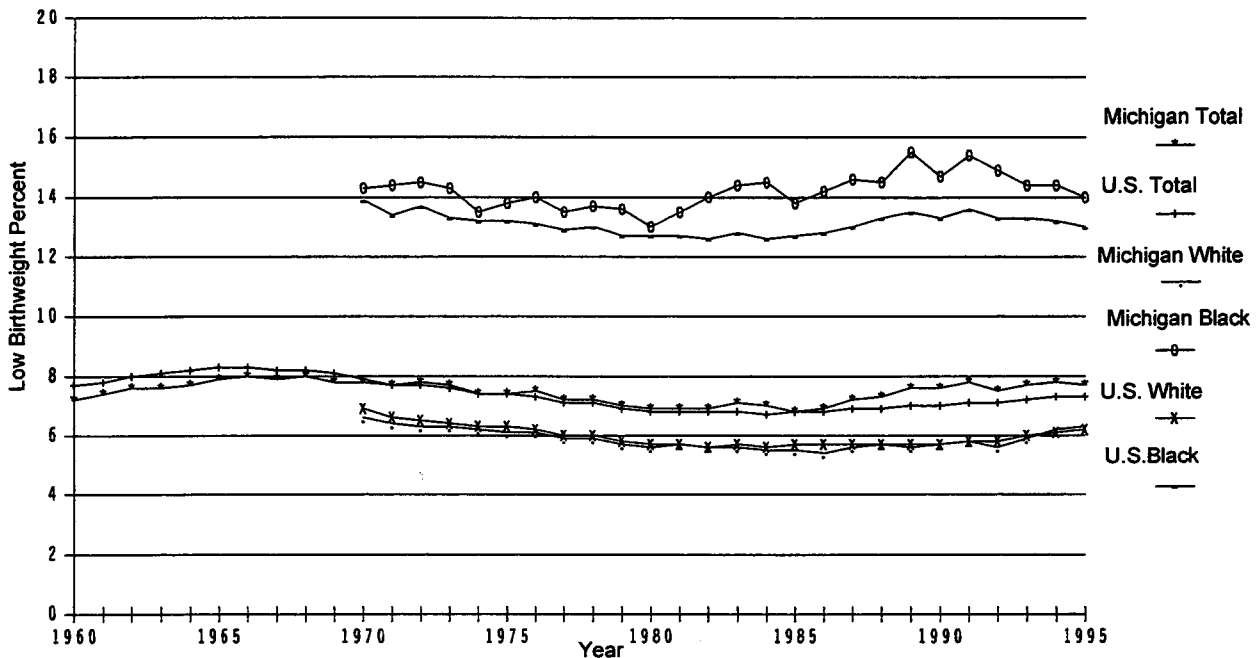


**Low Birthweight** A subgroup of major importance when analyzing historical birthweight trends is the category of infants weighing less than 2,500 grams (approximately 5 pounds 8 ounces or less) at birth. Such infants have historically experienced higher mortality in their first year of life than heavier infants.

residents over the last thirty-six years. In 1960 7.2 percent of the live births in Michigan had low birthweight. Between 1960 and 1966 the percentage increased, reaching a high for the 36 year period (8.0). The percentage generally declined until 1985 when the percent was 6.8, the lowest rate since 1960. It rose to 7.7 in 1995. The pattern for the United States was similar between 1960 and 1984. By 1995 the low birthweight percentage for the nation had increased to 7.3 percent.

Figure 1.10 displays the percent of low birthweight infants born to Michigan and the United States

Figure 1.10  
Percent of Low Birthweight Live Births by Race<sup>1</sup>  
Michigan and United States Residents, 1960-1995<sup>2</sup>



<sup>1</sup> Data not available by race prior to 1970.

<sup>2</sup> Percent low birthweight for 1960-1969 are for births of 2500 grams or less and for 1970-1995 are for less than 2500 grams.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

The low birthweight percentage for infants of black mothers was 14.0 percent compared with 5.9 to 6.8 percent for infants born to mothers of other races and ancestry groups (Table 1.10).

The low birthweight percent varied by adequacy of prenatal care as indicated by the *Kessner Index*. For the race and ancestry groups, the low birthweight percentages were between 1.4 and 2.8 times higher for infants born to mothers with inadequate care than to mothers with adequate prenatal care, with the exception of Asian and Pacific Islander mothers, whose ratios were nearly equal.

At birth, 14.0 percent of the infants born to black women weighed less than 2,500 grams. Of infants born to black women with adequate care, a lower percentage (12.2) weighed less than 2,500 grams. The low birthweight percentage for infants born to black women with adequate care was higher than the percentage for infants born to women of other race and ancestry groups at nearly all levels of prenatal care. The low birthweight percentage was 1.8 to 2.3 times higher for infants born to black women with adequate care than for corresponding women of almost all other race and ancestry groups.

Table 1.10  
Numbers and Percents<sup>1</sup> of Low Birthweight Live Births  
by Level of Prenatal Care, Race and Ancestry of Mother  
Michigan Residents, 1995

Level of Prenatal Care (Kessner Index <sup>2</sup> )	Race <sup>3</sup>												Ancestry			
	All Races		White		Black		Amer. Indian		Asian & P.I.		All Other Races		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Adequate	6,557	6.5	4,717	5.6	1,653	12.2	31	6.0	116	6.9	1	*	118	5.8	155	5.3
Intermediate	1,981	9.7	1,160	8.0	778	14.5	9	4.8	22	6.2	1	*	15	5.1	92	7.7
Inadequate	1,735	14.2	681	11.3	1,015	17.7	13	16.5	16	6.8	1	*	19	7.9	64	10.1
Unknown	83	12.3	31	7.8	50	20.7	-	-	1	*	-	-	-	-	1	*
Total	10,356	7.7	6,589	6.3	3,496	14.0	53	6.7	155	6.8	3	*	152	5.9	312	6.5

<sup>1</sup> Percents are calculated by using the numbers in Table 1.8 as the denominator.

<sup>2</sup> The *Kessner Index* is a classification of prenatal care based on the month of pregnancy in which prenatal care began, the number of prenatal visits and the length of pregnancy (i.e., for shorter pregnancies, fewer prenatal visits constitute adequate care).

<sup>3</sup> Records with race not stated are included only in the "All Races" column.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

## CONGENITAL ANOMALIES

One or more congenital anomalies were reported on the birth certificate for 1,013 of the 134,169 resident live births in 1995 (Table 1.11). This translates to a rate of 75.5 per 10,000 live births.

The method of reporting congenital anomalies on the birth record was altered with the 1989 birth certificate. The 1989 and later rates, based on check-box format reporting, are not comparable to rates obtained in previous years by literal entries.

While the check-box reporting format may help reduce the level of under reporting of congenital anomalies, the frequency of reporting of specific anomalies is affected by the reporting schedule. Many conditions may not be apparent at the time the

birth certificate is completed and filed. A more complete reporting of congenital anomalies is provided by the Birth Defects Registry in the Office of the State Registrar and Division of Health Statistics.

The congenital anomaly rate of 82.1 per 10,000 live births to white mothers was 64.9 percent higher than the rate of 49.8 for live births to black mothers and 35.0 percent higher than the rate of 60.8 for live births to mothers of races other than black or white.

The rates for all races varied with the age of the mother. Rates for births to white mothers generally were higher for mothers under 25 years of age and over 40 years of age. This pattern did not hold for births to black mothers.

Table 1.11  
Live Births with Congenital Anomalies Reported and Congenital Anomaly Rates<sup>1</sup>  
by Age and Race of Mother  
Michigan Residents, 1995

Age of Mother in Years	Race of Mother									
	All Races		White		Black		All Other Races		Unknown	
	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>
< 15	1	*	1	*	-	-	-	-	-	-
15-19	119	72.4	93	90.1	22	38.1	4	*	-	-
20-24	251	77.6	201	85.8	45	55.4	5	*	-	-
25-29	288	74.5	257	80.2	20	36.9	7	73.1	4	*
30-34	235	74.1	205	75.5	26	74.6	2	*	2	*
35-39	92	73.8	82	78.6	9	56.9	1	*	-	-
40 +	27	128.0	25	144.3	2	*	-	-	-	-
<i>Total</i>	1,013	75.5	864	82.1	124	49.8	19	60.8	6	80.0
Median age at last birthday	27		27		24		25		29	

<sup>1</sup> Number of live births with congenital anomalies reported per 10,000 live births.

<sup>2</sup> Rates are calculated by using the numbers in Table 1.2 as the denominator.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**MEDICAL FACTORS ASSOCIATED  
WITH DELIVERY AND/OR LABOR**

**Complications of Pregnancy** There were 34,746 deliveries (25.9 percent) reported with one or more complications of labor and/or delivery in 1995 (Table 1.12). Among the most commonly reported complications were moderate/heavy meconium (7,691 cases), fetal distress (6,195 cases), breech/malpresentation of fetus (5,785 cases), premature rupture of membranes (5,644 cases) and dysfunctional labor (4,958 cases).

The proportions of live births for which there was at least one complication were relatively similar for

women of different races and ancestry groups (Table 1.12). The types of complications which were most common were also very similar among mothers of different race and ancestry groups, although the exact ordering by frequency of occurrence varied. The rates for complications which are related to the mechanics of labor, *i.e.*, breech/malpresentation, dysfunctional labor, precipitate labor and cephalopelvic disproportion were less frequent for births to black women than to white women.

Table 1.12  
**Numbers and Percents of Live Births by  
Complications of Labor/Delivery, Race and Ancestry of Mother  
Michigan Residents, 1995**

Complications of Labor/Delivery	Race <sup>1</sup>												Ancestry			
	All Races		White		Black		Amer. Indian		Asian & P.I.		All Other Races		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Meconium, moderate/heavy	7,691	5.7	5,471	5.2	2,007	8.1	28	3.5	138	6.0	5	*	137	5.3	299	6.3
Fetal distress	6,195	4.6	4,942	4.7	1,062	4.3	37	4.7	94	4.1	1	*	133	5.2	165	3.5
Breech/malpresentation	5,785	4.3	4,919	4.7	712	2.9	48	6.1	74	3.2	3	*	90	3.5	187	3.9
Premature rupture of membranes (>12 hours)	5,644	4.2	4,567	4.3	822	3.3	30	3.8	168	7.4	3	*	78	3.0	193	4.0
Dysfunctional labor	4,958	3.7	4,212	4.0	520	2.1	40	5.1	133	5.8	1	*	55	2.1	175	3.7
Precipitate labor (<3 hours)	3,266	2.4	2,754	2.6	423	1.7	13	1.6	40	1.8	1	*	81	3.1	97	2.0
Cephalopelvic disproportion	2,910	2.2	2,585	2.5	217	0.9	27	3.4	64	2.8	1	*	21	0.8	106	2.2
At least one complication	34,746	25.9	28,187	26.8	5,394	21.7	234	29.5	668	29.3	18	35.3	557	21.6	1,190	25.0
Total live births	134,169	100.0	105,274	100.0	24,914	100.0	792	100.0	2,281	100.0	51	100.0	2,581	100.0	4,766	100.0

<sup>1</sup> Records with race not stated are included only in the "All Races" column.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Behavioral Risk Factors** Mothers who smoked while pregnant delivered 18.1 percent (24,238) of the live births in 1995 (Table 1.13). These data are consistent with statewide sample survey data. The reported percentage of live births to mothers who smoked while pregnant was highest for American Indian mothers (35.0 percent), was lower and relatively similar for white and black mothers (18.9 and 15.5 percent, respectively). Fewer mothers of Hispanic ancestry reported smoking during pregnancy than white or black mothers (10.2 percent). Asian and Pacific Islander mothers and mothers of Arab ancestry had the lowest percentages of reported smoking during their pregnancy.

Only 2,328 (1.7 percent) of the birth certificates indicated the mother drank alcohol while pregnant.

Based on other studies it is generally believed that reported numbers of mothers who drank while pregnant as obtained from certificates of live birth under report the frequency of this risk factor.

A weight gain during pregnancy of less than sixteen pounds was reported for mothers of 10.4 percent (13,921) of the live births. The percentage for black mothers (15.0) was higher than any other race/ancestry category.

Table 1.13  
Numbers and Percents of Live Births by Maternal Risk Factors, Race and Ancestry of Mother  
Michigan Residents, 1995

Maternal Risk Factors	Race <sup>1</sup>												Ancestry			
	All Races		White		Black		Amer. Indian		Asian & P.I.		All Other Races		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Mother smoked while pregnant	24,238	18.1	19,925	18.9	3,874	15.5	277	35.0	78	3.4	3	*	103	4.0	486	10.2
Weight gain less than 16 pounds while pregnant	13,921	10.4	9,779	9.3	3,736	15.0	102	12.9	202	8.9	6	11.8	217	8.4	613	12.9
Mother drank alcohol while pregnant	2,328	1.7	1,570	1.5	726	2.9	22	2.8	8	0.4	-	-	4	*	62	1.3
Total live births	134,169	100.0	105,274	100.0	24,914	100.0	792	100.0	2,281	100.0	51	100.0	2,581	100.0	4,766	100.0

<sup>1</sup> Records with race not stated are included only in the "All Races" column.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Medical Risk Factors** For 17.4 percent (23,388) of the 134,169 resident live births occurring in 1995, the mother had at least one medically relevant risk factor (Table 1.14). The most commonly specified medical risk factor was pregnancy-related hypertension which occurred in mothers of 3.6 percent (4,807) of the live births. The next most common maternal medical risk factors were diabetes and anemia which occurred in mothers of 2.5 percent (3,405) and 1.7 percent (2,255) of the live births. Drug use was reported on 1.0 percent of all live birth records.

The most common maternal medical risk factors varied among race and ancestry groups. Pregnancy-

associated hypertension and diabetes were the most common risk factors for white, American Indian and Hispanic mothers; drug use and pregnancy-associated hypertension were the most common for black mothers; diabetes was most common for Asian and Pacific Islander mothers; and diabetes and anemia for mothers of Arab ancestry.

The percent of births born to women with pregnancy-associated hypertension, diabetes, previous large or small infants and uterine bleeding were lower for births to black mothers than white mothers. The percent of births to women using drugs was higher for births to black mothers.

Table 1.14  
Numbers and Percents of Live Births by Medical Risk Factors, Race and Ancestry of Mother  
Michigan Residents, 1995

Risk Factors	Race <sup>1</sup>												Ancestry			
	All Races		White		Black		Amer. Indian		Asian & P.I.		All Other Races		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Hypertension, pregnancy-associated	4,807	3.6	4,040	3.8	650	2.6	41	5.2	40	1.8	2	*	48	1.9	147	3.1
Diabetes	3,405	2.5	2,838	2.7	404	1.6	35	4.4	81	3.6	3	*	57	2.2	134	2.8
Anemia (Hct.30/Hgb.10)	2,255	1.7	1,693	1.6	476	1.9	13	1.6	40	1.8	-	-	57	2.2	93	2.0
Hydramnios/ oligohydramnios	1,990	1.5	1,459	1.4	475	1.9	14	1.8	33	1.4	-	-	35	1.4	81	1.7
Previous infant 4000+ grams	1,855	1.4	1,757	1.7	67	0.3	13	1.6	9	0.4	1	*	26	1.0	45	0.9
Previous preterm or small-for-gestational age infant	1,640	1.2	1,404	1.3	200	0.8	11	1.4	14	0.6	1	*	30	1.2	52	1.1
Uterine bleeding	1,591	1.2	1,328	1.3	219	0.9	4	*	14	0.6	-	-	50	1.9	30	0.6
Drug use	1,276	1.0	537	0.5	724	2.9	10	1.3	3	*	-	-	2	*	27	0.6
At least one medical risk <sup>2</sup>	23,388	17.4	18,773	17.8	3,964	15.9	167	21.1	278	12.2	7	13.7	331	12.8	718	15.1
Total live births	134,169	100.0	105,274	100.0	24,914	100.0	792	100.0	2,281	100.0	51	100.0	2,581	100.0	4,766	100.0

<sup>1</sup> Records with race not stated are included only in the "All Races" column.

<sup>2</sup> Does not equal the sum of risk factors specified because mothers may have multiple risk factors.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Method of Delivery** Vaginal delivery was the most common method of delivery in 1995, accounting for 79.2 percent of the live births (Table 1.15). A national goal is to have a vaginal delivery for at least 35 percent of the mothers with a previous C-section by the year 2000. In 1995 about 26.0 percent of the mothers with a previous C-section had a vaginal delivery.

Lowering C-section rates to no more than 15 per 100 deliveries including no more than 12 primary C-sections is a national goal for the year 2000. In 1989 the first year comparable data were available in Michigan, 22.6 percent of the deliveries were by

C-section and 13.6 percent were primary C-section. By 1995, primary C-sections were performed in 12.7 percent of the live births and repeat C-sections were performed in 7.5 percent of the live births for a total of 20.1 percent of all deliveries are by C-section.

Black mothers and mothers of Arab and Hispanic ancestry had lower proportions of live births delivered by primary C-section. These groups either have achieved or are close to achieving the national goal for primary C-sections. White, American Indian and Asian and Pacific Islander mothers had somewhat higher proportions of live births delivered by primary C-section.

Table 1.15  
Numbers and Percents of Live Births by Method of Delivery, Race and Ancestry of Mother  
Michigan Residents, 1995

Procedures During and Method of Delivery	Race <sup>1</sup>											Ancestry					
	All Races		White		Black		Amer. Indian		Asian & P.I.		All Other Races		Arab		Hispanic		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
<b>Procedures</b>																	
Vacuum	5,491	4.1	4,793	4.6	511	2.1	25	3.2	129	5.7	3	*	69	2.7	178	3.7	
Forceps	3,089	2.3	2,604	2.5	368	1.5	11	1.4	64	2.8	1	*	71	2.8	107	2.2	
<b>Method</b>																	
Vaginal <sup>2</sup>	106,278	79.2	82,977	78.8	20,108	80.7	594	75.0	1,862	81.6	45	88.2	2,159	83.6	3,878	81.4	
Vaginal birth after previous C-section	3,527	2.6	2,979	2.8	472	1.9	17	2.1	54	2.4	-	-	56	2.2	142	3.0	
Primary C-section	16,984	12.7	13,420	12.7	3,034	12.2	121	15.3	316	13.9	6	11.8	253	9.8	546	11.5	
Repeat C-section	10,041	7.5	8,169	7.8	1,646	6.6	70	8.8	96	4.2	-	-	146	5.7	313	6.6	
Unknown method	866	0.6	708	0.7	126	0.5	7	0.9	7	0.3	-	-	23	0.9	29	0.6	
<b>Total live births</b>	<b>134,169</b>	<b>100.0</b>	<b>105,274</b>	<b>100.0</b>	<b>24,914</b>	<b>100.0</b>	<b>792</b>	<b>100.0</b>	<b>2,281</b>	<b>100.0</b>	<b>51</b>	<b>100.0</b>	<b>2,581</b>	<b>100.0</b>	<b>4,766</b>	<b>100.0</b>	

<sup>1</sup> Records with race not stated are included only in the "All Races" column.

<sup>2</sup> Includes "Vaginal birth after previous C-section".

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Abnormal Conditions at Birth** In 1995, 13,081 babies were born with at least one recorded abnormal condition at birth (Table 1.16). The highest percentage for a specified abnormal condition was associated with live born infants who received assisted ventilation for less than 30 minutes (2.0 percent). The next

two most frequent abnormal conditions were a five minute Apgar under 7 and hyaline membrane disease/RDS (Respiratory Distress Syndrome), respectively. These three conditions were also the most frequently seen for each race and ancestry group.

Table 1.16  
Numbers and Percents of Live Births with Abnormal Conditions by Race  
and Ancestry of Mother  
Michigan Residents, 1995

Abnormal Conditions	Race <sup>1</sup>												Ancestry			
	All Races		White		Black		Amer. Indian		Asian & P.I.		All Other Races		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Assisted ventilation < 30 minutes	2,653	2.0	2,030	1.9	561	2.3	13	1.6	39	1.7	4	*	48	1.9	80	1.7
5 minute Apgar < 7	1,638	1.2	1,084	1.0	509	2.0	10	1.3	21	0.9	-	-	18	0.7	43	0.9
Hyaline membrane disease/ RDS	1,397	1.0	1,054	1.0	312	1.3	9	1.1	14	0.6	-	-	25	1.0	40	0.8
Assisted ventilation > 30 minutes	982	0.7	768	0.7	194	0.8	6	0.8	9	0.4	-	-	17	0.7	29	0.6
Birth Injury	460	0.3	406	0.4	45	0.2	5	*	2	*	2	*	5	*	11	0.2
At least one condition	13,081	9.7	10,227	9.7	2,543	10.2	63	8.0	172	7.5	8	15.7	211	8.2	483	10.1
Total live births	134,169		105,274		24,914		792		2,281		51		2,581		4,766	

<sup>1</sup> Records with race not stated are included only in the "All Races" column.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



## PLACE OF OCCURRENCE

Of some confusion to persons not familiar with vital records data is the difference between occurrence and residence figures. Information on events to residents of Michigan that occur throughout the country and, in some instances, outside United States boundaries, is collected in order to obtain the full scope of activity for the state population.

**Resident Births** In 1995 1,332 Michigan resident live births occurred outside the state. Information on these events was forwarded to the state of Michigan for statistical purposes only. While only 1.0 percent of the total for the state was involved, statistics for the counties on Michigan's southern and northwestern borders would be strongly affected were this information not available.

Table 1.17 shows that births in the four border states comprise 89.9 percent of all resident live births that occurred out of state. Live births to Michigan residents occurred in 35 of the 50 states in 1995.

**Non-resident Births** The number of nonresident live births that occurred in Michigan in 1995 was 435. Information about those events was shared with the appropriate states by the State of Michigan under specific confidentiality guidelines so they might have a complete statistical file on their residents. Infants born in Michigan to mothers from the four border states and Canada comprised 70.6 percent of these events, as shown in Table 1.17. There were live births in Michigan to residents of 37 states, and at least 9 foreign countries.

Table 1.17  
Michigan Live Births  
Occurring Outside Michigan to Michigan Residents by Place of Occurrence  
and Occurring in Michigan to Non-Michigan Residents by Place of Residence, 1995

Geographic Area	Live Births to Residents Occurring Outside Michigan		Live Births to Non-residents Occurring in Michigan	
	Number	Percent	Number	Percent
<i>Total</i>	1,332	100.0	435	100.0
Ohio	841	63.1	42	9.7
Wisconsin	209	15.7	158	36.3
Indiana	121	9.1	70	16.1
Illinois	27	2.0	15	3.4
Florida	14	1.1	19	4.4
California	10	0.8	5	*
Georgia	9	0.7	7	1.6
Texas	9	0.7	10	2.3
Pennsylvania	8	0.6	4	*
Louisiana	7	0.5	1	*
Missouri	6	0.5	1	*
Tennessee	6	0.5	3	*
Arkansas	4	*	1	*
Kentucky	4	*	6	1.4
Virginia	3	*	5	*
New York	2	*	7	1.6
New Jersey	1	*	2	*
Minnesota	-	-	2	*
<i>Other States</i>	51	3.8	30	6.9
Canada	-	-	22	5.1
<i>Other Countries</i>	-	-	22	5.1
<i>Unknown</i>	-	-	3	*

Source: Office of the State Registrar and Division of Health Statistics, MDCH

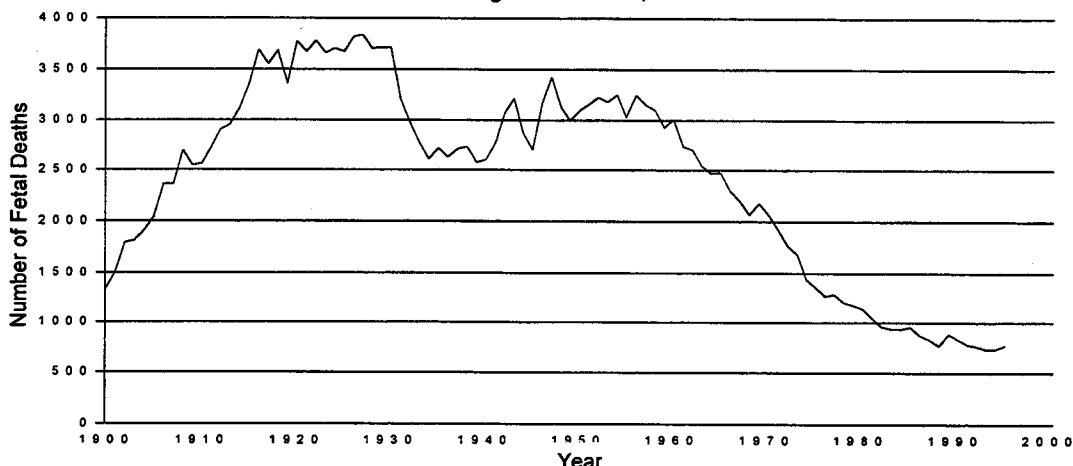
### FETAL DEATHS

There were 1,325 fetal deaths reported in Michigan in 1900. The number of reported fetal deaths increased from 1900 through 1927, the peak year in this century, with 3,834 fetal deaths. The reported number of fetal deaths generally decreased in the 1930's, increased in the 1940's and decreased after 1950 (Figure 1.11 and Table 1.18). In 1995 the number of resident fetal deaths was 767.

The fetal death ratio for Michigan has declined through most of the twentieth century (Figure 1.12 and Table 4.2). The ratio rose from 30.3 in 1900 to

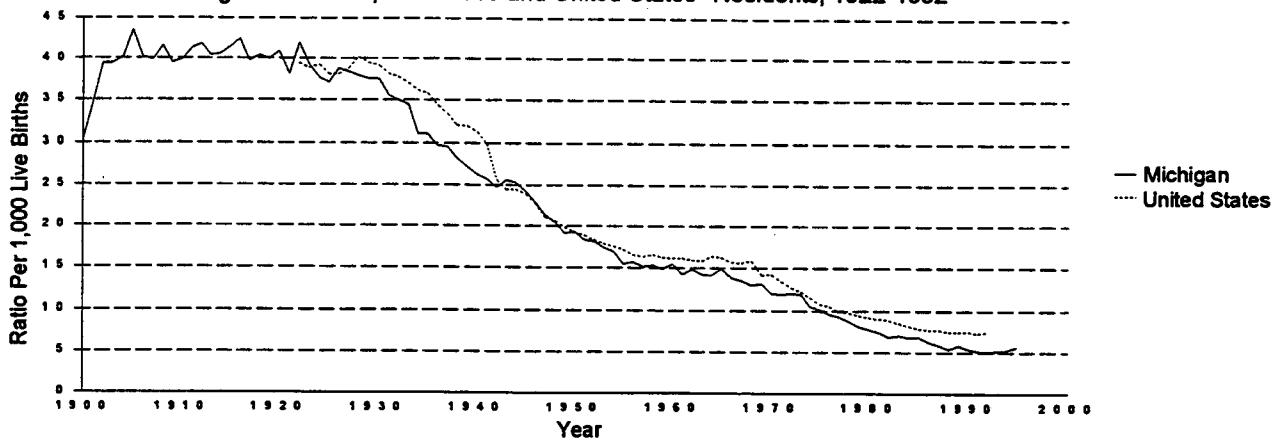
its peak of 43.5 fetal deaths per 1,000 live births in 1905. Between 1905 and 1922 both the number of fetal deaths and number of live births rose. The fetal death ratio fluctuated between 38.2 and 42.4. In 1922, Michigan's fetal death ratio was 42.0, marking a turning point, as fetal death ratios have generally declined since that year due to decreases in the number of fetal death and/or increases in the number of births. The ratios lowest were in 1991 through 1993 (5.2). The fetal death ratio increased in 1995 to 5.7.

Figure 1.11  
Fetal Deaths  
Michigan Residents, 1900-1995



Source: Office of the State Registrar and Division of Health Statistics, MDCH

Figure 1.12  
Fetal Death Ratios  
Michigan Residents, 1900-1995 and United States<sup>1</sup> Residents, 1922-1992



<sup>1</sup> United States ratios prior to 1933 are for registration areas only. United States ratios are based on three different definitions of fetal death:  
 1) Prior to 1942 - all reported fetal deaths regardless of period of gestation  
 2) 1942 to 1968 - fetal deaths with gestational age 20 weeks or more or not stated  
 3) 1969 to current - fetal deaths of stated or presumed period of gestation of 20 or more weeks

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 1.18  
Fetal Deaths and Fetal Death Ratios  
Michigan and United States Residents  
Selected Years, 1900-1995

United States		Year	Michigan	
Fetal Deaths	Fetal Death Ratio		Fetal Deaths	Fetal Death Ratio
---	---	1900	1,325	30.3
86,466	39.2	1930	3,714	37.6
68,480	16.1	1960	3,008	15.4
52,961	14.2	1970	2,060	12.0
33,796	10.7	1975	1,356	10.1
33,353	9.2	1980	1,135	7.8
32,596	9.0	1981	1,040	7.4
32,694	8.9	1982	954	6.9
30,752	8.5	1983	933	7.0
30,099	8.2	1984	929	6.8
29,661	7.9	1985	953	6.9
28,972	7.7	1986	865	6.3
29,349	7.7	1987	824	5.9
29,442	7.5	1988	761	5.4
30,469	7.5	1989	881	5.9
31,386	7.5	1990	830	5.4
30,160	7.3	1991	775	5.2
30,256	7.4	1992	755	5.2
---	---	1993	726	5.2
---	---	1994	731	5.3
---	---	1995	767	5.7

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Michigan's fetal death ratios have been below the national ratios 61 of the 70 years for which national data are available. The last time the United States ratio was below the Michigan ratio was in 1950. In 1992, the Michigan ratio of 5.2 was 29.7 percent below the national ratio of 7.4. It should be noted that since 1978 fetal deaths in Michigan are comprised of infants born dead who had passed through 20 weeks gestation or weighed 400 grams or more. This definition is different from that of most states. This difference should result in Michigan having slightly higher fetal death rates than would be observed if Michigan had adopted the definition used in most states.

### CAUSES OF FETAL DEATH

A classification of fetal deaths by underlying cause of death is contained in Table 1.19. In 1995, 315 of the total 767 deaths were assigned to the category of "other and ill-defined conditions originating in the perinatal period". Nearly half (48.2 percent) of the remaining fetal deaths for which a specific cause was stated were attributed to complications of placenta, cord, and membranes (ICD 762). This is a group of maternal conditions which includes placenta previa, premature separation of the placenta, placental hemorrhage, and compression of the umbilical cord.

Third in frequency was the category maternal complications of pregnancy (ICD 761), which was listed as the cause of 67 fetal deaths. This includes such complications as premature rupture of membranes, multiple pregnancy, and incompetent cervix.

Table 1.19  
Fetal Deaths and Fetal Death Ratios by Underlying Cause of Death  
Michigan Residents, 1995

ICD <sup>1</sup>	Cause of Death	Frequency	Ratio <sup>2</sup>
779	Other and ill-defined conditions originating in the perinatal period . . . . .	315	234.8
762	Fetus or newborn affected by complications of placenta, cord and membranes . . . . .	218	162.5
761	Fetus or newborn affected by maternal complications of pregnancy . . . . .	67	49.9
760	Fetus or newborn affected by maternal conditions which may be unrelated to present pregnancy . . . . .	27	20.1
740-759	All congenital anomalies combined . . . . .	75	55.9
	All other causes . . . . .	65	48.4
740-779	All causes . . . . .	767	571.7

<sup>1</sup> Ninth Revision of the International Classification of Diseases, WHO.

<sup>2</sup> Ratios per 100,000 resident live births.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**AGE, RACE AND ANCESTRY**

The overall fetal death rate per 1,000 total births (live births plus fetal deaths) was 5.7 in 1995. In Table 1.20, information is presented by the age, race and ancestry of the mother for fetal deaths and live births. It appears that mothers under age 20 and over age 39 plus black and Hispanic mothers have a greater risk of delivering a stillborn fetus.

White, Asian and Pacific Islander mothers, and mothers of Arab ancestry had lower fetal death rates than the state overall rate.

Table 1.20  
Fetal Deaths, Total Births and Fetal Death Rates by Age, Race and Ancestry of Mother  
Michigan Residents, 1995

Age and Race of Mother	Fetal Deaths	Total Births	Rate Per 1,000 Total Births
<b>Age</b>			
< 15 Years . . . . .	5	382	*
15-19 Years . . . . .	95	16,539	5.7
20-24 Years . . . . .	170	32,535	5.2
25-29 Years . . . . .	160	38,829	4.1
30-39 Years . . . . .	236	44,415	5.3
40 + . . . . .	25	2,135	11.7
Not stated . . . . .	76	101	752.5
<b>Race</b>			
White . . . . .	533	105,807	5.0
Black . . . . .	202	25,116	8.0
American Indian . . . . .	5	797	*
Asian & P.I. . . . .	8	2,289	3.5
All other races . . . . .	-	51	-
Not stated . . . . .	19	876	21.7
<b>Ancestry</b>			
Arab . . . . .	6	2,587	2.3
Hispanic . . . . .	33	4,799	6.9
<b>Total . . . . .</b>	<b>767</b>	<b>134,936</b>	<b>5.7</b>

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**FETAL WEIGHT**

Among live births, the percentage of infants weighing less than 2,500 grams at birth was 7.7 percent. The comparable percent among fetal deaths was 78.1 (Table 1.21). The percentage of live born infants weighing less than 750 grams was 0.5 percent, while 46.2 percent of the fetal deaths weighed less than 750 grams.

Table 1.21  
Fetal Deaths by Fetal Weight  
Michigan Residents, 1995

Weight in Grams	Fetal Deaths	Cum. Percent
<750	354	46.2
750-1,499 grams	126	62.6
1,500-2,499 grams	119	78.1
2,500 +	149	97.5
Unknown	19	100.0
<b>Total</b>	<b>767</b>	<b>100.0</b>

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**MEDICAL AND OTHER RISK  
FACTORS FOR FETAL DEATHS**

In 1995, 263 fetal deaths, or 34.3 percent of all fetal deaths, occurred to women who were reported to have at least one medical or other birth-related risk factor (Table 1.22). The category "All other risk factors" was reported for 258 fetal deaths. The most frequent specific risk factor mentioned was tobacco use during pregnancy; 176 or 22.9 percent of all fetal deaths. The next most common risk factor associated

with fetal deaths was hydramnios/oligohydramnios (38 fetal deaths).

The highest fetal death ratio associated with risk factors occurred among women giving birth with reported hydramnios or oligohydramnios (19.1). The next highest fetal death ratio occurred to women with reported uterine bleeding (17.6).

Table 1.22  
Numbers and Percents of Fetal Deaths, and Fetal Death Ratios<sup>1</sup>  
by Medical and Other Risk Factors  
Michigan Residents, 1995

Risk Factors of Mother	Number of Fetal Deaths	Percent of Fetal Deaths	Fetal Death Ratio
Tobacco use during pregnancy . . . . .	176	22.9	7.3
Hydramnios/oligohydramnios . . . . .	38	5.0	19.1
Uterine bleeding . . . . .	28	3.7	17.6
Alcohol use during pregnancy . . . . .	28	3.7	12.0
Diabetes . . . . .	23	3.0	6.8
All other risk factors . . . . .	258	33.6	12.5
<i>At least one risk factor</i> . . . . .	263	34.3	11.2

<sup>1</sup> Ratio is per 1,000 live births for the specific risk factor category.

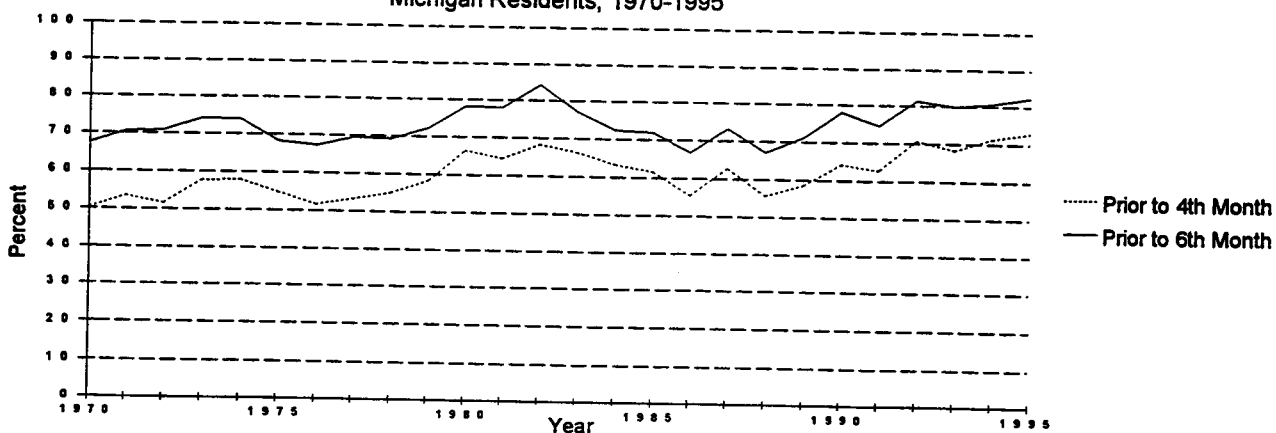
Source: Office of the State Registrar and Division of Health Statistics, MDCH

## PRENATAL CARE

The proportion of all fetal deaths in 1995 that were to women who reported receiving care prior to the fourth month of pregnancy was 72.8 with 82.5 percent receiving care prior to the sixth month (Figure 1.13). The percentage of fetal deaths where the mother received care prior to the fourth and sixth month generally increased until 1982 (Figure 1.13) and declined between 1983 and 1986 to the lowest level in the decade. The percentages have generally increased since 1987.

The relationship between the fetal death rates and the *Kessner Index* of adequacy of care is displayed in Table 1.23. Since the *Kessner Index* adjusts for gestational age at birth, a bias towards inadequate care should not result because of the short gestational age for most fetal deaths. The fetal death rate increased as the quality of prenatal care measured by the *Kessner Index* decreased. The rate was 4.2 per 1,000 total births (fetal deaths and live births) born to women receiving adequate prenatal care. The rate increased to 7.1 and 9.1 for births to women receiving intermediate and inadequate levels of care respectively.

Figure 1.13  
Percent of Women Having Fetal Deaths who Received Care Prior to the 4th Month  
and the 6th Month of Pregnancy  
Michigan Residents, 1970-1995



Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 1.23  
Fetal Deaths, Total Births and Fetal Death Rates by Level of Prenatal Care and Race<sup>1</sup> of Mother  
Michigan Residents, 1995

Level of Care (Kessner Index <sup>2</sup> )	Race of Mother											
	All Races			White			Black			All Other Races		
	Fetal Deaths	Total Births	Fetal Death Rates	Fetal Deaths	Total Births	Fetal Death Rates	Fetal Deaths	Total Births	Fetal Death Rates	Fetal Deaths	Total Births	Fetal Death Rates
Adequate	422	101,246	4.2	332	84,726	3.9	77	13,674	5.6	8	2,235	3.6
Intermediate	147	20,595	7.1	98	14,527	6.7	44	5,397	8.2	3	558	5.4
Inadequate	112	12,336	9.1	58	6,110	9.5	48	5,771	8.3	2	322	6.2
Unknown	86	759	113.3	45	444	101.4	33	274	120.4	-	22	-
<b>Total</b>	<b>767</b>	<b>134,936</b>	<b>5.7</b>	<b>533</b>	<b>105,807</b>	<b>5.0</b>	<b>202</b>	<b>25,116</b>	<b>8.0</b>	<b>13</b>	<b>3,137</b>	<b>4.1</b>

<sup>1</sup> Records with race not stated are only included in the "All Races" columns.

<sup>2</sup> The *Kessner Index* is a classification of prenatal care based on the month of pregnancy prenatal care began, the number of prenatal visits, and the length of pregnancy (i.e., for shorter pregnancies, fewer prenatal visits constitute adequate care).

Source: Office of the State Registrar and Division of Health Statistics, MDCH

# MORTALITY

## SECTION II







## MORTALITY

### OVERVIEW

In 1995 there were 83,405 deaths recorded for Michigan residents, 761 more than in the previous year. The crude death rate per 1,000 population was 8.8, 1.1 percent higher than the rate of 8.7 observed in 1994 (Table 2.1). The age-adjusted death rate increased in 1995, being 0.1 percent higher than the age-adjusted rate for 1994. The age-adjusted rate serves as a better measure for comparing mortality over time than a crude death rate as age-adjusted death rates control for most of the differences or variations in the age composition of the populations.

There were 1,110 infant deaths in 1995, 74 fewer than in 1994. This is a 6.3 percent decrease. In the previous year there was a 10.2 percent decrease. The 1995 infant death rate of 8.3 was 3.5 percent lower than the 1994 rate of 8.6, while the neonatal death rate dropped from 5.6 to 5.4 in 1995 (3.6 percent decrease). The infant mortality rate has decreased more in the five years since 1990 than in the 1950's, 1960's and 1980's. Only the decade between 1970 and 1980 had a larger decrease (36.9 percent) than has been observed during the last five years (22.4 percent).

### An Overview, 1995

Resident Deaths	83,405
Crude Death Rate	8.8
Infant Deaths	1,110
Infant Death Rate	8.3
Neonatal Deaths	725
Neonatal Death Rate	5.4
Perinatal Deaths	1,363
Perinatal Death Rate	10.1
Maternal Deaths	11
Maternal Death Rate	8.2
Deaths from Heart Disease per Day	76.7
Deaths from Cancer per Day	53.3
Deaths from Stroke per Day	16.0
Deaths from C.O.P.D. per Day	9.8
Median Age at Death	75
Median Age at Death for Males	72
Median Age at Death for Females	79

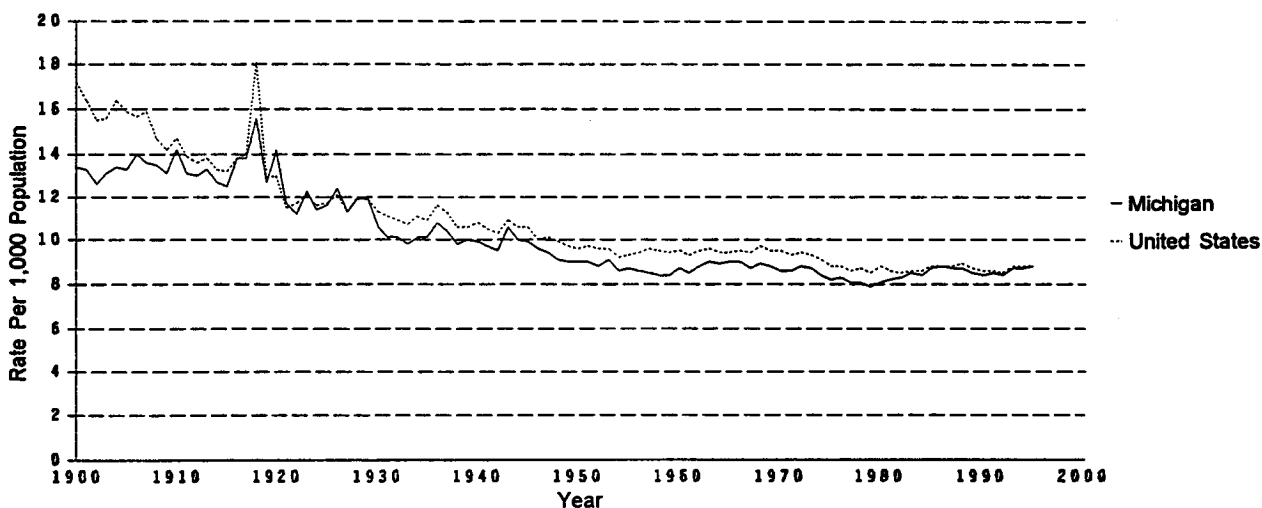
Source: Office of the State Registrar and Division of Health Statistics, MDCH

**TRENDS IN MICHIGAN**

Between 1900 and 1995 the number of deaths occurring to Michigan residents increased from 32,453 to 83,405. The 31,472 deaths recorded in 1902 was the lowest number of resident deaths in this century, while the number of resident deaths recorded in 1995 was the greatest number of resident deaths ever recorded in Michigan (Table 4.1).

Although the total number of deaths increased between 1900 and 1995, the increase is due to an aging and increasing population. The crude death rate decreased from 13.4 (per 1,000 population) in 1900 to 8.8 in 1995. The 1979 death rate of 7.9 was the lowest crude death rate ever recorded for Michigan. The highest death rate (15.6) was observed in 1918 (Figure 2.1).

**Figure 2.1**  
**Crude Death Rates<sup>1</sup>**  
**Michigan and United States<sup>2</sup> Residents, 1900 - 1995**



<sup>1</sup> 1994 estimated population is being used to calculate 1995 rate.  
<sup>2</sup> United States rates for 1971-1979 have been revised using population estimates based on the 1980 Census enumeration. United States rate for 1995 is provisional.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**MICHIGAN AND UNITED STATES  
MORTALITY**

A comparison of the number of deaths and crude death rates for Michigan and the United States for the period 1970-1995 is presented in Table 2.1. Between 1970 and 1984, the Michigan rates were below the United States rates. Since 1985 Michigan and United States rates have been equal or close. The Michigan rates increased slightly between 1970 and 1995 (2.3 percent), while national rates decreased 7.4 percent in the same time period

Table 2.1  
**Number of Deaths and Crude Death Rates<sup>1</sup>**  
Michigan and United States Residents, 1970 - 1995

United States		Year	Michigan	
Number	Rate <sup>1</sup>		Number	Rate
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
1,973,003	9.3	1973	78,522	8.7
1,934,388	9.1	1974	76,143	8.4
1,892,879	8.8	1975	74,522	8.2
1,909,440	8.8	1976	75,801	8.3
1,899,597	8.6	1977	74,144	8.1
1,927,788	8.7	1978	74,773	8.1
1,913,841	8.5	1979	73,480	7.9
1,989,841	8.8	1980	74,991	8.1
1,977,981	8.6	1981	75,818	8.2
1,974,797	8.5	1982	75,536	8.3
2,019,201	8.6	1983	76,639	8.5
2,039,369	8.6	1984	76,401	8.4
2,086,440	8.7	1985	78,635	8.7
2,105,361	8.7	1986	80,177	8.8
2,123,323	8.7	1987	79,795	8.7
2,167,999	8.8	1988	80,075	8.7
2,150,466	8.7	1989	78,566	8.5
2,148,463	8.6	1990	78,501	8.4
2,169,518	8.6	1991	79,738	8.5
2,175,613	8.5	1992	78,916	8.4
2,268,553	8.8	1993	82,286	8.7
2,278,994	8.8	1994	82,644	8.7
2,312,180Pr.	8.8Pr.	1995	83,405	8.8

<sup>1</sup> 1994 estimated population is used to calculate 1995 rates.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Source: United States - NCHS Monthly Vital Statistics Report Vol.45, No.5, Supplement 2, Table 9

### **MORTALITY DIFFERENCES BY SEX AND RACE**

Over the period 1970-1995 the age-adjusted death rates for Michigan males and females were usually slightly higher than the national rates. During the last ten years Michigan female rates were 3.5 to 6.3 percent higher than the national rates, while Michigan male rates fluctuated from 0.1 percent lower to 3.7 percent higher than the national rates (Figure 2.2).

The national and Michigan age-adjusted death rates displayed in Figure 2.3 were similar for white males until 1988. From 1989-1995 the rates for Michigan white males ranged from 2.1 to 3.3 percent lower than the national white male rates. The Michigan white female rates were from 1.0 to 3.4 percent higher than the national white female rates during this time period.

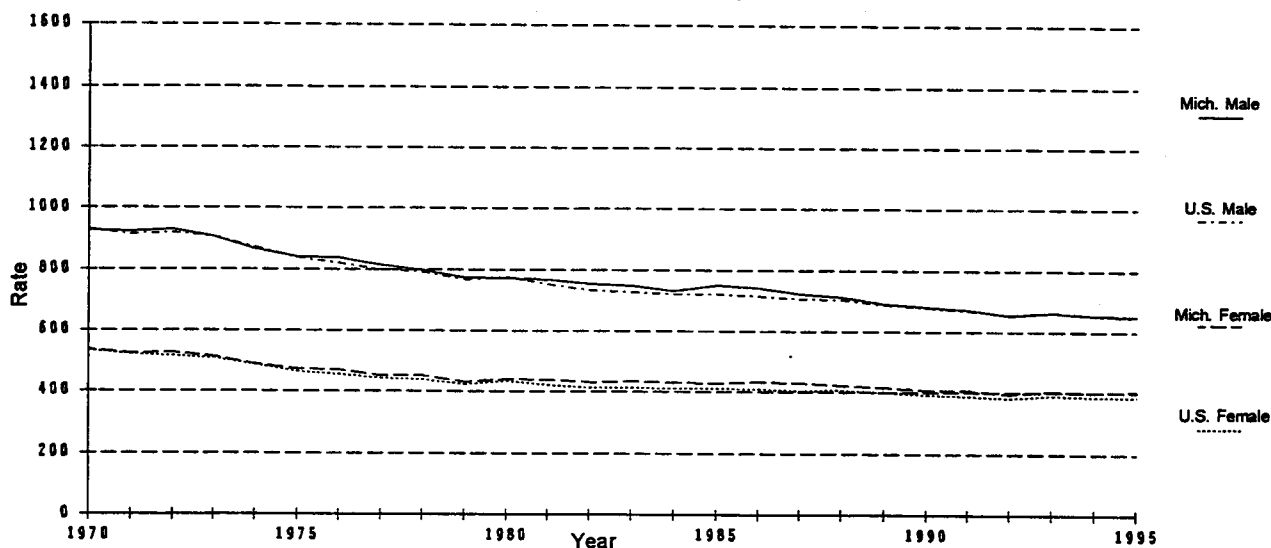
Over the period 1970-1995, Michigan age-adjusted death rates for black males ranged from 3.4 percent lower to 5.7 percent higher than their national counterparts. The rates for Michigan black females were generally lower than the national rates prior to

1981, but ranged from 0.6 to 4.2 percent higher after 1980.

Mortality rate disparities between the black and white population increased during the last twenty-five years. Michigan age-adjusted rates for black males and females were 43.3 and 54.2 percent higher than their white counterparts in 1970. By 1995 black male and female rates were 76.2 and 56.3 percent higher than rates for their white counterparts.

Steady declines have generally occurred since 1970 both in Michigan and the United States in age-adjusted death rates in each race-sex group. For Michigan black persons, male and female age-adjusted rates declined 17.4 and 25.7 percent, respectively. The United States rates for these groups declined by 22.5 and 29.0 percent, respectively, during this period. The Michigan rates for white males and females declined 32.9 and 26.7 percent, while national rates dropped 31.5 and 27.5 percent, respectively.

Figure 2.2  
**Total Age-Adjusted Death Rates<sup>1</sup> by Sex**  
Michigan<sup>2</sup> and United States<sup>3</sup> Residents, 1970 - 1995



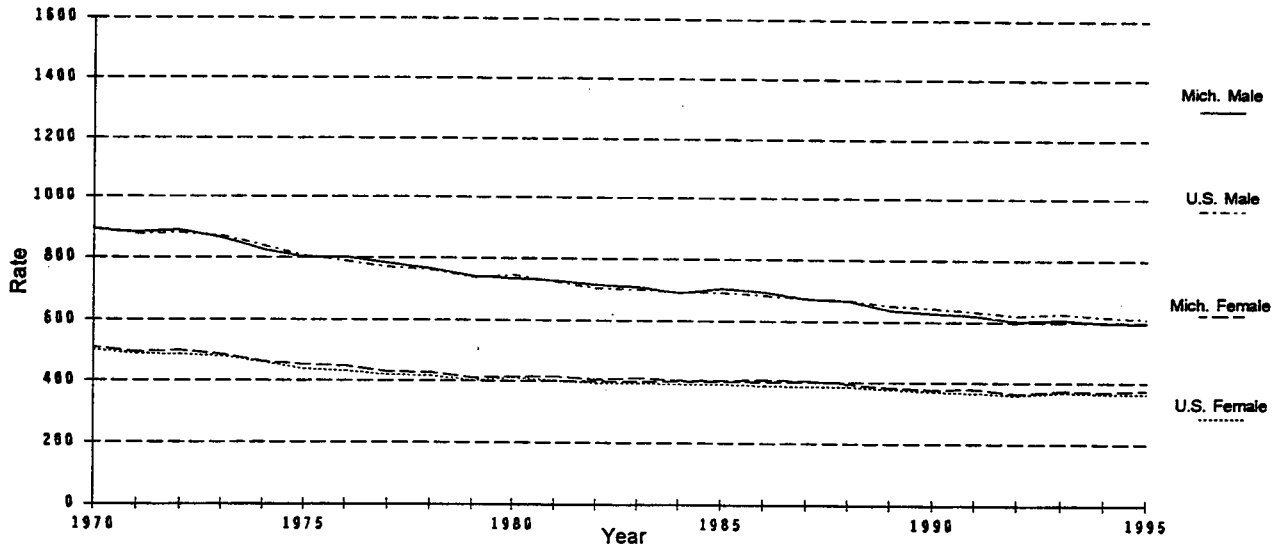
<sup>1</sup> 1994 estimated population is used to calculate 1995 rate. Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940 (see Technical Notes).

<sup>2</sup> Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Technical Notes.

<sup>3</sup> United States rates for 1995 are provisional.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Figure 2.3  
**White Age-Adjusted Death Rates<sup>1</sup> by Sex**  
 Michigan<sup>2</sup> and United States<sup>3</sup> Residents, 1970 - 1995



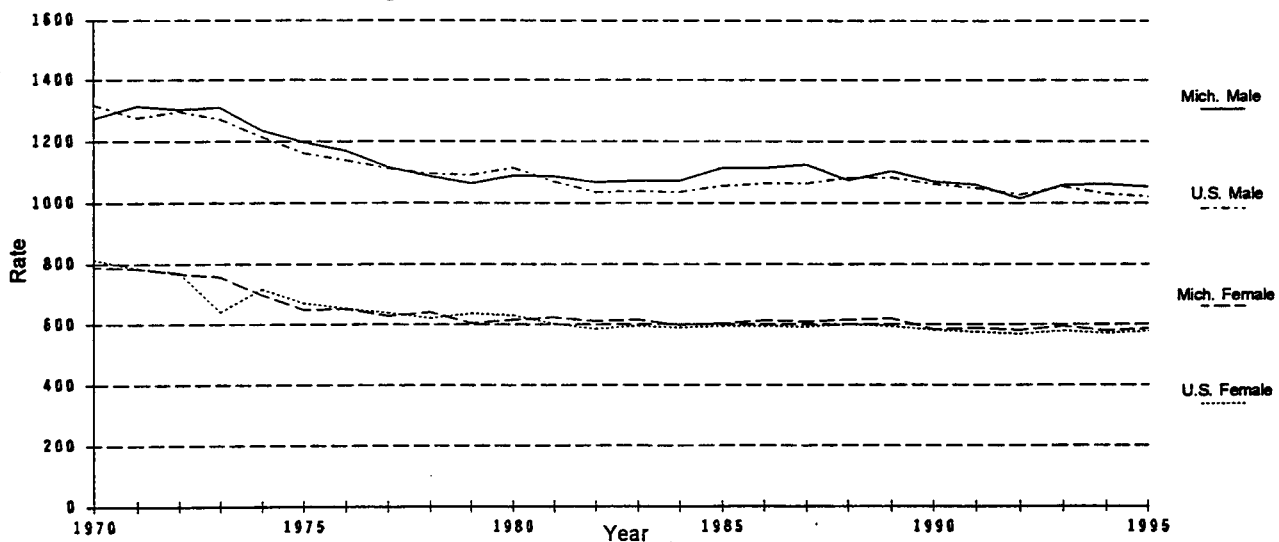
<sup>1</sup> 1994 estimated population is used to calculate 1995 rate. Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940 (see Technical Notes).

<sup>2</sup> Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Technical Notes.

<sup>3</sup> United States rates for 1995 are provisional.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Figure 2.4  
**Black Age-Adjusted Death Rates<sup>1</sup> by Sex**  
 Michigan<sup>2</sup> and United States<sup>3</sup> Residents, 1970 - 1995



<sup>1</sup> 1994 estimated population is used to calculate 1995 rate. Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940 (see Technical Notes).

<sup>2</sup> Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Technical Notes.

<sup>3</sup> United States rates for 1995 are provisional.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

### **MORTALITY BY RACE AND ANCESTRY**

Table 2.2 presents data on the number of deaths by race for the period 1980-1995 and ancestry since 1989. In 1995 deaths of white persons (70,091) accounted for 84.0 percent of all deaths, while deaths of black persons (12,618) constituted 15.1 percent of the state total. For less than one percent of the deaths, the race was reported as American Indian or Asian and Pacific Islander. For 0.7 percent and 0.8 percent of the deaths, the ancestry was listed as Arab or Hispanic, respectively.

It should be noted that data on race and ancestry are derived from the death certificates filed by funeral directors. Data from sources where race is self-enumerated, when matched with death data, indicate that

there are larger numbers of American Indians and persons of races other than white and black dying than are reported as members of those groups on the death certificate<sup>1</sup>.

However, the major increase in 1989 in the number of American Indian deaths listed as the decedent's race may be due to the inclusion of ancestry on the death certificate that year. By requesting information about ancestry, certifiers may be identifying American Indian decedents who might otherwise be identified as white. The increase in Asian and Pacific Islanders between 1988 and 1990 may also be due to the change in the death certificate.

Table 2.2  
**Number of Deaths by Race<sup>1</sup> and Ancestry**  
Michigan Residents, Selected Years, 1980 - 1995

Year	Race						Ancestry	
	All Races	White	Black	American Indian	Asian/Pacific Islander	All Other Races	Arab	Hispanic
1980	74,991	64,897	9,704	137	92	1	---	---
1985	78,635	67,426	10,903	130	115	1	---	---
1986	80,177	68,602	11,283	139	132	2	---	---
1987	79,795	67,831	11,614	137	144	2	---	---
1988	80,075	68,191	11,569	132	149	3	---	---
1989	78,566	66,031	11,939	335	183	2	486	612
1990	78,501	66,156	11,739	352	215	5	471	603
1991	79,738	67,182	11,980	324	208	2	547	627
1992	78,916	66,377	11,868	389	233	2	508	635
1993	82,286	69,044	12,515	433	240	5	605	694
1994	82,644	69,409	12,572	385	240	6	604	710
1995	83,405	70,091	12,618	392	265	7	600	698

<sup>1</sup> Records with race not stated are included only in the "All Races" column.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

<sup>1</sup> National Center for Health Statistics, *Comparability of Marital Status, Race, Nationality and Country of Origin in the Death Certificate and Matching Census Record: United States, May - August, 1986* (Washington, D.C., 1969).

**NUMBER OF DEATHS BY  
AGE, RACE AND SEX**

The numbers of deaths increased with age through age 80-84. Half of all deaths occurred at or below age 75. For males half the deaths occurred at or below 72, while for females, half occurred at or below age 79. Males represented over half the deaths

(50.2 percent) in 1995. Among black persons a higher percentage of deaths (54.6 percent) were to males.

Until age 79 more males than females died in each age group. After age 79 more females died.

Table 2.3  
Number of Deaths by Age, Race and Sex<sup>1</sup>  
Michigan Residents, 1995

Age in Years	All Races			White			Black			All Other Races		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
< 1	1,110	599	508	655	368	286	432	226	204	19	5	14
1-4	232	134	98	143	84	59	80	47	33	9	3	6
5-9	158	92	66	116	67	49	40	24	16	2	1	1
10-14	138	81	57	95	48	47	40	31	9	3	2	1
15-19	554	391	163	359	239	120	185	147	38	10	5	5
20-24	691	516	175	408	290	118	261	211	50	22	15	7
25-29	740	529	211	466	341	125	259	179	80	15	9	6
30-34	1,065	761	304	712	503	209	340	250	90	12	8	4
35-39	1,528	966	562	1,022	650	372	493	306	187	13	10	3
40-44	1,948	1,267	681	1,277	831	446	645	423	222	26	13	13
45-49	2,418	1,554	864	1,651	1,083	568	724	451	273	43	20	23
50-54	2,768	1,677	1,091	2,087	1,278	809	632	375	257	48	23	25
55-59	3,571	2,148	1,423	2,792	1,682	1,110	724	435	289	52	29	23
60-64	5,053	2,987	2,066	4,057	2,409	1,648	929	541	388	64	35	29
65-69	7,741	4,479	3,262	6,410	3,731	2,679	1,258	710	548	68	35	33
70-74	10,441	5,777	4,663	8,946	4,962	3,984	1,404	765	639	86	47	39
75-79	11,794	6,064	5,730	10,401	5,353	5,048	1,329	675	654	62	34	28
80-84	11,927	5,509	6,418	10,650	4,954	5,696	1,226	534	692	48	21	27
85-89	10,135	3,748	6,387	9,246	3,402	5,844	842	324	518	45	22	23
90 +	9,384	2,592	6,792	8,593	2,359	6,234	771	227	544	17	5	12
Not stated	9	7	2	5	3	2	4	4	-	-	-	-
All ages	83,405	41,878	41,523	70,091	34,637	35,453	12,618	6,885	5,731	664	342	322

<sup>1</sup> Records with race and/or sex not stated are included only in the "Total" column.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

### AGE-SPECIFIC MORTALITY BY RACE

The race and age-specific mortality rates were lowest in Asian and Pacific Islanders and generally next lowest for the white population below age 85 years (Table 2.4). Age-specific rates were highest for the black population below age 65 years and highest for American Indians at 65 years of age and over.

Similarly, for both males and females the age-specific mortality rates are generally lowest for the white and Asian and Pacific Islander populations (Tables 2.5 and 2.6). Below 55 years of age these rates are highest for black males and females and between 55 and 84 they are generally highest for American

Indian males and females. The age-adjusted rates indicate the same pattern of differences between the race and ancestry groups.

Caution must be exercised when interpreting the low age-adjusted rates for Asian and Pacific Islanders. They may be low due to improper identification of the race. Also since this population increased by 67.7 percent between 1980 and 1990, predominately through in-migration, the low mortality rates for people over 45 years of age may be due in part to selective migration. Healthier older people may be more willing to migrate to another state or country than the less healthy people.

Table 2.4  
Death Rates<sup>1</sup> by Age and Race  
Michigan Residents, 1995

Age in Years	Race				
	Total	White	Black	Amer. Indian	Asian/ P.I.
<i>Crude rate</i>	878.3	882.8	925.5	590.0	209.9
< 1	827.3	635.2	1,637.9	533.5	474.3
1-14	26.6	22.2	47.9	45.7	18.1
15-24	92.9	72.1	185.3	124.9	57.6
25-34	123.9	96.5	293.8	82.9	75.0
35-44	225.8	177.8	530.6	255.7	57.2
45-54	470.9	392.3	1,066.8	729.3	283.5
55-64	1,131.6	1,034.0	1,829.1	1,660.6	935.8
65-74	2,700.5	2,581.3	3,633.1	4,204.6	1,991.5
75-84	6,159.9	6,103.3	6,759.8	7,208.0	2,421.9
85 +	16,075.2	16,384.5	13,408.1	15,789.5	8,680.6
<i>Age-adjusted rate<sup>2,3</sup></i>	515.0	473.5	790.7	681.9	314.1

<sup>1</sup> 1994 estimated population is used to calculate 1995 rates. 1995 live births are used to calculate rates for less than one year of age.

<sup>2</sup> Records with sex and/or race not stated were randomly allocated prior to computation of age-specific death rates. Records with age not stated were included in the "85 +" row. Records with all other races stated are included only in the "Total" column.

<sup>3</sup> Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



Table 2.5  
**Death Rates<sup>1</sup> by Age and Race**  
 Michigan Male Residents, 1995

Age in Years	Race				
	Total	White	Black	Amer. Indian	Asian/P.I.
<i>Crude rate</i>	907.1	891.2	1,083.9	600.3	223.0
< 1	871.2	696.2	1,676.3	*	*
1-14	30.3	24.3	60.5	*	*
15-24	134.6	98.2	306.8	148.2	63.5
25-34	180.1	138.7	469.0	111.2	82.4
35-44	294.4	228.6	757.1	339.3	63.8
45-54	599.0	501.2	1,433.3	821.7	216.2
55-64	1,406.3	1,273.5	2,469.6	1,792.5	1,217.6
65-74	3,416.2	3,264.4	4,648.9	4,720.6	2,775.4
75-84	7,872.7	7,823.1	8,497.3	9,049.8	2,586.2
85 +	18,839.9	19,519.6	14,027.5	14,473.7	11,940.3
<i>Age-adjusted rate<sup>2,3</sup></i>	651.8	597.1	1,052.1	769.8	377.1

<sup>1</sup> 1994 estimated population is used to calculate 1995 rates. 1995 live births are used to calculate rates for less than one year of age.

<sup>2</sup> Records with sex or race not stated were randomly allocated prior to computation of age-specific death rates. Records with age not stated were included only in the "85 +" row. Records with all other races stated are included only in the "Total" column.

<sup>3</sup> Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 2.6  
**Death Rates<sup>1</sup> by Age and Race**  
 Michigan Female Residents, 1995

Age in Years	Race				
	Total	White	Black	Amer. Indian	Asian/P.I.
<i>Crude rate</i>	851.0	874.6	787.1	579.9	197.2
< 1	776.7	569.0	1,582.9	*	752.5
1-14	22.8	19.9	35.1	*	*
15-24	50.7	45.3	71.0	101.0	51.3
25-34	69.6	54.6	151.2	*	67.2
35-44	159.2	126.7	346.0	180.3	51.9
45-54	348.0	285.9	762.8	644.3	354.1
55-64	878.9	808.5	1,331.4	1,540.0	697.4
65-74	2,124.3	2,027.7	2,857.3	3,782.5	1,446.7
75-84	5,102.4	5,040.3	5,710.9	5,963.3	2,285.7
85 +	15,015.2	15,218.7	13,107.9	16,447.4	5,844.2
<i>Age-adjusted rate<sup>2,3</sup></i>	403.7	374.2	585.0	610.3	268.6

<sup>1</sup> 1994 estimated population is used to calculate 1995 rates. 1995 live births are used to calculate rates for less than one year of age.

<sup>2</sup> Records with sex or race not stated were randomly allocated prior to computation of age-specific death rates. Records with age not stated were included only in the "85 +" row. Records with all other races stated are included only in the "Total" column.

<sup>3</sup> Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

## LIFE EXPECTANCY

In 1995 the life expectancy at birth was 72.5 years for males and 78.3 years for females based on 1995 mortality and 1994 population data. Females demonstrated a significantly greater longevity than males, due to the higher mortality rates of males at all ages.

### TRENDS IN LIFE EXPECTANCY

Life expectancies by sex in selected years for Michigan and United States residents are presented in Table 2.7. It can be seen that longevity has increased greatly in Michigan since 1901, by 19.1 years for males and by 23.2 years for females. Females born in Michigan in 1901 could expect to live 1.7 years longer than their male counterparts. By 1950 the differential in life expectancy between the sexes was 5.5 years. This disparity increased to 7.4 years by 1970. Since 1970 male life expectancy has risen faster than female life expectancy and the disparity has decreased to 5.8 years.

The life expectancy of Michigan residents was well above that for the nation in 1901, but this differential had virtually disappeared by 1950. Between 1981 and 1995 both males and females in Michigan had lower life expectancy than corresponding sex groups in the nation. By 1995 the life expectancies of males and females in Michigan were 0.1 and 0.6 years, respectively, below the national provisional life expectancy.

### LIFE EXPECTANCY BY RACE

White persons have had a greater life expectancy than black persons of the same sex since 1950 (Table 2.8). The life expectancy of white males was 9.4 years greater than black males in 1995 compared to a differential of 5.8 years in 1950. While life expectancy for white males increased slowly after 1980, life expectancy of black males decreased in the mid 1980's. The black male life expectancy rose only from 63.3 to 64.4 years from 1985-1995, while life expectancy for white males rose from 71.6 to 73.8 years in 1995.

In 1950, Michigan resident white females had an average longevity 8.5 years greater than black

Table 2.7  
Life Expectancy<sup>1</sup> at Birth by Sex  
Michigan<sup>2</sup> and United States Residents  
Selected Years, 1901 - 1995

United States		Year	Michigan	
Male	Female		Male	Female
47.6	50.6	1901	53.4	55.1
48.4	51.8	1910	53.9	56.2
53.6	54.6	1920	55.1	56.0
58.1	61.6	1930	59.8	62.8
60.8	65.2	1940	63.4	64.4
65.6	71.1	1950	65.7	71.2
66.6	73.1	1960	67.1	73.3
67.1	74.7	1970	67.2	74.6
68.8	76.6	1975	68.5	75.7
70.0	77.4	1980	70.0	76.9
70.4	77.8	1981	70.2	76.9
70.9	78.1	1982	70.4	77.2
71.0	78.1	1983	70.6	77.2
71.2	78.2	1984	70.9	77.3
71.2	78.2	1985	70.5	77.5
71.3	78.3	1986	70.7	77.4
71.5	78.4	1987	71.0	77.4
71.5	78.3	1988	71.3	77.7
72.2	79.1	1989	71.5	77.8
71.8	78.8	1990	71.8	78.1
72.0	78.9	1991	71.8	78.1
72.3	79.0	1992	72.2	78.4
72.2	78.8	1993	72.1	78.2
72.4	79.0	1994	72.3	78.3
72.6Pr.	78.9Pr.	1995	72.5	78.3

<sup>1</sup> 1994 estimated population is used to calculate 1995 Michigan life expectancy.

<sup>2</sup> Michigan data for years 1920, 1930 and 1940 are for white persons only.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Source: United States - NCHS Monthly Vital Statistics Report Vol.45, No.3, Supplement 2, (Table 15)

females. This disparity declined to 5.3 years by 1980 and increased to 5.7 years by 1995. Life expectancy generally increased for white females between 1950 and 1995. It rose until 1985 for black females and generally declined through 1989. By 1995 their life expectancy increased to 73.5, slightly higher than the average longevity achieved ten years before, in 1985.

Table 2.8  
**Life Expectancy<sup>1</sup> at Birth by Sex and Race<sup>2</sup>**  
 Michigan Residents, Selected Years, 1950 - 1995

Population Subgroup	Year of Birth														
	1950	1960	1970	1980	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
<i>White</i>															
Male	66.2	67.5	68.2	71.0	71.6	71.8	72.3	72.4	72.9	73.1	73.2	73.5	73.5	73.7	73.8
Female	71.9	74.0	75.3	77.6	78.2	78.2	78.2	78.5	78.8	79.0	78.9	79.4	79.2	79.2	79.2
<i>Black</i>															
Male	60.4	63.6	59.9	63.6	63.3	63.3	63.1	63.9	63.4	63.9	63.7	64.5	64.0	64.0	64.4
Female	63.4	67.7	68.3	72.3	72.9	72.6	72.7	72.6	72.3	73.3	73.1	73.2	73.1	73.6	73.5

<sup>1</sup> 1994 estimated population is used to calculate 1995 life expectancy.

<sup>2</sup> Data for 1950 and 1960 are for persons of white and other than white race.

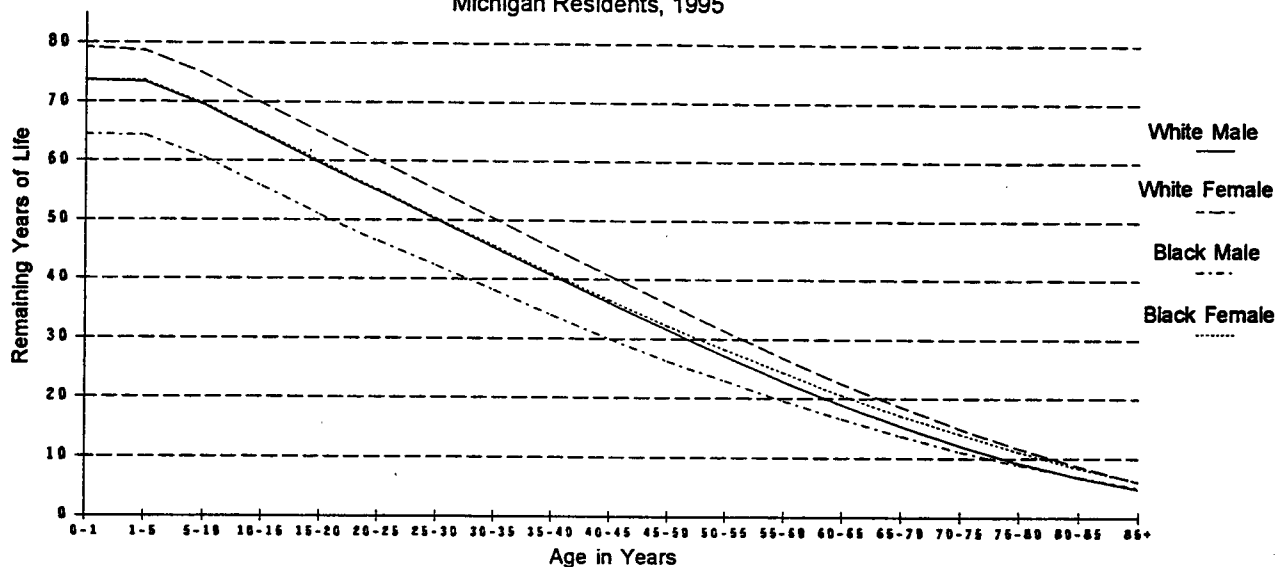
Source: Office of the State Registrar and Division of Health Statistics, MDCH

### YEARS OF LIFE REMAINING

The expected number of years of life remaining are presented graphically by age, race, and sex in Figure 2.5. The number of years of life remaining for females was greater than that for males throughout life. The average number of years remaining for white males and females surpassed or equaled that of their black counterparts for all age groups.

However, with advancing age the race disparity in years of life remaining diminished, so that black persons displayed similar expected years of life remaining with their white counterparts in age intervals over 69 years. (See Tables 4.19-4.27 for the values used in Figure 2.5)

Figure 2.5  
**Remaining Years of Life by Age, Sex and Race**  
 Michigan Residents, 1995



<sup>1</sup> 1994 estimated population is used to calculate 1995 rate.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**MARITAL STATUS**

The numbers of deaths by marital status for men and women are displayed in Table 2.9. The majority of men were married at the time of death while the majority of women were widows. Men were more than twice as likely as women to be married at the time of death (55.2 percent compared to 25.4 percent). Conversely, women were over three times as likely to be widows at the time of death as men were to be widowers (56.3 percent compared to 18.6 percent).

Table 2.9  
Deaths by Sex and Marital Status  
Michigan Residents, 1995

Marital Status	Males		Females	
	Number	Percent	Number	Percent
<i>Total</i>	41,878	100.0	41,523	100.0
Never married	6,166	14.7	3,790	9.1
Divorced <sup>1</sup>	4,625	11.0	3,739	9.0
Widowed	7,781	18.6	23,362	56.3
Married	23,130	55.2	10,551	25.4
Unknown	176	0.4	81	0.2

<sup>1</sup> Divorced includes legally separated.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**PLACE OF OCCURRENCE**

There were 1,907 Michigan resident deaths in 1995 that occurred outside the state (Table 2.10). This represents 2.3 percent of all resident deaths. The states with the highest number of Michigan resident deaths were Florida and Ohio. The border areas of Illinois, Indiana, Ohio, Wisconsin and Canada accounted for 49.4 percent of all resident deaths occurring outside Michigan.

Of the 1,016 non-residents who died in Michigan in 1995, 46.8 percent were from the border areas while 23.7 percent were Floridians.

Table 2.10  
Michigan Deaths  
Occurring Outside Michigan to Michigan  
Residents by Place of Occurrence and  
Occurring in Michigan to Non-Michigan  
Residents by Place of Residence, 1995

Geographic Area	Residents Occurring Outside Michigan		Non-Residents Occurring In Michigan	
	Number	Percent	Number	Percent
<i>Total</i>	1,907	100.0	1,016	100.0
Florida	463	24.3	241	23.7
Ohio	395	20.7	162	15.9
Wisconsin	295	15.5	126	12.4
Indiana	179	9.4	70	6.9
Arizona	80	4.2	21	2.1
Illinois	69	3.6	86	8.5
Texas	57	3.0	29	2.9
Tennessee	52	2.7	15	1.5
California	49	2.6	34	3.3
Minnesota	38	2.0	9	0.9
Georgia	27	1.4	9	0.9
Pennsylvania	24	1.3	19	1.9
Kentucky	22	1.2	14	1.4
Alabama	20	1.0	16	1.6
Colorado	18	0.9	6	0.6
<i>All other states</i>	114	6.0	98	9.5
Canada	5	0.3	32	3.1
<i>All other areas</i>	-	-	20	2.1
Unknown	-	-	9	0.9

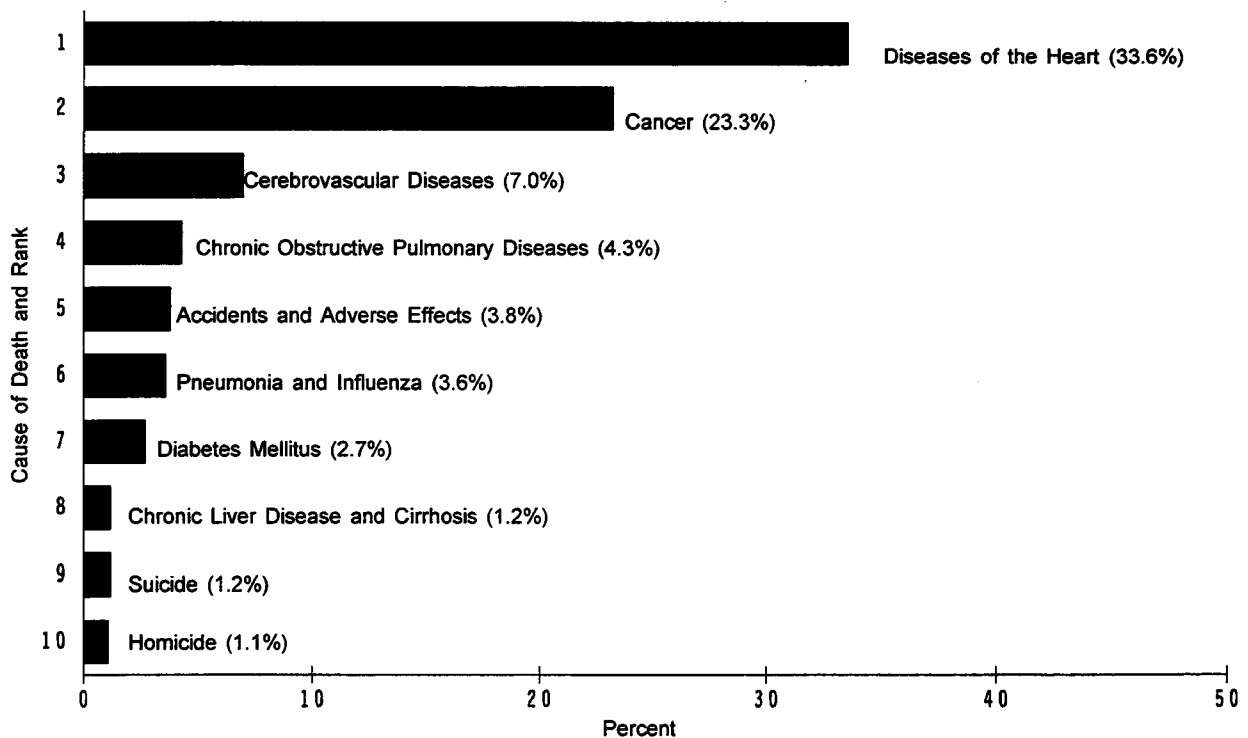
Source: Office of the State Registrar and Division of Health Statistics, MDCH

## LEADING CAUSES OF DEATH

**Ten Leading Causes of Death** Deaths due to the 10 leading causes accounted for 81.8 percent of all deaths in 1995. Diseases of the heart was the leading cause of death with 33.6 percent of all deaths. Another 23.3 percent of the deaths were due to cancer. Together these two causes of death were responsible for 56.9 percent of all Michigan resident deaths. The third leading cause of death was cerebrovascular disease with 7.0 percent of all deaths. The percentage of total deaths resulting from each of the 10 leading causes of death in 1995 is illustrated in Figure 2.6.

The numbers of deaths and the death rates for the 10 leading causes in 1995 are shown in Table 2.11. In 1991 accidents dropped from fourth to fifth leading cause of deaths in Michigan for the first time since 1930. Accidents dropped again, to the sixth leading cause of death, in 1993. The ranking changed in 1994 with pneumonia and influenza moving to the sixth from the fifth leading cause of death. In 1995, suicide moved from the tenth to the ninth leading cause of death, with homicide moving to the tenth leading cause of death.

Figure 2.6  
Leading Causes of Death  
Michigan Residents, 1995



Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Cause-Specific Crude Death Rates** These rates in Michigan were higher in 1995 than in 1994 for five of the ten leading causes: Cerebrovascular disease, chronic obstructive pulmonary diseases and allied conditions, accidents and adverse effects, pneumonia and influenza and diabetes mellitus. The rates were lower for diseases of the heart, cancer, chronic liver disease and cirrhosis, suicide and homicide.

The order of the leading causes of death for Michigan and the United States were different somewhat in 1995 (Table 2.11). Human immunodeficiency virus infection (AIDS) was the eighth leading cause of death in the United States, but ranked as the twelfth leading cause of death in Michigan. In Michigan, chronic liver disease and

cirrhosis ranked as the eighth leading cause, but was ranked tenth nationally. Suicide, the tenth leading cause of death in Michigan was the ninth in the United States.

The overall Michigan death rate was slightly lower than the national rate (0.2 percent). Michigan's mortality rates for heart disease, cerebrovascular disease, diabetes mellitus, chronic liver disease and cirrhosis and homicide were 4.9, 2.5, 5.3, 11.6 and 20.7 percent higher, respectively, than the comparable national rates. The Michigan death rates for chronic obstructive pulmonary disease, accidents and suicide were about 5.3, 3.2 and 13.6 percent lower, respectively, than the national rates. The rates for cancer and pneumonia and influenza were similar.

Table 2.11  
Leading Causes of Death and Cause-Specific Rates<sup>1</sup>  
Michigan and United States<sup>2</sup> Residents, 1995

Rank	Cause of Death	Number of Deaths		Rate	
		Michigan	U.S.	Michigan	U.S.
1	Diseases of the Heart	28,007	738,781	294.9	281.2
2	Cancer	19,442	537,969	204.7	204.7
3	Cerebrovascular Disease	5,857	158,061	61.7	60.2
4	Chronic Obstructive Pulmonary Diseases and Allied Conditions	3,589	104,756	37.8	39.9
5	Accidents and Adverse Effects	3,137	89,703	33.0	34.1
6	Pneumonia and Influenza	3,002	83,528	31.6	31.8
7	Diabetes Mellitus	2,247	59,085	23.7	22.5
8	Chronic Liver Disease and Cirrhosis	1,002	24,848	10.6	9.5
9	Suicide	969	30,893	10.2	11.8
10	Homicide	943	21,577	9.9	8.2
<i>Sub total</i>		68,195	1,849,201	718.1	703.9
<i>All other causes</i>		15,210	462,979	160.2	176.1
<i>Total</i>		83,405	2,312,180	878.3	880.0

<sup>1</sup> 1994 estimated population is used to calculate 1995 rates.

<sup>2</sup> United States data are provisional (see Technical Notes).

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Source: NCHS *Monthly Vital Statistics Report*, Vol.45, No.3, Supplement 2, Oct. 4, 1996, Table 10

**Leading Causes of Death by Race and Sex** The numbers of deaths and crude death rates are presented by race and sex for the 10 leading causes of death in Tables 2.12 and 2.13. The order of the leading causes for each group was similar with some notable exceptions. Suicide, the overall ninth leading cause of death, was the eighth leading cause for white

males. Accidents, the fifth leading cause of death, was the sixth leading cause for white females. Homicide was the third and eighth leading cause of death for black males and females, respectively. Finally, diabetes, the seventh leading cause, was the fourth leading cause for black females. Most of these differences were also observed in 1994.

Table 2.12  
Leading Causes of Death by Race and Sex<sup>1</sup>  
Michigan Residents, 1995

Cause of Death	All Races			White			Black			All Other Races		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Diseases of the Heart	28,007	13,754	14,253	24,002	11,733	12,269	3,825	1,920	1,905	171	99	72
Cancer	19,442	10,120	9,322	16,685	8,626	8,059	2,583	1,411	1,172	168	79	89
Cerebrovascular Disease	5,857	2,283	3,574	4,988	1,917	3,071	833	354	479	36	12	24
Chronic Obstructive Pulmonary Diseases and Allied Conditions	3,589	1,890	1,699	3,270	1,713	1,557	286	159	127	32	17	15
Accidents and Adverse Effects	3,137	1,958	1,179	2,604	1,609	995	472	313	159	61	36	25
Pneumonia/Influenza	3,002	1,388	1,614	2,597	1,156	1,441	387	225	162	16	7	9
Diabetes Mellitus	2,247	1,027	1,220	1,816	843	973	401	173	228	29	10	19
Chronic Liver Disease and Cirrhosis	1,002	695	307	772	527	245	215	157	58	15	11	4
Suicide	969	798	171	844	700	144	111	90	21	14	8	6
Homicide	943	728	215	278	186	92	651	533	118	14	9	5
All other causes	15,210	7,237	7,969	12,235	5,627	6,607	2,854	1,550	1,302	108	54	54
<b>Total</b>	<b>83,405</b>	<b>41,878</b>	<b>41,523</b>	<b>70,091</b>	<b>34,637</b>	<b>35,453</b>	<b>12,618</b>	<b>6,885</b>	<b>5,731</b>	<b>664</b>	<b>342</b>	<b>322</b>

<sup>1</sup> Records with race/sex not stated are included only in the "Total" column.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 2.13  
Leading Causes of Death and Crude Death Rates<sup>1</sup> by Race and Sex  
Michigan Residents, 1995

Cause of Death	All Races			White			Black		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Diseases of the Heart	294.9	297.9	292.1	302.3	301.9	302.7	280.6	302.3	261.6
Cancer	204.7	219.2	191.1	210.1	222.0	198.8	189.5	222.1	161.0
Cerebrovascular Disease	61.7	49.4	73.2	62.8	49.3	75.8	61.1	55.7	65.8
Chronic Obstructive Pulmonary Disease and Allied Conditions	37.8	40.9	34.8	41.2	44.1	38.4	21.0	25.0	17.4
Accidents and Adverse Effects	33.0	42.4	24.2	32.8	41.4	24.5	34.6	49.3	21.8
Pneumonia/Influenza	31.6	30.1	33.1	32.7	29.7	35.5	28.4	35.4	22.2
Diabetes Mellitus	23.7	22.2	25.0	22.9	21.7	24.0	29.4	27.2	31.3
Chronic Liver Disease and Cirrhosis	10.6	15.1	6.3	9.7	13.6	6.0	15.8	24.7	8.0
Suicide	10.2	17.3	3.5	10.6	18.0	3.6	8.1	14.2	2.9
Homicide	9.9	15.8	4.4	3.5	4.8	2.3	47.8	83.9	16.2
All other causes	160.2	156.8	163.3	154.1	144.8	163.0	209.3	244.0	178.8
<b>Total</b>	<b>878.3</b>	<b>907.1</b>	<b>851.0</b>	<b>882.8</b>	<b>891.2</b>	<b>874.6</b>	<b>925.5</b>	<b>1,083.9</b>	<b>787.1</b>

<sup>1</sup> 1994 estimated population is used to calculate 1995 rates.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Age-adjusted Rates by Race and Sex** These rates are presented for the ten leading causes of death in Table 2.14. These rates adjust for the differences in age distributions among the race/sex groups. When comparing the crude rates of heart disease between white males and females, the rate for females is slightly lower, but when adjusted for age the male rate is nearly double that of females. Crude rates for white females are higher for stroke, pneumonia and influenza and diabetes mellitus, but after age-adjusting, the rates are higher in males.

The age-adjusted death rates for white females were lower than the rates for the other three groups for eight of the ten leading causes of death. For deaths due to heart disease, the rates for white males, black males and black females were 85.9, 184.5 and 72.0 percent higher, respectively than for white females. For cancer deaths these differentials were

37.3, 95.9 and 19.3 percent. The greatest differentials between black and white female rates occurred for diabetes, chronic liver disease and cirrhosis, and homicide where the black female rates were 2.1, 2.0 and 7.5 times higher, respectively, than rates for white females.

Rates for black males and females were lower for suicides and chronic obstructive pulmonary diseases and allied conditions than their white counterparts. Black male and female rates were higher than white male and female rates, for the remaining eight leading causes of death. The greatest differentials between black and white male rates occurred for homicide and chronic liver disease and cirrhosis, where black male rates were 18.1 and 2.5 times higher. For the remaining conditions the black male and female rates were 0.9 to 1.9 times higher than rates for their white counterparts.

Table 2.14  
Leading Causes of Death and Age-Adjusted Death Rates<sup>1</sup> by Race and Sex<sup>2</sup>  
Michigan Residents, 1995

Cause of Death	All Races			White			Black		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Diseases of the Heart	151.0	200.4	111.1	141.1	189.6	102.0	225.4	290.2	175.4
Cancer	133.1	159.6	114.2	128.4	152.8	111.3	168.4	218.0	132.8
Cerebrovascular Diseases	28.6	30.4	27.3	26.3	27.9	25.2	45.9	50.7	42.0
Accidents and Adverse Effects	28.1	38.8	18.2	27.2	37.4	17.5	33.3	49.2	20.5
Chronic Obstructive Pulmonary Diseases and Allied Conditions	20.9	26.4	17.5	21.1	26.6	17.7	18.0	23.2	14.4
Diabetes Mellitus	14.3	16.1	12.7	12.7	14.7	11.1	25.5	27.8	23.6
Pneumonia/Influenza	13.9	17.9	11.2	12.9	16.3	10.7	21.0	31.2	13.6
Homicide	10.6	16.8	4.5	3.5	4.8	2.2	49.2	86.9	16.4
Suicide	9.6	16.4	3.3	9.8	16.8	3.2	8.3	14.7	2.9
Chronic Liver Disease and Cirrhosis	8.6	13.0	4.6	7.4	11.1	4.0	16.8	27.7	8.1
All Other Causes	80.6	92.7	70.4	71.7	83.2	62.2	134.2	156.4	116.0
<i>Total</i>	515.0	651.8	403.7	473.5	597.1	374.2	790.7	1,052.1	585.0

<sup>1</sup> 1994 estimated population is used to calculate 1995 rates.

<sup>2</sup> Records with race/sex not stated are included only in the "Total" column.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



**Five Leading Causes by Age, Race and Sex**

Age-specific mortality rates for the leading causes of death among residents of different ages, sexes and races are more varied than age-adjusted rates for the race-sex groups (Tables 2.15-2.19).

Leading causes of death for infants are generally different than the causes observed for other age groups. The leading cause for all four race-sex groups of infants is certain conditions originating in the perinatal period. Congenital anomalies and sudden infant death syndrome were the second or third leading cause for infants in each group.

Accidents were the leading cause of death for white males and females from ages 1-34 years. Accidents were among the top leading causes of death for black males and females ages 1-34 years and were the leading cause for black females ages 1-14 years.

Homicide was the second leading cause of death for ages 15-24 years and the third leading cause for ages 5-14 and 25-34 overall; however, it was the leading cause of death for black males ages 5-34 years and black females ages 15-34 years. Nearly half of the homicides among Michigan residents occurred among black males 15-49 years of age. Compared to homicide rates in 1994, the rates for black males ages 25-34 decreased 18.3 percent, while the rate for black males ages 15-24 decreased 16.4 percent in 1995.

Suicide was the third leading cause of death overall for ages 15-24 and second among white males 15-34. Suicide was the third leading cause among black males 15-24 and the fourth leading cause for white females ages 15-34 years.

Among persons 35 years and over, chronic conditions are responsible for the majority of deaths. Cancer was the leading cause of death for white and black females ages 35-49 years and white males ages 50-64 years.

Diseases of the heart was the leading cause of death for black males ages 35 years or over, black females ages 50 years or over, and white males and females 65 years of age or over.

**AIDS** Overall, AIDS was the second leading cause of death for people 25-34 years of age, and the fourth leading cause of death for people 34-49 years of age. Among white males it was the third leading cause of death for ages 25-34 years. It was the second leading cause for black males ages 25-49 years of age. For black females, AIDS was the second leading cause for ages 25-34 and the fifth for ages 35-49 years. AIDS was the fifth leading cause of death for white females ages 25-34 years. The first year that AIDS was among the five leading causes in a race-sex-age group was 1987 but that was also the first year that AIDS deaths could be tabulated separately from pneumonia, cancer and other causes of death.

Table 2.15  
**Leading Causes of Death and Cause-Specific Rates by Age**  
 Michigan Residents, 1995

Age	Rank and Cause of Death	Number <sup>1</sup>	Rate <sup>2,3,4</sup>
All Ages	1. Diseases of the Heart	28,007	294.9
	2. Cancer	19,442	204.7
	3. Cerebrovascular Disease	5,857	61.7
	4. Chronic Obstructive Pulmonary Diseases & Allied Conditions	3,589	37.8
	5. Accidents	3,137	33.0
	<i>All causes</i>	83,405	878.3
Under 1 Year	1. Certain Conditions Originating in the Perinatal Period	546	406.0
	2. Congenital Anomalies	204	151.7
	3. Sudden Infant Death Syndrome	148	110.1
	4. Accidents	40	29.7
	5. Diseases of the Heart	24	17.8
	<i>All causes</i>	1,110	825.4
1-4 Years	1. Accidents	92	16.2
	2. Congenital Anomalies	30	5.3
	3. Cancer	19	3.4
	4. Homicide	17	3.0
	5. Pneumonia & Influenza	9	1.6
	<i>All causes</i>	232	40.9
5-14 Years	1. Accidents	121	8.6
	2. Cancer	33	2.3
	3. Homicide	28	2.0
	4. Congenital Anomalies	21	1.5
	5. Diseases of the Heart	11	0.8
	<i>All causes</i>	296	20.9
15-24 Years	1. Accidents	462	34.5
	2. Homicide	311	23.2
	3. Suicide	154	11.5
	4. Cancer	57	4.3
	5. Congenital Anomalies	26	1.9
	<i>All causes</i>	1,245	92.9
25-34 Years	1. Accidents	414	28.4
	2. AIDS	264	18.1
	3. Homicide	237	16.3
	4. Suicide	196	13.5
	5. Cancer	159	10.9
	<i>All causes</i>	1,805	123.9
35-49 Years	1. Cancer	1,293	60.1
	2. Diseases of the Heart	1,188	55.2
	3. Accidents	592	27.5
	4. AIDS	411	19.1
	5. Chronic Liver Disease & Cirrhosis	295	13.7
	<i>All causes</i>	5,894	274.1
50-64 Years	1. Cancer	4,150	331.5
	2. Diseases of the Heart	3,408	272.2
	3. Cerebrovascular Disease	457	36.5
	4. Chronic Obstructive Pulmonary Diseases & Allied Conditions	438	35.0
	5. Diabetes Mellitus	406	32.4
	<i>All causes</i>	11,392	909.9
65 and Over	1. Diseases of the Heart	23,213	1,967.6
	2. Cancer	13,728	1,163.6
	3. Cerebrovascular Disease	5,121	434.1
	4. Chronic Obstructive Pulmonary Diseases & Allied Conditions	3,025	256.4
	5. Pneumonia & Influenza	2,635	223.3
	<i>All causes</i>	61,422	5,206.2

<sup>1</sup> Subtotals by sex and race do not add to the grand total as the race was not stated on records for 14 males and 17 females. In addition, the sex was not stated for 1 white person and 3 black persons. Age groups do not add to respective totals because records with age not stated are included only in the "All Ages" row.

<sup>2</sup> Rates may not agree with those shown elsewhere in this section since records with sex and race not stated were randomly allocated prior to rate calculation for the other tables, and were not included in calculations for this table.

<sup>3</sup> Rate per 100,000 population.

<sup>4</sup> 1994 estimated population is used to calculate 1995 rates.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 2.16  
**Leading Causes of Death and Cause-Specific Rates by Age,  
 Michigan Resident White Males, 1995**

Age	Rank and Cause of Death	Number <sup>1</sup>	Rate <sup>2,3,4</sup>
All ages	1. Diseases of the Heart	11,733	301.9
	2. Cancer	8,626	222.0
	3. Cerebrovascular Disease	1,917	49.3
	4. Chronic Obstructive Pulmonary Diseases & Allied Conditions	1,713	44.1
	5. Accidents	1,609	41.4
	<i>All causes</i>	34,637	891.2
Under 1 Year	1. Certain Conditions Originating in the Perinatal Period	174	335.6
	2. Congenital Anomalies	80	154.3
	3. Sudden Infant Death Syndrome	40	77.1
	4. Accidents	10	19.3
	5-6. Diseases of the Heart - Pneumonia & Influenza	8	15.4
	<i>All causes</i>	368	709.7
1-4 Years	1. Accidents	40	17.3
	2. Congenital Anomalies	13	5.6
	3. Cancer	7	3.0
	4-6. Diseases of the Heart - Pneumonia & Influenza - Hernia	2	*
	<i>All causes</i>	84	36.3
5-14 Years	1. Accidents	55	9.3
	2. Cancer	16	2.7
	3. Congenital Anomalies	7	1.2
	4. Diseases of the Heart	5	*
	5-6. Pneumonia & Influenza - Suicide	3	*
	<i>All causes</i>	115	19.5
15-24 Years	1. Accidents	258	47.9
	2. Suicide	112	20.8
	3. Homicide	42	7.8
	4. Cancer	23	4.3
	5. Congenital Anomalies	16	3.0
	<i>All causes</i>	529	98.2
25-34 Years	1. Accidents	273	44.9
	2. Suicide	140	23.0
	3. AIDS	107	17.6
	4. Cancer	60	9.9
	5. Diseases of the Heart	56	9.2
	<i>All causes</i>	844	138.7
35-49 Years	1. Diseases of the Heart	615	67.7
	2. Cancer	458	50.4
	3. Accidents	333	36.6
	4. Suicide	179	19.7
	5. Chronic Liver Disease & Cirrhosis	163	17.9
	<i>All causes</i>	2,564	282.1
50-64 Years	1. Cancer	1,856	349.5
	2. Diseases of the Heart	1,854	349.1
	3. Cerebrovascular Disease	190	35.8
	4. Accidents	180	33.9
	5. Cerebrovascular Disease	153	28.8
	<i>All causes</i>	5,369	1,010.9
65 and Over	1. Diseases of the Heart	9,186	2,148.5
	2. Cancer	6,204	1,451.0
	3. Cerebrovascular Disease	1,678	392.5
	4. Chronic Obstructive Pulmonary Diseases & Allied Conditions	1,490	348.5
	5. Pneumonia & Influenza	1,021	238.8
	<i>All causes</i>	24,761	5,791.2

<sup>1</sup> Subtotals by sex and race do not add to the grand total as the race was not stated on records for 14 males and 17 females. In addition, the sex was not stated for 1 white person and 2 black persons. Age groups do not add to respective totals because records with age not stated are included only in the "All Ages" row.

<sup>2</sup> Rates may not agree with those shown elsewhere in this section since records with sex and race not stated were randomly allocated prior to rate calculation for the other tables, and were not included in calculations for this table.

<sup>3</sup> Rate per 100,000 population.

<sup>4</sup> 1994 estimated population is used to calculate 1995 rates.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 2.17  
**Leading Causes of Death and Cause-Specific Rates by Age**  
 Michigan Resident Black Males, 1995

Age	Rank and Cause of Death	Number <sup>1</sup>	Rate <sup>2,3,4</sup>
All Ages	1. Diseases of the Heart	1,920	302.3
	2. Cancer	1,411	222.1
	3. Homicide	533	83.9
	4. AIDS	372	58.6
	5. Cerebrovascular Disease	354	55.7
	<i>All causes</i>	6,885	1,083.9
Under 1 Year	1. Certain Conditions Originating in the Perinatal Period	127	837.0
	2. Sudden Infant Death Syndrome	34	224.1
	3. Congenital Anomalies	30	197.7
	4. Accidents	8	52.7
	5. Pneumonia & Influenza	5	*
	<i>All causes</i>	226	1,489.4
1-4 Years	1. Accidents	18	35.3
	2. Homicide	7	13.7
	3. Cancer	4	*
	4. Congenital Anomalies	3	*
	5-6. Nutritional Deficiencies - Pneumonia & Influenza	2	*
	<i>All causes</i>	47	92.3
5-14 Years	1. Homicide	16	13.6
	2. Accidents	9	7.7
	3. Cancer	6	5.1
	4. Chronic Obstructive Pulmonary Diseases & Allied Conditions	4	*
	5. Anemia	3	*
	<i>All causes</i>	55	46.8
15-24 Years	1. Homicide	225	192.8
	2. Accidents	52	44.6
	3. Suicide	24	21.2
	4. Diseases of the Heart	8	6.9
	5-6. Chronic Obstructive Pulmonary Diseases & Allied Conditions - AIDS	6	5.1
	<i>All causes</i>	358	306.8
25-34 Years	1. Homicide	138	150.9
	2. AIDS	115	125.7
	3. Accidents	31	33.9
	4-5. Suicide - Diseases of the Heart	29	31.7
	<i>All causes</i>	429	469.0
35-49 Years	1. Diseases of the Heart	234	180.4
	2. AIDS	206	158.8
	3. Cancer	122	94.1
	4. Homicide	107	82.5
	5. Accidents	87	67.1
	<i>All causes</i>	1,180	909.8
50-64 Years	1. Diseases of the Heart	460	721.7
	2. Cancer	356	558.5
	3. Cerebrovascular Diseases	67	105.1
	4. Chronic Liver Disease & Cirrhosis	64	100.4
	5. Diabetes Mellitus	58	91.0
	<i>All causes</i>	1,351	2,119.5
65 and Over	1. Diseases of the Heart	1,183	2,371.5
	2. Cancer	905	1,814.2
	3. Cerebrovascular Disease	233	467.1
	4. Pneumonia & Influenza	144	288.7
	5. Chronic Obstructive Pulmonary Diseases & Allied Conditions	113	226.5
	<i>All causes</i>	3,235	6,485.0

<sup>1</sup> Subtotals by sex and race do not add to the grand total as the race was not stated on records for 14 males and 17 females. In addition, the sex was not stated for 1 white person and 2 black persons. Age groups do not add to respective totals because records with age not stated are included only in the "All Ages" row.

<sup>2</sup> Rates may not agree with those shown elsewhere in this section since records with sex and race not stated were randomly allocated prior to rate calculation for the other tables, and were not included in calculations for this table.

<sup>3</sup> Rate per 100,000 population.

<sup>4</sup> 1994 estimated population is used to calculate 1995 rates.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 2.18  
**Leading Causes of Death and Cause-Specific Rates by Age**  
**Michigan Resident White Females, 1995**

Age	Rank and Cause of Death	Number <sup>1</sup>	Rate <sup>2,3,4</sup>
All Ages	1. Diseases of the Heart	12,269	302.7
	2. Cancer	8,059	198.8
	3. Cerebrovascular Disease	3,071	75.8
	4. Chronic Obstructive Pulmonary Diseases & Allied Conditions	1,557	38.4
	5. Pneumonia & Influenza	1,441	35.5
	<i>All causes</i>	35,453	874.6
Under 1 Year	1. Certain Conditions Originating in the Perinatal Period	122	246.4
	2. Congenital Anomalies	64	129.2
	3. Sudden Infant Death Syndrome	42	84.8
	4. Accidents	12	24.2
	5. Diseases of the Heart	10	20.2
	<i>All Causes</i>	286	577.5
1-4 Years	1. Accidents	20	9.1
	2. Congenital Anomalies	9	4.1
	3. Cancer	6	2.7
	4. Homicide	3	*
	5-7. Meningococcal Infectious - Other Infections & Parasitic Diseases - Pneumonia & Influenza	2	*
	<i>All Causes</i>	59	26.8
5-14 Years	1. Accidents	44	7.9
	2. Congenital Anomalies	11	2.0
	3. Cancer	10	1.8
	4. Diseases of the Heart	6	1.1
	5. Homicide	5	*
	<i>All Causes</i>	96	17.2
15-24 Years	1. Accidents	119	22.7
	2. Cancer	21	4.0
	3. Homicide	15	2.9
	4. Suicide	10	1.9
	5-6. Congenital Anomalies - Diseases of the Heart	7	1.3
	<i>All Causes</i>	238	45.3
25-34 Years	1. Accidents	83	13.6
	2. Cancer	62	10.1
	3. Diseases of the Heart	23	3.8
	4. Suicide	20	3.3
	5. AIDS	16	2.6
	<i>All Causes</i>	334	54.6
35-49 Years	1. Cancer	538	59.1
	2. Diseases of the Heart	197	21.6
	3. Accidents	119	13.1
	4. Cerebrovascular Diseases	74	8.1
	5. Suicide	62	6.8
	<i>All Causes</i>	1,386	152.1
50-64 Years	1. Cancer	1,606	288.1
	2. Diseases of the Heart	752	134.9
	3. Chronic Obstructive Pulmonary Diseases & Allied Conditions	183	32.8
	4. Cerebrovascular Disease	158	28.3
	5. Diabetes Mellitus	136	24.4
	<i>All Causes</i>	3,567	640.0
65 and Over	1. Diseases of the Heart	11,273	1,814.9
	2. Cancer	5,815	936.2
	3. Cerebrovascular Disease	2,821	454.2
	4. Pneumonia & Influenza	1,339	215.6
	5. Chronic Obstructive Pulmonary Diseases & Allied Conditions	1,327	213.6
	<i>All Causes</i>	29,485	4,747.1

<sup>1</sup> Subtotals by sex and race do not add to the grand total as the race was not stated on records for 14 males and 17 females. In addition, the sex was not stated for 1 white person and 2 black persons. Age groups do not add to respective totals because records with age not stated are included only in the "All Ages" row.

<sup>2</sup> Rates may not agree with those shown elsewhere in this section since records with sex and race not stated were randomly allocated prior to rate calculation for the other tables, and were not included in calculations for this table.

<sup>3</sup> Rate per 100,000 population.

<sup>4</sup> 1994 estimated population is used to calculate 1995 rates.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 2.19  
**Leading Causes of Death and Cause-Specific Rates by Age**  
 Michigan Resident Black Females, 1995

Age	Rank and Cause of Death	Number <sup>1</sup>	Rate <sup>2,3,4</sup>
All Ages	1. Diseases of the Heart	1,905	261.6
	2. Cancer	1,172	161.0
	3. Cerebrovascular Disease	479	65.8
	4. Diabetes Mellitus	228	31.3
	5. Pneumonia & Influenza	162	22.2
	<i>All causes</i>	5,731	787.1
Under 1 Year	1. Certain Conditions Originating in the Perinatal Period	111	759.1
	2. Sudden Infant Death Syndrome	30	205.2
	3. Congenital Anomalies	25	171.0
	4. Accidents	9	61.5
	5. Homicide	4	*
	<i>All causes</i>	204	1,395.1
1-4 Years	1. Accidents	11	22.0
	2-3. Congenital Anomalies - Homicide	4	*
	4. Pneumonia & Influenza	3	*
	5. Diseases of the Heart	2	*
	<i>All causes</i>	33	66.1
	5-14 Years	1. Accidents	11
2. Homicide		5	*
3. AIDS		2	*
4-6. Diseases of the Heart - Cancer - Pneumonia & Influenza - Chronic Obstructive Pulmonary Disease & Allied Conditions		1	*
<i>All causes</i>		25	21.7
15-24 Years		1. Homicide	25
	2. Accidents	19	15.3
	3. Cancer	7	5.6
	4-6. Diseases of the Heart - Suicide - Complications of Pregnancy, Childbirth & the Puerperium	4	*
	<i>All causes</i>	88	71.0
	25-34 Years	1. Homicide	35
2. AIDS		26	23.1
3. Cancer		19	16.9
4. Diseases of the Heart		17	15.1
5. Accidents		13	11.6
<i>All causes</i>		170	151.2
35-49 Years	1. Cancer	155	98.6
	2. Diseases of the Heart	120	76.4
	3. Accidents	43	27.4
	4. Cerebrovascular Disease	38	24.2
	5. AIDS	37	23.5
	<i>All causes</i>	682	434.0
50-64 Years	1. Diseases of the Heart	298	366.2
	2. Cancer	272	334.2
	3. Cerebrovascular Disease	68	83.6
	4. Diabetes Mellitus	45	55.3
	5. Chronic Obstructive Pulmonary Diseases & Allied Conditions	29	35.6
	<i>All causes</i>	934	1,147.7
65 and Over	1. Diseases of the Heart	1,461	1,995.5
	2. Cancer	718	980.7
	3. Cerebrovascular Disease	366	499.9
	4. Diabetes Mellitus	159	217.2
	5. Pneumonia & Influenza	117	159.8
	<i>All causes</i>	3,595	4,910.3

<sup>1</sup> Subtotals by sex and race do not add to the grand total as the race was not stated on records for 14 males and 17 females. In addition, the sex was not stated for 1 white person and 2 black persons. Age groups do not add to respective totals because records with age not stated are included only in the "all Ages" row.

<sup>2</sup> Rates may not agree with those shown elsewhere in this section since records with sex and race not stated were randomly allocated prior to rate calculation for the other tables, and were not included in calculations for this table.

<sup>3</sup> Rate per 100,000 population.

<sup>4</sup> 1994 estimated population is used to calculate 1995 rates.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

### **DEATHS DUE TO INFECTIOUS AND PARASITIC DISEASES**

Although comprising a smaller proportion of deaths than they have in the past, communicable disease deaths continue to be a public health concern. In 1995, deaths from all infectious and parasitic diseases numbered 1,746 (Table 2.20). The number of deaths due to septicemia decreased from 634 deaths in 1994 to 588 deaths in 1995.

There were 795 deaths (45.5 percent) attributable to AIDS. This was a 5.0 percent increase in the

number of deaths due to AIDS since 1994 when there were 757 deaths. There were 691 and 573 deaths due to AIDS reported in 1993 and 1992, respectively.

Deaths due to such diseases as diphtheria, scarlet fever, streptococcal sore throat, small pox, typhoid fever, measles, poliomyelitis and others have been virtually eliminated not only in Michigan, but across the nation. Table 4.7 illustrates trends in deaths from the major communicable diseases.

Table 2.20  
**Deaths from Selected Infectious and  
Parasitic Diseases**  
Michigan Residents, 1995

ICD List' Number	Cause of Death	Frequency
042-044	AIDS	795
038	Septicemia	588
070	Viral hepatitis	85
110-118	Mycoses	61
010-018	Tuberculosis	43
135	Sarcoidosis	27
046	Slow virus infection of central nervous system	12
136.3	Pneumocystosis	11
036	Meningococcal infection	9
052	Chickenpox	5
040.0	Gas gangrene	4
053	Herpes zoster	4
054	Herpes simplex	3
137	Late effects of tuberculosis	2
<i>Residual</i> 000-139	<i>All other infectious &amp; parasitic diseases</i>	97
<i>Total</i>		1,746

<sup>1</sup> Detailed list of the 9th revision of the *International Classification of Diseases*, WHO.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

### YEARS OF POTENTIAL LIFE LOST BELOW AGE 65

Another measure of the impact that causes of death have on a population, the years of potential life lost below age 65, is used by the National Centers for Disease Control. The number of years of potential life lost is calculated as the number of years between the age at death and 65 years of age for persons dying before their 65th year. This measure of mortality is designed to emphasize mortality which is prevalent among people under age 65.

Table 2.21 includes the years of potential life lost to the Michigan population in 1995 for the ten leading causes of death and selected other causes, as well as the rankings of these causes based on years of potential life lost for the United States.

The ranking of the leading causes of years of potential life lost was different from the ranking of

numbers of deaths presented in Table 2.14. Diseases of the heart was the leading cause of death but was the third leading cause of years of potential life lost below age 65. Cancer, with 67,253 total years lost, was the leading cause of years of potential life lost below age 65 in Michigan but was the second leading cause of death. Accidents and adverse effects, which was the fifth leading cause of death, was the second leading cause of years of potential life lost. Chronic obstructive pulmonary disease, diabetes mellitus and pneumonia and influenza which were among the ten leading causes of death, were not among the ten leading causes of years of potential life lost below age 65.

Rankings of the leading causes of potential life lost were reasonably similar for Michigan and the United States.

Table 2.21  
Years of Potential Life Lost Below Age 65  
Due to the Ten Leading Causes of Death and Selected Other Causes  
Michigan Residents, 1995

Rank	Cause of Death	Years of Potential Life Lost			1993 U.S. <sup>2</sup> Rank
		Total <sup>1</sup>	Male	Female	
1	Cancer	67,253	33,345	33,908	2
2	Accidents and Adverse Effects	65,946	44,767	21,179	1
3	Diseases of the Heart	56,580	39,059	17,522	3
4	Homicide/Suicide	52,612	42,493	10,119	5
5	AIDS	20,372	17,543	2,829	4
6	Prematurity <sup>3</sup>	19,472	10,764	8,514	---
7	Congenital Anomalies	18,835	10,504	8,332	---
8	Cerebrovascular Diseases	10,495	5,098	5,397	6
9	Sudden Infant Death Syndrome	9,546	4,773	4,773	---
10	Chronic Liver Disease and Cirrhosis	9,415	7,255	2,160	7
11	Diabetes Mellitus	7,080	4,275	2,805	9
12	Pneumonia and Influenza	6,888	4,075	2,814	8
13	Chronic Obstructive Pulmonary Diseases and Allied Conditions	6,499	3,014	3,485	10
14	Atherosclerosis	300	185	115	---
	<i>All Other</i>	77,410	44,917	32,494	

<sup>1</sup> Total includes data for individuals with sex unspecified.

<sup>2</sup> U.S. rankings based on a 10 percent sample of provisional data. Data obtained from *Health, United States 1995*, Table 31.

<sup>3</sup> Rankings not available for deaths due to prematurity, congenital anomalies, sudden infant death syndrome and atherosclerosis.

Codes 765 and 769, detailed list of the 9th revision of the *International Classification of Diseases*, WHO.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



## INFANT DEATHS

**Trends** Of the 83,405 deaths occurring to Michigan residents in 1995, 1,110 occurred to individuals less than one year of age. The rate of death for infants under the age of one year has dropped considerably since 1900. In that year there were 157.1 infant deaths for every 1,000 live births. This means that about 16 of every 100 infants did not survive their first year (Figure 2.7). This rate fell below 100 by 1914 (96.8), to less than 70 by 1927 (67.7), and to less than 50 by 1935 (47.7). During the 1940's the Michigan infant death rate declined from 40.6 in 1940 to 28.9 in 1949.

Relative declines in the infant death rate slowed considerably in the 1950's and 1960's. It was not until 1971 that the rate dropped below 20 to 19.5. The rate of decline between 1970 and 1980 compares favorably with the rate of decline observed before 1950. During the decade of the 1980's the infant death rate fell 13.3 percent. In the five years since 1990, the infant death rate has fallen 22.4 percent (Table 2.2).

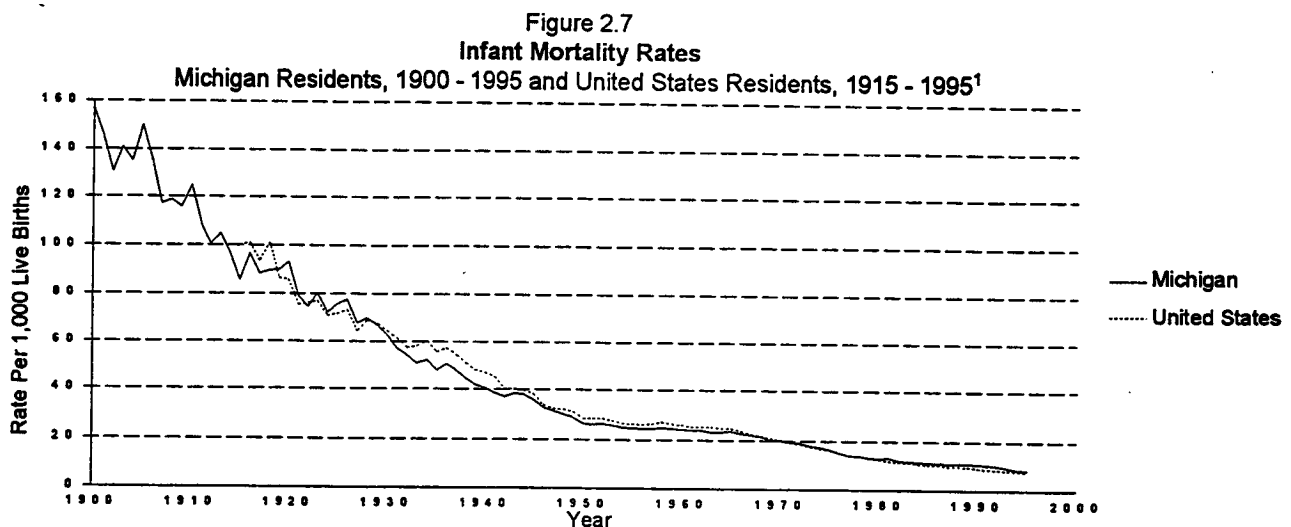
**Michigan and United States Comparison** During the period 1915-1928, the rate for Michigan was above that for the United States 9 of 14 years. From 1929 through 1969, Michigan's infant death rate was consistently below the national statistic. From 1970 through 1975 the infant mortality rate in Michigan was slightly higher than the rate for the nation. From

Table 2.22  
**Infant Deaths and Infant Death Rates**  
 Michigan and United States Residents  
 Selected Years, 1950 - 1995

United States		Year	Michigan	
Number	Rate		Number	Rate
103,825	28.6	1950	4,230	26.4
110,873	26.0	1960	4,704	24.1
74,667	20.0	1970	3,492	20.3
45,526	12.6	1980	1,851	12.8
40,030	10.6	1985	1,575	11.4
38,891	10.4	1986	1,565	11.4
38,408	10.1	1987	1,538	10.9
38,910	10.0	1988	1,542	11.0
39,655	9.8	1989	1,645	11.1
38,351	9.2	1990	1,638	10.7
36,766	8.9	1991	1,554	10.4
34,628	8.5	1992	1,460	10.2
33,466	8.4	1993	1,319	9.5
31,710	8.0	1994	1,184	8.6
29,338Pr.	7.5Pr.	1995	1,110	8.3

Source: Office of the State Registrar and Division of Health Statistics, MDCH  
 Source: United States - NCHS Monthly Vital Statistics Report Vol.45, No.5, Supplement 2, Table 13

1976 through 1980 the rates for the state and nation were similar. Since 1980 the rate for Michigan has been 5 to 20 percent above the national rate. The provisional rate for the United States in 1995 was 7.5 infant deaths per 1,000 live births. The Michigan rate of 8.3 was 10.7 percent higher than the national provisional rate in 1995 (Table 2.22).



<sup>1</sup> United States rate for 1995 is provisional.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Early Infant Deaths** Table 2.23 shows the numbers of infant deaths and infant death rates by age at death for the period 1970-1995. The number of infants who died during the first week of life in 1995 (596) is greater than the number of deaths of infants aged 7-364 days (514). In 1995, 65.3 percent of all infant deaths occurred within the first four

weeks of life and 42.3 percent occurred to infants less than one day old.

A review of Table 2.23 reveals that the 35.2 percent decline in the infant mortality rate since 1980 stems largely from reductions in the rate of death for those under 1 day and between 1 and 6 days of age.

Table 2.23  
Infant Deaths and Infant Death Rates by Age at Death  
Michigan Residents, Selected Years, 1970 - 1995

Year	Age at Death									
	Total Infant Deaths		< 1 Day		1- 6 Days		7 - 27 Days		28 - 364 Days	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1970	3,492	20.3	1,367	8.0	1,095	6.4	221	1.3	809	4.7
1975	2,205	16.5	856	6.4	461	3.4	246	1.8	642	4.8
1980	1,851	12.8	790	5.4	310	2.1	184	1.3	567	3.9
1985	1,575	11.4	697	5.1	217	1.6	157	1.1	504	3.7
1986	1,565	11.4	680	4.9	237	1.7	162	1.2	486	3.5
1987	1,538	10.9	660	4.7	217	1.5	152	1.1	509	3.6
1988	1,542	11.0	685	4.9	213	1.5	170	1.2	474	3.4
1989	1,645	11.1	703	4.7	208	1.4	159	1.1	575	3.9
1990	1,638	10.7	673	4.4	219	1.4	181	1.2	565	3.7
1991	1,554	10.4	663	4.4	182	1.2	158	1.1	551	3.7
1992	1,460	10.2	648	4.5	173	1.2	141	1.0	498	3.5
1993	1,319	9.5	551	3.9	157	1.1	148	1.1	463	3.3
1994	1,184	8.6	521	3.8	136	1.0	118	0.9	409	3.0
1995	1,110	8.3	470	3.5	126	0.9	129	1.0	385	2.9

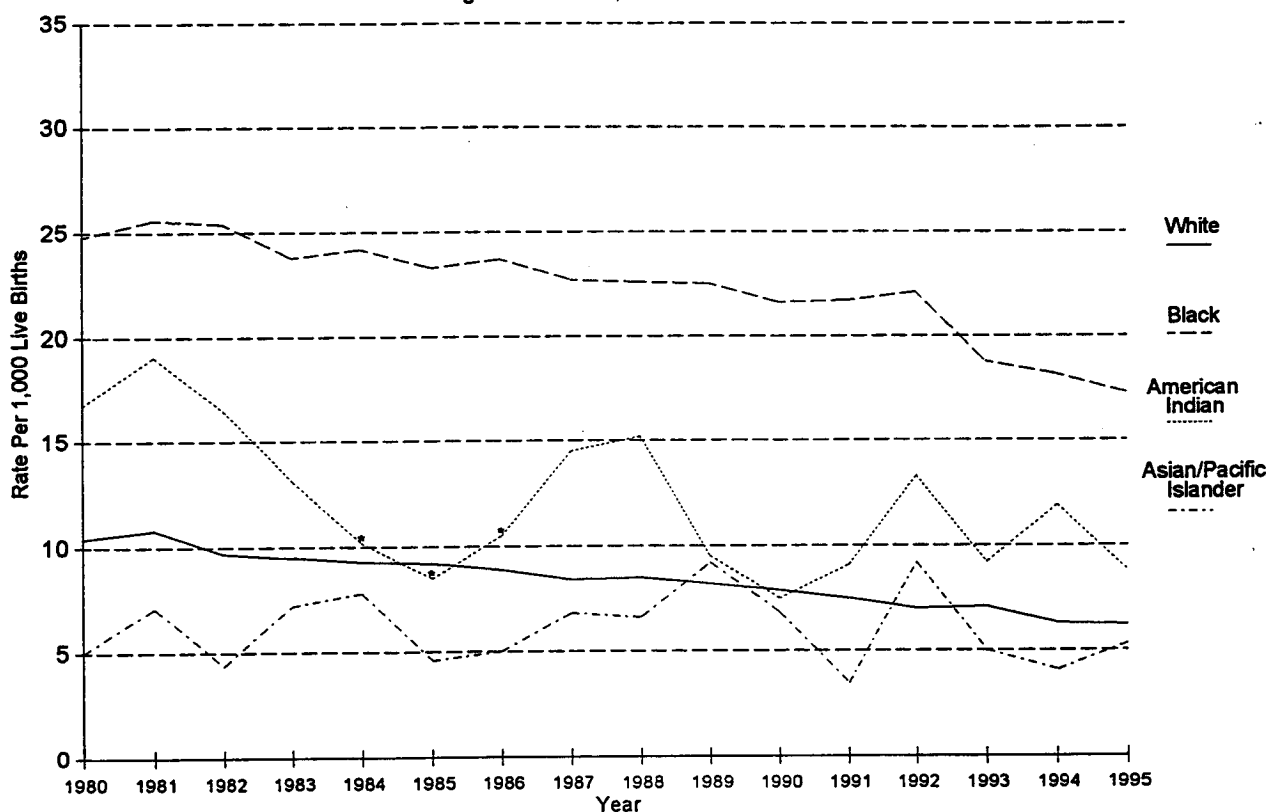
Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Trends in Infant Deaths by Race** Infant death rates for white, black, American Indians and Asian and Pacific Islanders are graphically displayed in Figure 2.8. The rates used in this graph were calculated using the race of the mother for live births.

Black infant death rates were higher than rates for the other racial groups throughout the period. Where American Indian infant death rates could be calculated, they were usually higher than rates for white infants. Asian and Pacific Islander infant mortality rates were usually lower than rates for white infants.

The white infant mortality rate dropped 40.4 percent between 1980 and 1995, while for black infants the decline was 30.2 percent. The decline in black infant death rates was 21.7 percent from 1992 to 1995. The white infant death rate fell 11.4 percent from 1992-1995. The rate for black infants of 24.8 in 1980 was 2.4 times higher than that for white infants (10.4). By 1995 the mortality rate for black infants (17.3) was 2.8 times higher than the rate for white infants (6.2) due to the slower decline in the mortality rates experienced by black infants than white infants during the sixteen years.

Figure 2.8  
Infant Death Rates by Race  
Michigan Residents, 1980 - 1995



\* Rate does not meet standards of precision or reliability.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Infant Death Rates** In Table 2.24 infant, hebdomadal, fetal and perinatal deaths are presented by race and ancestry. The infant mortality rates for Asian/Pacific Islander infants and infants of Arab ancestry were 14.5 and 6.5 percent lower than the rate for white infants. Rates for black and American Indian infants were higher than the white rate.

**Hebdomadal Death Rates** The death rate during the first week of life was 3.0 times higher for black infants than white infants. It was somewhat higher for Arab and Hispanic infants than white infants.

**Fetal Death Rates** The fetal death rates were higher for births to black and Hispanic mothers than white mothers. Fetal death rates were lowest for births to Asian/Pacific Islander and Arab mothers.

**Perinatal Death Rates** Perinatal deaths are fetal deaths plus hebdomadal deaths. Perinatal death rates were 2.1 times higher for fetuses and infants born to black mothers than white mothers. Perinatal death rates were lowest for fetuses and infants born to Asian/Pacific Islander and Arab mothers.

Table 2.24  
Infant, Hebdomadal, Fetal and Perinatal Death Rates<sup>1</sup> by Specified Race and Ancestry  
Michigan Residents, 1995

Race/Ancestry	Live <sup>2</sup> Births	Infant Deaths		Hebdomadal Deaths <sup>3</sup>		Fetal Deaths		Perinatal Deaths	
		Number <sup>4</sup>	Rate	Number <sup>4</sup>	Rate	Number <sup>5</sup>	Rate	Number <sup>6</sup>	Rate
All races	134,169	1,110	8.3	596	4.4	767	5.7	1,363	10.1
White	105,274	655	6.2	343	3.3	533	5.0	876	8.3
Black	24,914	432	17.3	243	9.8	202	8.0	445	17.7
American Indian	792	7	8.8	3	*	5	*	8	10.0
Asian/Pacific Islander	2,281	12	5.3	5	*	8	3.5	13	5.7
Other non-white	51	-	-	-	-	-	-	-	-
Unknown	857	4	*	2	*	19	21.7	21	24.0
Arab ancestry	2,581	15	5.8	9	3.5	6	2.3	15	5.8
Hispanic ancestry	4,766	36	7.6	17	3.6	33	6.9	50	10.4

<sup>1</sup> Rates are calculated using live births by race/ancestry of mother as the denominator.

<sup>2</sup> Mother's race/ancestry on birth certificate.

<sup>3</sup> Death at age zero to six days.

<sup>4</sup> Infant's race/ancestry on death certificate.

<sup>5</sup> Mother's race/ancestry on fetal death certificate.

<sup>6</sup> Mother's race/ancestry on fetal death certificate, infant's race/ancestry on death certificate.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Causes of Infant Deaths** Michigan resident infant deaths in 1995 are listed by cause of death classification and age at death in Table 2.25. Disorders relating to short gestation and unspecified low birthweight was listed as the cause of 219 deaths and was the specific disease category most frequently reported. Congenital anomalies was the second leading cause of death to infants, accounting for 204 deaths. Sudden infant death syndrome was responsible for 148 infant deaths in 1995, an 11.4 percent decrease from 1994. Over half of all infant deaths were attributed to these three conditions in 1995.

**Causes of Death in First Day of Life** For those infant deaths which occurred during the first day of life, over half were attributed to disorders relating to short gestation and unspecified low birthweight, respiratory distress syndrome or other respiratory conditions of newborn. About 1 in 6 deaths in the first day of life were due to congenital anomalies.

**Causes of Neonatal Deaths** The leading causes of death between 1 to 27 days of life were congenital anomalies and respiratory distress syndrome.

**Causes of Postneonatal Deaths** Sudden infant death syndrome was reported as the cause of 42.2 percent of the deaths to infants from 1-5 months of age. Accidents were the leading cause from 6-11 months of age.

**Causes of Death by Race** Disorders related to short gestation, respiratory distress syndrome and other respiratory conditions of the newborn were the causes of death for 38.9 percent of the black infants but only 29.3 percent of the white infants (Table 2.26). The rate of infant deaths due to congenital anomalies for black infants was 61.4 percent higher than the rate for white infants.

**Causes of Death for Male and Female Infants** The death rate for male infants was 12.2 percent greater than that for female infants (Table 2.27). While the death rate for males due to sudden infant death syndrome was 68.9 percent greater than rates for females in 1994, in 1995 the death rate for males was 4.9 percent lower for males than females. Rates for deaths due to disorders relating to short gestation and unspecified low birthweight, congenital anomalies and respiratory distress syndrome were higher for male infants than female infants.

Table 2.25  
Infant Deaths by Age at Death and Underlying Cause  
Michigan Residents, 1995

ICD - 9 CODE	Cause of Death	Age at Death					
		Total <1 Year	<1 Day	1-6 Days	7-27 Days	1-5 Months	6-11 Months
765	Disorders relating to short gestation and unspecified low birthweight . . . . .	219	209	8	2	-	-
740-759	Congenital anomalies . . . . .	204	85	31	28	50	10
798.0	Sudden infant death syndrome . . . . .	148	-	2	9	127	10
769	Respiratory distress syndrome . . . . .	82	38	22	18	3	1
770	Other respiratory conditions of newborn . . . . .	63	20	10	12	14	7
E800-949	Accidents and adverse effects . . . . .	40	-	-	4	20	16
E960-969	Homicide . . . . .	12	-	-	3	5	4
<i>Residual</i>	<i>All other causes</i> . . . . .	342	118	53	53	82	36
<i>Total</i> . . . . .		1,110	470	126	129	301	84

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 2.26  
**Infant Deaths and Infant Death Rates<sup>1</sup> by Race<sup>2,3</sup> and Underlying Cause**  
 Michigan Residents, 1995

ICD - 9 Code	Cause of Death	Race							
		All Races		White		Black		All Other Races	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate
765	Disorders relating to short gestation and unspecified low birthweight . . . . .	219	163.2	100	95.0	117	469.6	2	*
740-759	Congenital anomalies . . . . .	204	152.0	144	136.8	55	220.8	4	*
798.0	Sudden infant death syndrome . . . . .	148	110.3	82	77.9	64	256.9	1	*
769	Respiratory distress syndrome . . . . .	82	61.1	47	44.6	34	136.5	1	*
770	Other respiratory conditions of newborn . . . . .	63	47.0	45	42.7	17	68.2	-	-
E800-949	Accidents and adverse effects . . . . .	40	29.8	22	20.9	17	68.2	1	*
E960-969	Homicide . . . . .	12	8.9	5	*	5	*	2	*
<i>Residual</i>	<i>All other causes</i> . . . . .	342	254.9	210	199.5	123	493.7	8	256.1
<i>Total</i> . . . . .		1,110	827.3	655	622.2	432	1,734.0	19	608.2

<sup>1</sup> Rates per 100,000 live births.

<sup>2</sup> Numbers of infant deaths are by race of infant; rates are calculated using live births by race of mother as the denominator.

<sup>3</sup> Records with race not stated are included only in the "All Races" column.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 2.27  
**Infant Deaths and Infant Death Rates<sup>1</sup> by Sex<sup>2</sup> of Infant and Underlying Cause**  
 Michigan Residents, 1995

ICD - 9 CODE	Cause of Death	Sex of Infant					
		Total		Male		Female	
		Number	Rate	Number	Rate	Number	Rate
765	Disorders relating to short gestation and unspecified low birthweight . . . . .	219	163.2	121	176.0	95	145.3
740-759	Congenital anomalies . . . . .	204	152.0	111	161.4	93	142.2
798.0	Sudden infant death syndrome . . . . .	148	110.3	74	107.6	74	113.1
769	Respiratory distress syndrome . . . . .	82	61.1	45	65.4	37	56.6
770	Other respiratory conditions of newborn . . . . .	63	47.0	32	46.5	31	47.4
E800-949	Accidents and adverse effects . . . . .	40	29.8	18	26.2	22	33.6
E960-969	Homicide . . . . .	12	8.9	4	*	8	12.2
<i>Residual</i>	<i>All other causes</i> . . . . .	342	254.9	194	282.1	148	226.3
<i>Total</i> . . . . .		1,110	827.3	599	871.2	508	776.7

<sup>1</sup> Rates per 100,000 live births.

<sup>2</sup> Records with sex not stated are included only in the "Total" column.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Infant Deaths by Birth Characteristics** Infants that died in 1995 were born in 1994 or 1995. These infants can be characterized by the information on their birth certificates. Death rates are calculated using birth characteristics of 1995 live births and 1995 infant deaths.

**Infant Deaths by Mother's Age** In 1995, the mortality rates were lower for infants born to white

mothers over 19 years of age, than for infants born to white mothers under 20 years of age. The mortality rates for infants born to black mothers between 15 and 24 years of age were lower than the rates for infants born to black mothers over 24 years of age. Rates for black infants were significantly above those for the white group in all age groups with a sufficient number of events to calculate rates.

Table 2.28  
Infant Deaths, Live Births and Infant Death Rates by Age<sup>1</sup> and Race<sup>1,2</sup> of Mother  
Michigan Residents, 1995

Age of Mother in Years	All Races			White			Black			All Other Races		
	Infant Deaths	Live Births	Infant Death Rate	Infant Deaths	Live Births	Infant Death Rate	Infant Deaths	Live Births	Infant Death Rate	Infant Deaths	Live Births	Infant Death Rate
All ages	1,110	134,169	8.3	655	105,274	6.2	432	24,914	17.3	19	3,124	6.1
< 15	7	377	18.6	1	126	*	5	242	*	1	7	*
15-19	197	16,444	12.0	97	10,327	9.4	99	5,780	17.1	1	287	*
20-24	295	32,365	9.1	162	23,431	6.9	126	8,117	15.5	3	691	*
25-29	312	38,669	8.1	205	32,059	6.4	102	5,414	18.8	5	957	*
30-39	261	44,179	5.9	165	37,580	4.4	88	5,065	17.4	8	1,109	7.2
40 +	21	2,110	10.0	15	1,733	8.7	5	290	*	1	72	*

<sup>1</sup> Records with race not stated are included only in the "All Races" column. Records with age not stated are included only in the "All ages" row.

<sup>2</sup> Numbers of infant deaths are by race of infant; rates are calculated using live births by race of mother as the denominator.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Infant Deaths by Adequacy of Prenatal Care**  
 Infant death rates increased when the mother received less than adequate prenatal care as measured by the Kessner Index (Table 2.29). The infant death rate was 2.8 times greater for mothers with inadequate care (17.8 deaths per 1,000 live births) than for mothers with adequate care (6.3 deaths per 1,000 live births) in 1995.

The pattern was similar for both white and black infants. When the mother received adequate care based on the number of visits, the month prenatal care began and the length of gestation, the infant death rate for black infants (13.8) was still 2.7 times greater than for infants born to white mothers (5.2 deaths per 1,000 live births).

Table 2.29  
**Infant Deaths, Live Births and Infant Death Rates by Level of Prenatal Care<sup>1</sup> and Race<sup>1,2</sup>**  
 Michigan Residents, 1995

Level of Care (Kessner Index <sup>3</sup> )	All Races			White			Black			All Other Races		
	Infant Deaths	Live Births	Infant Death Rate	Infant Deaths	Live Births	Infant Death Rate	Infant Deaths	Live Births	Infant Death Rate	Infant Deaths	Live Births	Infant Death Rate
Total	1,110	134,169	8.3	655	105,274	6.2	432	24,914	17.3	19	3,124	6.1
Adequate	636	100,824	6.3	436	84,394	5.2	188	13,597	13.8	11	2,227	4.9
Intermediate	225	20,448	11.0	122	14,429	8.5	97	5,353	18.1	6	555	10.8
Inadequate	218	12,224	17.8	81	6,052	13.4	132	5,723	23.1	2	320	*

<sup>1</sup> Records with race not stated are included only in the "All Races" column. Records with unknown level of care are included only in the "Total" row.

<sup>2</sup> Numbers of infant deaths are by race of infant; rates are calculated using live births by race of mother as the denominator.

<sup>3</sup> The Kessner Index is a classification of prenatal care based on the month of pregnancy in which prenatal care began, the number of prenatal visits and the length of pregnancy (i.e., for shorter pregnancies, fewer prenatal visits constitute adequate care). See technical notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



**Infant Deaths by Birthweight** Infant death rates by race, birthweight and age at death are displayed in Table 2.30. While the overall infant death rate for black infants was 2.8 times that of white infants, the rate for black infants born weighing less than 750 grams was only 1.1 times that of white infants. The rates for black infants weighing 750 to 1,499 grams were slightly lower than the rate for their white counterparts. For infants weighing 2,500 grams or more the rate for black infants was 2.2 times the rate for white infants. A large part of the difference between infant death rates for white and black infants was due to the fact that a greater proportion of the infants born to black mothers were born at weights below 2,500 grams (14.0 percent for infants born to black mothers compared to 6.3 percent for infants born to white mothers).

Neonatal death rates were nearly three times higher for black infants than white infants. However the neonatal death rates for black infants with a birthweight below 750 grams were only 1.1 times higher than the corresponding white infants. The rates for black infants born between 750 to 2,499 grams were lower than the rates for white infants. The neonatal rate was about two times higher for black infants with birthweight of 2,500 grams or greater. After 28 days of life, the postneonatal death rates were generally higher for black infants than white infants.

The postneonatal death rates are progressively higher as birthweight is lower but are less progressive than the neonatal rates.

Table 2.30  
Live Births, Infant Deaths and Infant Death Rates by Birthweight, Age at Death and Race<sup>1,2</sup>  
Michigan Residents, 1995

Birthweight	Race of Infant	Live Births	Age at Death					
			Under 1 Year		Under 28 Days		28-364 Days	
			Number	Rate	Number	Rate	Number	Rate
Total	All races	134,169	1,110	8.3	725	5.4	385	2.9
	White	105,274	655	6.2	426	4.0	229	2.2
	Black	24,914	432	17.3	287	11.5	145	5.8
	All other races	3,124	19	6.1	10	3.2	9	2.9
Less than 750 grams	All races	662	422	637.5	395	596.7	27	40.8
	White	344	212	616.3	197	572.7	15	43.6
	Black	302	203	672.2	191	632.5	12	39.7
	All other races	9	6	666.7	6	666.7	-	-
750-1,499 grams	All races	1,319	126	95.5	91	69.0	35	26.5
	White	808	81	100.2	63	78.0	18	22.3
	Black	482	41	85.1	26	53.9	15	31.1
	All other races	22	3	*	2	*	1	*
1,500-2,499 grams	All races	8,375	149	17.8	79	9.4	70	8.4
	White	5,437	92	16.9	56	10.3	36	6.6
	Black	2,712	54	19.9	22	8.1	32	11.8
	All other races	180	2	*	1	*	1	*
2,500 grams or greater	All races	123,400	355	2.9	111	0.9	244	2.0
	White	98,402	236	2.4	80	0.8	156	1.6
	Black	21,318	112	5.3	30	1.4	82	3.8
	All other races	2,901	6	2.1	-	-	6	2.1
Unknown	All races	413	58	140.4	49	118.6	9	21.8
	White	283	34	120.1	30	106.0	4	*
	Black	100	22	220.0	18	180.0	4	*
	All other races	12	2	*	1	*	1	*

<sup>1</sup> Records with race not stated are included only in the "All races" rows.

<sup>2</sup> Numbers of infant deaths are by race of infant; rates are calculated using live births by race of mother as the denominator.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Causes of Death by Maternal Smoking Status and Race** The infant mortality rate for infants born to white mothers who reportedly smoked or used tobacco products during their pregnancy was 59.3 percent higher than the rate for infants born to white mothers who reportedly did not smoke during their pregnancy. Similarly, the rate for infants born to black mothers who reportedly smoked was 61.2 percent higher (Table 2.31).

Death rates were higher for every cause except congenital anomalies if the mother smoked during her pregnancy. The rate of death due to disorders related to short gestation/low birthweight were 62.5 percent higher for white mothers who smoked and SIDS rates were 4.0 times higher. Infants born to black mothers who smoked had death rates 32.6 percent higher for deaths due to disorders related to short gestation/low birthweight and 2.2 times higher for deaths due to SIDS than rates for infants born to non-smoking black mothers.

Table 2.31  
**Infant Deaths and Infant Death Rates<sup>1</sup> by Race<sup>2</sup> of Mother,  
 Smoking Status<sup>3</sup> During Pregnancy and Underlying Cause of Death<sup>4</sup>**  
 Michigan Residents, 1995

ICD - 9 Code	Cause of Death	All Races <sup>5</sup>				White				Black			
		Smokers		Non-smokers		Smokers		Non-smokers		Smokers		Non-smokers	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
798.0	Sudden infant death syndrome . . . . .	59	2.4	85	0.8	40	2.0	41	0.5	18	4.6	43	2.1
765	Disorders relating to short gestation and unspecified low birthweight . . . . .	48	2.0	159	1.5	25	1.3	69	0.8	22	5.7	89	4.3
740-759	Congenital anomalies . . . . .	28	1.2	169	1.6	19	1.0	118	1.4	8	2.1	47	2.3
769	Respiratory distress syndrome . . . . .	19	0.8	60	0.6	11	0.6	36	0.4	8	2.1	23	1.1
770	Other respiratory conditions of newborn . . . . .	15	0.6	43	0.4	8	0.4	33	0.4	6	1.5	10	0.5
E800-949	Accidents and adverse effects . . . . .	12	0.5	27	0.2	9	0.5	13	0.2	3	*	13	0.6
760-764 766-768 771-779	Other perinatal conditions . . . . .	10	0.4	35	0.3	6	0.3	20	0.2	4	*	13	0.6
Residual	All other causes . . . . .	81	3.3	209	1.9	54	2.7	124	1.5	26	6.7	78	3.8
<i>Total . . . . .</i>		272	11.2	787	7.3	172	8.6	454	5.4	95	24.5	316	15.2

<sup>1</sup> Rates per 1,000 live births.

<sup>2</sup> Numbers of infant deaths are by race of infant; rates are calculated using live births by race of mother as denominator.

<sup>3</sup> Records with smoking status not stated are included only in the "Non-smokers" columns.

<sup>4</sup> Records with cause of death pending are included only in the "Total" row.

<sup>5</sup> Records with race not stated are included only in the "All Races" column.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Perinatal Deaths by Maternal Age and Race**  
Perinatal deaths are fetal deaths plus deaths to individuals less than seven days of age. For total births in 1995, Michigan resident perinatal deaths numbered 1,363 and the perinatal death rate was 10.1 (Table 2.32). As with infant death rates, perinatal death rates vary considerably with race and age of mother. The overall perinatal mortality rate for black fetuses and infants was 2.1 times the rate for white fetuses and infants.

There was an increased risk of a perinatal death for mothers under 20 years of age and over 40 years.

These rates are lowest for black women ages 20-24 years and for white women ages 25-29 years.

**Perinatal Deaths by Adequacy of Prenatal Care**  
The perinatal death rates increased for mothers with less than adequate prenatal care (Table 2.33). The death rate was 2.8 times higher for mothers with inadequate care than for mothers with adequate care (20.8 vs. 7.3 deaths per 1,000 total births). The perinatal death rate for fetuses and infants born to black women with adequate care was more than double the comparable rate for fetuses and infants of white women.

Table 2.32  
Perinatal Deaths, Total Births and Perinatal Death Rates by Age<sup>1</sup> and Race<sup>1,2</sup> of Mother  
Michigan Residents, 1995

Age of Mother in Years	All Races			White			Black			All Other Races		
	Perinatal Deaths	Total Births	Perinatal Death Rate	Perinatal Deaths	Total Births	Perinatal Death Rate	Perinatal Deaths	Total Births	Perinatal Death Rate	Perinatal Deaths	Total Births	Perinatal Death Rate
All ages	1,363	134,936	10.1	876	105,807	8.3	445	25,116	17.7	21	3,137	6.7
< 15	10	382	26.2	2	127	*	8	246	32.5	-	7	-
15-19	191	16,539	11.5	105	10,388	10.1	85	5,813	14.6	-	287	-
20-24	314	32,535	9.7	189	23,541	8.0	112	8,168	13.7	6	695	8.6
25-29	325	38,829	8.4	216	32,173	6.7	102	5,454	18.7	4	960	*
30-39	398	44,415	9.0	290	37,768	7.7	93	5,103	18.2	11	1,115	9.9
40 +	35	2,135	16.4	29	1,755	16.5	6	293	20.5	-	72	-

<sup>1</sup> Records with race not stated are included only in the "All Races" column. Records with age not stated are included only in the "All ages" row.

<sup>2</sup> Numbers of infant deaths are by race of infant; rates are calculated using the sum of live births and fetal deaths by race of mother as the denominator.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 2.33  
Perinatal Deaths, Total Births and Perinatal Death Rates by Level of Prenatal Care<sup>1</sup> and Race<sup>1,2</sup> of Mother  
Michigan Residents, 1995

Level of Care (Kessner Index <sup>3</sup> )	All Races			White			Black			All Other Races		
	Perinatal Deaths	Total Births	Perinatal Death Rate	Perinatal Deaths	Total Births	Perinatal Death Rate	Perinatal Deaths	Total Births	Perinatal Death Rate	Perinatal Deaths	Total Births	Perinatal Death Rate
Total	1,363	134,936	10.1	876	105,807	8.3	445	25,116	17.7	21	3,137	6.7
Adequate	742	101,246	7.3	542	84,726	6.4	180	13,674	13.2	14	2,235	6.3
Intermediate	260	20,595	12.6	166	14,527	11.4	89	5,397	16.5	3	558	*
Inadequate	257	12,336	20.8	113	6,110	18.5	135	5,771	23.4	4	322	*

<sup>1</sup> Records with race not stated are included only in the "All Races" column. Records with unknown level of care are included only in the "Total" row.

<sup>2</sup> Numbers of infant deaths are by race of infant; rates are calculated using the sum of live births and fetal deaths by race of mother as the denominator.

<sup>3</sup> The Kessner Index is a classification of prenatal care based on the month of pregnancy in which prenatal care began, the number of prenatal visits and the length of pregnancy (i.e., for shorter pregnancies, fewer prenatal visits constitute adequate care).

Source: Office of the State Registrar and Division of Health Statistics, MDCH



# MARRIAGE & DIVORCE

## SECTION III





# MARRIAGE AND DIVORCE

## KEY TRENDS

### An Overview, 1995

Total Marriages	71,042
Total Divorces and Annulments	39,449
Marriage Rate <sup>1</sup>	15.0
Divorce Rate <sup>1</sup>	8.3
Median Age of the Bride	27
Median Age of the Groom	29
Median Age of Wife at Divorce Decree	35
Median Age of Husband at Divorce Decree	37
Median Duration of Marriage at Divorce Decree	7 Years

<sup>1</sup> Number of persons married or divorced per 1,000 population.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

The number of marriages and divorces occurring in Michigan has increased considerably since 1900. The frequency of marriage has generally followed the growth of Michigan's population. The rate of persons dissolving their marriages has increased over fourfold since 1900.

The smallest number of marriages in this century was 23,295 in 1900, while the largest number was 94,486 in 1973. In 1995 there were 71,042 marriages, a slight increase over 1994. In 1994 the marriage rate was 14.9 per 1,000 population, the lowest rate since 1959. The marriage rate in 1995 rose slightly to 15.0.

The number of divorces and annulments increased from a low of 2,435 in 1900 to a high of 45,047 in 1980. In 1995 the number of divorces and annulments was 39,449. The divorce rate was 8.3 per 1,000 population, a 14.4 percent decrease since 1980.

Table 3.1  
**Marriages and Marriage Rates<sup>1</sup>**  
 Michigan and United States<sup>2</sup> Occurrences  
 Selected Years, 1900 - 1995

United States		Year	Michigan	
Number	Rate		Number	Rate
709,000	18.6	1900	23,295	19.2
948,000	20.5	1910	29,039	20.7
1,274,476	23.9	1920	50,805	27.7
1,126,856	18.3	1930	29,482	12.2
1,595,879	24.2	1940	46,342	17.6
1,667,231	22.1	1950	58,180	18.3
1,523,000	17.0	1960	61,090	15.6
2,158,802	21.2	1970	91,933	20.7
2,390,252	21.2	1980	86,898	18.8
2,412,625	20.2	1985	79,022	17.4
2,407,099	20.0	1986	77,815	17.1
2,403,378	19.8	1987	74,418	16.2
2,395,926	19.6	1988	75,386	16.4
2,404,000	19.4	1989	76,210	16.5
2,448,000	19.6	1990	76,099	16.3
2,371,000Pr.	18.8Pr.	1991	72,747	15.5
2,362,000Pr.	18.6Pr.	1992	71,322	15.1
2,334,000Pr.	18.0Pr.	1993	70,771	15.0
2,362,000Pr.	18.2Pr.	1994	70,966	14.9
2,336,000Pr.	17.8Pr.	1995	71,042	15.0

<sup>1</sup> Number of persons married per 1,000 population.

<sup>2</sup> Beginning with 1978, marriage data for the United States include nonlicensed marriages registered in California. If nonlicensed marriages were included in the 1977 total, the marriage rate would increase from 19.8 to 20.1.

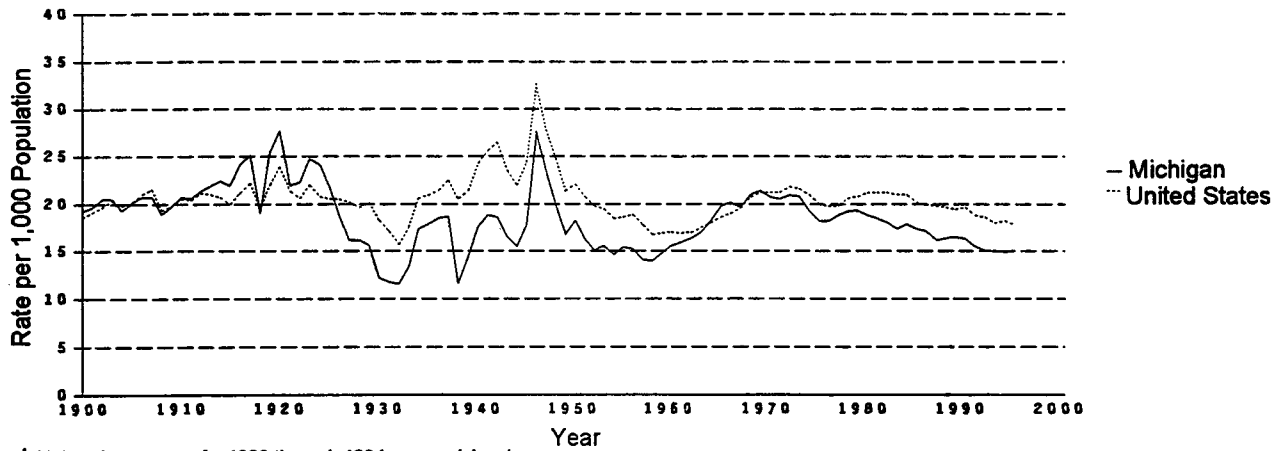
Source: Office of the State Registrar and Division of Health Statistics, MDCH

## MARRIAGES

Since 1900 there have been noticeable changes in the marriage rates both nationally and in Michigan (Table 3.1 and Figure 3.1). Both nationally and in Michigan, strong historic shifts in rates have been related most notably to the factors of war and the economy. The highest rates observed during this century were for the years immediately following the end of the two World Wars (27.7 in 1920 and 27.6 in 1946). The lowest rates occurred during the Great Depression of the 1930's.

The number of persons married each year per 1,000 population was higher in Michigan than in the country for 19 of the 26 years from 1900 through 1925. Since 1926, Michigan's marriage rate has been lower than the national rate, except during 1964 through 1969.

Figure 3.1  
**Marriage Rates**  
 Michigan and United States Occurrences, 1900-1995<sup>1</sup>



<sup>1</sup> United States rates for 1992 through 1994 are provisional.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**RESIDENCE OF COUPLES MARRYING  
 IN MICHIGAN**

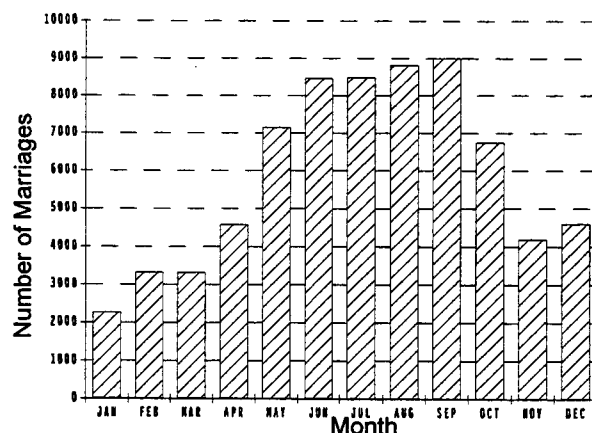
When presenting statistics of births, deaths and fetal deaths it is possible to provide total resident figures due to an interstate agreement for exchange of nonresident event information. Thus, should a Michigan resident give birth in some other state, the state will forward the information to Michigan. No such agreement exists for marriages. This is an important consideration when analyzing marriage statistics. The marriage data presented are drawn from all marriages performed in the state regardless of the couple's residence.

In general, most of the couples marrying in Michigan are residents of the state. For marriages occurring in Michigan in 1995, 95.1 percent of the brides were residents of Michigan, while 93.3 percent of the grooms were residents of the state. These data indicate that the general characteristics of marriages occurring in Michigan should be representative of marriage patterns for Michigan residents.

**MONTH OF MARRIAGE**

The number of marriages occurring in Michigan varies with the seasons (Figure 3.2). The most popular months for marriages in 1995 were September, August and July, with 9,009, 8,827 and 8,497 marriage ceremonies being performed during these months, respectively. About 2 out of every 3 marriages occurred in the six months between May and October. Fewer marriages occurred during the winter months. The lowest figure was for January, with 25.3 percent of the number which occurred in September.

Figure 3.2  
**Marriages by Month**  
 Michigan Occurrences, 1995



Source: Office of the State Registrar and Division of Health Statistics, MDCH



**AGE AT MARRIAGE**

Examination of the data in Table 3.2 reveals that females generally marry at a younger age than do males. The number of females who marry before the age of 20 was 2.7 times the corresponding number of males in 1995. Between ages 20 and 24, 31.0 percent more females than males married. Among persons 25 and over, the number of males marrying was greater than females marrying. The median age of brides (27 years) marrying in Michigan was two years lower than the median age for grooms (29 years).

Since 1975, there have been significant declines in the marriage rates for persons of both sexes under the age of 25 years. The largest decline observed was for males under the age of 20 years for whom the marriage rate has dipped 78.4 percent. For individuals between 25 and 44 years of age, the marriage rate for males and females increased. The rates for persons 45 and over were about the same for males and females during these twenty years.

**FIRST MARRIAGES**

First marriages are an interesting component of all marriages in that they constitute an event that can never be duplicated. The frequency of first marriages reflects the propensity of the population as a whole to enter into marital agreements.

There has been a decline in the number of first marriages between 1985 and 1995. The number of first marriages dropped 12.3 percent for women and 9.7 percent for men (Tables 3.3 and 3.4).

Changes in the frequency of first marriages have varied in different age groups. The greatest decline in the number of first marriages occurred in the 20-24 year age group for both brides and grooms, between 1985 and 1995. The number of first marriages also declined substantially for brides and grooms in the under 20 age group. There were significant increases in the number of first marriages of both brides and grooms between ages 25 and 44.

Between 1985 and 1995 the percentages of marriages which were first marriages increased for each age group over 20 years of age.

Table 3.2  
Number of Marriages and Marriage Rates<sup>1</sup> by Age and Sex  
Michigan Occurrences, 1975, 1985 and 1995

Age in Years	Males				Females			
	1975 Rate	1985 Rate	1995		1975 Rate	1985 Rate	1995	
			Number	Rate			Number	Rate
< 20 <sup>2</sup>	22.7	8.3	1,678	4.9	53.0	23.6	4,608	14.1
20-24	81.7	52.5	16,115	48.3	74.9	61.7	21,115	62.3
25-34	39.6	39.5	32,060	44.8	24.9	32.0	28,134	38.0
35-44	14.3	21.6	12,658	16.7	11.3	16.3	11,279	14.4
45 +	6.4	6.3	8,529	6.2	3.9	3.2	5,903	3.6
<i>Total</i>	18.4	17.9	71,042	15.4	17.8	16.9	71,042	14.6
Median age at last birthday	29				27			

<sup>1</sup> Number of persons married per 1,000 population.

<sup>2</sup> The 15-19 population age group is used to calculate the rates.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 3.3  
Number of Marriages of Brides by Age and Order of Marriage  
Michigan Occurrences, 1985 and 1995

Age in Years	1985					1995				
	All Marriages	First Marriages	Percent First Marriages	Second Marriages	Third or More Marriages	All Marriages	First Marriages	Percent First Marriage	Second Marriage	Third or More Marriages
All ages	79,022	52,994	67.1	20,189	5,826	71,042	46,487	65.4	18,288	6,251
< 20	10,221	10,133	99.1	85	-	4,608	4,570	99.2	31	4
20-24	29,058	26,872	92.5	2,102	81	21,115	19,938	94.4	1,122	49
25-29	17,613	11,764	66.8	5,234	610	17,856	14,133	79.1	3,398	322
30-34	9,060	3,059	33.8	4,693	1,308	10,278	4,955	48.2	4,433	890
35-39	5,303	713	13.4	3,185	1,405	6,740	1,899	28.2	3,482	1,358
40-44	3,015	211	7.0	1,873	931	4,539	667	14.7	2,424	1,448
45 +	4,749	240	5.1	3,017	1,490	5,903	324	5.5	3,396	2,180
Not stated	3	2	*	-	1	3	1	*	2	-
Median age at last birthday	25	23	000	32	38	27	24	000	35	41

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 3.4  
Number of Marriages of Grooms by Age and Order of Marriage  
Michigan Occurrences, 1985 and 1995

Age in Years	1985					1995				
	All Marriages	First Marriages	Percent First Marriages	Second Marriages	Third or More Marriages	All Marriages	First Marriages	Percent First Marriage	Second Marriage	Third or More Marriages
All ages	79,022	52,004	65.8	20,762	6,247	71,042	46,972	66.1	18,060	6,001
< 20	3,711	3,706	99.9	4	-	1,678	1,675	99.8	2	-
20-24	24,904	23,972	96.3	916	14	16,115	15,690	97.4	418	4
25-29	21,036	16,869	80.2	3,889	276	19,740	17,275	87.5	2,339	122
30-34	11,075	5,201	47.0	4,901	973	12,320	7,894	64.1	3,929	497
35-39	6,536	1,456	22.3	3,806	1,272	7,596	2,882	37.9	3,750	964
40-44	4,105	386	9.4	2,485	1,234	5,062	1,007	19.9	2,807	1,247
45 +	7,650	411	5.4	4,759	2,478	8,529	547	6.4	4,815	3,167
Not stated	5	3	*	2	-	2	2	*	-	-
Median age at last birthday	27	24	000	35	42	29	26	000	37	45

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**MEDIAN AGE AT FIRST MARRIAGE**

The median age at first marriage declined for both brides and grooms between 1953 and the mid-1960's (Figure 3.3). The initial decline was greater for grooms than for brides.

Grooms were 34 months older than brides at the median in 1953, 23 months older in 1963 and 20 months older in 1968. During the past fifteen years, the median age at first marriage has increased by about the same amount for both grooms and brides. Grooms were 20 months older than brides at the median in 1995.

The median age at first marriage in 1995 was 24 years 9 months for brides and 26 years 5 months for grooms.

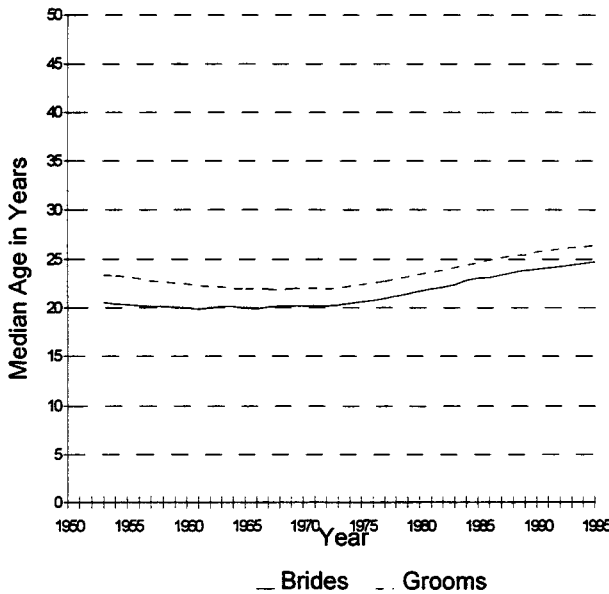
**REMARRIAGES**

The proportion of all marriages which were remarriages is displayed graphically in Figure 3.4 for the period 1960-1995. Between 1960 and 1965, the proportion of remarriages dropped. Since 1965, this proportion has increased.

The number of remarriages among brides decreased by 5.7 percent between 1985 and 1995, while the number of brides who had been married at least three times previously increased by 7.3 percent. Total remarriages for grooms decreased by 10.9 percent, while the number of third or higher order marriages decreased (3.9 percent).

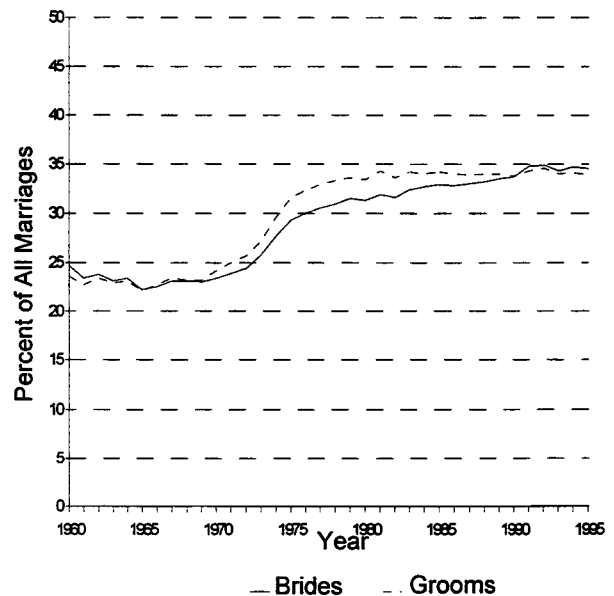
The median age at second and later marriages increased between 1985 and 1995 (Tables 3.3 and 3.4).

**Figure 3.3**  
**Median Age at First Marriage by Sex**  
**Michigan Occurrences, 1953 -1995**



Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Figure 3.4**  
**Percent of All Marriages that are Remarriages**  
**Michigan Occurrences, 1960 -1995**



Source: Office of the State Registrar and Division of Health Statistics, MDCH

### DIVORCES AND ANNULMENTS

The number of reported divorces and annulments reached a record high in 1981 in the nation and in 1980 in Michigan. Between 1980 and 1985, the Michigan frequency declined. The number then increased to 40,568 in 1990 and decreased to 39,449 in 1995. The 1995 frequency was 12.4 percent below the 1980 frequency. Nationally, the provisional number of divorces in 1994 was 1,191,000.

The number of persons divorced in Michigan per 1,000 population generally increased from 2.0 in 1900 to the then century high of 5.1 in 1929, then declined between 1930 and 1933 to 3.1 (Figure 3.5). Between 1934 and 1946 the rate generally increased, peaking at 10.2 in 1946. The rate of divorces and annulments decreased to 3.6 in 1958 and increased to a high of 9.8 in 1978. It has fluctuated between 8.3 and 8.7 since 1982.

The national rates generally followed the same pattern, reaching a provisional rate of 9.2 in 1994. Michigan's divorce rate was higher than that for the United States each year from 1900 through 1947. In the following 46 years the Michigan divorce rate has been at or below the national rate 39 times, including each of the past 24 years. The lowest national rate was 1.5 in 1900. The highest national divorce rates during this century was recorded in 1979 and 1981 (10.6).

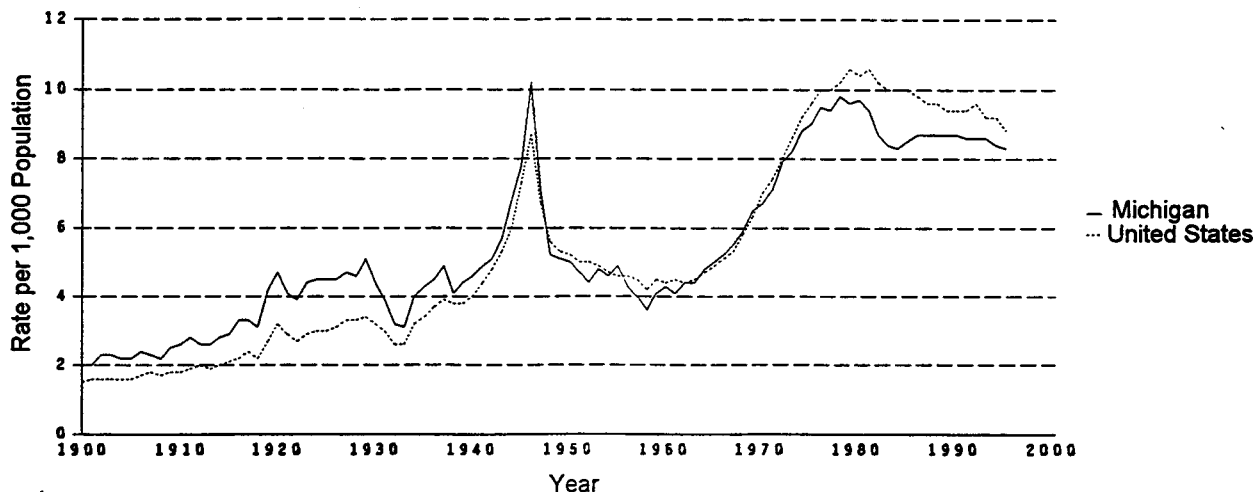
Table 3.5  
Number of Divorces and Annulments  
Divorce and Annulment Rates<sup>1</sup>  
Michigan and United States Occurrences  
Selected Years, 1900 - 1995

United States		Year	Michigan	
Number	Rate		Number	Rate
56,000	1.5	1900	2,435	2.0
8,300	1.8	1910	3,716	2.6
170,505	3.2	1920	8,679	4.7
195,961	3.2	1930	10,639	4.4
264,000	4.0	1940	12,054	4.6
385,000	5.2	1950	15,979	5.0
393,000	4.4	1960	16,656	4.3
708,000	7.0	1970	29,934	6.7
1,189,000	10.4	1980	45,047	9.7
1,190,000	10.0	1985	38,775	8.5
1,178,000	9.8	1986	39,553	8.7
1,166,000	9.6	1987	39,857	8.7
1,167,000	9.6	1988	40,103	8.7
1,157,000	9.4	1989	40,276	8.7
1,182,000	9.4	1990	40,568	8.7
1,187,000Pr.	9.4Pr.	1991	40,103	8.6
1,215,000Pr.	9.6Pr.	1992	40,425	8.6
1,187,000Pr.	9.2Pr.	1993	40,470	8.6
1,191,000Pr.	9.2Pr.	1994	39,795	8.4
1,169,000Pr.	8.8Pr.	1995	39,449	8.3

<sup>1</sup> Number of persons whose marriages ended in divorce or annulment per 1,000 population.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Figure 3.5  
Divorce Rates  
Michigan and United States Occurrences, 1900-1995<sup>1</sup>



<sup>1</sup> United States rates for 1992 through 1994 are provisional.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

The number of children under 18 of couples dissolving marriages in 1995 was at least 38,611 (Table 3.6). This is 22.1 percent below the peak number of 49,555 in 1976. The number of children affected by divorce as a proportion of all children peaked at 16.9 in 1980 and 1981 (Table 3.6). It has fluctuated between 15.0 and 16.3 per 1,000 children

during the last twelve years. The average number of children per divorce has dropped from a high of 1.37 children in 1971 to 0.98 in 1995.

Data for the United States indicate a similar pattern.

Table 3.6  
Estimated Number of Children Involved in Divorces and Annulments, Average Number of Children Per Decree, and Rate Per 1,000 Children Under 18 Years of Age  
Michigan and United States, Selected Years 1960 - 1995

Michigan			Year	United States		
Estimated Number of Children Involved	Average Number of Children Per Decree	Rate Per 1,000 Under 18 Years of Age		Estimated Number of Children Involved	Average Number of Children Per Decree	Rate Per 1,000 Under 18 Years of Age
19,209	1.15	6.5	1960	463,000	1.18	7.2
40,596	1.36	12.5	1970	870,000	1.22	12.5
46,603	1.04	16.9	1980	1,174,000	0.98	17.3
45,461	1.05	16.9	1981	1,180,000	0.97	18.7
41,156	1.04	15.7	1982	1,108,000	0.94	17.6
38,712	1.02	15.2	1983	1,091,000	0.94	17.4
37,629	1.00	15.0	1984	1,081,000	0.92	17.2
38,673	1.00	15.5	1985	1,091,000	0.92	17.3
39,378	1.00	15.9	1986	1,064,000	0.90	16.8
39,321	1.00	15.9	1987	1,038,000	0.89	16.3
39,635	0.99	16.1	1988	1,044,000	0.89	16.4
39,897	0.99	16.3	1989	1,063,000	0.91	16.8
39,792	0.98	16.2	1990	1,075,000	0.90	16.8
39,000	0.97	15.7	1991	---	---	---
39,579	0.98	15.9	1992	---	---	---
39,372	0.97	15.7	1993	---	---	---
38,794	0.97	15.4	1994	---	---	---
38,611	0.98	15.3	1995	---	---	---

Source: Office of the State Registrar and Division of Health Statistics, MDCH



# REFERENCE APPENDIX

## SECTION IV

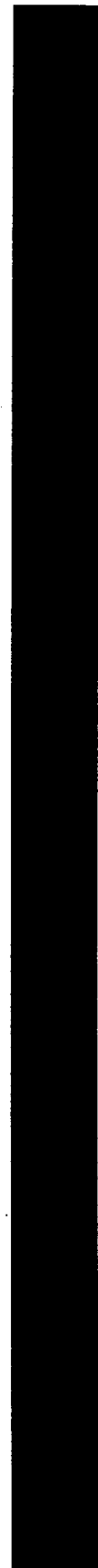
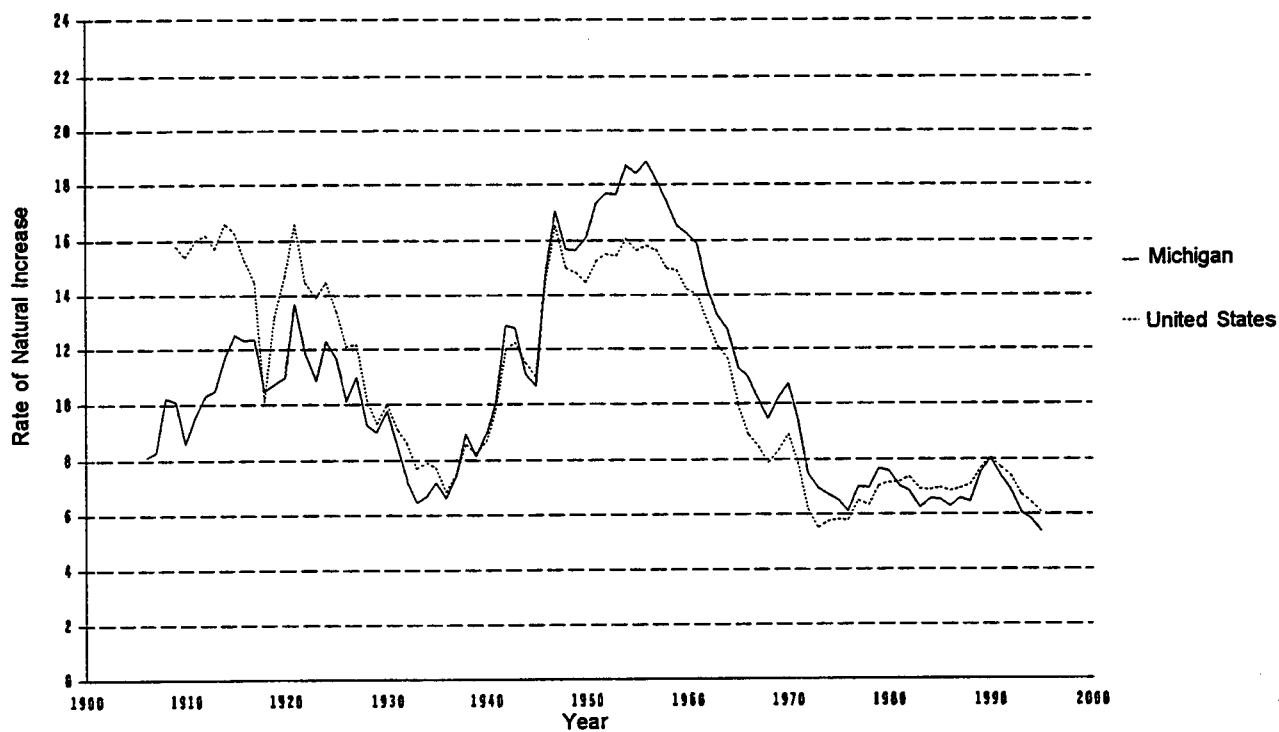






Figure 4.1  
Rate of Natural Increase<sup>1</sup>  
Michigan, 1906 - 1995 and the United States, 1909 - 1995<sup>2</sup>



<sup>1</sup> Excess of live births over deaths per 1,000 population.

<sup>2</sup> Rates for the United States for 1909-1932 are based on death rates from the Death Registration States and estimated birth rates for the United States, adjusted for under-registration. For 1933-1959 rates are based on registered deaths in the United States and births adjusted for under-registration. After 1959 rates are based on registered births and deaths. 1995 United States data are provisional.

Source: Office of the State Registrar and Division of Health Statistics

Table 4.1  
Population, Live Births, Deaths, Marriages and Divorces  
Michigan, 1900 - 1995

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

Year	Population <sup>1</sup>	Live Births	Deaths							Marriages	Divorces <sup>3</sup>	
			All Ages	<1 Year	<28 Days <sup>2</sup>	28-364 Days	Perinatal	Fetal	Maternal			
1900	2,420,982	43,699	32,453	6,866					1,325	452	23,295	2,435
1901	2,459,901	43,221	32,834	6,319					1,501	531	24,079	2,448
1902	2,498,820	45,546	31,472	5,949					1,793	468	25,653	2,828
1903	2,537,739	46,020	33,176	6,488					1,814	427	26,029	2,945
1904	2,576,658	47,508	34,494	6,419					1,911	436	24,918	2,808
1905	2,615,578	46,976	34,679	8,054					2,044	416	26,307	2,825
1906	2,654,497	58,599	37,033	7,952					2,358	400	27,519	3,192
1907	2,693,416	59,029	36,701	6,906					2,358	391	27,940	3,107
1908	2,732,335	64,772	36,761	7,697					2,694	440	25,765	3,020
1909	2,771,254	64,323	36,313	7,443					2,540	405	27,353	3,516
1910	2,810,173	64,109	39,913	7,998					2,559	431	29,039	3,716
1911	2,895,997	65,756	38,007	7,131					2,716	451	29,859	4,125
1912	2,981,821	69,537	38,804	6,985					2,906	396	31,694	3,838
1913	3,067,645	73,058	40,827	7,659					2,953	528	33,529	3,978
1914	3,153,469	76,761	39,906	7,431					3,113	507	35,316	4,395
1915	3,239,293	81,100	40,441	6,943					3,357	488	35,527	4,757
1916	3,325,116	87,062	46,047	8,415					3,689	503	40,143	5,540
1917	3,410,940	89,419	47,236	7,916					3,550	586	42,791	5,627
1918	3,496,764	91,261	54,617	8,197					3,686	709	33,260	5,493
1919	3,582,588	84,062	45,636	7,560					3,361	578	45,579	7,469
1920	3,668,412	92,245	51,982	8,587					3,770	795	50,805	8,679
1921	3,785,799	96,035	44,186	7,584					3,669	605	41,508	7,676
1922	3,903,186	90,042	43,817	6,730					3,779	551	43,561	7,591
1923	4,020,573	92,956	49,333	7,477					3,657	583	49,569	8,745
1924	4,137,960	98,187	47,304	7,088	4,119	2,969	6,791	3,703	636	629	49,788	9,400
1925	4,255,347	98,983	49,417	7,498	4,022	3,476	6,667	3,670	629	629	46,276	9,650
1926	4,372,734	98,289	54,080	7,620	4,054	3,566	6,773	3,816	631	631	39,788	9,795
1927	4,490,121	99,940	50,600	6,766	3,915	2,851	6,794	3,834	667	667	36,276	10,617
1928	4,607,508	97,462	54,755	6,806	3,739	3,067	6,594	3,701	603	603	37,300	10,615
1929	4,724,895	98,695	56,117	6,605	3,777	2,828	6,613	3,710	617	617	36,816	12,094
1930	4,842,325	98,882	51,561	6,213	3,624	2,589	6,518	3,714	597	597	29,482	10,639
1931	4,883,703	90,547	49,068	5,187	3,084	2,103	5,643	3,220	539	539	28,856	9,507
1932	4,925,081	85,254	49,569	4,630	2,798	1,832	5,210	2,980	493	493	28,552	7,889
1933	4,966,459	80,482	48,507	4,094	2,591	1,503	4,906	2,776	447	447	33,132	7,671
1934	5,007,837	83,944	50,440	4,377	2,717	1,660	4,781	2,607	450	450	43,241	10,124
1935	5,049,216	87,403	51,051	4,170	2,550	1,620	4,832	2,717	438	438	45,313	10,844
1936	5,090,594	88,457	54,777	4,479	2,647	1,832	4,726	2,625	425	425	47,023	11,419
1937	5,131,972	91,566	53,468	4,374	2,700	1,674	4,919	2,707	326	326	47,954	12,472
1938	5,173,350	96,962	50,678	4,319	2,734	1,585	4,984	2,732	345	345	30,105	10,646
1939	5,214,728	94,432	52,017	3,952	2,594	1,358	4,706	2,572	280	280	37,725	11,589
1940	5,256,106	99,106	52,092	4,022	2,629	1,393	4,749	2,602	292	292	46,342	12,054
1941	5,437,546	107,498	52,671	4,166	2,687	1,479	4,991	2,769	298	298	50,989	13,317
1942	5,538,856	124,068	52,738	4,606	3,091	1,515	5,581	3,067	260	260	51,582	14,085
1943	5,377,329	125,441	56,774	4,804	2,979	1,825	5,563	3,213	237	237	44,385	15,259
1944	5,377,329	113,586	54,016	4,326	2,784	1,542	5,140	2,874	198	198	41,678	18,356
1945	5,435,092	111,557	53,641	4,008	2,670	1,338	4,906	2,703	166	166	48,329	21,133
1946	5,708,415	138,572	54,856	4,541	3,323	1,218	5,978	3,168	163	163	78,808	29,158
1947	6,069,000	160,275	56,807	5,055	3,677	1,378	6,583	3,422	173	173	71,319	21,386
1948	6,195,000	153,726	56,520	4,617	3,352	1,265	5,968	3,132	120	120	61,986	16,017
1949	6,352,000	156,469	57,107	4,520	3,232	1,288	5,746	2,994	105	105	53,109	16,274

<sup>1</sup> 1971-1979 population estimates have been revised by the U.S. Census Bureau. 1980-1994 population estimates have been revised by the Department of Management & Budget.

<sup>2</sup> For years prior to 1950 deaths under 1 month of age are included in deaths under 28 days.

<sup>3</sup> 1974 divorce data is estimated.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.1 (continued)  
Population, Live Births, Deaths, Marriages and Divorces  
Michigan, 1900 - 1995

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

Year	Population <sup>1</sup>	Live Births	Deaths							Marriages	Divorces <sup>3</sup>
			All Ages	<1 Year	<28 Days <sup>2</sup>	28-364 Days	Perinatal	Fetal	Maternal		
1950	6,371,766	160,055	57,567	4,214	3,043	1,171	5,781	3,095	91	58,180	15,979
1951	6,545,000	172,451	59,181	4,505	3,296	1,209	6,088	3,158	94	53,411	15,446
1952	6,708,000	177,835	59,138	4,689	3,414	1,275	6,266	3,224	82	50,487	14,925
1953	6,852,000	182,968	62,087	4,728	3,369	1,339	6,188	3,180	79	53,308	16,537
1954	7,024,000	192,104	60,706	4,795	3,560	1,235	6,415	3,249	94	51,243	16,281
1955	7,236,000	196,294	63,087	4,873	3,707	1,166	6,381	3,029	61	55,698	17,676
1956	7,516,000	206,068	64,352	5,047	3,796	1,251	6,655	3,245	84	57,068	16,228
1957	7,803,000	208,488	66,435	5,093	3,884	1,209	6,668	3,154	79	55,121	15,442
1958	7,866,000	202,690	65,899	4,980	3,789	1,191	6,516	3,101	69	55,159	14,040
1959	7,960,000	198,301	66,812	4,846	3,674	1,172	6,250	2,928	72	58,826	16,168
1960	7,823,194	195,056	67,912	4,702	3,580	1,122	6,247	3,008	75	61,090	16,656
1961	7,903,000	192,825	67,375	4,604	3,475	1,129	5,875	2,735	78	63,320	16,219
1962	7,939,000	182,790	70,049	4,367	3,251	1,116	5,669	2,703	56	65,002	17,500
1963	8,030,000	178,871	72,438	4,150	3,109	1,041	5,407	2,540	71	68,160	17,479
1964	8,100,000	175,103	72,129	4,043	3,071	972	5,293	2,466	62	73,911	19,400
1965	8,199,283	166,464	73,665	3,936	2,909	1,027	5,139	2,475	54	81,247	20,305
1966	8,314,070	165,794	74,596	3,751	2,830	921	4,909	2,295	54	83,903	21,727
1967	8,615,000	162,756	75,360	3,595	2,714	881	4,693	2,195	52	84,363	23,620
1968	8,675,000	159,058	76,855	3,438	2,617	821	4,476	2,064	44	90,984	25,400
1969	8,734,000	165,760	76,693	3,356	2,550	806	4,488	2,175	27	93,392	28,347
1970	8,875,083	171,667	76,321	3,492	2,671	821	4,522	2,060	29	91,933	29,934
1971	8,972,000	162,244	77,395	3,157	2,412	745	4,139	1,923	32	92,134	31,790
1972	9,025,000	146,854	79,210	2,801	2,115	686	3,700	1,765	35	94,447	35,505
1973	9,072,000	141,550	78,522	2,561	1,902	659	3,392	1,682	26	94,486	37,128
1974	9,109,000	137,414	76,143	2,387	1,734	653	2,947	1,438	19	88,023	39,940
1975	9,108,000	133,931	74,522	2,205	1,563	642	2,673	1,356	16	82,856	40,782
1976	9,117,000	131,378	75,801	1,978	1,424	554	2,495	1,264	14	82,753	43,101
1977	9,157,000	138,416	74,144	1,945	1,367	578	2,452	1,284	11	86,088	43,036
1978	9,202,000	138,802	74,773	1,931	1,281	650	2,302	1,201	15	88,333	45,029
1979	9,249,000	144,452	73,480	1,921	1,295	626	2,285	1,175	11	89,450	44,242
1980	9,256,110	145,162	74,991	1,851	1,284	567	2,235	1,135	16	86,898	45,047
1981	9,209,287	140,579	75,818	1,851	1,281	570	2,151	1,040	7	85,252	43,167
1982	9,115,196	137,950	75,536	1,672	1,202	470	1,989	954	11	82,633	39,739
1983	9,047,764	133,026	76,639	1,573	1,067	506	1,843	933	6	78,910	37,991
1984	9,049,454	135,782	76,401	1,595	1,100	495	1,884	929	4	80,810	37,563
1985	9,076,287	138,052	78,635	1,575	1,071	504	1,867	953	9	79,022	38,775
1986	9,127,774	137,626	80,177	1,565	1,079	486	1,782	865	11	77,815	39,553
1987	9,187,484	140,466	79,795	1,538	1,029	509	1,701	824	8	74,418	39,857
1988	9,218,002	139,635	80,075	1,542	1,068	474	1,659	761	11	75,386	40,103
1989	9,253,298	148,164	78,566	1,645	1,070	575	1,792	881	13	76,210	40,276
1990	9,310,321	153,080	78,501	1,638	1,073	565	1,722	830	10	76,099	40,568
1991	9,369,076	149,478	79,738	1,554	1,003	551	1,620	775	16	72,747	40,103
1992	9,422,362	143,827	78,916	1,460	962	498	1,576	755	15	71,322	40,425
1993	9,458,645	139,560	82,286	1,319	856	463	1,434	726	8	70,771	40,470
1994	9,496,073	137,844	82,644	1,184	775	409	1,388	731	8	70,966	39,795
1995	9,496,073	134,169	83,405	1,110	725	385	1,363	767	11	71,042	39,449

<sup>1</sup> 1971-1979 population estimates have been revised by the U.S. Census Bureau. 1980-1994 population estimates have been revised by the Department of Management & Budget.

<sup>2</sup> For years prior to 1950 deaths under 1 month of age are included in deaths under 28 days.

<sup>3</sup> 1974 divorce data is estimated.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.2  
Live Birth Rates, Death Rates, Fetal Death Ratios, Marriage and Divorce Rates  
Michigan, 1900 - 1995

(Birth rate, death rate for all ages, rate of persons married and rate of persons divorced per 1,000 population<sup>1</sup>.  
Fetal death ratio, mortality rates for deaths under 1 year, under 28 days, and from 28-364 days per 1,000 live births.  
Maternal mortality rate per 100,000 live births. Perinatal mortality rate per 1,000 live births and fetal deaths.)

Year	Live Births	Deaths							Marriages	Divorces <sup>3</sup>
		All Ages	<1 Year	<28 Days <sup>2</sup>	28-364 Days	Perinatal	Fetal	Maternal		
1900	18.1	13.4	157.1				30.3	1,034.3	19.2	2.0
1901	17.6	13.3	146.2				34.7	1,228.6	19.6	2.0
1902	18.2	12.6	130.6				39.4	1,027.5	20.5	2.3
1903	18.1	13.1	141.0				39.4	927.9	20.5	2.3
1904	18.4	13.4	135.1				40.2	917.7	19.3	2.2
1905	18.0	13.3	150.2				43.5	885.6	20.1	2.2
1906	22.1	14.0	135.7				40.2	682.6	20.7	2.4
1907	21.9	13.6	117.0				39.9	662.4	20.7	2.3
1908	23.7	13.5	118.8				41.6	679.3	18.9	2.2
1909	23.2	13.1	115.7				39.5	629.6	19.7	2.5
1910	22.8	14.2	124.8				39.9	672.3	20.7	2.6
1911	22.7	13.1	108.4				41.3	685.9	20.6	2.8
1912	23.3	13.0	100.4				41.8	569.5	21.3	2.6
1913	23.8	13.3	104.8				40.4	722.7	21.9	2.6
1914	24.3	12.7	96.8				40.6	660.5	22.4	2.8
1915	25.0	12.5	85.6				41.4	601.7	21.9	2.9
1916	26.2	13.8	96.7				42.4	577.7	24.1	3.3
1917	26.2	13.8	88.5				39.7	655.3	25.1	3.3
1918	26.1	15.6	89.8				40.4	776.9	19.0	3.1
1919	23.5	12.7	89.9				40.0	687.6	25.4	4.2
1920	25.1	14.2	93.1				40.9	861.8	27.7	4.7
1921	25.4	11.7	79.0				38.2	630.0	21.9	4.1
1922	23.1	11.2	74.7				42.0	611.9	22.3	3.9
1923	23.1	12.3	80.4				39.3	627.2	24.7	4.4
1924	23.7	11.4	72.2	41.9	30.2	66.7	37.7	647.7	24.1	4.5
1925	23.3	11.6	75.7	40.6	35.1	64.9	37.1	635.5	21.7	4.5
1926	22.5	12.4	77.5	41.2	36.3	66.3	38.8	642.0	18.7	4.5
1927	22.3	11.3	67.7	39.2	28.5	65.5	38.4	667.4	16.2	4.7
1928	21.2	11.9	69.8	38.4	31.5	65.2	38.0	618.7	16.2	4.6
1929	20.9	11.9	66.9	38.3	28.7	64.6	37.6	625.2	15.6	5.1
1930	20.4	10.6	62.8	36.6	26.2	63.5	37.6	603.7	12.2	4.4
1931	18.5	10.1	57.3	34.1	23.2	60.2	35.6	595.3	11.8	3.9
1932	17.3	10.1	54.3	32.8	21.5	59.0	35.0	578.3	11.6	3.2
1933	16.2	9.8	50.9	32.2	18.7	58.9	34.5	555.4	13.3	3.1
1934	16.8	10.1	52.1	32.4	19.8	55.2	31.1	536.1	17.3	4.0
1935	17.3	10.1	47.7	29.2	18.5	53.6	31.1	501.1	17.9	4.3
1936	17.4	10.8	50.6	29.9	20.7	51.9	29.7	480.5	18.5	4.5
1937	17.8	10.4	47.8	29.5	18.3	52.2	29.6	356.0	18.7	4.9
1938	18.7	9.8	44.5	28.2	16.3	50.0	28.2	355.8	11.6	4.1
1939	18.1	10.0	41.8	27.5	14.4	48.5	27.2	296.5	14.5	4.4
1940	18.9	9.9	40.6	26.5	14.1	46.7	26.3	294.6	17.6	4.6
1941	19.8	9.7	38.8	25.0	13.8	45.3	25.8	277.2	18.8	4.9
1942	22.4	9.5	37.1	24.9	12.2	43.9	24.7	209.6	18.6	5.1
1943	23.3	10.6	38.3	23.7	14.5	43.2	25.6	188.9	16.5	5.7
1944	21.1	10.0	38.1	24.5	13.6	44.1	25.3	174.3	15.5	6.8
1945	20.5	9.9	35.9	23.9	12.0	42.9	24.2	148.8	17.8	7.8
1946	24.3	9.6	32.8	24.0	8.8	42.2	22.9	117.6	27.6	10.2
1947	26.4	9.4	31.5	22.9	8.6	40.2	21.4	107.9	23.5	7.1
1948	24.8	9.1	30.0	21.8	8.2	38.0	20.4	78.1	20.0	5.2
1949	24.6	9.0	28.9	20.7	8.2	36.0	19.1	67.1	16.7	5.1

<sup>1</sup> 1971-1995 birth, death, marriage and divorce rates have been recalculated using revised population estimates. 1971-1979 population estimates have been revised by the U.S. Census Bureau. 1980-1994 population estimates have been revised by the Department of Management & Budget.

<sup>2</sup> For years prior to 1950 deaths under 1 month of age are included in deaths under 28 days.

<sup>3</sup> 1974 divorce data is estimated.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.2 (continued)  
Live Birth Rates, Death Rates, Fetal Death Ratios, Marriage and Divorce Rates  
Michigan, 1900 - 1995

(Birth rate, death rate for all ages, rate of persons married and rate of persons divorced per 1,000 population<sup>1</sup>.  
Fetal death ratio, mortality rates for deaths under 1 year, under 28 days, and from 28-364 days per 1,000 live births.  
Maternal mortality rate per 100,000 live births. Perinatal mortality rate per 1,000 live births and fetal deaths.)

Year	Live Births	Deaths							Marriages	Divorces <sup>3</sup>
		All Ages	<1 Year	<28 Days <sup>2</sup>	28-364 Days	Perinatal	Fetal	Maternal		
1950	25.1	9.0	26.4	19.0	7.3	35.4	19.3	56.9	18.3	5.0
1951	26.3	9.0	26.1	19.1	7.0	34.7	18.3	54.5	16.3	4.7
1952	26.5	8.8	26.4	19.2	7.2	34.6	18.1	46.1	15.1	4.4
1953	26.7	9.1	25.8	18.5	7.3	33.2	17.4	43.2	15.6	4.8
1954	27.3	8.6	25.0	18.5	6.4	32.8	16.9	48.9	14.6	4.6
1955	27.1	8.7	24.8	18.9	5.9	32.0	15.4	31.1	15.4	4.9
1956	27.4	8.6	24.5	18.4	6.1	31.8	15.7	40.8	15.2	4.3
1957	26.7	8.5	24.4	18.6	5.8	31.5	15.1	37.9	14.1	4.0
1958	25.8	8.4	24.6	18.7	5.9	31.7	15.3	34.0	14.0	3.6
1959	24.9	8.4	24.4	18.5	5.9	31.1	14.8	36.3	14.8	4.1
1960	24.9	8.7	24.1	18.4	5.8	31.5	15.4	38.5	15.6	4.3
1961	24.4	8.5	23.9	18.0	5.9	30.0	14.2	40.5	16.0	4.1
1962	23.0	8.8	23.9	17.8	6.1	30.6	14.8	30.6	16.4	4.4
1963	22.3	9.0	23.2	17.4	5.8	29.8	14.2	39.7	17.0	4.4
1964	21.6	8.9	23.1	17.5	5.6	29.8	14.1	35.4	18.2	4.8
1965	20.3	9.0	23.6	17.5	6.2	30.4	14.9	32.4	19.8	5.0
1966	19.9	9.0	22.6	17.1	5.6	29.2	13.8	32.6	20.2	5.2
1967	18.9	8.7	22.1	16.7	5.4	28.4	13.5	31.9	19.6	5.5
1968	18.3	8.9	21.6	16.5	5.2	27.8	13.0	27.7	21.0	5.9
1969	19.0	8.8	20.2	15.4	4.9	26.7	13.1	16.3	21.4	6.5
1970	19.3	8.6	20.3	15.6	4.8	26.0	12.0	16.9	20.7	6.7
1971	18.1	8.6	19.5	14.9	4.6	25.2	11.9	19.7	20.5	7.1
1972	16.3	8.8	19.1	14.4	4.7	24.9	12.0	23.8	20.9	7.9
1973	15.6	8.7	18.1	13.4	4.7	23.7	11.9	18.4	20.8	8.2
1974	15.1	8.4	17.4	12.6	4.8	21.2	10.5	13.8	19.3	8.8
1975	14.7	8.2	16.5	11.7	4.8	19.8	10.1	11.9	18.2	9.0
1976	14.4	8.3	15.1	10.8	4.2	18.8	9.6	10.7	18.2	9.5
1977	15.1	8.1	14.1	9.9	4.2	17.6	9.3	7.9	18.8	9.4
1978	15.1	8.1	13.9	9.2	4.7	16.4	8.7	10.8	19.2	9.8
1979	15.6	7.9	13.3	9.0	4.3	15.7	8.1	7.6	19.3	9.6
1980	15.7	8.1	12.8	8.8	3.9	15.3	7.8	11.0	18.8	9.7
1981	15.3	8.2	13.2	9.1	4.1	15.2	7.4	5.0	18.5	9.4
1982	15.1	8.3	12.1	8.7	3.4	14.3	6.9	8.0	18.1	8.7
1983	14.7	8.5	11.8	8.0	3.8	13.8	7.0	4.5	17.4	8.4
1984	15.0	8.4	11.7	8.1	3.6	13.8	6.8	*	17.9	8.3
1985	15.2	8.7	11.4	7.8	3.7	13.4	6.9	6.5	17.4	8.5
1986	15.1	8.8	11.4	7.8	3.5	12.9	6.3	8.0	17.1	8.7
1987	15.3	8.7	10.9	7.3	3.6	12.0	5.9	5.7	16.2	8.7
1988	15.1	8.7	11.0	7.6	3.4	11.8	5.4	7.9	16.4	8.7
1989	16.0	8.5	11.1	7.2	3.9	12.0	5.9	8.8	16.5	8.7
1990	16.4	8.4	10.7	7.0	3.7	11.2	5.4	6.5	16.3	8.7
1991	16.0	8.5	10.4	6.7	3.7	10.8	5.2	10.7	15.5	8.6
1992	15.3	8.4	10.2	6.7	3.5	10.9	5.2	10.4	15.1	8.6
1993	14.8	8.7	9.5	6.1	3.3	10.2	5.2	5.7	15.0	8.6
1994	14.5	8.7	8.6	5.6	3.0	10.0	5.3	5.8	14.9	8.4
1995	14.1	8.8	8.3	5.4	2.9	10.1	5.7	8.2	15.0	8.3

<sup>1</sup> 1971-1995 birth, death, marriage and divorce rates have been recalculated using revised population estimates. 1971-1979 population estimates have been revised by the U.S. Census Bureau. 1980-1994 population estimates have been revised by the Department of Management & Budget.

<sup>2</sup> For years prior to 1950 deaths under 1 month of age are included in deaths under 28 days.

<sup>3</sup> 1974 divorce data is estimated.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.3  
**Number of Live Births by Age of Mother**  
 Michigan Residents, 1920 - 1995

Year	All Ages <sup>1</sup>	Age of Mother								
		10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 +	Not Stated
1920	92,740	34	8,129	26,344	26,251	17,521	10,427	3,523	336	175
1921	96,322	39	8,747	26,583	27,292	18,433	11,150	3,572	337	169
1922	90,209	28	8,125	24,575	25,154	17,690	10,584	3,485	343	225
1923	93,066	37	8,725	25,887	25,459	18,072	10,770	3,476	382	258
1924	98,025	38	9,877	28,000	25,781	18,707	11,395	3,682	321	224
1925	99,220	62	10,248	28,116	26,204	18,869	11,406	3,695	379	241
1926	98,781	76	10,496	28,479	25,876	18,444	11,219	3,568	354	269
1927	100,178	59	10,685	29,302	25,707	18,790	11,287	3,722	332	294
1928	97,797	54	10,788	28,895	25,003	17,953	10,913	3,558	315	318
1929	99,134	56	11,312	30,582	25,557	16,957	10,555	3,523	293	299
1930	99,325	60	11,476	29,956	25,861	17,125	10,684	3,582	291	290
1931	90,929	61	10,109	27,255	23,806	15,937	9,905	3,317	302	237
1932	85,736	62	9,297	25,686	22,608	14,988	9,314	3,250	291	240
1933	80,923	52	8,642	23,874	21,618	14,298	8,795	3,173	261	210
1934	83,925	48	9,039	25,458	22,507	14,968	8,391	3,050	259	205
1935	87,446	47	9,808	27,631	22,938	15,026	8,473	3,029	284	210
1936	88,427	53	9,764	28,681	23,584	14,814	8,194	2,866	274	197
1937	91,539	54	10,524	30,532	24,366	15,022	7,949	2,653	242	197
1938	96,963	64	11,024	32,581	26,116	15,690	8,397	2,698	253	140
1939	94,302	51	10,368	31,036	26,095	15,976	8,021	2,416	209	130
1940	99,021	51	10,671	32,960	27,860	16,549	8,146	2,390	202	192
1941	107,458	50	11,309	36,833	31,067	17,132	8,351	2,361	200	155
1942	123,886	66	12,721	43,947	36,034	19,367	8,985	2,445	202	119
1943	125,778	67	11,934	41,627	37,773	21,449	9,980	2,615	184	149
1944	114,700	76	10,113	36,096	33,654	21,094	10,636	2,714	182	135
1945	112,655	73	9,294	32,790	33,143	22,831	11,185	2,970	229	140
1946	139,277	72	10,899	45,999	41,985	25,184	11,811	3,002	223	102
1947	161,085	91	15,594	55,954	47,793	26,296	12,009	3,073	182	93
1948	154,730	95	16,245	53,520	45,059	25,268	11,391	2,888	173	91
1949	157,178	117	16,404	53,608	46,363	25,971	11,565	2,906	181	63
1950	160,955	111	16,310	53,442	48,186	27,422	12,392	2,831	169	92
1951	173,506	104	17,974	57,340	52,044	29,674	13,086	3,040	160	84
1952	178,634	134	17,206	58,012	54,198	31,756	13,880	3,176	220	52
1953	182,810	166	18,510	58,070	54,734	32,948	14,798	3,350	190	44
1954	192,332	208	20,522	60,776	55,962	35,152	15,862	3,598	220	32
1955	196,623	195	21,417	61,952	56,462	35,968	16,554	3,862	198	15
1956	206,226	192	22,808	66,332	58,392	36,870	17,282	4,172	164	14
1957	208,808	190	23,798	67,086	58,424	36,980	17,956	4,160	200	14
1958	202,900	222	23,034	65,834	55,130	36,278	17,892	4,296	196	18
1959	198,576	200	21,922	65,426	53,434	34,934	18,030	4,424	198	8

<sup>1</sup> Total live births for the years 1920 through 1959 differ from figures in Table 4.1 as they are derived from outside sources. Live births by age of mother were not tabulated in Michigan prior to 1960. These data were obtained from the following sources:

1920-1923: Unpublished tables from the National Center for Health Statistics.

1924-1932: Bureau of the Census publication, *Birth, Stillbirth and Infant Mortality Statistics for Birth, Registration Areas of the United States*.

1933-1936: Unpublished tables from the National Center for Health Statistics.

1937-1949: Bureau of the Census publication, *Vital Statistics of the United States* series.

1950-1959: Department of Health Education and Welfare publication, *Vital Statistics of the United States* series.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.3 (continued)  
 Number of Live Births by Age of Mother  
 Michigan Residents, 1920 - 1995

Year	All Ages <sup>1</sup>	Age of Mother								
		10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 +	Not Stated
1960	195,056	186	22,786	65,108	51,842	33,228	17,410	4,288	202	6
1961	192,825	212	23,891	64,336	50,277	32,456	17,067	4,363	203	20
1962	182,790	268	22,702	62,243	47,109	29,817	16,160	4,250	224	17
1963	178,871	210	21,686	62,834	46,063	28,364	15,117	4,359	229	9
1964	175,103	264	22,526	62,196	44,671	26,542	14,509	4,162	220	13
1965	166,464	267	24,653	59,439	40,693	23,767	13,528	3,886	211	20
1966	165,794	310	28,690	60,711	39,225	21,205	11,846	3,547	223	37
1967	162,756	316	27,267	61,541	40,052	19,840	10,479	3,059	178	24
1968	159,058	400	26,390	60,072	41,561	18,613	9,095	2,739	163	25
1969	165,760	421	28,061	63,376	44,615	18,535	8,157	2,433	134	28
1970	171,667	489	29,764	65,892	46,262	19,003	7,904	2,223	118	12
1971	162,244	472	28,480	62,367	43,639	18,259	6,975	1,926	112	14
1972	146,854	503	28,108	54,199	40,442	16,133	5,805	1,555	95	14
1973	141,550	569	27,808	51,284	39,845	15,520	5,163	1,277	62	22
1974	137,414	501	25,977	49,975	40,215	15,317	4,291	1,063	50	25
1975	133,931	463	24,509	48,675	40,061	14,891	4,273	982	54	23
1976	131,378	404	22,593	47,161	41,412	14,893	4,053	799	47	16
1977	138,416	426	22,585	49,740	43,346	17,293	4,178	771	51	26
1978	138,802	345	21,487	49,498	43,744	18,367	4,562	729	50	20
1979	144,452	355	21,239	51,319	46,084	19,962	4,720	715	41	17
1980	145,162	331	20,000	51,218	47,113	21,024	4,692	740	22	22
1981	140,579	300	18,397	47,737	46,527	22,178	4,701	695	34	10
1982	137,950	319	17,344	45,586	45,995	22,564	5,395	711	29	7
1983	133,026	328	16,589	42,034	45,065	22,505	5,669	791	38	7
1984	135,782	341	16,442	41,664	45,908	24,320	6,295	780	30	2
1985	138,052	352	16,279	41,125	47,049	25,491	6,864	851	36	5
1986	137,626	335	16,536	39,611	46,421	26,331	7,503	842	35	12
1987	140,466	329	16,911	39,314	47,052	27,795	8,038	969	46	12
1988	139,635	371	17,003	37,529	45,924	28,469	8,553	1,094	54	638
1989	148,164	396	19,149	39,352	47,853	30,462	9,571	1,207	58	116
1990	153,080	426	20,224	39,992	48,466	32,058	10,421	1,382	40	71
1991	149,478	414	19,325	39,546	45,995	32,025	10,627	1,464	36	46
1992	143,827	373	18,341	37,446	43,246	31,496	11,199	1,604	60	62
1993	139,560	371	17,198	35,732	40,975	31,833	11,682	1,636	71	62
1994	137,844	397	17,051	34,448	39,789	32,148	12,066	1,846	66	33
1995	134,169	377	16,444	32,365	38,669	31,721	12,458	2,030	80	25

<sup>1</sup> Total live births for the years 1920 through 1959 differ from figures in Table 4.1 as they are derived from outside sources. Live births by age of mother were not tabulated in Michigan prior to 1960. These data were obtained from the following sources:

1920-1923: Unpublished tables from the National Center for Health Statistics.

1924-1932: Bureau of the Census publication, *Birth, Stillbirth and Infant Mortality Statistics for Birth, Registration Areas of the United States*.

1933-1936: Unpublished tables from the National Center for Health Statistics.

1937-1949: Bureau of the Census publication, *Vital Statistics of the United States* series.

1950-1959: Department of Health Education and Welfare publication, *Vital Statistics of the United States* series.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.4  
**Live Birth Rates<sup>1</sup> by Age of Mother**  
 Michigan Residents, 1920 - 1995

(Live birth rates are per 1,000 women per year. Total fertility rate is total children to 1,000 women in their lifetime assuming constant live birth rates.)

Year	Age of Mother								Total Fertility Rate
	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 + <sup>2</sup>	
1920	0.2	55.7	173.1	164.0	124.2	83.8	34.3	3.8	3,195.5
1921	0.2	56.9	167.3	165.5	125.8	84.8	32.8	3.6	3,184.5
1922	0.2	50.8	149.6	149.1	117.3	77.1	30.7	3.5	2,891.5
1923	0.2	52.6	152.6	147.5	116.5	75.4	29.3	3.8	2,889.5
1924	0.2	57.4	160.0	146.1	117.3	76.7	29.9	3.1	2,953.5
1925	0.3	57.4	155.9	145.4	115.2	73.9	28.8	3.5	2,902.0
1926	0.4	56.9	153.3	140.5	109.7	70.1	26.8	3.2	2,804.5
1927	0.3	56.0	153.3	136.8	108.9	68.1	27.0	2.9	2,766.5
1928	0.2	54.8	147.1	130.3	101.5	63.7	25.0	2.6	2,626.0
1929	0.2	55.7	151.5	130.6	93.6	59.6	23.9	2.4	2,587.5
1930	0.3	55.2	145.5	130.2	92.8	58.9	23.7	2.3	2,544.5
1931	0.3	47.8	130.4	118.3	85.3	54.3	21.5	2.3	2,301.0
1932	0.3	43.4	121.5	111.0	79.4	50.8	20.8	2.2	2,148.0
1933	0.2	39.7	111.6	105.2	75.0	47.7	20.0	1.9	2,006.5
1934	0.2	41.0	117.6	108.4	77.8	45.3	18.9	1.8	2,055.0
1935	0.2	43.9	126.2	109.4	77.4	45.5	18.5	2.0	2,115.5
1936	0.2	43.1	129.5	111.4	75.5	43.8	17.3	1.8	2,113.0
1937	0.2	45.9	136.4	113.9	75.9	42.3	15.8	1.6	2,160.0
1938	0.3	47.4	143.9	120.9	78.5	44.4	15.8	1.6	2,264.0
1939	0.2	44.1	135.6	119.6	79.2	42.3	14.0	1.3	2,181.5
1940	0.2	44.9	142.8	126.8	81.5	42.8	13.7	1.2	2,269.5
1941	0.2	48.1	157.8	137.1	81.6	42.5	13.2	1.2	2,408.5
1942	0.3	54.5	186.6	155.3	89.9	44.7	13.4	1.2	2,729.5
1943	0.3	51.6	175.1	159.0	97.1	48.6	14.1	1.1	2,734.5
1944	0.3	44.1	150.5	138.5	93.2	50.6	14.3	1.0	2,462.5
1945	0.3	40.8	135.5	133.4	98.5	52.1	15.4	1.3	2,386.5
1946	0.3	48.3	188.5	165.3	106.2	53.8	15.3	1.2	2,894.5
1947	0.4	69.7	227.3	184.2	108.4	53.6	15.4	1.0	3,300.0
1948	0.4	73.2	215.5	170.0	101.9	49.8	14.2	1.0	3,130.0
1949	0.5	74.6	214.0	171.4	102.5	49.6	14.1	1.0	3,138.5
1950	0.5	74.6	212.0	175.5	106.5	52.3	13.6	0.9	3,179.5
1951	0.4	79.1	229.0	192.2	114.4	53.9	14.1	0.8	3,419.5
1952	0.5	73.5	233.0	202.5	121.7	56.1	14.4	1.1	3,514.0
1953	0.6	76.8	234.5	207.0	125.5	58.7	14.9	0.9	3,594.5
1954	0.7	82.8	246.8	214.1	133.1	61.8	15.6	1.1	3,780.0
1955	0.6	84.1	253.0	218.6	135.4	63.4	16.4	0.9	3,862.0
1956	0.6	87.2	272.4	228.9	138.0	65.0	17.4	0.8	4,051.5
1957	0.6	88.6	277.1	231.8	137.6	66.4	17.0	0.9	4,100.0
1958	0.6	83.6	273.4	221.5	134.3	65.0	17.2	0.9	3,982.5
1959	0.6	77.6	273.3	217.4	128.6	64.4	17.3	0.9	3,900.5

<sup>1</sup> 1994 estimated population is used to calculate 1995 rates.

<sup>2</sup> Number of live births to women aged 45 and over per 1,000 women 45-49 years of age.

Source: Population figures used for 1920-1970 rates are from *General Population Characteristics, Michigan*, USBC, 1971, with arithmetic extrapolation between census years. For 1971-1988 population source, see Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



Table 4.4 (continued)  
**Live Birth Rates<sup>1</sup> by Age of Mother**  
 Michigan Residents, 1920 - 1995

(Live birth rates are per 1,000 women per year. Total fertility rate is total children to 1,000 women in their lifetime assuming constant live birth rates.)

Year	Age of Mother								Total Fertility Rate
	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 + <sup>2</sup>	
1960	0.5	79.3	273.1	213.0	121.8	61.4	16.6	0.9	3,833.0
1961	0.6	78.1	252.0	200.7	120.2	61.3	16.8	0.9	3,653.0
1962	0.7	70.7	231.5	183.9	111.4	58.9	16.3	0.9	3,371.5
1963	0.5	64.6	222.5	175.9	107.0	55.9	16.6	0.9	3,219.5
1964	0.6	64.2	210.1	167.0	101.0	54.4	15.8	0.9	3,070.0
1965	0.6	67.4	192.0	149.0	91.2	51.5	14.7	0.8	2,836.0
1966	0.7	75.4	187.9	140.7	82.1	45.8	13.4	0.9	2,734.5
1967	0.7	69.0	182.8	140.8	77.6	41.2	11.5	0.7	2,621.5
1968	0.9	64.3	171.5	143.2	73.4	36.3	10.2	0.6	2,502.0
1969	0.9	66.0	174.2	150.8	73.8	33.1	9.1	0.5	2,542.0
1970	1.0	68.2	176.0	154.0	76.1	32.4	8.3	0.4	2,582.0
1971	1.0	63.6	157.3	142.4	71.2	29.0	7.4	0.4	2,361.5
1972	1.1	61.6	137.4	122.7	60.8	24.2	6.1	0.4	2,071.5
1973	1.2	59.9	128.0	117.3	55.2	21.5	5.1	0.2	1,942.0
1974	1.1	55.3	122.3	113.7	52.4	17.7	4.4	0.2	1,835.5
1975	1.0	52.0	116.8	109.3	49.6	17.5	4.2	0.2	1,753.0
1976	0.9	48.0	111.0	107.5	49.1	16.3	3.4	0.2	1,682.0
1977	1.0	48.4	114.3	112.7	52.9	16.3	3.3	0.2	1,745.5
1978	0.8	46.5	111.5	111.6	54.5	16.8	3.1	0.2	1,725.0
1979	0.9	46.7	114.0	114.9	57.0	16.8	3.0	0.2	1,767.5
1980	0.8	45.1	113.4	115.3	58.0	16.3	3.1	0.1	1,760.5
1981	0.8	43.0	107.1	113.9	58.9	16.4	2.9	0.2	1,716.0
1982	0.8	42.4	105.0	112.4	61.1	17.8	2.9	0.1	1,712.5
1983	0.9	42.3	99.5	109.8	60.9	18.4	3.1	0.2	1,675.5
1984	1.0	43.2	100.4	111.3	64.9	19.6	2.9	0.1	1,717.0
1985	1.0	43.4	101.0	113.9	66.5	20.5	3.1	0.2	1,748.0
1986	1.0	43.9	99.9	111.9	67.3	21.0	3.0	0.2	1,741.0
1987	1.0	45.5	101.8	114.5	69.2	22.4	3.2	0.2	1,789.0
1988	1.2	46.7	100.6	113.9	69.7	23.4	3.5	0.2	1,796.0
1989	1.2	54.3	108.9	121.2	73.9	25.7	3.7	0.2	1,945.5
1990	1.3	59.3	112.0	125.6	77.3	27.3	4.1	0.2	2,035.5
1991	1.2	58.8	110.2	123.1	77.4	27.2	4.1	0.1	2,010.5
1992	1.1	56.6	105.2	119.5	76.8	28.0	4.5	0.2	1,959.5
1993	1.1	53.1	102.4	116.9	78.8	28.7	4.5	0.2	1,928.5
1994	1.1	52.0	101.6	116.4	80.7	29.4	5.0	0.2	1,932.0
1995	1.1	50.2	95.4	113.1	79.6	30.4	5.5	0.3	1,878.0

<sup>1</sup> 1994 estimated population is used to calculate 1995 rates.

<sup>2</sup> Number of live births to women aged 45 and over per 1,000 women 45-49 years of age.

Source: Population figures used for 1920-1970 rates are from *General Population Characteristics, Michigan*, USBC, 1971, with arithmetic extrapolation between census years. For 1971-1995 population source, see Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.5  
**Reported Cases of Certain Communicable Diseases**  
 Michigan Residents, 1900 - 1995

Year	Diphtheria	Smallpox	Typhoid Fever	Whooping Cough	Measles	Hepatitis (all types)	TB <sup>1</sup> (all forms)	Meningococcal Infections <sup>2</sup>	Polio	Syphilis <sup>3</sup>	Gonorrhea	Acquired Immune Deficiency Syndrome
1900	2,706	694	5,122	3,375	20,356		2,721	654				
1901	2,498	5,088	3,002	2,955	4,629		2,915	506				
1902	2,993	7,086	2,456	3,534	11,978		2,658	528				
1903	3,670	6,341	2,840	4,172	8,941		2,745	525				
1904	3,510	5,753	3,028	1,779	10,386		2,928	448				
1905	2,159	2,985	2,774	1,196	6,061		2,590	577				
1906	3,648	1,240	3,163	1,364	7,403		2,653	533				
1907	2,935	1,712	1,953	872	12,139		2,699	575				
1908	2,658	2,306	2,656	1,248	4,775		2,705	487				
1909	3,109	1,533	2,694	1,054	9,047		3,423	457				
1910	3,433	3,319	3,361	1,136	13,934		4,415	522	104			
1911	3,762	888	2,660	1,897	9,639		5,254	478	68			
1912	3,294	1,127	2,847	1,255	2,834		1,958	88	78			
1913	5,505	1,995	2,253	929	9,185		1,920	165	56			
1914	5,149	1,527	2,167	1,822	11,356		2,566	205	49			
1915	4,386	1,094	1,956	2,258	4,438		3,648	107	95			
1916	5,625	1,581	2,513	1,837	12,143		7,076	163	598			
1917	8,499	3,674	1,723	3,211	14,472		4,856	75	91			
1918	6,128	5,241	1,339	2,563	6,726		3,655	95	121			
1919	7,896	2,381	1,254	1,829	8,885		4,231	75	155	5,077	7,910	
1920	10,360	4,818	1,421	7,171	22,364		4,994	203	67	8,117	11,463	
1921	12,075	4,512	1,837	6,696	3,043		5,708	173	483	7,421	9,774	
1922	8,513	1,230	1,108	5,642	12,107		5,573	159	43	7,900	9,717	
1923	7,725	2,311	982	7,617	30,041		5,471	186	39	10,480	9,597	
1924	6,011	4,527	782	4,364	18,290		5,570	157	647	13,000	10,490	
1925	3,925	784	962	7,576	10,332		5,785	128	99	14,668	10,660	
1926	5,377	549	583	8,776	39,946		5,387	96	107	14,872	10,707	
1927	4,575	1,467	581	6,818	8,303		5,406	138	282	15,713	9,318	
1928	3,724	1,335	390	9,700	27,039		5,885	276	77	15,323	8,592	
1929	4,618	2,410	310	9,340	18,040		6,248	1,864	180	16,606	9,661	
1930	3,206	2,375	504	7,937	28,129		5,128	901	208	16,538	8,554	
1931	1,831	915	424	11,448	6,212		6,132	293	1,137	14,662	7,843	
1932	1,188	222	513	13,091	42,129		7,103	129	112	11,969	6,963	
1933	1,152	46	453	11,720	21,654		6,624	86	93	7,691	6,447	
1934	614	49	486	11,255	6,528		5,264	53	230	6,483	6,188	
1935	645	16	355	13,427	79,061		4,642	113	614	6,416	6,372	
1936	661	32	287	14,287	2,453		5,157	120	152	6,401	6,460	
1937	842	152	241	11,426	6,154		6,469	87	421	8,708	7,072	
1938	619	274	285	14,563	79,400		6,335	69	59	14,684	7,046	
1939	452	371	177	8,997	12,948		6,119	46	904	13,144	6,364	
1940	264	76	120	11,757	20,206		6,063	49	1,228	9,999	7,650	
1941	242	114	147	16,512	70,748		5,371	49	270	11,370	8,767	
1942	243	17	74	11,602	8,569		5,720	66	162	12,461	8,753	
1943	281	18	115	12,091	51,764		6,546	757	255	15,933	9,526	
1944	419	10	78	4,049	26,711		6,419	857	884	17,288	11,987	
1945	630	16	59	5,339	6,328	134	5,471	270	215	16,046	12,565	
1946	385	3	85	8,116	42,261	34	5,548	185	1,091	18,051	12,635	
1947	238	1	77	10,472	9,574	14	6,470	113	646	15,276	10,989	
1948	126	-	49	2,668	42,952	9	6,109	107	775	12,100	9,448	
1949	119	-	48	4,157	20,279	28	5,953	120	2,909	8,740	9,427	

<sup>1</sup> Effective January 1975, a new diagnostic classification system for tuberculosis was adopted. As a result, case counts and rates prior to 1975 are not directly comparable to the figures in 1975 and later years.

<sup>2</sup> Meningococcal infections prior to 1952 data were for meningococcal meningitis.

<sup>3</sup> Starting with 1992 data, syphilis counts represent only primary and secondary cases. Prior year counts included early latent cases.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDCH

Table 4.5 (continued)  
 Reported Cases of Certain Communicable Diseases  
 Michigan Residents, 1900 - 1995

Year	Diphtheria	Smallpox	Typhoid Fever	Whooping Cough	Measles	Hepatitis (all types)	TB <sup>1</sup> (all forms)	Meningo- coccal Infections <sup>2</sup>	Polio	Syphilis <sup>3</sup>	Gonorrhea	Acquired Immune Deficiency Syndrome
1950	84	-	43	9,184	38,245	48	5,538	133	2,029	8,830	8,678	
1951	48	-	33	3,156	15,227	325	6,144	138	1,463	6,532	8,494	
1952	45	-	53	1,992	32,941	283	6,152	169	3,912	7,377	7,691	
1953	12	-	31	2,932	23,334	868	5,643	151	2,346	5,619	8,790	
1954	57	-	30	5,620	40,725	1,419	5,764	150	2,168	4,686	9,940	
1955	59	-	24	4,249	23,882	1,244	5,488	170	1,177	4,865	10,306	
1956	220	-	56	1,907	41,966	814	5,515	182	656	4,785	9,598	
1957	130	-	12	1,363	19,070	657	5,011	175	498	4,571	8,428	
1958	6	-	18	1,233	41,448	688	5,587	228	1,228	4,267	8,621	
1959	3	-	8	3,001	12,234	1,136	4,743	141	448	3,421	8,033	
1960	9	-	14	1,129	36,161	2,113	4,127	169	88	3,647	8,372	
1961	3	-	7	639	29,391	4,607	3,838	253	40	3,309	9,505	
1962	4	-	12	1,756	25,303	3,280	3,474	139	21	4,331	11,654	
1963	5	-	14	1,410	48,752	2,661	3,298	104	18	5,512	11,043	
1964	1	-	13	957	30,897	2,472	3,047	80	3	5,220	12,028	
1965	-	-	7	612	28,132	2,625	3,069	107	1	5,638	14,319	
1966	1	-	7	653	15,251	2,589	3,259	135	1	5,842	15,424	
1967	1	-	8	1,058	1,048	1,915	2,951	76	3	5,581	17,088	
1968	-	-	1	429	353	2,356	2,618	94	3	5,351	18,153	
1969	-	-	6	192	401	3,359	2,133	114	1	3,809	18,534	
1970	-	-	14	195	1,834	4,594	1,992	69	2	3,920	20,359	
1971	1	-	10	140	2,659	4,828	1,789	64	-	4,800	22,260	
1972	1	-	7	116	2,353	4,322	1,632	55	1	4,891	24,750	
1973	-	-	14	86	4,552	3,872	1,473	54	-	4,375	31,086	
1974	-	-	11	104	2,365	3,599	1,431	54	2	2,722	32,067	
1975	1	-	10	98	3,253	2,877	1,271	76	-	1,638	32,583	
1976	-	-	10	70	6,139	2,645	1,349	65	1	1,089	34,836	
1977	-	-	13	73	1,392	2,686	1,290	51	-	1,185	36,794	
1978	-	-	15	47	8,006	2,174	1,260	87	1	1,133	36,647	
1979	-	-	14	102	869	2,036	1,052	79	-	1,275	36,906	
1980	1	-	12	38	250	1,799	1,185	77	1	1,110	35,125	
1981	-	-	26	30	34	1,700	966	93	-	926	32,316	2
1982	-	-	14	34	64	1,745	932	81	-	917	32,286	2
1983	-	-	10	43	8	1,788	842	91	-	695	34,052	16
1984	-	-	9	31	465	1,728	630	90	-	763	34,758	31
1985	-	-	8	54	113	1,490	535	107	-	673	33,516	64
1986	-	-	5	35	185	1,266	619	81	1	584	37,920	149
1987	-	-	5	54	42	1,610	540	111	-	621	37,348	260
1988	-	-	5	38	54	1,202	526	92	-	1,105	37,412	439
1989	-	-	6	48	359	1,044	464	70	-	1,613	33,627	510
1990	-	-	8	88	545	1,111	504	69	-	2,625	30,779	576
1991	-	-	12	38	66	1,120	451	75	-	3,520	27,015	470
1992	-	-	4	16	15	1,238	496	87	-	1,022	21,470	763
1993	-	-	8	116	6	1,015	463	65	-	635	17,870	1,806
1994	-	-	-	96	26	997	447	59	-	321	18,100	1,119
1995	-	-	4	103	5	1,008	390	75	-	333	18,117	1,086

<sup>1</sup> Effective January 1975, a new diagnostic classification system for tuberculosis was adopted. As a result, case counts and rates prior to 1975 are not directly comparable to the figures in 1975 and later years.

<sup>2</sup> Meningococcal infections prior to 1952 data were for meningococcal meningitis.

<sup>3</sup> Starting with 1992 data, syphilis counts represent only primary and secondary cases. Prior year counts included early latent cases.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDCH

Table 4.6  
Case Rates<sup>1</sup> of Certain Reported Communicable Diseases  
Michigan Residents, 1900 - 1995  
(Rates per 100,000 population)

Year	Diphtheria	Smallpox	Typhoid Fever	Whooping Cough	Measles	Hepatitis (all types)	TB <sup>2</sup> (all forms)	Meningo- coccal Infections <sup>3</sup>	Polio	Syphilis <sup>4</sup>	Gonorrhea	Acquired Immune Deficiency Syndrome
1900	111.8	28.7	211.6	139.4	840.8		112.4	27.0				
1901	101.5	206.8	122.0	120.1	188.2		118.5	20.6				
1902	119.8	283.6	98.3	141.4	479.3		106.4	21.1				
1903	144.6	249.9	111.9	164.4	352.3		108.2	20.7				
1904	136.2	223.3	117.5	69.0	403.1		113.6	17.4				
1905	82.5	114.1	106.1	45.7	231.7		99.0	22.1				
1906	137.4	46.7	119.2	51.4	278.9		99.9	20.1				
1907	109.0	63.6	72.5	32.4	450.7		100.2	21.3				
1908	97.3	84.4	97.2	45.7	174.8		99.0	17.8				
1909	112.2	55.3	97.2	38.0	326.5		123.5	16.5				
1910	122.2	118.1	119.6	40.4	495.8		157.1	18.6	3.7			
1911	129.9	31.0	91.8	65.5	332.8		181.4	16.5	2.3			
1912	110.5	37.8	95.5	42.1	95.0		65.7	3.0	2.6			
1913	179.5	65.0	73.4	30.3	299.4		62.6	5.4	1.8			
1914	163.3	48.4	68.7	57.8	360.1		81.4	6.5	1.6			
1915	135.4	33.8	60.4	69.7	137.0		112.6	3.3	2.9			
1916	169.2	47.5	75.6	55.2	365.2		212.8	4.9	18.0			
1917	249.2	107.7	50.5	94.1	424.3		142.4	2.2	2.7			
1918	175.2	149.9	38.3	73.3	192.4		104.5	2.7	3.5			
1919	220.4	66.5	35.0	51.1	248.0		118.1	2.1	4.3	141.7	220.8	
1920	282.4	131.3	38.7	195.5	609.6		136.1	5.5	1.8	221.3	312.8	
1921	318.9	119.2	48.5	176.9	80.4		150.8	4.6	12.8	196.0	258.2	
1922	218.1	31.5	28.4	144.5	310.2		142.8	4.1	1.1	202.4	248.9	
1923	192.1	57.5	24.4	189.5	747.2		136.1	4.6	1.0	260.7	238.7	
1924	145.3	109.4	18.9	105.5	442.0		134.6	3.8	15.6	314.2	253.5	
1925	92.2	18.4	22.6	178.0	242.8		135.9	3.0	2.3	344.7	250.5	
1926	123.0	12.6	13.3	200.7	913.5		123.2	2.2	2.4	340.1	244.9	
1927	101.9	32.7	12.9	151.8	184.9		120.4	3.1	6.3	349.9	207.5	
1928	80.8	29.0	8.5	210.5	586.9		127.7	6.0	1.7	332.6	186.5	
1929	97.7	51.0	6.6	197.7	381.8		132.2	39.4	3.8	351.4	204.5	
1930	66.2	49.0	10.4	163.9	580.9		105.9	18.6	4.3	341.5	176.6	
1931	37.5	18.7	8.7	234.4	127.2		125.6	6.0	23.3	300.2	160.6	
1932	24.1	4.5	10.4	265.8	855.4		144.2	2.6	2.3	243.0	141.4	
1933	23.2	0.9	9.1	236.0	436.0		133.4	1.7	1.9	154.9	129.8	
1934	12.3	1.0	9.7	224.8	130.4		105.1	1.1	4.6	129.5	123.6	
1935	12.8	0.3	7.0	265.9	1,565.8		91.9	2.2	12.2	127.1	126.2	
1936	13.0	0.6	5.6	280.7	48.2		101.3	2.4	3.0	125.7	126.9	
1937	16.4	3.0	4.7	222.6	119.9		126.1	1.7	8.2	169.7	137.8	
1938	12.0	5.3	5.5	281.5	1,534.8		122.5	1.3	1.1	283.8	136.2	
1939	8.7	7.1	3.4	172.5	248.3		117.3	0.9	17.3	252.0	122.0	
1940	5.0	1.4	2.3	223.7	384.4		115.3	0.9	23.4	190.2	145.5	
1941	4.5	2.1	2.7	303.7	1,301.1		98.8	0.9	5.0	209.1	161.2	
1942	4.4	0.3	1.3	209.5	154.7		103.3	1.2	2.9	225.0	158.0	
1943	5.2	0.3	2.1	224.8	962.6		121.7	14.1	4.7	296.3	177.1	
1944	7.8	0.2	1.5	75.3	496.7		119.4	15.9	16.4	321.5	222.9	
1945	11.6	0.3	1.1	98.2	116.4	2.5	100.7	5.0	4.0	295.2	231.2	
1946	6.7	*	1.5	142.2	740.3	0.6	97.2	3.2	19.1	316.2	221.3	
1947	3.9	*	1.3	172.5	157.8	0.2	106.6	1.9	10.6	251.7	181.1	
1948	2.0	-	0.8	43.1	693.3	0.1	98.6	1.7	12.5	195.3	152.5	
1949	1.9	-	0.8	65.4	319.3	0.4	93.7	1.9	45.8	137.6	148.4	

<sup>1</sup> 1994 estimated population is used to calculate 1995 rates.

<sup>2</sup> Effective January, 1975, a new diagnostic classification system for tuberculosis was adopted. As a result, case counts and rates prior to 1975 are not directly comparable to the figures in 1975 and later years.

<sup>3</sup> Meningococcal infections prior to 1952 data were for meningococcal meningitis.

<sup>4</sup> Starting with 1992 data, syphilis counts represent only primary and secondary cases. Prior year counts included early latent cases.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDCH.

Table 4.6 (continued)  
Case Rates<sup>1</sup> of Certain Reported Communicable Diseases  
Michigan Residents, 1900 - 1995  
(Rates per 100,000 population)

Year	Diphtheria	Smallpox	Typhoid Fever	Whooping Cough	Measles	Hepatitis (all types)	TB <sup>2</sup> (all forms)	Meningo- coccal Infections <sup>3</sup>	Polio	Syphilis <sup>4</sup>	Gonorrhea	Acquired Immune Deficiency Syndrome
1950	1.3	-	0.7	144.1	600.2	0.8	86.9	2.1	31.8	138.6	136.2	
1951	0.7	-	0.5	48.2	232.7	5.0	93.9	2.1	22.4	99.8	129.8	
1952	0.7	-	0.8	29.7	491.1	4.2	91.7	2.5	58.3	110.0	114.7	
1953	0.2	-	0.5	42.8	340.5	12.7	82.4	2.2	34.2	82.0	128.3	
1954	0.8	-	0.4	80.0	579.8	20.2	82.1	2.1	30.9	66.7	141.5	
1955	0.8	-	0.3	58.7	330.0	17.2	75.8	2.3	16.3	67.2	142.4	
1956	2.9	-	0.7	25.4	558.4	10.8	73.4	2.4	8.7	63.7	127.7	
1957	1.7	-	0.2	17.5	244.4	8.4	64.2	2.2	6.4	58.6	108.0	
1958	0.1	-	0.2	15.7	526.9	8.7	71.0	2.9	15.6	54.2	109.6	
1959	*	-	0.1	37.7	153.7	14.3	59.6	1.8	5.6	43.0	100.9	
1960	0.1	-	0.2	14.4	462.2	27.0	52.8	2.2	1.1	46.6	107.0	
1961	*	-	0.1	8.1	371.9	58.3	48.6	3.2	0.5	41.9	120.3	
1962	*	-	0.2	22.1	318.7	41.3	43.8	1.8	0.3	54.6	146.8	
1963	*	-	0.2	17.6	607.1	33.1	41.1	1.3	0.2	68.6	137.5	
1964	*	-	0.2	11.8	381.4	30.5	37.6	1.0	*	64.4	148.5	
1965	-	-	0.1	7.5	343.1	32.0	37.4	1.3	*	68.8	174.6	
1966	*	-	0.1	7.9	183.4	31.1	39.2	1.6	*	70.3	185.5	
1967	*	-	0.1	12.3	12.2	22.2	34.2	0.9	*	64.8	198.4	
1968	-	-	*	4.9	4.1	27.2	30.2	1.1	*	61.7	209.3	
1969	-	-	0.1	2.2	4.6	38.5	24.4	1.3	*	43.6	212.2	
1970	-	-	0.2	2.2	20.7	51.8	22.4	0.8	*	44.2	229.4	
1971	*	-	0.1	1.6	29.6	53.8	19.9	0.7	-	53.5	248.1	
1972	*	-	0.1	1.3	26.1	47.9	18.1	0.6	*	54.2	274.2	
1973	-	-	0.2	0.9	50.2	42.7	16.2	0.6	-	48.2	342.7	
1974	-	-	0.1	1.1	26.0	39.5	15.7	0.6	*	29.9	352.0	
1975	*	-	0.1	1.1	35.7	31.6	14.0	0.8	-	18.0	357.7	
1976	-	-	0.1	0.8	67.3	29.0	14.8	0.7	*	11.9	382.1	
1977	-	-	0.1	0.8	15.2	29.3	14.1	0.6	-	12.9	401.8	
1978	-	-	0.2	0.5	87.0	23.6	13.7	0.9	*	12.3	398.3	
1979	-	-	0.2	1.1	9.4	22.0	11.4	0.9	-	13.6	396.0	
1980	*	-	0.1	0.4	2.7	19.4	12.8	0.8	*	12.0	379.5	
1981	-	-	0.3	0.3	0.4	18.5	10.5	1.0	-	10.1	350.9	*
1982	-	-	0.2	0.4	0.7	19.1	10.2	0.9	-	10.1	354.2	*
1983	-	-	0.1	0.5	0.1	19.8	9.3	1.0	-	7.7	376.4	0.2
1984	-	-	0.1	0.3	5.1	19.1	7.0	1.0	-	8.4	384.1	0.3
1985	-	-	0.1	0.6	1.2	16.4	5.9	1.2	-	7.4	369.3	0.7
1986	-	-	*	0.4	2.0	13.9	6.8	0.9	*	6.4	415.4	1.6
1987	-	-	*	0.6	0.5	17.5	5.9	1.2	-	6.8	406.5	2.8
1988	-	-	*	0.4	0.6	13.0	5.7	1.0	-	12.0	405.9	4.8
1989	-	-	0.1	0.5	3.9	11.3	5.0	0.8	-	17.4	363.4	5.5
1990	-	-	0.1	0.9	5.9	11.9	5.4	0.7	-	28.2	330.6	6.2
1991	-	-	0.1	0.4	0.7	12.0	4.8	0.8	-	37.6	288.3	5.0
1992	-	-	*	0.2	0.2	13.1	5.3	0.9	-	10.8	227.9	8.1
1993	-	-	0.1	1.2	0.1	10.7	4.9	0.7	-	6.7	188.9	19.1
1994	-	-	-	1.0	0.3	10.5	4.7	0.6	-	3.4	190.6	11.8
1995	-	-	*	1.1	*	10.6	4.1	0.8	-	3.5	190.8	11.4

<sup>1</sup> 1994 estimated population is used to calculate 1995 rates.

<sup>2</sup> Effective January, 1975, a new diagnostic classification system for tuberculosis was adopted. As a result, case counts and rates prior to 1975 are not directly comparable to the figures in 1975 and later years.

<sup>3</sup> Meningococcal infections prior to 1952 data were for meningococcal meningitis.

<sup>4</sup> Starting with 1992 data, syphilis counts represent only primary and secondary cases. Prior year counts included early latent cases.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDCH.

Table 4.7  
**Number of Deaths and Death Rates<sup>1</sup> for Certain Communicable Diseases**  
 Michigan Residents, 1900 - 1995  
 (Rates per 100,000 population)

Year	Diphtheria		Strep. Sore Throat Including Scarlet Fever		Typhoid Fever		Whooping Cough		Measles	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1900	529	21.9	272	11.2	869	35.9	208	8.6	342	14.1
1901	502	20.4	312	12.7	645	26.2	163	6.6	79	3.2
1902	504	20.2	277	11.1	608	24.3	289	11.6	238	9.5
1903	686	27.0	200	7.9	606	23.9	383	15.1	176	6.9
1904	515	20.0	210	8.1	641	24.9	148	5.7	194	7.5
1905	478	18.3	123	4.7	636	24.3	131	5.0	123	4.7
1906	472	17.8	227	8.6	721	27.2	469	17.7	251	9.5
1907	421	15.6	159	5.9	594	22.1	223	8.3	256	9.5
1908	343	12.6	194	7.1	687	25.1	305	11.2	121	4.4
1909	395	14.3	275	9.9	653	23.6	217	7.8	270	9.7
1910	495	17.6	297	10.6	654	23.3	318	11.3	251	8.9
1911	473	16.3	208	7.2	551	19.0	254	8.8	200	6.9
1912	465	15.6	186	6.2	534	17.9	252	8.5	118	4.0
1913	676	22.0	283	9.2	538	17.5	292	9.5	258	8.4
1914	507	16.1	177	5.6	400	12.7	304	9.6	180	5.7
1915	354	10.9	107	3.3	353	10.9	236	7.3	101	3.1
1916	507	15.2	177	5.3	424	12.8	228	6.9	363	10.9
1917	851	24.9	340	10.0	386	11.3	360	10.6	259	7.6
1918	686	19.6	181	5.2	337	9.6	496	14.2	270	7.7
1919	764	21.3	179	5.0	272	7.6	172	4.8	183	5.1
1920	888	24.2	305	8.3	297	8.1	511	13.9	436	11.9
1921	954	25.2	334	8.8	285	7.5	316	8.3	58	1.5
1922	620	15.9	217	5.6	192	4.9	232	5.9	232	5.9
1923	675	16.8	304	7.6	202	5.0	323	8.0	258	6.4
1924	470	11.4	265	6.4	149	3.6	169	4.1	221	5.3
1925	358	8.4	208	4.9	157	3.7	260	6.1	69	1.6
1926	677	15.5	235	5.4	119	2.7	355	8.1	577	13.2
1927	516	11.5	168	3.7	94	2.1	201	4.5	67	1.5
1928	384	8.3	178	3.9	83	1.8	219	4.8	303	6.6
1929	498	10.5	145	3.1	81	1.7	255	5.4	146	3.1
1930	299	6.2	130	2.7	87	1.8	176	3.6	231	4.8
1931	172	3.5	122	2.5	73	1.5	190	3.9	28	0.6
1932	106	2.2	112	2.3	56	1.1	199	4.0	183	3.7
1933	112	2.3	157	3.2	50	1.0	153	3.1	111	2.2
1934	38	0.8	171	3.4	65	1.3	141	2.8	36	0.7
1935	58	1.1	98	1.9	34	0.7	132	2.6	184	3.6
1936	52	1.0	114	2.2	37	0.7	107	2.1	12	0.2
1937	72	1.4	148	2.9	29	0.6	132	2.6	11	0.2
1938	44	0.9	87	1.7	23	0.4	116	2.2	100	1.9
1939	25	0.5	69	1.3	25	0.5	76	1.5	29	0.6
1940	20	0.4	41	0.8	11	0.2	59	1.1	19	0.4
1941	18	0.3	32	0.6	14	0.3	91	1.7	65	1.2
1942	24	0.4	23	0.4	5	*	72	1.3	8	0.1
1943	21	0.4	11	0.2	9	0.2	101	1.9	89	1.7
1944	32	0.6	7	0.1	7	0.1	33	0.6	49	0.9
1945	46	0.8	9	0.2	3	*	36	0.7	10	0.2
1946	27	0.5	3	*	6	0.1	44	0.8	47	0.8
1947	23	0.4	6	0.1	5	*	63	1.0	5	*
1948	8	0.1	1	*	4	*	9	0.1	43	0.7
1949	11	0.2	4	*	1	*	22	0.3	33	0.5

<sup>1</sup> 1994 estimated population is used to calculate 1995 rates.

<sup>2</sup> Effective January 1975, a new diagnostic classification system for tuberculosis was adopted. As a result, deaths and rates prior to 1975 are not directly comparable to the figures in 1975 and later years.

<sup>3</sup> From 1901 through 1920, syphilis includes all other venereal diseases, beginning with 1968 excludes aortic aneurysms not specified as syphilitic.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDCH

Table 4.7 (continued)  
 Number of Deaths and Death Rates<sup>1</sup> for Certain Communicable Diseases  
 Michigan Residents, 1900 - 1995  
 (Rates per 100,000 population)

Year	TB of the Respiratory System		Tuberculosis <sup>2</sup> (all forms)		Poliomyelitis		Syphilis <sup>3</sup>		Gonorrhea		AIDS	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1900	2,018	83.4	2,500	103.3								
1901	2,152	87.5	2,548	103.6			88	3.6				
1902	2,088	83.6	2,462	98.5			114	4.6				
1903	2,155	84.9	2,562	101.0			130	5.2				
1904	2,306	89.5	2,761	107.2			101	4.0				
1905	2,288	87.5	2,732	104.5			89	3.5				
1906	2,303	86.8	2,737	103.1			89	3.4				
1907	2,338	86.8	2,728	101.3			94	3.6				
1908	2,249	82.3	2,706	99.0			118	4.5				
1909	2,237	80.7	2,629	94.9			127	4.8				
1910	2,273	80.9	2,756	98.1	52	1.9	65	2.3				
1911	2,284	78.9	2,766	95.5	55	1.9	104	3.6				
1912	2,289	76.8	2,744	92.0	48	1.7	90	3.1				
1913	2,243	73.1	2,703	88.1	43	1.5	136	4.6				
1914	2,325	73.7	2,799	88.8	41	1.4	160	5.3				
1915	2,527	78.0	2,986	92.2	36	1.2	163	5.3				
1916	2,573	77.4	3,070	92.3	141	4.6	206	6.7				
1917	2,779	81.5	3,310	97.0	44	1.4	224	7.1				
1918	3,059	87.5	3,612	103.3	58	1.8	290	9.1				
1919	2,620	73.1	3,127	87.3	80	2.2	299	8.2				
1920	2,645	72.1	3,149	85.8	30	0.8	314	8.4				
1921	2,285	60.4	2,736	72.3	100	2.6	226	5.9	14	0.4		
1922	2,232	57.2	2,654	68.0	21	0.5	186	4.7	6	0.2		
1923	2,410	59.9	2,837	70.6	18	0.5	262	6.8	5	*		
1924	2,474	59.8	2,952	71.3	116	3.0	271	7.0	13	0.3		
1925	2,410	56.6	2,830	66.5	31	0.7	282	6.6	27	0.6		
1926	2,601	59.5	3,041	69.5	34	0.8	327	7.5	12	0.3		
1927	2,514	56.0	2,952	65.7	69	1.5	305	6.8	16	0.4		
1928	2,647	57.4	3,108	67.5	27	0.6	384	8.4	19	0.4		
1929	2,685	56.8	3,140	66.5	50	1.1	397	8.4	19	0.4		
1930	2,443	50.5	2,912	60.1	39	0.8	395	8.2	12	0.2		
1931	2,263	46.3	2,660	54.5	108	2.2	361	7.4	3	*		
1932	2,101	42.7	2,463	50.0	23	0.5	377	7.7	2	*		
1933	1,996	40.2	2,348	47.3	5	*	327	6.6	7	0.1		
1934	1,909	38.1	2,199	43.9	25	0.5	402	8.0	10	0.2		
1935	1,741	34.5	2,044	40.5	32	0.6	393	7.8	3	*		
1936	1,816	35.7	2,100	41.3	21	0.4	394	7.7	6	0.1		
1937	1,860	36.2	2,119	41.3	51	1.0	401	7.8	8	0.2		
1938	1,633	31.6	1,866	36.1	10	0.2	401	7.8	8	0.2		
1939	1,651	31.7	1,881	36.1	40	0.8	389	7.5	4	*		
1940	1,547	29.4	1,752	33.3	72	1.4	591	11.2	3	*		
1941	1,532	28.2	1,723	31.7	18	0.3	537	9.9	1	*		
1942	1,630	29.4	1,827	33.0	10	0.2	559	10.1	7	0.1		
1943	1,588	29.5	1,802	33.5	27	0.5	579	10.8	3	*		
1944	1,544	28.7	1,748	32.5	45	0.8	543	10.1	2	*		
1945	1,591	29.3	1,758	32.3	20	0.4	527	9.7	2	*		
1946	1,645	28.8	1,843	32.3	89	1.6	547	9.6	-	-		
1947	1,483	24.4	1,643	27.1	29	0.5	502	8.3	3	*		
1948	1,395	22.5	1,561	25.2	54	0.9	512	8.3	-	-		
1949	1,254	19.7	1,400	22.0	216	3.4	455	7.2	-	-		

<sup>1</sup> 1994 estimated population is used to calculate 1995 rates.

<sup>2</sup> Effective January 1975, a new diagnostic classification system for tuberculosis was adopted. As a result, deaths and rates prior to 1975 are not directly comparable to the figures in 1975 and later years.

<sup>3</sup> From 1901 through 1920, syphilis includes all other venereal diseases, beginning with 1968 excludes aortic aneurysms not specified as syphilitic.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDCH

Table 4.7 (continued)  
 Number of Deaths and Death Rates<sup>1</sup> for Certain Communicable Diseases  
 Michigan Residents, 1900 - 1995  
 (Rates per 100,000 population)

Year	Diphtheria		Strep. Sore Throat Including Scarlet Fever		Typhoid Fever		Whooping Cough		Measles	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1950	2	*	1	*	5	*	28	0.4	28	0.4
1951	6	0.1	-	-	1	*	21	0.3	11	0.2
1952	2	*	-	-	-	-	8	0.1	17	0.3
1953	2	*	1	*	-	-	11	0.2	16	0.2
1954	3	*	3	*	-	-	17	0.2	17	0.2
1955	1	*	1	*	1	*	8	0.1	10	0.1
1956	6	0.1	3	*	-	-	6	0.1	26	0.3
1957	1	*	-	-	-	-	6	0.1	23	0.3
1958	-	-	-	-	-	-	1	*	18	0.2
1959	1	*	2	*	1	*	5	*	11	0.1
1960	2	*	1	*	-	-	1	*	17	0.2
1961	1	*	1	*	-	-	2	*	13	0.2
1962	2	*	1	*	-	-	2	*	8	0.1
1963	-	-	-	-	-	-	-	-	27	0.3
1964	-	-	-	-	-	-	2	*	11	0.1
1965	-	-	-	-	-	-	-	-	5	*
1966	1	*	-	-	-	-	-	-	7	0.1
1967	-	-	-	-	-	-	-	-	3	*
1968	-	-	1	*	-	-	-	-	-	-
1969	-	-	-	-	-	-	-	-	-	-
1970	-	-	2	*	-	-	-	-	1	*
1971	-	-	4	*	-	-	-	-	-	-
1972	-	-	1	*	1	*	-	-	-	-
1973	-	-	-	-	-	-	1	*	2	*
1974	-	-	1	*	-	-	2	*	-	-
1975	-	-	-	-	-	-	1	*	1	*
1976	-	-	-	-	-	-	-	-	-	-
1977	-	-	1	*	-	-	-	-	-	-
1978	-	-	-	-	-	-	1	*	1	*
1979	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	1	*	-	-	-	-
1982	-	-	-	-	-	-	-	-	1	*
1983	-	-	1	*	-	-	-	-	1	*
1984	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-
1988	-	-	1	*	-	-	1	*	-	-
1989	-	-	-	-	-	-	-	-	-	-
1990	-	-	1	*	-	-	-	-	-	-
1991	-	-	-	-	-	-	-	-	-	-
1992	-	-	-	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-	-	-
1994	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-	-	-	-

<sup>1</sup> 1994 estimated population is used to calculate 1995 rates.

<sup>2</sup> Effective January 1975, a new diagnostic classification system for tuberculosis was adopted. As a result, deaths and rates prior to 1975 are not directly comparable to the figures in 1975 and later years.

<sup>3</sup> From 1901 through 1920, syphilis includes all other venereal diseases, beginning with 1968 excludes aortic aneurysms not specified as syphilitic.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDCH



Table 4.7 (continued)  
 Number of Deaths and Death Rates<sup>1</sup> for Certain Communicable Diseases  
 Michigan Residents, 1900 - 1995  
 (Rates per 100,000 population)

Year	TB of the Respiratory System		Tuberculosis <sup>2</sup> (all forms)		Poliomyelitis		Syphilis <sup>3</sup>		Gonorrhea		AIDS	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1950	1,134	17.8	1,270	19.9	128	2.0	325	5.1	1	*		
1951	1,049	16.0	1,154	17.6	67	1.0	299	4.6	1	*		
1952	689	10.3	775	11.6	213	3.2	174	2.6	2	*		
1953	536	7.8	607	8.9	108	1.6	182	2.7	1	*		
1954	471	6.7	530	7.5	89	1.3	139	2.0	2	*		
1955	435	6.0	477	6.6	32	0.4	115	1.6	1	*		
1956	426	5.7	466	6.2	22	0.3	114	1.5	4	*		
1957	403	5.2	442	5.7	15	0.2	105	1.3	4	*		
1958	357	4.5	395	5.0	37	0.5	84	1.1	8	0.1		
1959	335	4.2	370	4.6	17	0.2	84	1.1	4	*		
1960	364	4.7	390	5.0	4	*	79	1.0	7	0.1		
1961	307	3.9	332	4.2	-	-	71	0.9	7	0.1		
1962	307	3.9	331	4.2	2	*	94	1.2	3	*		
1963	276	3.4	299	3.7	1	*	72	0.9	1	*		
1964	288	3.6	315	3.9	1	*	66	0.8	3	*		
1965	261	3.2	285	3.5	-	-	65	0.8	2	*		
1966	284	3.4	301	3.6	-	-	63	0.8	-	-		
1967	206	2.4	226	2.6	-	-	44	0.5	1	*		
1968	203	2.3	262	3.0	2	*	29	0.3	-	-		
1969	147	1.7	201	2.3	-	-	26	0.3	1	*		
1970	134	1.5	180	2.0	-	-	17	0.2	2	*		
1971	122	1.4	173	1.9	-	-	18	0.2	-	-		
1972	111	1.2	157	1.7	1	*	12	0.1	-	-		
1973	101	1.1	138	1.5	3	*	12	0.1	-	-		
1974	109	1.2	142	1.6	3	*	11	0.1	-	-		
1975	81	0.9	110	1.2	5	*	10	0.1	1	*		
1976	80	0.9	102	1.1	6	0.1	11	0.1	-	-		
1977	67	0.7	97	1.1	6	0.1	3	*	-	-		
1978	60	0.7	80	0.9	2	*	5	*	-	-		
1979	47	0.5	62	0.7	2	*	9	0.1	-	-		
1980	51	0.6	61	0.7	-	-	1	*	1	*		
1981	41	0.4	53	0.6	-	-	4	*	1	*		
1982	30	0.3	41	0.4	-	-	-	-	-	-		
1983	28	0.3	39	0.4	-	-	3	*	-	-		
1984	47	0.5	59	0.7	-	-	2	*	-	-		
1985	37	0.4	46	0.5	-	-	3	*	-	-		
1986	36	0.4	44	0.5	-	-	2	*	-	-		
1987	39	0.4	46	0.5	-	-	2	*	-	-	160	1.7
1988	36	0.4	42	0.5	-	-	2	*	-	-	216	2.3
1989	31	0.3	32	0.3	-	-	3	*	-	-	329	3.6
1990	28	0.3	43	0.5	-	-	-	-	-	-	373	4.0
1991	24	0.3	41	0.4	-	-	-	-	-	-	465	5.0
1992	38	0.4	49	0.5	-	-	1	*	-	-	573	6.1
1993	26	0.3	38	0.4	-	-	5	*	1	*	691	7.3
1994	33	0.3	44	0.5	-	-	1	*	-	-	757	8.0
1995	31	0.3	43	0.5	1	*	2	*	1	*	795	8.4

<sup>1</sup> 1994 estimated population is used to calculate 1995 rates.

<sup>2</sup> Effective January 1975, a new diagnostic classification system for tuberculosis was adopted. As a result, deaths and rates prior to 1975 are not directly comparable to the figures in 1975 and later years.

<sup>3</sup> From 1901 through 1920, syphilis includes all other venereal diseases, beginning with 1968 excludes aortic aneurysms not specified as syphilitic.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDCH

Table 4.8  
**Number of Deaths and Death Rates<sup>1</sup> by Specified Causes**  
 Michigan Residents, 1900 - 1995  
 (Rates per 100,000 population)

Year	Heart Disease		Cancer <sup>2</sup> (all forms)		Cerebrovascular Disease <sup>3</sup>		Accidents <sup>4</sup> (all forms)		Motor Vehicle Accidents <sup>5</sup>	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1900	2,836	117.1	1,460	60.3	2,136	88.2	1,740	71.9		
1901	3,040	123.6	1,484	60.3	2,147	87.3	1,901	77.3		
1902	3,302	132.1	1,483	59.3	2,097	83.9	1,796	71.9		
1903	3,702	145.9	1,694	66.8	2,321	91.5	2,017	79.5		
1904	3,981	154.5	1,728	67.1	2,431	94.3	2,035	79.0		
1905	3,715	142.0	1,693	64.7	2,405	91.9	2,034	77.8		
1906	3,933	148.2	1,736	65.4	2,554	96.2	2,126	80.1		
1907	4,269	158.5	1,747	64.9	2,690	99.9	2,209	82.0		
1908	4,202	153.8	1,921	70.3	2,630	96.3	2,036	74.5		
1909	4,354	157.1	1,948	70.3	2,739	98.8	1,903	68.7		
1910	4,581	163.0	2,105	74.9	3,091	110.0	2,158	76.8	49	1.7
1911	4,639	160.2	2,142	74.0	2,916	100.7	2,121	73.2	44	1.5
1912	5,324	178.5	2,291	76.8	2,707	90.8	2,005	67.2	75	2.5
1913	4,908	160.0	2,388	77.8	2,834	92.4	2,333	76.1	132	4.3
1914	5,124	162.5	2,414	76.6	2,993	94.9	2,108	66.8	120	3.8
1915	5,538	171.0	2,567	79.2	3,384	104.5	2,219	68.5	190	5.9
1916	5,819	175.0	2,710	81.5	3,559	107.0	2,853	85.8	257	7.7
1917	6,103	178.9	2,765	81.1	3,703	108.6	2,925	85.8	335	9.8
1918	6,091	174.2	2,931	83.8	3,493	99.9	2,599	74.3	279	8.0
1919	5,651	157.7	2,990	83.5	3,483	97.2	2,612	72.9	328	9.2
1920	6,732	183.5	3,158	86.1	3,876	105.7	2,646	72.1	397	10.8
1921	6,176	163.1	3,373	89.1	3,931	103.8	2,476	65.4	403	10.6
1922	6,897	176.7	3,481	89.2	4,041	103.5	2,475	63.4	529	13.6
1923	7,266	180.7	3,545	88.2	4,420	109.9	2,826	70.3	677	16.8
1924	6,985	168.8	3,824	92.4	4,241	102.5	3,090	74.7	1,001	24.2
1925	7,540	177.2	3,858	90.7	4,623	108.6	3,278	77.0	1,103	25.9
1926	8,281	189.4	4,087	93.5	4,663	106.6	3,557	81.3	1,221	27.9
1927	8,780	195.5	4,264	95.0	4,378	97.5	3,634	80.9	1,389	30.9
1928	9,786	212.4	4,381	95.1	4,718	102.4	3,704	80.4	1,429	31.0
1929	10,185	215.6	4,571	96.7	4,694	99.3	3,913	82.8	1,552	32.8
1930	9,947	205.4	4,572	94.4	4,533	93.6	3,805	78.6	1,572	32.5
1931	10,206	209.0	4,763	97.5	4,388	89.8	3,630	74.3	1,516	31.0
1932	11,162	226.6	4,935	100.2	4,518	91.7	3,179	64.5	1,229	25.0
1933	11,509	231.7	5,055	101.8	4,318	86.9	3,304	66.5	1,278	25.7
1934	11,824	236.1	5,370	107.2	4,485	89.6	3,774	75.4	1,511	30.2
1935	12,456	246.7	5,399	106.9	4,420	87.5	3,771	74.7	1,676	33.2
1936	13,374	262.7	5,752	113.0	4,705	92.4	5,246	103.1	1,924	37.8
1937	13,233	257.8	5,732	111.7	4,378	85.3	4,580	89.2	2,187	42.6
1938	13,887	268.4	6,059	117.1	4,543	87.8	3,608	69.7	1,490	28.8
1939	14,898	285.7	6,296	120.7	4,415	84.7	3,761	72.1	1,553	29.8
1940	15,480	294.5	6,513	123.9	4,690	89.2	3,961	75.4	1,743	33.2
1941	15,761	289.8	6,551	120.5	4,698	86.4	4,450	81.8	2,156	39.6
1942	16,016	289.2	6,646	120.0	4,841	87.4	3,685	66.5	1,368	24.7
1943	17,816	331.3	7,127	132.5	5,311	98.8	3,480	64.7	1,025	19.1
1944	17,004	316.2	7,277	135.3	4,954	92.1	3,350	62.3	1,103	20.5
1945	17,421	320.5	7,486	137.7	5,295	97.4	3,432	63.1	1,199	22.1
1946	17,691	309.9	7,845	137.4	5,224	91.5	3,776	66.1	1,506	26.4
1947	18,412	303.4	8,188	134.9	5,426	89.4	3,848	63.4	1,499	24.7
1948	18,726	302.3	8,336	134.6	5,272	85.1	4,017	64.8	1,545	24.9
1949	19,137	301.3	8,697	136.9	5,438	85.6	3,838	60.4	1,493	23.5

<sup>1</sup> 1994 estimated population is used to calculate 1995 rates.

<sup>2</sup> Cancer includes leukemias, aleukemias, and Hodgkin's disease beginning with 1921.

<sup>3</sup> Cerebrovascular disease was called Vascular Lesions Affecting-Central Nervous System prior to 1968.

<sup>4</sup> Accidents exclude injuries undetermined whether accidentally or purposely inflicted since 1968.

<sup>5</sup> Motor vehicle accidents do not include collision with heavier vehicles from 1910 through 1922. Motorcycle accidents are included beginning 1923.

<sup>6</sup> Chronic liver disease and cirrhosis was called Cirrhosis of the Liver prior to 1979.

<sup>7</sup> Atherosclerosis was called General Arteriosclerosis prior to 1968 and was called Arteriosclerosis from 1968-1978.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.8 (continued)  
 Number of Deaths and Death Rates<sup>1</sup> by Specified Causes  
 Michigan Residents, 1900 - 1995  
 (Rates per 100,000 population)

Year	Diabetes		Pneumonia		Chronic Liver Disease & Cirrhosis <sup>6</sup>		Atherosclerosis <sup>7</sup>	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1900	224	9.3	2,388	98.6				
1901	264	10.7	2,901	117.9				
1902	289	11.6	2,637	105.5				
1903	265	10.4	2,607	102.7				
1904	298	11.6	2,646	102.7				
1905	267	10.2	2,417	92.4				
1906	311	11.7	2,621	98.7				
1907	352	13.1	3,018	112.0				
1908	359	13.1	2,313	84.7				
1909	374	13.5	2,265	81.7				
1910	398	14.2	2,785	99.1				
1911	373	12.9	2,763	95.4				
1912	448	15.0	2,796	93.8				
1913	483	15.7	3,082	100.5				
1914	503	16.0	2,909	92.2				
1915	498	15.4	3,229	99.7				
1916	500	15.0	3,698	111.2				
1917	569	16.7	4,455	130.6				
1918	591	16.9	7,238	207.0				
1919	559	15.6	4,081	113.9				
1920	577	15.7	5,794	157.9				
1921	586	15.5	2,849	75.3	261	6.9		
1922	650	16.7	3,728	95.5	267	6.8		
1923	635	15.8	4,719	117.4	251	6.2		
1924	661	16.0	3,332	80.5	256	6.2		
1925	746	17.5	3,294	77.4	319	7.5		
1926	743	17.0	4,440	101.5	326	7.5		
1927	819	18.2	3,543	78.9	340	7.6		
1928	905	19.6	4,518	98.1	373	8.1		
1929	935	19.8	4,216	89.2	361	7.6		
1930	880	18.2	3,321	68.6	329	6.8	1,047	21.6
1931	950	19.5	2,883	59.0	365	7.5	1,005	20.6
1932	1,121	22.8	3,238	65.7	386	7.8	948	19.2
1933	1,103	22.2	2,756	55.5	354	7.1	966	19.5
1934	1,100	22.0	3,466	69.2	378	7.5	914	18.3
1935	1,228	24.3	3,801	75.3	368	7.3	897	17.8
1936	1,266	24.9	4,096	80.5	446	8.8	997	19.6
1937	1,255	24.5	4,098	79.8	430	8.4	1,168	22.8
1938	1,283	24.8	2,869	55.5	424	8.2	869	16.8
1939	1,360	26.1	2,803	53.8	387	7.4	918	17.6
1940	1,408	26.8	2,478	47.1	468	8.9	941	17.9
1941	1,382	25.4	2,235	41.1	450	8.3	906	16.7
1942	1,448	26.1	2,349	42.4	535	9.7	1,015	18.3
1943	1,535	28.5	2,931	54.5	518	9.6	1,092	20.3
1944	1,554	28.9	2,369	44.1	471	8.8	980	18.2
1945	1,561	28.7	1,932	35.5	535	9.8	970	17.8
1946	1,530	26.8	1,891	33.1	554	9.7	933	16.3
1947	1,618	26.7	2,089	34.4	697	11.5	1,031	17.0
1948	1,771	28.6	1,853	29.9	771	12.4	1,085	17.5
1949	1,884	29.7	1,885	29.7	730	11.5	1,135	17.9

<sup>1</sup> 1994 estimated population is used to calculate 1995 rates.

<sup>2</sup> Cancer includes leukemias, aleukemias, and Hodgkin's disease beginning with 1921.

<sup>3</sup> Cerebrovascular disease was called Vascular Lesions Affecting-Central Nervous System prior to 1968.

<sup>4</sup> Accidents exclude injuries undetermined whether accidentally or purposely inflicted since 1968.

<sup>5</sup> Motor vehicle accidents do not include collision with heavier vehicles from 1910 through 1922. Motorcycle accidents are included beginning 1923.

<sup>6</sup> Chronic liver disease and cirrhosis was called Cirrhosis of the Liver prior to 1979.

<sup>7</sup> Atherosclerosis was called General Arteriosclerosis prior to 1968 and was called Arteriosclerosis from 1968-1978.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.8 (continued)  
 Number of Deaths and Death Rates<sup>1</sup> by Specified Causes  
 Michigan Residents, 1900 - 1995  
 (Rates per 100,000 population)

Year	Heart Disease		Cancer <sup>2</sup> (all forms)		Cerebrovascular Disease <sup>3</sup>		Accidents <sup>4</sup> (all forms)		Motor Vehicle Accidents <sup>5</sup>	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1950	20,521	322.1	8,685	136.3	6,376	100.1	3,783	59.4	1,680	26.4
1951	21,118	322.6	9,187	140.4	6,579	100.5	3,916	59.8	1,806	27.6
1952	21,247	316.8	9,256	138.0	6,521	97.2	3,901	58.2	1,815	27.1
1953	22,425	327.3	9,904	144.5	7,045	102.8	4,375	63.8	2,051	29.9
1954	22,362	318.4	10,105	143.9	6,964	99.1	3,948	56.2	1,916	27.3
1955	23,440	323.9	10,297	142.3	7,362	101.7	4,213	58.2	2,129	29.4
1956	24,661	328.1	10,489	139.6	7,114	94.7	3,925	52.2	1,826	24.3
1957	25,369	325.1	10,810	138.5	7,632	97.8	3,643	46.7	1,680	21.5
1958	25,215	320.6	10,946	139.2	7,547	95.9	3,306	42.0	1,466	18.6
1959	25,323	318.1	11,113	139.6	7,700	96.7	3,666	46.1	1,587	19.9
1960	25,728	328.9	11,331	144.8	7,682	98.2	3,688	47.1	1,710	21.9
1961	25,519	322.9	11,476	145.2	7,745	98.0	3,692	46.7	1,656	21.0
1962	27,226	342.9	11,752	148.0	7,783	98.0	3,758	47.3	1,668	21.0
1963	27,483	342.3	12,078	150.4	8,168	101.7	4,033	50.2	2,005	25.0
1964	27,496	339.5	12,087	149.2	7,940	98.0	4,416	54.5	2,286	28.2
1965	28,134	343.1	12,419	151.5	7,769	94.8	4,494	54.8	2,271	27.7
1966	28,277	340.1	12,506	150.4	7,732	93.0	4,737	57.0	2,407	29.0
1967	28,757	333.8	13,030	151.2	7,846	91.1	4,519	52.4	2,265	26.3
1968	29,680	342.1	13,292	153.2	7,913	91.2	4,603	53.1	2,466	28.4
1969	29,396	336.6	13,328	152.6	7,706	88.2	4,766	54.6	2,579	29.5
1970	29,204	329.1	13,551	152.7	7,691	86.7	4,428	49.9	2,309	26.0
1971	30,095	335.4	13,594	151.5	7,826	87.2	4,426	49.3	2,274	25.3
1972	30,865	342.0	14,045	155.6	7,999	88.6	4,566	50.6	2,450	27.1
1973	29,944	330.1	14,220	156.7	7,987	88.0	4,630	51.0	2,389	26.3
1974	29,220	320.8	14,241	156.3	7,645	83.9	4,211	46.2	1,929	21.2
1975	28,298	310.7	14,445	158.6	7,262	79.7	4,002	43.9	1,841	20.2
1976	29,233	320.6	14,880	163.2	7,354	80.7	3,912	42.9	1,993	21.9
1977	28,895	315.6	15,125	165.2	6,818	74.5	3,945	43.1	1,993	21.8
1978	29,406	319.6	15,249	165.7	6,520	70.9	3,970	43.1	2,138	23.2
1979	29,296	316.7	15,409	166.6	6,067	65.6	3,839	41.5	1,967	21.3
1980	29,790	321.8	15,828	171.0	6,164	66.6	3,627	39.2	1,880	20.3
1981	30,172	327.6	16,142	175.3	6,121	66.5	3,390	36.8	1,727	18.8
1982	30,099	330.2	16,566	181.7	5,839	64.1	3,113	34.2	1,555	17.1
1983	30,412	336.1	16,785	185.5	5,721	63.2	2,947	32.6	1,419	15.7
1984	30,100	332.6	16,907	186.8	5,631	62.2	3,049	33.7	1,630	18.0
1985	30,618	337.3	17,281	190.4	5,528	60.9	3,228	35.6	1,676	18.5
1986	31,270	342.6	17,321	189.8	5,421	59.4	3,202	35.1	1,736	19.0
1987	30,521	332.2	17,669	192.3	5,481	59.7	3,143	34.2	1,725	18.8
1988	30,218	327.8	17,890	194.1	5,237	56.8	3,237	35.1	1,806	19.6
1989	28,031	302.9	18,264	197.4	5,173	55.9	3,228	34.9	1,750	18.9
1990	27,527	295.7	18,413	197.8	5,090	54.7	3,137	33.7	1,669	17.9
1991	27,517	293.7	19,204	205.0	5,165	55.1	3,011	32.1	1,494	15.9
1992	26,863	285.1	19,217	204.0	5,087	54.0	2,844	30.2	1,426	15.1
1993	28,512	301.4	19,187	202.9	5,299	56.0	2,830	29.9	1,438	15.2
1994	28,195	296.9	19,410	204.4	5,680	59.8	2,928	30.8	1,445	15.2
1995	28,007	294.9	19,442	204.7	5,857	61.7	3,137	33.0	1,601	16.9

<sup>1</sup> 1994 estimated population is used to calculate 1995 rates.

<sup>2</sup> Cancer includes leukemias, aleukemias, and Hodgkin's disease beginning with 1921.

<sup>3</sup> Cerebrovascular disease was called Vascular Lesions Affecting-Central Nervous System prior to 1968.

<sup>4</sup> Accidents exclude injuries undetermined whether accidentally or purposely inflicted since 1968.

<sup>5</sup> Motor vehicle accidents do not include collision with heavier vehicles from 1910 through 1922. Motorcycle accidents are included beginning 1923.

<sup>6</sup> Chronic liver disease and cirrhosis was called Cirrhosis of the Liver prior to 1979.

<sup>7</sup> Atherosclerosis was called General Arteriosclerosis prior to 1968 and was called Arteriosclerosis from 1968-1978.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.8 (continued)  
 Number of Deaths and Death Rates<sup>1</sup> by Specified Causes  
 Michigan Residents, 1900 - 1995  
 (Rates per 100,000 population)

Year	Diabetes		Pneumonia		Chronic Liver Disease & Cirrhosis <sup>6</sup>		Atherosclerosis <sup>7</sup>	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1950	1,438	22.6	1,358	21.3	616	9.7	1,296	20.3
1951	1,374	21.0	1,619	24.7	569	8.7	1,312	20.0
1952	1,339	20.0	1,571	23.4	599	8.9	1,294	19.3
1953	1,419	20.7	1,538	22.4	715	10.4	1,270	18.5
1954	1,469	20.9	1,380	19.6	677	9.6	1,170	16.7
1955	1,415	19.6	1,538	21.3	805	11.1	1,237	17.1
1956	1,443	19.2	1,723	22.9	788	10.5	1,251	16.6
1957	1,510	19.4	2,045	26.2	861	11.0	1,248	16.0
1958	1,595	20.3	2,076	26.4	818	10.4	1,300	16.5
1959	1,715	21.5	1,810	22.7	815	10.2	1,403	17.6
1960	1,784	22.8	2,002	25.6	840	10.7	1,352	17.3
1961	1,778	22.5	1,692	21.4	858	10.9	1,448	18.3
1962	1,908	24.0	1,824	23.0	859	10.8	1,477	18.6
1963	2,049	25.5	1,995	24.8	958	11.9	1,652	20.6
1964	2,055	25.4	1,714	21.2	995	12.3	1,559	19.2
1965	2,153	26.3	1,987	24.2	1,068	13.0	1,726	21.1
1966	2,243	27.0	2,026	24.4	1,152	13.9	1,745	21.0
1967	2,182	25.3	1,973	22.9	1,240	14.4	1,730	20.1
1968	2,298	26.5	2,341	27.0	1,259	14.5	1,262	14.5
1969	2,188	25.1	2,229	25.5	1,430	16.4	1,289	14.8
1970	2,180	24.6	2,004	22.6	1,558	17.6	1,174	13.2
1971	2,103	23.4	1,981	22.1	1,657	18.5	1,187	13.2
1972	2,222	24.6	2,009	22.3	1,778	19.7	1,153	12.8
1973	2,074	22.9	1,958	21.6	1,711	18.9	1,142	12.6
1974	1,940	21.3	1,637	18.0	1,650	18.1	1,187	13.0
1975	1,819	20.0	1,690	18.6	1,574	17.3	1,119	12.3
1976	1,719	18.9	1,812	19.9	1,486	16.3	1,207	13.2
1977	1,615	17.6	1,639	17.9	1,356	14.8	1,164	12.7
1978	1,551	16.9	1,828	19.9	1,351	14.7	1,146	12.5
1979	1,449	15.7	1,454	15.7	1,367	14.8	1,173	12.7
1980	1,467	15.8	1,712	18.5	1,362	14.7	1,254	13.5
1981	1,487	16.1	1,644	17.9	1,253	13.6	1,270	13.8
1982	1,347	14.8	1,665	18.3	1,244	13.6	1,284	14.1
1983	1,470	16.2	2,007	22.2	1,250	13.8	1,269	14.0
1984	1,476	16.3	2,018	22.3	1,194	13.2	1,142	12.6
1985	1,387	15.3	2,193	24.2	1,256	13.8	1,173	12.9
1986	1,494	16.4	2,513	27.5	1,120	12.3	1,214	13.3
1987	1,479	16.1	2,377	25.9	1,099	12.0	1,168	12.7
1988	1,522	16.5	2,626	28.5	1,080	11.7	1,187	12.9
1989	2,052	22.2	2,633	28.5	1,170	12.6	832	9.0
1990	2,009	21.6	2,863	30.8	1,123	12.1	807	8.7
1991	2,095	22.4	2,773	29.6	1,060	11.3	823	8.8
1992	2,114	22.4	2,697	28.6	947	10.1	774	8.2
1993	2,105	22.3	2,981	31.5	1,006	10.6	753	8.0
1994	2,224	23.4	2,877	30.3	1,035	10.9	805	8.5
1995	2,247	23.7	3,002	31.6	1,002	10.6	754	7.9

<sup>1</sup> 1994 estimated population is used to calculate 1995 rates.

<sup>2</sup> Cancer includes leukemias, aleukemias, and Hodgkin's disease beginning with 1921.

<sup>3</sup> Cerebrovascular disease was called Vascular Lesions Affecting-Central Nervous System prior to 1968.

<sup>4</sup> Accidents exclude injuries undetermined whether accidentally or purposely inflicted since 1968.

<sup>5</sup> Motor vehicle accidents do not include collision with heavier vehicles from 1910 through 1922. Motorcycle accidents are included beginning 1923.

<sup>6</sup> Chronic liver disease and cirrhosis was called Cirrhosis of the Liver prior to 1979.

<sup>7</sup> Atherosclerosis was called General Arteriosclerosis prior to 1968 and was called Arteriosclerosis from 1968-1978.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.9  
Selected Vital Statistics by County  
Michigan Residents, 1995

Area	Population Estimate <sup>1</sup>	Deaths	Live Births	Low Weight Live Births	Infant Deaths	Neonatal Deaths	Perinatal Deaths	Fetal Deaths	Marriages <sup>2</sup>	Divorces <sup>2</sup>
Michigan	9,496,073	83,405	134,169	10,356	1,110	725	1,363	767	71,042	39,449
Alcona	10,380	166	93	4	-	-	2	2	73	42
Alger	9,818	101	87	3	1	-	-	-	74	29
Allegan	96,088	769	1,317	69	11	10	17	9	796	434
Alpena	30,806	330	337	28	1	1	5	4	279	123
Antrim	19,526	211	241	9	1	-	2	2	165	82
Arenac	15,952	180	190	13	1	-	1	1	109	37
Baraga	8,054	97	79	4	-	-	-	-	58	24
Barry	52,234	416	695	37	3	2	8	6	429	291
Bay	111,774	978	1,357	83	7	5	18	13	912	437
Benzie	13,271	143	166	6	-	-	-	-	100	67
Berrien	161,748	1,523	2,101	168	22	12	25	14	1,364	727
Branch	41,972	409	532	47	1	1	4	4	349	279
Calhoun	139,993	1,372	1,909	143	13	8	20	15	1,189	722
Cass	48,911	439	466	39	5	3	6	3	354	259
Charlevoix	22,826	230	298	13	2	2	4	3	177	118
Cheboygan	22,469	254	286	18	3	2	5	3	184	96
Chippewa	36,590	299	412	18	1	1	6	5	308	113
Clare	27,602	345	354	22	-	-	4	4	253	138
Clinton	60,891	434	835	48	7	5	9	4	418	207
Crawford	13,394	145	149	16	4	2	2	2	99	67
Delta	38,599	383	391	21	3	2	5	3	296	170
Dickinson	27,044	322	289	12	2	2	3	1	245	127
Eaton	96,810	728	1,215	76	7	4	15	11	793	433
Emmet	27,042	231	383	23	3	2	3	1	263	134
Genesee	433,302	3,723	6,469	572	74	41	61	26	3,444	1,915
Gladwin	23,945	284	269	18	4	2	2	1	211	99
Gogebic	18,001	288	151	5	-	-	-	-	122	66
Grand Traverse	69,597	556	870	49	4	2	6	4	655	390
Gratiot	39,779	431	501	29	3	2	7	6	323	168
Hillsdale	44,830	447	566	44	3	2	6	4	347	265
Houghton	36,369	400	434	29	1	1	4	3	244	108
Huron	35,203	405	384	29	-	-	2	2	275	109
Ingham	278,435	1,971	3,856	297	33	18	51	37	2,334	1,212
Ionia	59,191	454	831	56	6	3	5	3	487	249
Iosco	24,016	345	287	18	1	1	4	3	192	121
Iron	13,118	204	128	11	-	-	-	-	84	42
Isabella	57,047	374	585	33	5	4	6	2	399	240
Jackson	153,282	1,483	2,156	137	16	11	23	16	1,249	843
Kalamazoo	228,797	1,692	3,011	229	30	20	41	24	1,935	1,066
Kalkaska	14,541	136	214	16	-	-	2	2	118	79

<sup>1</sup> 1994 estimated population.

<sup>2</sup> By county of occurrence rather than county of residence.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.9 (continued)  
Selected Vital Statistics by County  
Michigan Residents, 1995

Area	Population Estimate <sup>1</sup>	Deaths	Live Births	Low Weight Live Births	Infant Deaths	Neonatal Deaths	Perinatal Deaths	Fetal Deaths	Marriages <sup>2</sup>	Divorces <sup>2</sup>
Kent	520,130	3,815	8,884	605	70	44	99	66	4,810	2,233
Keweenaw	1,878	23	14	1	-	-	-	-	18	3
Lake	9,632	171	108	14	-	-	1	1	80	38
Lapeer	81,249	518	1,120	60	3	2	6	4	677	380
Leelanau	18,135	171	189	11	1	-	-	-	131	79
Lenawee	95,674	887	1,199	91	11	9	10	4	606	454
Livingston	129,066	754	1,806	96	7	4	7	3	994	611
Luce	5,563	67	64	6	-	-	1	1	52	30
Mackinac	10,911	119	122	4	-	-	1	1	188	66
Macomb	728,556	6,404	9,735	652	64	48	94	53	6,155	2,693
Manistee	22,632	299	264	17	3	1	4	3	164	103
Marquette	70,684	598	716	33	5	5	5	-	561	304
Mason	27,219	311	327	22	3	3	4	1	221	151
Mecosta	38,614	293	458	24	3	1	1	-	257	136
Menominee	24,525	287	262	13	2	1	3	2	284	82
Midland	79,235	569	1,021	56	2	-	4	4	524	342
Missaukee	13,353	105	176	15	2	2	2	-	89	70
Monroe	137,708	1,124	1,805	118	14	11	11	3	1,003	605
Montcalm	56,889	510	772	50	8	4	9	5	484	296
Montmorency	9,514	142	90	11	1	1	1	-	206	35
Muskegon	163,439	1,437	2,230	175	22	14	27	16	1,190	886
Newaygo	42,734	361	594	56	5	3	4	2	383	217
Oakland	1,142,000	8,566	16,196	1,107	100	64	137	87	8,832	4,801
Oceana	23,489	245	341	11	-	-	-	-	213	106
Ogemaw	20,247	245	235	11	3	2	2	-	173	93
Ontonagon	8,665	115	76	2	1	-	-	-	54	7
Osceola	21,364	210	266	10	2	1	3	2	197	116
Oscoda	8,497	119	100	12	2	2	2	-	59	34
Otsego	20,112	190	251	16	1	-	-	-	198	114
Ottawa	205,351	1,313	3,239	154	23	13	21	14	1,594	449
Presque Isle	14,020	181	103	6	6	5	6	2	80	21
Roscommon	21,890	315	192	16	3	3	4	2	143	106
Saginaw	211,286	1,978	2,997	285	27	16	36	21	1,549	790
St. Clair	152,358	1,346	2,093	148	12	10	14	4	1,251	702
St. Joseph	59,992	589	776	71	6	3	4	2	445	334
Sanilac	41,565	434	534	40	7	5	6	2	344	177
Schoolcraft	8,599	100	110	8	1	1	-	-	68	29
Shiawassee	71,633	596	919	57	5	3	9	6	583	308
Tuscola	57,006	460	698	37	7	6	7	2	443	226
Van Buren	73,852	650	1,045	79	7	5	11	6	591	377
Washtenaw	290,538	1,556	3,877	261	27	16	34	26	2,146	1,227
Wayne	2,064,914	21,267	32,875	3,381	363	244	384	175	11,025	7,310
Wexford	28,108	263	379	18	3	2	2	1	271	182
Unknown	-	4	17	4	-	-	3	3	-	-

<sup>1</sup> 1994 estimated population.

<sup>2</sup> By county of occurrence rather than county of residence.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.10  
Selected Vital Statistics Rates<sup>1</sup> by County  
Michigan Residents, 1995

Area	Deaths	Live Births	Low Weight Live Births <sup>2</sup>	Infant Deaths	Neonatal Deaths	Perinatal Deaths	Fetal Deaths	Marriages <sup>3</sup>	Divorces <sup>3</sup>
Michigan	8.8	14.1	77.2	8.3	5.4	10.1	5.7	15.0	8.3
Alcona	16.0	9.0	*	-	-	*	*	14.1	8.1
Alger	10.3	8.9	*	*	-	-	-	15.1	5.9
Allegan	8.0	13.7	52.4	8.4	7.6	12.8	6.8	16.6	9.0
Alpena	10.7	10.9	83.1	*	*	*	*	18.1	8.0
Antrim	10.8	12.3	37.3	*	-	*	*	16.9	8.4
Arenac	11.3	11.9	68.4	*	-	*	*	13.7	4.6
Baraga	12.0	9.8	*	-	-	-	-	14.4	6.0
Barry	8.0	13.3	53.2	*	*	11.4	8.6	16.4	11.1
Bay	8.7	12.1	61.2	5.2	*	13.1	9.5	16.3	7.8
Benzie	10.8	12.5	36.1	-	-	-	-	15.1	10.1
Berrien	9.4	13.0	80.0	10.5	5.7	11.8	6.6	16.9	9.0
Branch	9.7	12.7	88.3	*	*	*	*	16.6	13.3
Calhoun	9.8	13.6	74.9	6.8	4.2	10.4	7.8	17.0	10.3
Cass	9.0	9.5	83.7	*	*	12.8	*	14.5	10.6
Charlevoix	10.1	13.1	43.6	*	*	*	*	15.5	10.3
Cheboygan	11.3	12.7	62.9	*	*	*	*	16.4	8.5
Chippewa	8.2	11.3	43.7	*	*	14.4	*	16.8	6.2
Clare	12.5	12.8	62.1	-	-	*	*	18.3	10.0
Clinton	7.1	13.7	57.5	8.4	*	10.7	*	13.7	6.8
Crawford	10.8	11.1	107.4	*	13.4	*	*	14.8	10.0
Delta	9.9	10.1	53.7	*	*	*	*	15.3	8.8
Dickinson	11.9	10.7	41.5	*	*	*	*	18.1	9.4
Eaton	7.5	12.6	62.6	5.8	*	12.2	9.0	16.4	8.9
Emmet	8.5	14.2	60.1	*	*	*	*	19.5	9.9
Genesee	8.6	14.9	88.4	11.4	6.3	9.4	4.0	15.9	8.8
Gladwin	11.9	11.2	66.9	*	*	*	*	17.6	8.3
Gogebic	16.0	8.4	*	-	-	-	-	13.6	7.3
Grand Traverse	8.0	12.5	56.3	*	*	6.9	*	18.8	11.2
Gratiot	10.8	12.6	57.9	*	*	13.8	11.8	16.2	8.4
Hillsdale	10.0	12.6	77.7	*	*	10.5	*	15.5	11.8
Houghton	11.0	11.9	66.8	*	*	*	*	13.4	5.9
Huron	11.5	10.9	75.5	-	-	*	*	15.6	6.2
Ingham	7.1	13.8	77.0	8.6	4.7	13.1	9.5	16.8	8.7
Ionia	7.7	14.0	67.4	7.2	*	*	*	16.5	8.4
Iosco	14.4	12.0	62.7	*	*	*	*	16.0	10.1
Iron	15.6	9.8	85.9	-	-	-	-	12.8	6.4
Isabella	6.6	10.3	56.4	*	*	10.2	*	14.0	8.4
Jackson	9.7	14.1	63.5	7.4	5.1	10.6	7.4	16.3	11.0
Kalamazoo	7.4	13.2	76.1	10.0	6.6	13.5	7.9	16.9	9.3
Kalkaska	9.4	14.7	74.8	-	-	*	*	16.2	10.9

<sup>1</sup> 1994 estimated population is used to calculate rates.

<sup>2</sup> Ratio per 1,000 live births.

<sup>3</sup> By county of occurrence rather than county of residence. Rate of persons per 1,000 population rather than events per population.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



Table 4.10 (continued)  
Selected Vital Statistics Rates<sup>1</sup> by County  
Michigan Residents, 1995

Area	Deaths	Live Births	Low Weight Live Births <sup>2</sup>	Infant Deaths	Neonatal Deaths	Perinatal Deaths	Fetal Deaths	Marriages <sup>3</sup>	Divorces <sup>3</sup>
Kent	7.3	17.1	68.1	7.9	5.0	11.1	7.4	18.5	8.6
Keweenaw	12.2	7.5	*	-	-	-	-	19.2	*
Lake	17.8	11.2	129.6	-	-	*	*	16.6	7.9
Lapeer	6.4	13.8	53.6	*	*	5.3	*	16.7	9.4
Leelanau	9.4	10.4	58.2	*	-	-	-	14.4	8.7
Lenawee	9.3	12.5	75.9	9.2	7.5	8.3	*	12.7	9.5
Livingston	5.8	14.0	53.2	3.9	*	3.9	*	15.4	9.5
Luce	12.0	11.5	93.8	-	-	*	*	18.7	10.8
Mackinac	10.9	11.2	*	-	-	*	*	34.5	12.1
Macomb	8.8	13.4	67.0	6.6	4.9	9.6	5.4	16.9	7.4
Manistee	13.2	11.7	64.4	*	*	*	*	14.5	9.1
Marquette	8.5	10.1	46.1	*	*	*	-	15.9	8.6
Mason	11.4	12.0	67.3	*	*	*	*	16.2	11.1
Mecosta	7.6	11.9	52.4	*	*	*	-	13.3	7.0
Menominee	11.7	10.7	49.6	*	*	*	*	23.2	6.7
Midland	7.2	12.9	54.8	*	-	*	*	13.2	8.6
Missaukee	7.9	13.2	85.2	*	*	*	-	13.3	10.5
Monroe	8.2	13.1	65.4	7.8	6.1	6.1	*	14.6	8.8
Montcalm	9.0	13.6	64.8	10.4	*	11.6	*	17.0	10.4
Montmorency	14.9	9.5	122.2	*	*	*	-	43.3	7.4
Muskegon	8.8	13.6	78.5	9.9	6.3	12.0	7.1	14.6	10.8
Newaygo	8.4	13.9	94.3	*	*	*	*	17.9	10.2
Oakland	7.5	14.2	68.4	6.2	4.0	8.4	5.3	15.5	8.4
Oceana	10.4	14.5	32.3	-	-	-	-	18.1	9.0
Ogemaw	12.1	11.6	46.8	*	*	*	-	17.1	9.2
Ontonagon	13.3	8.8	*	*	-	-	-	12.5	1.6
Osceola	9.8	12.5	37.6	*	*	*	*	18.4	10.9
Oscoda	14.0	11.8	120.0	*	*	*	-	13.9	8.0
Otsego	9.4	12.5	63.7	*	-	-	-	19.7	11.3
Ottawa	6.4	15.8	47.5	7.1	4.0	6.5	4.3	15.5	4.4
Presque Isle	12.9	7.3	58.3	58.3	*	57.1	*	11.4	3.0
Roscommon	14.4	8.8	83.3	*	*	*	*	13.1	9.7
Saginaw	9.4	14.2	95.1	9.0	5.3	11.9	7.0	14.7	7.5
St. Clair	8.8	13.7	70.7	5.7	4.8	6.7	*	16.4	9.2
St. Joseph	9.8	12.9	91.5	7.7	*	*	*	14.8	11.1
Sanilac	10.4	12.8	74.9	13.1	*	11.2	*	16.6	8.5
Schoolcraft	11.6	12.8	72.7	*	*	-	-	15.8	6.7
Shiawassee	8.3	12.8	62.0	*	*	9.7	6.5	16.3	8.6
Tuscola	8.1	12.2	53.0	10.0	8.6	10.0	*	15.5	7.9
Van Buren	8.8	14.1	75.6	6.7	*	10.5	5.7	16.0	10.2
Washtenaw	5.4	13.3	67.3	7.0	4.1	8.7	6.7	14.8	8.4
Wayne	10.3	15.9	102.8	11.0	7.4	11.6	5.3	10.7	7.1
Wexford	9.4	13.5	47.5	*	*	*	*	19.3	13.0

<sup>1</sup> 1994 estimated population is used to calculate rates.

<sup>2</sup> Ratio per 1,000 live births.

<sup>3</sup> By county of occurrence rather than county of residence. Rate of persons per 1,000 population rather than events per population.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.11  
Live Births with Selected Risk Factors by County  
Michigan Residents, 1995

Area	Medical Risk Factor Present <sup>1</sup>		Complications of Labor/Delivery <sup>2</sup>		Abnormal Conditions of Newborn <sup>3</sup>		Mother Smoked While Pregnant		Mother Drank Alcohol While Pregnant	
	Number	%	Number	%	Number	%	Number	%	Number	%
Michigan	23,388	17.4	34,746	25.9	13,081	9.7	24,238	18.1	2,328	1.7
Alcona	27	29.0	29	31.2	6	6.5	29	31.2	1	*
Alger	11	12.6	14	16.1	4	*	23	26.4	1	*
Allegan	188	14.3	328	24.9	122	9.3	214	16.2	16	1.2
Alpena	89	26.4	87	25.8	42	12.5	92	27.3	2	*
Antrim	38	15.8	62	25.7	2	*	60	24.9	7	2.9
Arenac	34	17.9	54	28.4	9	4.7	50	26.3	2	*
Baraga	15	19.0	22	27.8	6	7.6	27	34.2	2	*
Barry	127	18.3	210	30.2	93	13.4	177	25.5	12	1.7
Bay	205	15.1	344	25.4	54	4.0	313	23.1	8	0.6
Benzie	19	11.4	35	21.1	4	*	39	23.5	2	*
Berrien	391	18.6	450	21.4	121	5.8	365	17.4	55	2.6
Branch	127	23.9	170	32.0	17	3.2	129	24.2	10	1.9
Calhoun	312	16.3	519	27.2	67	3.5	438	22.9	51	2.7
Cass	194	41.6	179	38.4	78	16.7	132	28.3	25	5.4
Charlevoix	50	16.8	99	33.2	17	5.7	65	21.8	-	-
Cheboygan	69	24.1	106	37.1	17	5.9	78	27.3	1	*
Chippewa	64	15.5	130	31.6	19	4.6	98	23.8	-	-
Clare	50	14.1	59	16.7	15	4.2	73	20.6	2	*
Clinton	122	14.6	254	30.4	24	2.9	98	11.7	17	2.0
Crawford	28	18.8	45	30.2	12	8.1	65	43.6	7	4.7
Delta	90	23.0	90	23.0	14	3.6	86	22.0	3	*
Dickinson	43	14.9	49	17.0	8	2.8	64	22.1	19	6.6
Eaton	194	16.0	332	27.3	45	3.7	171	14.1	20	1.6
Emmet	70	18.3	117	30.5	15	3.9	90	23.5	1	*
Genesee	648	10.0	909	14.1	215	3.3	1,215	18.8	56	0.9
Gladwin	42	15.6	75	27.9	24	8.9	59	21.9	1	*
Gogebic	40	26.5	67	44.4	11	7.3	17	11.3	2	*
Grand Traverse	135	15.5	211	24.3	32	3.7	172	19.8	27	3.1
Gratiot	57	11.4	135	26.9	34	6.8	105	21.0	9	1.8
Hillsdale	127	22.4	188	33.2	51	9.0	172	30.4	6	1.1
Houghton	98	22.6	128	29.5	29	6.7	101	23.3	14	3.2
Huron	77	20.1	125	32.6	15	3.9	75	19.5	3	*
Ingham	701	18.2	1,218	31.6	126	3.3	387	10.0	69	1.8
Ionia	148	17.8	206	24.8	104	12.5	206	24.8	9	1.1
Iosco	89	31.0	101	35.2	12	4.2	94	32.8	8	2.8
Iron	22	17.2	27	21.1	9	7.0	42	32.8	12	9.4
Isabella	72	12.3	140	23.9	38	6.5	120	20.5	2	*
Jackson	202	9.4	795	36.9	14	0.6	388	18.0	6	0.3
Kalamazoo	680	22.6	1,295	43.0	219	7.3	544	18.1	30	1.0
Kalkaska	32	15.0	50	23.4	6	2.8	68	31.8	6	2.8

<sup>1</sup> Examples of medical risk factors include: anemia, diabetes, hypertension, eclampsia, renal disease, maternal drug use.

<sup>2</sup> Examples of complications of labor and/or delivery include: abruptio placenta, seizures during labor, dysfunctional labor, fetal distress, breech/malpresentation, cord prolapse.

<sup>3</sup> Examples of abnormal conditions of the newborn include: anemia, birth injury, fetal alcohol syndrome, hyaline membrane disease, seizures.

<sup>4</sup> Congenital anomalies reported have increased due to a change in reporting procedure.

<sup>5</sup> The *Kessner Index* is a classification of prenatal care based on the month of pregnancy prenatal care began, the number of prenatal visits and the length of pregnancy.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.11 (continued)  
Live Births with Selected Risk Factors by County  
Michigan Residents, 1995

Area	Medical Risk Factor Present <sup>1</sup>		Complications of Labor/Delivery <sup>2</sup>		Abnormal Conditions of Newborn <sup>3</sup>		Mother Smoked While Pregnant		Mother Drank Alcohol While Pregnant	
	Number	%	Number	%	Number	%	Number	%	Number	%
Kent	1,369	15.4	2,358	26.5	2,497	28.1	1,134	12.8	132	1.5
Keweenaw	3	*	3	*	3	*	2	*	2	*
Lake	24	22.2	29	26.9	7	6.5	39	36.1	5	*
Lapeer	189	16.9	237	21.2	84	7.5	252	22.5	5	*
Leelanau	32	16.9	47	24.9	8	4.2	32	16.9	7	3.7
Lenawee	207	17.3	384	32.0	88	7.3	254	21.2	19	1.6
Livingston	273	15.1	551	30.5	78	4.3	280	15.5	77	4.3
Luce	15	23.4	21	32.8	4	*	23	35.9	2	*
Mackinac	12	9.8	46	37.7	6	4.9	38	31.1	1	*
Macomb	2,172	22.3	2,859	29.4	1,973	20.3	1,957	20.1	135	1.4
Manistee	53	20.1	75	28.4	4	*	72	27.3	6	2.3
Marquette	105	14.7	166	23.2	21	2.9	156	21.8	12	1.7
Mason	58	17.7	93	28.4	18	5.5	90	27.5	5	*
Mecosta	76	16.6	124	27.1	37	8.1	108	23.6	7	1.5
Menominee	86	32.8	100	38.2	21	8.0	87	33.2	10	3.8
Midland	194	19.0	295	28.9	98	9.6	154	15.1	5	*
Missaukee	74	42.0	24	13.6	10	5.7	43	24.4	2	*
Monroe	476	26.4	610	33.8	206	11.4	391	21.7	15	0.8
Montcalm	83	10.8	164	21.2	90	11.7	195	25.3	17	2.2
Montmorency	13	14.4	19	21.1	6	6.7	35	38.9	-	-
Muskegon	127	5.7	230	10.3	106	4.8	532	23.9	10	0.4
Newaygo	102	17.2	165	27.8	76	12.8	138	23.2	3	*
Oakland	3,701	22.9	4,818	29.7	2,048	12.6	2,287	14.1	284	1.8
Oceana	56	16.4	88	25.8	19	5.6	63	18.5	8	2.3
Ogemaw	41	17.4	64	27.2	10	4.3	74	31.5	6	2.6
Ontonagon	13	17.1	27	35.5	1	*	8	10.5	-	-
Osceola	87	32.7	50	18.8	9	3.4	72	27.1	4	*
Oscoda	14	14.0	30	30.0	9	9.0	26	26.0	3	*
Otsego	44	17.5	82	32.7	13	5.2	60	23.9	2	*
Ottawa	347	10.7	700	21.6	441	13.6	271	8.4	24	0.7
Presque Isle	28	27.2	31	30.1	14	13.6	26	25.2	1	*
Roscommon	37	19.3	55	28.6	11	5.7	77	40.1	6	3.1
Saginaw	658	22.0	853	28.5	159	5.3	630	21.0	69	2.3
St. Clair	388	18.5	411	19.6	181	8.6	587	28.0	43	2.1
St. Joseph	148	19.1	247	31.8	44	5.7	191	24.6	6	0.8
Sanilac	104	19.5	116	21.7	21	3.9	141	26.4	13	2.4
Schoolcraft	10	9.1	28	25.5	1	*	27	24.5	-	-
Shiawassee	148	16.1	220	23.9	21	2.3	196	21.3	7	0.8
Tuscola	115	16.5	166	23.8	25	3.6	181	25.9	9	1.3
Van Buren	208	19.9	331	31.7	56	5.4	205	19.6	36	3.4
Washtenaw	540	13.9	1,382	35.6	49	1.3	351	9.1	41	1.1
Wayne	5,082	15.5	6,912	21.0	2,736	8.3	5,896	17.9	760	2.3
Wexford	142	37.5	71	18.7	17	4.5	114	30.1	4	*
Unknown	7	41.2	10	58.8	5	*	2	*	1	*

<sup>1</sup> Examples of medical risk factors include: anemia, diabetes, hypertension, eclampsia, renal disease, maternal drug use.

<sup>2</sup> Examples of complications of labor and/or delivery include: abruptio placenta, seizures during labor, dysfunctional labor, fetal distress, breech/malpresentation, cord prolapse.

<sup>3</sup> Examples of abnormal conditions of the newborn include: anemia, birth injury, fetal alcohol syndrome, hyaline membrane disease, seizures.

<sup>4</sup> Congenital anomalies reported have increased due to a change in reporting procedure.

<sup>5</sup> The *Kessner Index* is a classification of prenatal care based on the month of pregnancy prenatal care began, the number of prenatal visits and the length of pregnancy.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.11 (continued)  
Live Births with Selected Risk Factors by County  
Michigan Residents, 1995

Area	Congenital Anomalies Reported <sup>4</sup>		Inadequate Prenatal Care <sup>5</sup>		Mother's Education <12 Grade		Mother <18 Years of Age	
	Number	%	Number	%	Number	%	Number	%
Michigan	1,013	0.8	12,224	9.1	24,349	18.1	6,530	4.9
Alcona	-	-	2	*	7	7.5	1	*
Alger	-	-	3	*	8	9.2	-	-
Allegan	10	0.8	54	4.1	185	14.0	61	4.6
Alpena	-	-	4	*	53	15.7	18	5.3
Antrim	1	*	23	9.5	39	16.2	9	3.7
Arenac	1	*	8	4.2	32	16.8	12	6.3
Baraga	4	*	5	*	8	10.1	3	*
Barry	6	0.9	14	2.0	103	14.8	29	4.2
Bay	14	1.0	22	1.6	215	15.8	60	4.4
Benzie	3	*	10	6.0	27	16.3	6	3.6
Berrien	19	0.9	212	10.1	591	28.1	204	9.7
Branch	4	*	46	8.6	133	25.0	22	4.1
Calhoun	25	1.3	82	4.3	444	23.3	153	8.0
Cass	10	2.1	48	10.3	138	29.6	49	10.5
Charlevoix	1	*	10	3.4	45	15.1	12	4.0
Cheboygan	7	2.4	5	*	42	14.7	16	5.6
Chippewa	8	1.9	19	4.6	68	16.5	20	4.9
Clare	-	-	22	6.2	93	26.3	20	5.6
Clinton	6	0.7	28	3.4	62	7.4	23	2.8
Crawford	4	*	4	*	40	26.8	12	8.1
Delta	7	1.8	21	5.4	40	10.2	12	3.1
Dickinson	2	*	21	7.3	20	6.9	6	2.1
Eaton	7	0.6	62	5.1	153	12.6	47	3.9
Emmet	3	*	11	2.9	46	12.0	9	2.3
Genesee	28	0.4	253	3.9	1,480	22.9	452	7.0
Gladwin	11	4.1	23	8.6	74	27.5	18	6.7
Gogebic	6	4.0	4	*	21	13.9	4	*
Grand Traverse	3	*	40	4.6	92	10.6	34	3.9
Gratiot	6	1.2	15	3.0	81	16.2	22	4.4
Hillsdale	7	1.2	44	7.8	119	21.0	26	4.6
Houghton	5	*	12	2.8	37	8.5	6	1.4
Huron	3	*	16	4.2	44	11.5	10	2.6
Ingham	23	0.6	295	7.7	674	17.5	214	5.5
Ionia	6	0.7	43	5.2	157	18.9	46	5.5
Iosco	6	2.1	13	4.5	72	25.1	19	6.6
Iron	-	-	13	10.2	15	11.7	6	4.7
Isabella	9	1.5	22	3.8	87	14.9	22	3.8
Jackson	8	0.4	337	15.6	304	14.1	130	6.0
Kalamazoo	22	0.7	101	3.4	486	16.1	161	5.3
Kalkaska	2	*	13	6.1	59	27.6	13	6.1

<sup>1</sup> Examples of medical risk factors include: anemia, diabetes, hypertension, eclampsia, renal disease, maternal drug use.

<sup>2</sup> Examples of complications of labor and/or delivery include: abruptio placenta, seizures during labor, dysfunctional labor, fetal distress, breech/malpresentation, cord prolapse.

<sup>3</sup> Examples of abnormal conditions of the newborn include: anemia, birth injury, fetal alcohol syndrome, hyaline membrane disease, seizures.

<sup>4</sup> Congenital anomalies reported have increased due to a change in reporting procedure.

<sup>5</sup> The *Kessner Index* is a classification of prenatal care based on the month of pregnancy prenatal care began, the number of prenatal visits and the length of pregnancy.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.11 (continued)  
Live Births with Selected Risk Factors by County  
Michigan Residents, 1995

Area	Congenital Anomalies Reported <sup>4</sup>		Inadequate Prenatal Care <sup>5</sup>		Mother's Education <12 Grade		Mother <18 Years of Age	
	Number	%	Number	%	Number	%	Number	%
Kent	32	0.4	450	5.1	1,476	16.6	442	5.0
Keweenaw	1	*	-	-	1	*	1	*
Lake	2	*	10	9.3	41	38.0	9	8.3
Lapeer	25	2.2	42	3.8	160	14.3	37	3.3
Leelanau	-	-	13	6.9	22	11.6	2	*
Lenawee	13	1.1	48	4.0	235	19.6	64	5.3
Livingston	10	0.6	101	5.6	129	7.1	31	1.7
Luce	3	*	1	*	16	25.0	2	*
Mackinac	3	*	1	*	21	17.2	9	7.4
Macomb	100	1.0	703	7.2	1,070	11.0	205	2.1
Manistee	4	*	15	5.7	50	18.9	12	4.5
Marquette	4	*	20	2.8	51	7.1	21	2.9
Mason	6	1.8	22	6.7	69	21.1	27	8.3
Mecosta	5	*	49	10.7	83	18.1	17	3.7
Menominee	2	*	26	9.9	42	16.0	12	4.6
Midland	16	1.6	18	1.8	96	9.4	17	1.7
Missaukee	1	*	7	4.0	32	18.2	7	4.0
Monroe	23	1.3	61	3.4	296	16.4	81	4.5
Montcalm	6	0.8	40	5.2	159	20.6	34	4.4
Montmorency	-	-	2	*	18	20.0	3	*
Muskegon	5	*	217	9.7	510	22.9	165	7.4
Newaygo	5	*	32	5.4	146	24.6	34	5.7
Oakland	162	1.0	954	5.9	1,496	9.2	362	2.2
Oceana	4	*	24	7.0	115	33.7	25	7.3
Ogemaw	2	*	9	3.8	55	23.4	12	5.1
Ontonagon	1	*	-	-	7	9.2	2	*
Osceola	1	*	15	5.6	62	23.3	11	4.1
Oscoda	-	-	4	*	26	26.0	5	*
Otsego	1	*	2	*	33	13.1	10	4.0
Ottawa	13	0.4	109	3.4	386	11.9	86	2.7
Presque Isle	3	*	4	*	13	12.6	5	*
Roscommon	2	*	12	6.3	42	21.9	11	5.7
Saginaw	18	0.6	144	4.8	682	22.8	209	7.0
St. Clair	19	0.9	173	8.3	344	16.4	76	3.6
St. Joseph	8	1.0	45	5.8	216	27.8	55	7.1
Sanilac	12	2.2	49	9.2	100	18.7	10	1.9
Schoolcraft	3	*	4	*	14	12.7	4	*
Shiawassee	4	*	22	2.4	158	17.2	36	3.9
Tuscola	5	*	31	4.4	103	14.8	30	4.3
Van Buren	19	1.8	70	6.7	295	28.2	71	6.8
Washtenaw	11	0.3	304	7.8	398	10.3	76	2.0
Wayne	168	0.5	6,370	19.4	8,614	26.2	2,191	6.7
Wexford	3	*	17	4.5	72	19.0	24	6.3
Unknown	1	*	4	*	1	*	-	-

<sup>1</sup> Examples of medical risk factors include: anemia, diabetes, hypertension, eclampsia, renal disease, maternal drug use.

<sup>2</sup> Examples of complications of labor and/or delivery include: abruptio placenta, seizures during labor, dysfunctional labor, fetal distress, breech/malpresentation, cord prolapse.

<sup>3</sup> Examples of abnormal conditions of the newborn include: anemia, birth injury, fetal alcohol syndrome, hyaline membrane disease, seizures.

<sup>4</sup> Congenital anomalies reported have increased due to a change in reporting procedure.

<sup>5</sup> The *Kessner Index* is a classification of prenatal care based on the month of pregnancy prenatal care began, the number of prenatal visits and the length of pregnancy.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.12  
Live Births by Age of Mother and County  
Michigan Residents, 1995

Area	Age of Mother													Not Stated
	Total	<15	15	16	17	18	19	15-19	20-24	25-29	30-34	35-39	40 +	
Michigan	134,169	377	919	1,976	3,258	4,638	5,653	16,444	32,365	38,669	31,721	12,458	2,110	25
Alcona	93	-	-	-	1	4	9	14	23	26	20	7	3	-
Alger	87	-	-	-	-	2	5	7	29	26	18	5	2	-
Allegan	1,317	1	7	19	34	32	59	151	327	410	307	102	19	-
Alpena	337	1	5	5	7	13	13	43	94	83	83	26	7	-
Antrim	241	-	1	2	6	7	19	35	71	46	50	35	4	-
Arenac	190	-	1	3	8	7	10	29	56	51	42	9	3	-
Baraga	79	-	-	1	2	1	4	8	36	21	9	4	1	-
Barry	695	-	5	7	17	23	29	81	208	210	139	50	7	-
Bay	1,357	1	14	17	28	60	71	190	300	407	323	113	23	-
Benzie	166	-	2	3	1	4	15	25	46	49	30	14	2	-
Berrien	2,101	14	30	72	88	136	109	435	577	527	374	152	21	1
Branch	532	1	3	9	9	33	35	89	179	144	81	33	5	-
Calhoun	1,909	10	23	48	72	80	117	340	572	534	333	104	16	-
Cass	466	4	6	13	26	26	30	101	137	120	70	27	7	-
Charlevoix	298	1	1	3	7	10	13	34	76	92	65	27	2	1
Cheboygan	286	1	2	2	11	10	22	47	82	77	52	19	8	-
Chippewa	412	-	4	8	8	18	24	62	130	107	75	33	5	-
Clare	354	1	2	5	12	24	26	69	100	102	65	17	-	-
Clinton	835	-	4	6	13	16	14	53	154	297	242	75	14	-
Crawford	149	-	2	4	6	8	10	30	39	33	33	11	3	-
Delta	391	1	3	5	3	14	14	39	91	121	98	37	4	-
Dickinson	289	1	-	3	2	10	13	28	54	104	71	29	2	-
Eaton	1,215	1	3	15	28	43	51	140	306	368	274	106	20	-
Emmet	383	-	-	3	6	14	17	40	94	116	92	38	3	-
Genesee	6,469	41	61	128	222	281	345	1,037	1,852	1,765	1,228	469	76	1
Gladwin	269	-	4	5	9	12	11	41	78	90	39	17	4	-
Gogebic	151	-	-	1	3	5	7	16	43	36	35	17	4	-
Gd. Traverse	870	2	3	13	16	31	34	97	189	223	237	102	20	-
Gratiot	501	2	4	5	11	24	25	69	148	147	103	29	3	-
Hillsdale	566	-	3	8	15	30	29	85	168	152	121	35	5	-
Houghton	434	2	-	2	2	18	16	38	122	126	81	53	12	-
Huron	384	-	-	4	6	12	11	33	89	150	79	29	4	-
Ingham	3,856	15	29	72	98	155	158	512	954	1,085	863	356	71	-
Ionia	831	1	6	11	28	38	50	133	258	232	140	55	11	1
Iosco	287	-	3	3	13	12	23	54	77	66	62	23	5	-
Iron	128	-	-	3	3	4	1	11	33	36	31	13	4	-
Isabella	585	-	4	6	12	25	28	75	144	200	118	42	6	-
Jackson	2,156	6	15	36	73	82	102	308	632	608	417	158	26	1
Kalamazoo	3,011	5	25	56	75	96	123	375	694	868	721	303	45	-
Kalkaska	214	-	2	3	8	16	8	37	79	54	32	12	-	-

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.12 (continued)  
Live Births by Age of Mother and County  
Michigan Residents, 1995

Area	Age of Mother													
	Total	<15	15	16	17	18	19	15-19	20-24	25-29	30-34	35-39	40 +	Not Stated
Kent	8,884	34	80	132	196	289	333	1,030	2,001	2,713	2,185	819	101	1
Keweenaw	14	-	-	-	1	-	-	1	3	2	4	3	1	-
Lake	108	-	4	2	3	8	8	25	31	26	23	3	-	-
Lapeer	1,120	1	5	7	24	31	33	100	280	368	257	98	14	2
Leelanau	189	-	-	-	2	4	10	16	43	40	59	25	6	-
Lenawee	1,199	4	7	14	39	46	48	154	334	365	243	90	9	-
Livingston	1,806	-	3	11	17	21	45	97	275	596	573	242	23	-
Luce	64	-	1	-	1	6	4	12	19	17	7	6	3	-
Mackinac	122	1	-	5	3	8	6	22	30	27	31	8	3	-
Macomb	9,735	5	18	67	115	202	239	641	1,805	3,303	2,830	1,006	144	1
Manistee	264	-	2	1	9	12	12	36	68	92	43	21	4	-
Marquette	716	-	5	6	10	19	28	68	177	225	157	77	12	-
Mason	327	1	4	8	14	12	21	59	99	89	57	18	4	-
Mecosta	458	-	1	4	12	16	25	58	149	127	82	32	10	-
Menominee	262	-	1	4	7	9	14	35	66	83	57	18	3	-
Midland	1,021	-	4	3	10	27	32	76	205	343	284	99	13	1
Missaukee	176	-	2	1	4	11	10	28	60	54	25	9	-	-
Monroe	1,805	2	8	21	50	62	77	218	456	555	406	136	32	-
Montcalm	772	3	6	3	22	33	49	113	243	232	138	34	8	1
Montmorency	90	-	1	1	1	2	7	12	31	23	20	2	2	-
Muskegon	2,230	11	23	57	74	130	127	411	620	621	398	141	28	-
Newaygo	594	1	3	9	21	27	36	96	168	183	103	37	6	-
Oakland	16,196	20	44	92	206	261	401	1,004	2,417	4,599	5,489	2,293	373	1
Oceana	341	1	1	7	16	20	15	59	109	92	50	26	4	-
Ogemaw	235	1	-	7	4	10	11	32	71	70	42	17	2	-
Ontonagon	76	-	-	-	2	4	3	9	27	22	10	6	2	-
Osceola	266	1	-	5	5	10	18	38	89	75	47	11	5	-
Oscoda	100	-	1	4	-	3	3	11	25	26	22	13	3	-
Otsego	251	-	2	1	7	9	8	27	69	71	62	14	8	-
Ottawa	3,239	4	14	24	44	78	112	272	646	1,131	881	264	40	1
Presque Isle	103	-	-	-	5	3	9	17	26	32	25	2	1	-
Roscommon	192	-	1	2	8	7	9	27	62	53	37	10	3	-
Saginaw	2,997	15	34	67	93	129	168	491	802	793	603	250	43	-
St. Clair	2,093	-	16	18	42	74	79	229	603	628	441	173	18	1
St. Joseph	776	5	4	12	34	39	52	141	235	230	111	43	10	1
Sanilac	534	-	2	2	6	28	22	60	166	157	102	41	8	-
Schoolcraft	110	-	-	-	4	2	4	10	34	38	19	6	3	-
Shiawassee	919	1	4	12	19	29	63	127	271	258	195	58	9	-
Tuscola	698	3	3	13	11	24	28	79	194	211	142	53	16	-
Van Buren	1,045	5	8	24	34	50	75	191	275	298	178	83	14	1
Washtenaw	3,877	6	9	22	39	60	98	228	658	1,116	1,162	565	141	1
Wayne	32,875	139	320	695	1,037	1,377	1,583	5,012	8,974	8,678	6,762	2,802	500	8
Wexford	379	1	1	4	18	10	28	61	103	94	99	17	4	-
Unknown	17	-	-	-	-	-	-	-	5	4	7	1	-	-

Source: Office of the State Registrar and Division of Health Statistics, MDCH

**Table 4.13**  
**Vital Statistics for Residents of Selected Michigan Cities and Townships<sup>1</sup>**  
**Michigan Residents, 1995**

City/Township	Live Births	Deaths	Infant Deaths		Fetal Deaths	
			Number	Rate	Number	Rate
Allen Park	312	374	2	*	3	*
Ann Arbor	1,403	495	8	5.7	7	5.0
Battle Creek	1,132	593	8	7.1	11	9.6
Bay City	610	412	6	9.8	7	11.3
Bloomfield Twp., Oakland Co.	219	223	-	-	-	-
Burton City	379	229	5	*	3	*
Canton Twp., Wayne Co.	1,022	273	6	5.9	5	*
Chesterfield Twp., Macomb Co.	361	108	1	*	1	*
Clinton Twp., Macomb Co.	1,276	747	6	4.7	5	*
Commerce Twp., Oakland Co.	349	130	2	*	1	*
Dearborn	1,657	872	3	*	4	*
Dearborn Heights	731	622	3	*	-	-
Delta Twp., Eaton Co.	307	198	1	*	2	*
Detroit	17,578	11,232	274	15.6	109	6.2
East Detroit, Macomb Co.	479	387	2	*	1	*
East Lansing	339	219	5	*	2	*
Farmington Hills	1,022	622	9	8.8	2	*
Ferdale	372	254	1	*	1	*
Flint	2,999	1,515	46	15.3	11	3.7
Flint Twp., Genesee Co.	366	306	1	*	1	*
Garden City	397	253	1	*	-	-
Georgetown Twp., Ottawa Co.	484	160	3	*	1	*
Grand Blanc Twp., Genesee Co.	284	156	2	*	-	-
Grand Rapids	4,038	1,797	40	9.9	41	10.1
Highland Park	302	272	7	23.2	3	*
Holland	677	313	5	*	3	*
Inkster	521	338	6	11.5	2	*
Jackson	964	421	2	*	11	11.3
Kalamazoo	1,378	642	18	13.1	17	12.2
Kentwood	648	182	2	*	6	9.2
Lansing	2,325	1,038	22	9.5	23	9.8
Lincoln Park	549	419	2	*	-	-
Livonia	1,224	953	8	6.5	4	*
Madison Heights	466	280	4	*	4	*
Meridian Twp., Ingham Co.	398	208	4	*	5	*
Midland	518	349	1	*	1	*
Mount Morris Twp., Genesee Co.	224	161	2	*	1	*
Muskegon	761	437	9	11.8	11	14.2
Novi City	542	214	2	*	1	*
Oak Park	484	244	2	4.1	3	*
Pontiac	1,432	682	23	16.1	13	9.0
Portage	498	249	2	*	2	*
Port Huron	506	388	7	13.8	1	*
Redford Twp., Wayne Co.	774	548	4	*	1	*
Rochester Hills City	819	366	2	*	3	*
Roseville	728	531	5	*	2	*
Royal Oak	875	578	5	*	10	11.3
Saginaw	1,438	723	21	14.6	13	9.0
Saginaw Twp., Saginaw Co.	409	384	1	*	2	*
St. Clair Shores	735	777	6	8.2	5	*
Shelby Twp., Macomb Co.	569	320	3	*	1	*
Southfield	970	835	8	8.2	1	*
Southgate	331	279	-	-	1	*
Sterling Heights	1,456	787	9	6.2	11	7.5
Taylor	1,111	543	10	9.0	7	6.3
Troy	969	438	5	*	4	*
Warren	1,787	1,499	16	9.0	11	6.1
Waterford Twp., Oakland Co.	1,087	531	6	5.5	7	6.4
West Bloomfield Twp., Oakland Co.	780	364	2	*	3	*
Westland	1,294	789	5	*	1	*
Wyandotte	362	321	1	*	2	*
Wyoming	1,110	380	4	*	6	5.4
Ypsilanti Twp., Washtenaw Co.	565	216	6	10.6	1	*

<sup>1</sup> 25,000 population or over according to the 1980 or 1990 Census.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



Table 4.14  
 Number of Deaths by Underlying Cause and County  
 Michigan Residents, 1995

Area	All Causes	T.B. (all forms)	All Other Infectious & Parasitic Diseases	Cancer							
				Total	Digestive Organs & Peritoneum	Respiratory & Intrathoracic Organs	Breast	Genital <sup>1</sup> Organs	Urinary Organs	Leukemia	Other
Michigan	83,405	43	1,703	19,442	4,472	5,778	1,705	2,153	851	701	3,782
Alcona	166	-	-	48	12	14	4	6	2	-	10
Alger	101	-	-	28	4	6	2	5	3	-	8
Allegan	769	-	13	175	39	55	15	18	11	6	31
Alpena	330	-	4	84	20	23	8	12	3	-	18
Antrim	211	-	3	56	12	11	2	11	4	3	13
Arenac	180	-	6	42	9	13	2	7	2	2	7
Baraga	97	-	1	24	7	9	-	1	3	-	4
Barry	416	-	7	93	20	27	11	9	3	3	20
Bay	978	-	9	227	48	72	13	26	7	9	52
Benzie	143	-	-	34	10	13	3	1	2	-	5
Berrien	1,523	2	22	370	84	118	40	45	14	8	61
Branch	409	-	13	95	14	26	10	8	7	6	24
Calhoun	1,372	-	20	320	67	98	29	29	8	16	73
Cass	439	1	4	112	22	37	9	12	5	1	26
Charlevoix	230	-	1	49	10	16	1	6	1	2	13
Cheboygan	254	-	5	48	10	19	7	7	-	-	5
Chippewa	299	-	3	82	21	23	5	7	6	3	17
Clare	345	-	4	85	25	28	4	6	5	-	17
Clinton	434	-	7	101	25	23	7	9	5	8	24
Crawford	145	-	1	35	7	8	5	7	1	2	5
Delta	383	-	3	85	22	29	9	6	5	1	13
Dickinson	322	-	2	75	14	21	12	7	5	5	11
Eaton	728	-	13	195	40	65	14	22	9	4	41
Emmet	231	-	4	67	15	15	5	9	3	6	14
Genesee	3,723	3	65	813	181	247	77	111	30	31	136
Gladwin	284	1	1	68	12	32	4	2	2	1	15
Gogebic	288	-	5	87	18	26	9	13	3	2	16
Gd. Traverse	556	-	10	123	32	32	10	14	4	6	25
Gratiot	431	1	6	78	13	23	10	13	1	7	11
Hillsdale	447	-	4	101	15	34	7	15	7	5	18
Houghton	400	-	4	82	22	19	6	10	6	4	15
Huron	405	-	4	105	25	25	11	14	3	1	26
Ingham	1,971	-	50	431	96	128	42	51	15	14	85
Ionia	454	-	3	97	27	27	6	8	3	1	25
Iosco	345	-	1	84	21	22	8	9	5	1	18
Iron	204	-	3	40	5	15	3	5	4	-	8
Isabella	374	-	8	81	18	26	6	9	6	2	14
Jackson	1,483	-	30	373	75	116	35	50	12	14	71
Kalamazoo	1,692	2	35	396	82	109	36	37	20	15	97
Kalkaska	136	-	1	36	10	12	1	4	1	1	7

<sup>1</sup> Includes prostate cancer.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.14 (continued)  
 Number of Deaths by Underlying Cause and County  
 Michigan Residents, 1995

Area	All Causes	T.B. (all forms)	All Other Infectious & Parasitic Diseases	Cancer							
				Total	Digestive Organs & Peritoneum	Respiratory & Intrathoracic Organs	Breast	Genital <sup>1</sup> Organs	Urinary Organs	Leukemia	Other
Kent	3,815	1	66	866	228	219	76	92	37	30	184
Keweenaw	23	-	-	4	-	3	1	-	-	-	-
Lake	171	-	3	46	16	11	3	5	2	2	7
Lapeer	518	-	5	147	40	42	12	17	6	2	28
Leelanau	171	-	-	48	11	14	5	6	3	2	7
Lenawee	887	1	8	190	36	52	16	18	15	12	41
Livingston	754	-	13	190	45	60	13	27	7	5	33
Luce	67	-	1	13	2	5	2	1	1	-	2
Mackinac	119	-	1	34	11	10	1	3	1	2	6
Macomb	6,404	2	90	1,629	370	482	192	164	76	57	288
Manistee	299	-	2	59	13	15	4	9	4	4	10
Marquette	598	-	4	140	37	35	13	14	4	7	30
Mason	311	-	3	72	15	16	5	11	4	4	17
Mecosta	293	-	3	77	18	25	6	9	2	5	12
Menominee	287	-	3	58	21	14	4	9	3	-	7
Midland	569	-	2	126	29	33	8	14	8	6	28
Missaukee	105	-	-	30	5	12	1	2	1	-	9
Monroe	1,124	-	14	253	49	85	24	25	13	6	51
Montcalm	510	1	5	112	28	37	7	11	5	7	17
Montmorency	142	-	1	28	8	9	3	3	1	-	4
Muskegon	1,437	2	20	329	66	101	29	22	20	15	76
Newaygo	361	-	5	86	17	30	5	8	7	-	19
Oakland	8,566	6	168	2,060	474	593	162	224	103	76	428
Oceana	245	-	-	55	16	19	1	5	3	2	9
Ogemaw	245	-	-	61	19	19	2	1	3	4	13
Ontonagon	115	-	2	21	3	7	2	4	2	-	3
Osceola	210	-	4	43	4	13	3	8	5	-	10
Oscoda	119	-	-	33	9	10	3	3	2	1	5
Otsego	190	-	5	45	11	13	3	6	3	2	7
Ottawa	1,313	1	16	297	56	66	34	38	17	15	71
Presque Isle	181	-	3	41	5	23	3	4	3	-	3
Roscommon	315	-	1	95	23	41	5	9	3	3	11
Saginaw	1,978	-	30	478	114	160	35	61	18	20	70
St. Clair	1,346	-	11	348	80	96	22	44	12	15	79
St. Joseph	589	-	10	138	34	38	7	9	5	3	42
Sanilac	434	-	1	106	24	34	7	16	5	1	19
Schoolcraft	100	-	2	27	7	9	4	2	1	-	4
Shiawassee	596	-	5	155	29	48	9	16	6	9	38
Tuscola	460	-	2	106	29	24	14	6	6	8	19
Van Buren	650	-	11	131	29	37	5	18	4	8	30
Washtenaw	1,556	-	39	381	76	123	27	44	11	19	81
Wayne	21,267	19	769	4,690	1,142	1,410	429	518	181	158	852
Wexford	263	-	-	67	12	23	10	6	2	1	13
Unknown	4	-	-	2	2	-	-	-	-	-	-

<sup>1</sup> Includes prostate cancer.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.14 (continued)  
 Number of Deaths by Underlying Cause and County  
 Michigan Residents, 1995

Area	Diabetes Mellitus	Nutritional Deficiencies	Major Cardiovascular Diseases						Pneumonia & Influenza	C.O.P.D. and Allied Diseases	Ulcer of Stomach and Duodenum	Chronic Liver Disease & Cirrhosis
			Total	Diseases of the Heart	Hypertension with or without Renal Disease	Cerebrovascular Disease	Atherosclerosis	Other Diseases of Arteries Arterioles Capillaries				
Michigan	2,247	136	36,070	28,007	425	5,857	754	1,027	3,002	3,589	201	1,002
Alcona	5	-	72	61	-	8	-	3	5	7	1	3
Alger	2	-	49	36	1	5	2	5	1	1	-	1
Allegan	17	1	309	234	3	60	4	8	42	26	2	10
Alpena	7	-	135	105	2	23	1	4	18	13	-	2
Antrim	4	-	105	87	1	13	2	2	6	6	-	1
Arenac	3	-	77	65	1	6	5	-	9	10	1	-
Baraga	6	-	40	33	-	4	1	2	6	2	-	2
Barry	7	-	161	123	1	31	2	4	18	39	1	4
Bay	43	1	467	376	6	41	31	13	35	41	3	16
Benzie	9	-	60	45	2	10	1	2	4	6	-	1
Berrien	59	1	606	479	8	91	14	14	57	72	2	16
Branch	10	1	157	118	4	29	2	4	25	25	-	5
Calhoun	49	3	553	413	3	104	17	16	78	83	4	18
Cass	13	1	191	135	2	42	4	8	18	15	-	4
Charlevoix	5	1	102	81	-	18	1	2	7	10	1	5
Cheboygan	12	-	111	93	2	15	-	1	10	16	1	6
Chippewa	12	1	125	94	-	25	3	3	4	10	-	2
Clare	10	-	163	135	-	20	3	5	10	20	2	-
Clinton	19	-	189	123	-	50	4	12	14	23	1	5
Crawford	4	1	61	40	1	16	3	1	5	11	-	1
Delta	13	-	165	115	6	36	3	5	11	23	2	1
Dickinson	10	-	153	118	3	23	6	3	10	14	-	3
Eaton	17	3	274	219	3	34	6	12	25	46	2	6
Emmet	5	-	82	59	-	19	2	2	15	11	1	-
Genesee	119	10	1,603	1,294	18	232	23	36	97	171	9	43
Gladwin	7	-	126	97	-	25	2	2	10	10	1	3
Gogebic	2	1	124	90	2	23	-	9	14	12	2	1
Gd. Traverse	6	-	232	181	-	46	1	4	19	33	1	1
Gratiot	9	1	228	181	2	36	5	4	26	10	2	1
Hillsdale	5	4	184	145	2	29	3	5	18	20	1	7
Houghton	8	1	207	147	1	49	6	4	17	18	1	2
Huron	13	1	201	155	1	40	3	2	10	18	2	1
Ingham	62	1	811	604	13	157	17	20	56	103	6	21
Ionia	12	2	179	137	1	31	3	7	18	24	2	7
Iosco	12	-	148	113	1	22	5	7	21	17	-	6
Iron	7	-	99	85	1	9	3	1	11	13	-	3
Isabella	13	1	174	126	2	35	6	5	14	12	3	5
Jackson	46	-	602	461	12	98	8	23	79	107	7	15
Kalamazoo	47	14	665	512	11	118	10	14	67	79	4	21
Kalkaska	4	-	60	45	1	6	8	-	3	6	1	-

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.14 (continued)  
 Number of Deaths by Underlying Cause and County  
 Michigan Residents, 1995

Area	Diabetes Mellitus	Nutritional Deficiencies	Major Cardiovascular Diseases						Pneumonia & Influenza	C.O.P.D. and Allied Diseases	Ulcer of Stomach and Duodenum	Chronic Liver Disease & Cirrhosis
			Total	Diseases of the Heart	Hypertension with or without Renal Disease	Cerebrovascular Disease	Atherosclerosis	Other Diseases of Arteries Arterioles Capillaries				
Kent	71	10	1,583	1,245	18	245	17	58	172	151	8	32
Keweenaw	-	-	15	14	-	1	-	-	1	-	-	1
Lake	1	-	85	70	-	9	-	6	4	5	-	2
Lapeer	10	-	229	171	-	45	5	8	12	16	-	3
Leelanau	2	1	68	46	2	15	2	3	10	10	1	-
Lenawee	24	1	389	280	-	68	28	13	35	52	2	6
Livingston	20	1	300	236	6	43	3	12	20	35	2	10
Luce	2	-	25	19	-	5	-	1	3	1	-	1
Mackinac	6	-	52	41	-	8	-	3	2	6	-	1
Macomb	126	6	3,002	2,313	29	473	101	86	208	264	15	82
Manistee	9	-	156	120	1	23	9	3	1	10	2	1
Marquette	14	2	254	188	-	55	3	8	26	28	1	9
Mason	12	-	131	99	1	25	4	2	8	17	1	4
Mecosta	7	-	123	101	-	17	2	3	15	12	-	1
Menominee	14	-	139	101	2	21	12	3	11	17	-	2
Midland	17	-	234	180	1	33	11	9	32	25	1	9
Missaukee	-	-	46	33	-	10	1	2	5	6	-	1
Monroe	27	2	513	433	3	59	6	12	24	62	4	15
Montcalm	20	-	194	143	3	38	2	8	17	31	1	4
Montmorency	7	-	74	61	-	5	7	1	5	8	-	2
Muskegon	43	2	628	455	9	96	54	14	60	63	1	18
Newaygo	8	-	160	127	3	17	3	10	14	12	1	1
Oakland	224	9	3,769	2,872	41	698	55	103	283	331	18	100
Oceana	6	-	107	73	2	19	4	9	15	14	-	3
Ogemaw	6	-	127	87	3	20	14	3	5	13	-	4
Ontonagon	7	-	57	45	-	7	3	2	5	2	-	-
Osceola	3	-	95	71	-	14	1	9	18	9	-	1
Oscoda	1	-	50	39	1	7	1	2	2	9	-	2
Otsego	2	-	94	69	1	21	2	1	5	8	-	1
Ottawa	28	1	543	400	9	111	9	14	83	46	2	9
Presque Isle	6	-	84	66	1	13	1	3	2	13	1	2
Roscommon	8	2	141	103	2	22	9	5	10	16	2	1
Saginaw	53	3	848	632	14	144	24	34	74	97	5	24
St. Clair	45	1	546	401	7	113	9	16	47	86	5	24
St. Joseph	17	-	260	210	2	38	6	4	12	32	3	7
Sanilac	10	1	183	147	2	29	2	3	14	17	3	3
Schoolcraft	2	-	50	41	1	4	1	3	2	3	-	-
Shiawassee	11	1	269	193	1	53	9	13	15	22	4	5
Tuscola	17	-	195	159	3	27	-	6	17	20	2	1
Van Buren	13	2	282	219	5	41	11	6	28	36	-	5
Washtenaw	45	4	607	439	8	127	15	18	65	62	2	13
Wayne	583	36	9,206	7,425	127	1,337	86	231	693	722	47	340
Wexford	7	1	107	80	-	22	2	3	9	17	1	3
Unknown	-	-	-	-	-	-	-	-	-	-	-	-

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.14 (continued)  
 Number of Deaths by Underlying Cause and County  
 Michigan Residents, 1995

Area	Nephritis, Nephrotic Syndrome & Nephrosis	Complica- tions of Pregnancy & the Puer- perium	Congenital Anomalies	Certain Conditions Originating in the Perinatal Period	Symptoms, Signs, & Ill-defined Conditions	All Other Disease	Accidents			Suicide	Homicide and Legal Inter- vention	All Other External Causes
							Total	Motor Vehicle	All Other			
Michigan	928	11	432	556	329	8,531	3,137	1,601	1,536	969	943	134
Alcona	2	-	-	-	-	16	4	2	2	2	1	-
Alger	3	-	-	-	1	9	4	2	2	1	1	-
Allegan	13	-	3	8	2	91	44	23	21	11	1	1
Alpena	3	-	-	1	1	46	14	6	8	2	-	-
Antrim	3	-	1	-	1	11	12	6	6	-	2	-
Arenac	4	-	1	-	-	21	3	2	1	1	2	-
Baraga	-	-	-	-	-	13	2	2	-	1	-	-
Barry	9	-	1	2	1	43	18	10	8	10	2	-
Bay	13	-	9	3	2	68	29	17	12	8	3	1
Benzie	1	-	1	-	-	11	12	10	2	4	-	-
Berrien	14	-	9	11	8	175	53	32	21	20	22	4
Branch	6	-	3	-	2	32	26	12	14	7	2	-
Calhoun	10	-	8	3	7	129	59	29	30	14	14	-
Cass	4	-	-	3	1	44	22	16	6	5	1	-
Charlevoix	1	-	3	1	-	27	14	9	5	3	-	-
Cheboygan	1	-	-	2	3	24	11	8	3	4	-	-
Chippewa	1	-	1	-	-	36	16	11	5	5	-	1
Clare	-	-	-	-	-	29	18	12	6	4	-	-
Clinton	7	-	3	3	3	39	15	6	9	5	-	-
Crawford	4	-	2	-	1	14	5	1	4	-	-	-
Delta	5	-	3	1	1	38	22	9	13	9	1	-
Dickinson	1	-	2	-	2	33	10	3	7	4	3	-
Eaton	13	-	2	5	2	84	28	13	15	11	2	-
Emmet	1	-	1	1	1	21	17	11	6	3	-	1
Genesee	52	1	23	32	24	406	150	81	69	42	50	10
Gladwin	7	-	3	-	2	25	18	9	9	2	-	-
Gogebic	6	-	-	-	2	26	5	3	2	1	-	-
Gd. Traverse	5	-	2	2	1	84	25	11	14	7	2	3
Gratiot	5	-	2	-	4	31	19	12	7	6	1	1
Hillsdale	6	-	2	1	-	49	30	14	16	11	3	1
Houghton	3	-	-	1	-	38	13	11	2	2	3	-
Huron	2	-	-	-	-	25	16	6	10	7	-	-
Ingham	28	-	13	11	15	230	84	38	46	33	15	1
Ionia	9	1	2	3	1	61	21	9	12	11	1	-
Iosco	2	-	2	-	-	35	13	6	7	4	-	-
Iron	3	-	-	-	-	13	11	4	7	1	-	-
Isabella	3	-	6	1	2	29	17	9	8	5	-	-
Jackson	9	-	5	10	5	109	60	25	35	21	3	2
Kalamazoo	14	-	7	17	9	208	77	33	44	17	11	2
Kalkaska	1	-	1	-	1	12	8	5	3	2	-	-

Source: Office of the State Registrar and Division of Health Statistics, MDCH



Table 4.14 (continued)  
 Number of Deaths by Underlying Cause and County  
 Michigan Residents, 1995

Area	Nephritis, Nephrotic Syndrome & Nephrosis	Complica- tions of Pregnancy Childbirth & the Puer- perium	Congenital Anomalies	Certain Conditions Originating in the Perinatal Period	Symptoms, Signs, & Ill-defined Conditions	All Other Disease	Accidents			Suicide	Homicide and Legal Inter- vention	All Other External Causes
							Total	Motor Vehicle	All Other			
Kent	35	1	24	30	18	485	172	75	97	55	30	5
Keweenaw	-	-	-	-	-	2	-	-	-	-	-	-
Lake	2	-	2	-	-	7	12	8	4	2	-	-
Lapeer	8	-	6	-	1	43	34	23	11	1	2	1
Leelanau	2	-	1	-	-	24	4	-	4	-	-	-
Lenawee	11	-	4	5	3	111	32	24	8	10	3	-
Livingston	14	-	5	3	-	88	38	23	15	13	1	1
Luce	2	-	1	-	-	17	1	-	1	-	-	-
Mackinac	1	-	-	-	-	13	3	1	2	-	-	-
Macomb	60	-	25	36	14	565	174	84	90	74	26	6
Manistee	2	-	1	-	2	30	15	9	6	9	-	-
Marquette	3	-	2	4	1	70	27	10	17	12	-	1
Mason	1	-	5	1	1	43	8	4	4	1	3	-
Mecosta	-	-	1	1	1	31	15	10	5	2	3	1
Menominee	3	-	2	2	2	18	10	7	3	6	-	-
Midland	8	-	-	-	3	72	28	15	13	9	3	-
Missaukee	1	-	1	1	-	7	4	2	2	3	-	-
Monroe	18	-	5	8	7	108	45	19	26	13	5	1
Montcalm	9	-	1	4	3	68	32	20	12	6	2	-
Montmorency	-	-	1	-	-	14	1	-	1	1	-	-
Muskegon	22	-	8	11	7	140	62	31	31	11	9	1
Newaygo	2	-	-	3	3	38	16	8	8	6	6	-
Oakland	103	2	52	55	16	896	266	137	129	101	77	30
Oceana	5	-	-	-	-	20	17	9	8	3	-	-
Ogemaw	1	-	1	2	2	11	9	2	7	3	-	-
Ontonagon	2	-	-	-	2	8	6	1	5	2	1	-
Osceola	3	-	2	1	1	21	6	3	3	3	-	-
Oscoda	1	-	1	1	-	13	3	1	2	3	-	-
Otsego	-	-	2	-	-	23	3	1	2	2	-	-
Ottawa	14	-	10	11	8	178	57	33	24	8	1	-
Presque Isle	1	-	1	4	-	13	9	4	5	1	-	-
Roscommon	3	-	-	2	1	23	6	2	4	3	1	-
Saginaw	13	1	9	12	4	214	71	37	34	11	28	3
St. Clair	12	-	7	7	2	117	62	35	27	20	6	-
St. Joseph	2	-	5	1	2	56	33	18	15	8	3	-
Sanilac	11	-	3	3	-	52	20	12	8	7	-	-
Schoolcraft	2	-	1	-	-	8	2	2	-	1	-	-
Shiawassee	7	-	1	3	2	59	24	14	10	10	2	1
Tuscola	6	-	3	5	3	47	29	18	11	6	1	-
Van Buren	4	-	3	4	1	79	40	20	20	5	6	-
Washtenaw	18	-	10	14	7	195	56	27	29	20	16	2
Wayne	242	5	103	199	105	2,039	644	320	324	210	562	53
Wexford	-	-	2	1	1	29	16	4	12	2	-	-
Unknown	-	-	-	-	1	1	-	-	-	-	-	-

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.15  
**Reported Cases of Certain Communicable Diseases by County**  
 Michigan Residents, 1995

Area	Total	Gonorrhea	Chicken Pox	Hepatitis (all types)	Salmonella Infections	Tuberculosis	Syphilis	Mumps	Dysentery Bacillary	Measles	Rubella	Meningococcal Infections	Whooping Cough
Michigan	50,194	18,117	29,121	1,008	950	390	333	60	28	5	4	75	103
Alcona	19	1	17	-	-	-	-	-	-	-	-	-	1
Alger	-	-	-	-	-	-	-	-	-	-	-	-	-
Allegan	212	13	174	8	6	3	3	1	2	-	-	-	2
Alpena	103	-	93	6	2	-	-	1	-	-	1	-	-
Antrim	43	1	38	1	2	-	1	-	-	-	-	-	-
Arenac	37	2	22	10	2	-	0	1	-	-	-	-	-
Baraga	41	-	41	-	-	-	-	-	-	-	-	-	-
Barry	72	7	57	-	6	-	-	-	-	-	-	1	1
Bay	1,189	41	1,140	1	4	1	-	-	-	-	-	1	1
Benzie	22	1	18	1	2	-	-	-	-	-	-	-	-
Berrien	1,349	684	598	16	17	8	21	1	1	-	-	2	1
Branch	145	13	127	3	1	1	-	-	-	-	-	-	-
Calhoun	524	297	141	44	15	4	21	1	-	-	-	1	-
Cass	227	36	170	11	9	1	-	-	-	-	-	-	-
Charlevoix	38	3	34	1	-	-	-	-	-	-	-	-	-
Cheboygan	53	-	52	1	-	-	-	-	-	-	-	-	-
Chippewa	795	-	789	3	3	-	-	-	-	-	-	-	-
Clare	39	1	2	1	3	1	-	-	-	-	-	1	30
Clinton	57	11	35	2	8	1	-	-	-	-	-	-	-
Crawford	257	1	255	1	-	-	-	-	-	-	-	-	-
Delta	132	3	126	1	2	-	-	-	-	-	-	-	-
Dickinson	113	-	110	1	1	1	-	-	-	-	-	-	-
Eaton	158	38	103	3	11	1	-	-	-	-	-	1	1
Emmet	7	2	-	4	1	-	-	-	-	-	-	-	-
Genesee	2,066	1,351	622	30	25	9	27	1	-	-	-	1	-
Gladwin	49	-	29	1	-	-	-	-	-	-	-	-	19
Gogebic	31	-	31	-	-	-	-	-	-	-	-	-	-
Grd. Traverse	195	8	158	16	10	1	-	-	-	-	-	1	1
Gratiot	201	11	188	1	1	-	-	-	-	-	-	-	-
Hillsdale	102	2	80	12	7	1	-	-	-	-	-	-	-
Houghton	125	-	120	-	4	1	-	-	-	-	-	-	-
Huron	22	-	22	-	-	-	-	-	-	-	-	-	-
Ingham	922	657	209	9	31	8	2	-	2	-	-	2	2
Ionia	320	5	307	1	5	-	-	2	-	-	-	-	-
Iosco	7	5	-	-	1	-	-	1	-	-	-	-	-
Iron	13	-	12	-	-	1	-	-	-	-	-	-	-
Isabella	92	26	63	1	1	-	-	1	-	-	-	-	-
Jackson	251	162	57	11	10	6	2	1	1	-	-	1	-
Kalamazoo	948	484	334	93	26	4	3	1	-	-	-	2	1
Kalkaska	84	2	81	-	1	-	-	-	-	-	-	-	-

Source: Bureau of Infectious Disease Control, Disease Control Division, MDCH



Table 4.15 (continued)  
 Reported Cases of Certain Communicable Diseases by County  
 Michigan Residents, 1995

Area	Total	Gonorrhea	Chicken Pox	Hepatitis (all types)	Salmonella Infections	Tuberculosis	Syphilis	Mumps	Dysentery Bacillary	Measles	Rubella	Meningococcal Infections	Whooping Cough
Kent	3,058	1,316	1,614	34	47	22	16	1	2	-	1	-	5
Keweenaw	1	-	-	-	1	-	-	-	-	-	-	-	-
Lake	6	3	-	1	-	2	-	-	-	-	-	-	-
Lapeer	404	8	380	1	12	1	-	2	-	-	-	-	-
Leelanau	14	2	8	0	3	-	-	-	-	-	-	-	1
Lenawee	122	17	87	4	13	-	-	-	-	-	-	1	-
Livingston	409	5	385	5	9	1	-	1	-	-	1	-	2
Luce	4	4	-	-	-	-	-	-	-	-	-	-	-
Mackinac	3	2	-	-	-	1	-	-	-	-	-	-	-
Macomb	2,704	207	2,371	30	62	22	1	2	2	-	-	2	5
Manistee	18	5	12	1	-	-	-	-	-	-	-	-	-
Marquette	35	3	15	2	9	1	-	-	-	5	-	-	-
Mason	32	3	26	2	-	-	-	-	-	-	-	1	-
Mecosta	165	18	121	6	5	-	-	1	-	-	-	-	14
Menominee	285	-	278	-	5	1	-	-	-	-	-	1	-
Midland	184	10	145	18	11	-	-	-	-	-	-	-	-
Missaukee	70	-	63	-	6	-	-	-	-	-	-	1	-
Monroe	554	33	496	6	17	1	-	-	1	-	-	-	-
Montcalm	293	3	276	7	1	-	-	-	5	-	-	1	-
Montmorency	98	-	96	2	-	-	-	-	-	-	-	-	-
Muskegon	813	387	381	21	11	4	4	1	-	-	-	3	1
Newaygo	92	5	83	1	-	1	2	-	-	-	-	-	-
Oakland	6,597	1,433	4,853	70	136	51	12	26	3	-	-	10	3
Oceana	12	2	6	2	-	1	1	-	-	-	-	-	-
Ogemaw	7	3	-	3	-	1	-	-	-	-	-	-	-
Ontonagon	62	-	62	-	-	-	-	-	-	-	-	-	-
Osceola	34	-	31	1	1	-	-	-	-	-	-	1	-
Oscoda	1	1	-	-	-	-	-	-	-	-	-	-	-
Otsego	52	-	43	7	-	1	-	-	-	-	-	1	-
Ottawa	487	44	384	25	26	4	1	-	3	-	-	-	-
Presque Isle	3	-	3	-	-	-	-	-	-	-	-	-	-
Roscommon	113	3	101	3	2	3	-	1	-	-	-	-	-
Saginaw	1,311	767	451	27	14	3	48	-	-	-	-	-	1
St. Clair	800	86	691	6	9	5	-	1	1	-	-	-	1
St. Joseph	157	17	133	5	2	-	-	-	-	-	-	-	-
Sanilac	7	-	-	2	4	-	-	-	-	-	-	1	-
Schoolcraft	-	-	-	-	-	-	-	-	-	-	-	-	-
Shiawassee	777	5	758	2	8	-	-	-	1	-	-	3	-
Tuscola	194	4	182	4	3	-	-	-	-	-	-	1	-
Van Buren	198	42	134	9	8	3	1	-	-	-	-	1	-
Washtenaw	360	279	22	17	34	5	2	-	-	-	-	1	-
Wayne	18,274	9,532	7,671	389	255	203	165	12	4	-	1	32	10
Wexford	324	-	304	1	19	-	-	-	-	-	-	-	-

Source: Bureau of Infectious Disease Control, Disease Control Division, MDCH

Table 4.16  
Number of Deaths by Cause  
Michigan Residents, 1995

ICD List Number	Cause of Death	Number
<b>I. INFECTIOUS AND PARASITIC DISEASES (001-139)</b>		
3	Other salmonella infections . . . . .	2
8	Intestinal infections due to other organisms . . . . .	12
9	Ill-defined intestinal infections . . . . .	10
11	Pulmonary tuberculosis . . . . .	31
13	Tuberculosis of meninges and central nervous system . . . . .	4
15	Tuberculosis of bones and joints . . . . .	1
17	Tuberculosis of other organs . . . . .	3
18	Miliary tuberculosis . . . . .	4
27	Other zoonotic bacterial diseases . . . . .	1
31	Diseases due to other mycobacteria . . . . .	8
36	Meningococcal infection . . . . .	9
38	Septicemia . . . . .	588
39	Actinomycotic infections . . . . .	3
40	Other bacterial diseases . . . . .	5
41	Bacterial infection in conditions classified elsewhere and of unspecified site . . . . .	15
42	Human immunodeficiency virus infection [AIDS] with specified conditions . . . . .	749
43	Human immunodeficiency virus infection [AIDS] causing other specified conditions . . . . .	18
44	Other human immunodeficiency virus infection [AIDS] . . . . .	28
45	Acute poliomyelitis . . . . .	1
46	Slow virus infection of central nervous system . . . . .	12
48	Other enterovirus diseases of central nervous system . . . . .	1
49	Other non-arthropod-borne viral diseases of central nervous system . . . . .	4
52	Chickenpox . . . . .	5
53	Herpes zoster . . . . .	4
54	Herpes simplex . . . . .	3
62	Mosquito-borne viral encephalitis . . . . .	1
70	Viral hepatitis . . . . .	85
75	Infectious mononucleosis . . . . .	3
78	Other diseases due to viruses and Chlamydiae . . . . .	6
79	Viral infection in conditions classified elsewhere and of unspecified site . . . . .	8
90	Congenital syphilis . . . . .	1
97	Other and unspecified syphilis . . . . .	1
98	Gonococcal infections . . . . .	1
112	Candidiasis . . . . .	17
114	Coccidioidomycosis . . . . .	1
115	Histoplasmosis . . . . .	1
116	Blastomycotic infection . . . . .	1
117	Other mycoses . . . . .	41
122	Echinococcosis . . . . .	1
130	Toxoplasmosis . . . . .	1
135	Sarcoidosis . . . . .	27
136	Other and unspecified infections and parasitic diseases . . . . .	16
137	Late effects of tuberculosis . . . . .	2
138	Late effects of acute poliomyelitis . . . . .	8
139	Late effects of other infectious and parasitic diseases . . . . .	3

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.16 (continued)  
 Number of Deaths by Cause  
 Michigan Residents, 1995

ICD List Number	Cause of Death	Number
<b>II. CANCER (140-239)</b>		
140	Cancer of lip . . . . .	2
141	Cancer of tongue . . . . .	45
142	Cancer of major salivary glands . . . . .	27
143	Cancer of gum . . . . .	4
144	Cancer of floor of mouth . . . . .	12
145	Cancer of other and unspecified parts of mouth . . . . .	53
146	Cancer of oropharynx . . . . .	33
147	Cancer of nasopharynx . . . . .	13
148	Cancer of hypopharynx . . . . .	16
149	Cancer of other and ill-defined sites within the lip, oral cavity and pharynx . . . . .	44
150	Cancer of esophagus . . . . .	431
151	Cancer of stomach . . . . .	422
152	Cancer of small intestine, including duodenum . . . . .	37
153	Cancer of colon . . . . .	1,743
154	Cancer of rectum, rectosigmoid junction and anus . . . . .	304
155	Cancer of liver and intrahepatic bile ducts . . . . .	385
156	Cancer of gallbladder and extrahepatic bile ducts . . . . .	140
157	Cancer of pancreas . . . . .	931
158	Cancer of retroperitoneum and peritoneum . . . . .	21
159	Cancer of other and ill-defined sites within the digestive organs and peritoneum . . . . .	58
160	Cancer of nasal cavities, middle ear and accessory sinuses . . . . .	16
161	Cancer of larynx . . . . .	155
162	Cancer of trachea, bronchus and lung . . . . .	5,577
163	Cancer of pleura . . . . .	13
164	Cancer of thymus, heart and mediastinum . . . . .	16
165	Cancer of other and ill-defined sites within the respiratory system and intrathoracic organs . . . . .	1
170	Cancer of bone and articular cartilage . . . . .	43
171	Cancer of connective and other soft tissue . . . . .	134
172	Cancer of skin . . . . .	197
173	Other cancer of skin . . . . .	59
174	Cancer of female breast . . . . .	1,692
175	Cancer of male breast . . . . .	13
179	Cancer of uterus, part unspecified . . . . .	118
180	Cancer of cervix uteri . . . . .	143
181	Cancer of placenta . . . . .	2
182	Cancer of body of uterus . . . . .	128
183	Cancer of ovary and other uterine adnexa . . . . .	456
184	Cancer of other and unspecified female genital organs . . . . .	47
185	Cancer of prostate . . . . .	1,237
186	Cancer of testis . . . . .	12
187	Cancer of penis and other male genital organs . . . . .	10
188	Cancer of bladder . . . . .	404
189	Cancer of kidney and other and unspecified urinary organs . . . . .	447
190	Cancer of eye . . . . .	11
191	Cancer of brain . . . . .	463
192	Cancer of other and unspecified parts of nervous system . . . . .	11
193	Cancer of thyroid gland . . . . .	35
194	Cancer of other endocrine glands and related structures . . . . .	22

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.16 (continued)  
 Number of Deaths by Cause  
 Michigan Residents, 1995

ICD List Number	Cause of Death	Number
195	Cancer of other and ill-defined sites . . . . .	159
199	Cancer without specification of site . . . . .	1,101
200	Lymphosarcoma and reticulosarcoma . . . . .	33
201	Hodgkin's disease . . . . .	64
202	Other cancer of lymphoid and histiocytic tissue . . . . .	798
203	Multiple myeloma and immunoproliferative neoplasms . . . . .	403
204	Lymphoid leukemia . . . . .	213
205	Myeloid leukemia . . . . .	293
206	Monocytic leukemia . . . . .	11
207	Other specified leukemia . . . . .	5
208	Leukemia of unspecified cell type . . . . .	179
211	Benign neoplasm of other parts of digestive system . . . . .	5
212	Benign neoplasm of respiratory and intrathoracic organs . . . . .	3
215	Other benign neoplasm of connective and other soft tissue . . . . .	2
216	Benign neoplasm of skin . . . . .	2
218	Uterine leiomyoma . . . . .	2
220	Benign neoplasm of ovary . . . . .	1
223	Benign neoplasm of kidney and other urinary organs . . . . .	1
224	Benign neoplasm of eye . . . . .	2
225	Benign neoplasm of brain and other parts of nervous system . . . . .	40
227	Benign neoplasm of other endocrine glands and related structures . . . . .	6
228	Hemangioma and lymphangioma, any site . . . . .	4
229	Benign neoplasm of other and unspecified sites . . . . .	1
230	Carcinoma in situ of digestive organs . . . . .	1
235	Neoplasm of uncertain behavior of digestive and respiratory systems . . . . .	7
237	Neoplasm of uncertain behavior of endocrine glands and nervous system . . . . .	9
238	Neoplasm of uncertain behavior of other and unspecified sites and tissues . . . . .	62
239	Neoplasm of unspecified nature . . . . .	86
<b>III. ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES AND IMMUNITY DISORDERS (240-279)</b>		
242	Thyrotoxicosis with or without goiter . . . . .	8
244	Acquired hypothyroidism . . . . .	35
246	Other disorders of thyroid . . . . .	1
250	Diabetes mellitus . . . . .	2,247
251	Other disorders of pancreatic internal secretion . . . . .	8
252	Disorders of parathyroid gland . . . . .	4
253	Disorders of the pituitary gland and its hypothalamic control . . . . .	10
255	Disorders of adrenal glands . . . . .	5
259	Other endocrine disorders . . . . .	4
260	Kwashiorkor . . . . .	3
261	Nutritional marasmus . . . . .	6
262	Other severe protein-caloric malnutrition . . . . .	1
263	Other and unspecified protein-calorie malnutrition . . . . .	123
268	Vitamin D deficiency . . . . .	1
269	Other nutritional deficiencies . . . . .	2
270	Disorders of amino-acid transport and metabolism . . . . .	2
272	Disorders of lipid metabolism . . . . .	111
273	Disorders of plasma protein metabolism . . . . .	23
274	Gout . . . . .	1

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.16 (continued)  
 Number of Deaths by Cause  
 Michigan Residents, 1995

ICD List Number	Cause of Death	Number
275	Disorders of mineral metabolism . . . . .	18
276	Disorders of fluid, electrolyte and acid-base balance . . . . .	278
277	Other and unspecified disorders of metabolism . . . . .	85
278	Obesity and other hyperalimentation . . . . .	76
279	Disorders involving the immune mechanism . . . . .	37
<b>IV. DISEASES OF BLOOD AND BLOOD-FORMING ORGANS (280-289)</b>		
280	Iron deficiency anemias . . . . .	3
281	Other deficiency anemias . . . . .	4
282	Hereditary hemolytic anemias . . . . .	30
283	Acquired hemolytic anemias . . . . .	12
284	Aplastic anemias . . . . .	49
285	Other and unspecified anemia . . . . .	71
286	Coagulation defects . . . . .	49
287	Purpura and other hemorrhagic conditions . . . . .	30
288	Diseases of white blood cells . . . . .	18
289	Other diseases of blood and blood-forming organs . . . . .	120
<b>V. MENTAL DISORDERS (290-319)</b>		
290	Senile and presenile organic psychotic conditions . . . . .	578
291	Alcoholic psychoses . . . . .	15
293	Transient organic psychotic conditions . . . . .	3
294	Other organic psychotic conditions (chronic) . . . . .	2
295	Schizophrenic disorders . . . . .	7
296	Affective psychoses . . . . .	1
298	Other nonorganic psychoses . . . . .	242
300	Neurotic disorders . . . . .	3
303	Alcohol dependence syndrome . . . . .	158
304	Drug dependence . . . . .	5
305	Nondependent abuse of drugs . . . . .	218
307	Special symptoms or syndromes, not elsewhere classified . . . . .	8
310	Specific nonpsychotic mental disorders following organic brain damage . . . . .	65
311	Depressive disorder, not elsewhere classified . . . . .	21
318	Other specified mental retardation . . . . .	5
319	Unspecified mental retardation . . . . .	13
<b>VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS (320-389)</b>		
320	Bacterial meningitis . . . . .	12
322	Meningitis of unspecified cause . . . . .	7
323	Encephalitis, myelitis and encephalomyelitis . . . . .	9
324	Intracranial and intraspinal abscess . . . . .	5
325	Phlebitis and thrombophlebitis of intracranial venous sinuses . . . . .	1
326	Late effects of intracranial abscess or pyogenic infection . . . . .	1
330	Cerebral degenerations usually manifest in childhood . . . . .	10
331	Other cerebral degenerations . . . . .	639
332	Parkinson's disease . . . . .	374
333	Other extrapyramidal disease and abnormal movement disorders . . . . .	35
334	Spinocerebellar disease . . . . .	13
335	Anterior horn cell disease . . . . .	180

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.16 (continued)  
 Number of Deaths by Cause  
 Michigan Residents, 1995

ICD List Number	Cause of Death	Number
336	Other diseases of spinal cord . . . . .	5
340	Multiple sclerosis . . . . .	118
341	Other demyelinating diseases of central nervous system . . . . .	1
342	Hemiplegia . . . . .	9
343	Infantile cerebral palsy . . . . .	44
344	Other paralytic syndromes . . . . .	21
345	Epilepsy . . . . .	128
346	Migraine . . . . .	1
348	Other conditions of brain . . . . .	157
349	Other and unspecified disorders of the nervous system . . . . .	8
352	Disorders of other cranial nerves . . . . .	1
355	Monneuritis of lower limb . . . . .	1
356	Hereditary and idiopathic peripheral neuropathy . . . . .	29
357	Inflammatory and toxic neuropathy . . . . .	7
358	Myoneural disorders . . . . .	16
359	Muscular dystrophies and other myopathies . . . . .	39
382	Suppurative and unspecified otitis media . . . . .	1
384	Other disorders of tympanic membrane . . . . .	1
<b>VII. DISEASES OF THE CIRCULATORY SYSTEM (390-459)</b>		
391	Rheumatic fever with heart involvement . . . . .	7
392	Rheumatic chorea . . . . .	1
394	Diseases of mitral valve . . . . .	85
395	Diseases of aortic valve . . . . .	5
396	Diseases of mitral and aortic valves . . . . .	18
397	Diseases of other endocardial structures . . . . .	15
398	Other rheumatic heart disease . . . . .	38
401	Essential hypertension . . . . .	210
402	Hypertensive heart disease . . . . .	888
403	Hypertensive renal disease . . . . .	215
404	Hypertensive heart and renal disease . . . . .	81
410	Acute myocardial infarction . . . . .	8,798
411	Other acute and subacute forms of ischemic heart disease . . . . .	25
412	Old myocardial infarction . . . . .	14
413	Angina pectoris . . . . .	30
414	Other forms of chronic ischemic heart disease . . . . .	9,423
415	Acute pulmonary heart disease . . . . .	253
416	Chronic pulmonary heart disease . . . . .	116
417	Other diseases of pulmonary circulation . . . . .	5
421	Acute and subacute endocarditis . . . . .	37
422	Acute myocarditis . . . . .	13
423	Other diseases of pericardium . . . . .	16
424	Other diseases of endocardium . . . . .	555
425	Cardiomyopathy . . . . .	1,097
426	Conduction disorders . . . . .	14
427	Cardiac dysrhythmias . . . . .	859
428	Heart failure . . . . .	1,799
429	Ill-defined descriptions and complications of heart disease . . . . .	3,815
430	Subarachnoid hemorrhage . . . . .	259
431	Intracerebral hemorrhage . . . . .	672

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.16 (continued)  
 Number of Deaths by Cause  
 Michigan Residents, 1995

ICD List Number	Cause of Death	Number
432	Other and unspecified intracranial hemorrhage . . . . .	175
433	Occlusion and stenosis of precerebral arteries . . . . .	55
434	Occlusion of cerebral arteries . . . . .	816
435	Transient cerebral ischemia . . . . .	11
436	Acute but ill-defined cerebrovascular disease . . . . .	2,971
437	Other and ill-defined cerebrovascular disease . . . . .	448
438	Late effects of cerebrovascular disease . . . . .	450
440	Atherosclerosis . . . . .	754
441	Aortic aneurysm . . . . .	647
442	Other aneurysm . . . . .	21
443	Other peripheral vascular disease . . . . .	202
444	Arterial embolism and thrombosis . . . . .	50
446	Polyarteritis nodosa and allied conditions . . . . .	37
447	Other disorders of arteries and arterioles . . . . .	69
448	Diseases of capillaries . . . . .	1
451	Phlebitis and thrombophlebitis . . . . .	114
452	Portal vein thrombosis . . . . .	1
453	Other venous embolism and thrombosis . . . . .	17
454	Varicose veins of lower extremities . . . . .	3
456	Varicose veins of other sites . . . . .	7
457	Noninfective disorders of lymphatic channels . . . . .	2
458	Hypotension . . . . .	31
459	Other disorders of circulatory system . . . . .	26
<b>VIII. DISEASES OF THE RESPIRATORY SYSTEM (460-519)</b>		
461	Acute sinusitis . . . . .	1
464	Acute laryngitis and tracheitis . . . . .	3
465	Acute upper respiratory infections of multiple or unspecified sites . . . . .	3
466	Acute bronchitis and bronchiolitis . . . . .	24
472	Chronic pharyngitis and nasopharyngitis . . . . .	1
473	Chronic sinusitis . . . . .	2
478	Other diseases of upper respiratory tract . . . . .	7
480	Viral pneumonia . . . . .	9
481	Pneumococcal pneumonia . . . . .	74
482	Other bacterial pneumonia . . . . .	79
483	Pneumonia due to other specified organism . . . . .	2
485	Bronchopneumonia, organism unspecified . . . . .	89
486	Pneumonia, organism unspecified . . . . .	2,720
487	Influenza . . . . .	29
490	Bronchitis, not specified as acute or chronic . . . . .	18
491	Chronic bronchitis . . . . .	102
492	Emphysema . . . . .	760
493	Asthma . . . . .	216
494	Bronchiectasis . . . . .	29
496	Chronic airways obstruction, not elsewhere classified . . . . .	2,464
500	Coal workers' pneumoconiosis . . . . .	3
501	Asbestosis . . . . .	9
502	Pneumoconiosis due to other silica or silicates . . . . .	4
505	Pneumoconiosis, unspecified . . . . .	2
506	Respiratory conditions due to chemical fumes and vapours . . . . .	1

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.16 (continued)  
 Number of Deaths by Cause  
 Michigan Residents, 1995

ICD List Number	Cause of Death	Number
507	Pneumonitis due to solids and liquids . . . . .	267
508	Respiratory conditions due to other and unspecified external agents . . . . .	3
510	Empyema . . . . .	5
511	Pleurisy . . . . .	32
512	Pneumothorax . . . . .	8
513	Abscess of lung and mediastinum . . . . .	13
514	Pulmonary congestion and hypostasis . . . . .	20
515	Postinflammatory pulmonary fibrosis . . . . .	301
516	Other alveolar and parietoalveolar pneumopathy . . . . .	32
518	Other diseases of lung . . . . .	191
519	Other diseases of respiratory system . . . . .	25
<b>IX. DISEASES OF THE DIGESTIVE SYSTEM (520-579)</b>		
522	Diseases of pulp and periapical tissues . . . . .	1
527	Diseases of the salivary glands . . . . .	1
530	Diseases of esophagus . . . . .	57
531	Gastric ulcer . . . . .	70
532	Duodenal ulcer . . . . .	45
533	Peptic ulcer, site unspecified . . . . .	86
534	Gastrojejunal ulcer . . . . .	2
535	Gastritis and duodenitis . . . . .	21
536	Disorders of function of stomach . . . . .	2
537	Other disorders of stomach and duodenum . . . . .	8
540	Acute appendicitis . . . . .	14
541	Appendicitis, unqualified . . . . .	1
550	Inguinal hernia . . . . .	11
551	Other hernia of abdominal cavity, with gangrene . . . . .	1
552	Other hernia of abdominal cavity with obstruction, without mention of gangrene . . . . .	22
553	Other hernia of abdominal cavity without mention of obstruction or gangrene . . . . .	24
555	Regional enteritis . . . . .	13
556	Idiopathic proctocolitis . . . . .	12
557	Vascular insufficiency of intestine . . . . .	282
558	Other noninfective gastroenteritis and colitis . . . . .	51
560	Intestinal obstruction without mention of hernia . . . . .	178
562	Diverticula of intestine . . . . .	126
564	Functional digestive disorders, not elsewhere classified . . . . .	13
566	Abscess of anal and rectal regions . . . . .	3
567	Peritonitis . . . . .	61
568	Other disorders of peritoneum . . . . .	6
569	Other disorders of intestine . . . . .	71
570	Acute and subacute necrosis of liver . . . . .	12
571	Chronic liver disease and cirrhosis . . . . .	1,002
572	Liver abscess and sequelae of chronic liver disease . . . . .	138
573	Other disorders of liver . . . . .	72
574	Cholelithiasis . . . . .	30
575	Other disorders of gallbladder . . . . .	36
576	Other disorders of biliary tract . . . . .	31
577	Diseases of pancreas . . . . .	122
578	Gastrointestinal hemorrhage . . . . .	243
579	Intestinal malabsorption . . . . .	5

Source: Office of the State Registrar and Division of Health Statistics, MDCH



Table 4.16 (continued)  
 Number of Deaths by Cause  
 Michigan Residents, 1995

ICD List Number	Cause of Death	Number
<b>X. DISEASES OF THE GENITOURINARY SYSTEM (580-629)</b>		
580	Acute glomerulonephritis . . . . .	4
581	Nephrotic syndrome . . . . .	8
582	Chronic glomerulonephritis . . . . .	38
583	Nephritis and nephropathy, not specified as acute or chronic . . . . .	13
584	Acute renal failure . . . . .	155
585	Chronic renal failure . . . . .	244
586	Renal failure, unspecified . . . . .	459
587	Renal sclerosis, unspecified . . . . .	1
588	Disorders resulting from impaired renal function . . . . .	6
590	Infections of kidney . . . . .	18
591	Hydronephrosis . . . . .	6
592	Calculus of kidney and ureter . . . . .	12
593	Other disorders of kidney and ureter . . . . .	131
594	Calculus of lower urinary tract . . . . .	1
595	Cystitis . . . . .	6
596	Other disorders of bladder . . . . .	6
598	Urethral stricture . . . . .	1
599	Other disorders of urethra and urinary tract . . . . .	464
600	Hyperplasia of prostate . . . . .	8
601	Inflammatory diseases of prostate . . . . .	3
602	Other disorders of prostate . . . . .	2
604	Orchitis and epididymitis . . . . .	2
608	Other disorders of male genital organs . . . . .	5
611	Other disorders of breast . . . . .	1
614	Inflammatory disease of ovary, fallopian tube, pelvic cellular tissue and peritoneum . . . . .	6
619	Fistula involving female genital tract . . . . .	2
621	Disorders of uterus, not elsewhere classified . . . . .	1
623	Noninflammatory disorders of vagina . . . . .	1
<b>XI. COMPLICATIONS OF PREGNANCY, CHILDBIRTH, AND THE PUERPERIUM (630-676)</b>		
633	Ectopic pregnancy, . . . . .	1
637	Unspecified abortion . . . . .	1
641	Antepartum Haemorrhage, abruptio placentae, and placenta praevia . . . . .	2
642	Hypertension complicating pregnancy, childbirth and the puerperium . . . . .	1
647	Infective and parasitic conditions in the mother classifiable elsewhere but complicating pregnancy, childbirth and the puerperium . . . . .	1
670	Major puerperal infection . . . . .	1
673	Obstetrical pulmonary embolism . . . . .	2
674	Other and unspecified complications of the puerperium, not elsewhere classified . . . . .	2
<b>XII. DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE (680-709)</b>		
682	Other cellulitis and abscess . . . . .	29
686	Other local infections of skin and subcutaneous tissue . . . . .	7
693	Dermatitis due to substances taken internally . . . . .	1
694	Bullous dermatoses . . . . .	9
695	Erythematous conditions . . . . .	7
707	Chronic ulcer of skin . . . . .	89

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.16 (continued)  
 Number of Deaths by Cause  
 Michigan Residents, 1995

ICD List Number	Cause of Death	Number
<b>XIII. DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE (710-739)</b>		
710	Diffuse diseases of connective tissue . . . . .	110
711	Arthropathy associated with infections . . . . .	5
714	Rheumatoid arthritis and other inflammatory polyarthropathies . . . . .	86
715	Osteoarthritis and allied disorders . . . . .	21
716	Other and unspecified arthropathies . . . . .	9
721	Spondylosis and allied disorders . . . . .	2
722	Invertebral disc disorders . . . . .	3
723	Other disorders of cervical region . . . . .	3
725	Polymyalgia rheumatica . . . . .	4
728	Disorders of muscle, ligament and fascia . . . . .	9
729	Other disorders of soft tissues . . . . .	9
730	Osteomyelitis, periostitis and other infections involving bone . . . . .	39
731	Osteitis deformans and osteopathies associated with other disorders classified elsewhere . . . . .	5
733	Other disorders of bone and cartilage . . . . .	27
737	Curvature of spine . . . . .	10
<b>XIV. CONGENITAL ANOMALIES (740-759)</b>		
740	Anencephalus and similar anomalies . . . . .	9
741	Spina bifida . . . . .	7
742	Other congenital anomalies of nervous system . . . . .	70
745	Bulbus cordis anomalies and anomalies of cardiac septal closure . . . . .	35
746	Other congenital anomalies of heart . . . . .	96
747	Other congenital anomalies of circulatory system . . . . .	40
748	Congenital anomalies of respiratory system . . . . .	45
750	Other congenital anomalies of upper alimentary tract . . . . .	1
751	Other congenital anomalies of digestive system . . . . .	8
753	Congenital anomalies of urinary system . . . . .	28
756	Other congenital musculoskeletal anomalies . . . . .	18
757	Congenital anomalies of the integument . . . . .	3
758	Chromosomal anomalies . . . . .	44
759	Other and unspecified congenital anomalies . . . . .	28
<b>XV. CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD (760-779)</b>		
760	Fetus or newborn affected by maternal conditions which may be unrelated to present pregnancy . . . . .	9
761	Fetus or newborn affected by maternal complications of pregnancy . . . . .	47
762	Fetus or newborn affected by complications of placenta, cord and membranes . . . . .	33
763	Fetus or newborn affected by other complications of labor and delivery . . . . .	2
764	Slow fetal growth and fetal malnutrition . . . . .	2
765	Disorders relating to short gestation and unspecified low birthweight . . . . .	220
767	Birth trauma . . . . .	8
768	Intrauterine hypoxia and birth asphyxia . . . . .	12
769	Respiratory distress syndrome . . . . .	82
770	Other respiratory conditions of fetus and newborn . . . . .	64
771	Infections specific to the perinatal period . . . . .	24
772	Fetal and neonatal hemorrhage . . . . .	14

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.16 (continued)  
 Number of Deaths by Cause  
 Michigan Residents, 1995

ICD List Number	Cause of Death	Number
773	Hemolytic disease of fetus or newborn, due to isoimmunization . . . . .	1
775	Endocrine and metabolic disturbances specific to the fetus and newborn . . . . .	2
776	Hematological disorders of fetus and newborn . . . . .	5
777	Perinatal disorders of digestive system . . . . .	12
778	Conditions involving the integument and temperature regulation of fetus and newborn . . . . .	5
779	Other and ill-defined conditions originating in the perinatal period . . . . .	14
<b>XVI. SYMPTOMS, SIGNS AND ILL-DEFINED CONDITIONS (780-799)</b>		
780	General symptoms . . . . .	22
781	Symptoms involving nervous and musculoskeletal systems . . . . .	1
785	Symptoms involving cardiovascular system . . . . .	13
786	Symptoms involving respiratory system and other chest symptoms . . . . .	2
789	Other symptoms involving abdomen and pelvis . . . . .	1
790	Nonspecific findings on examination of blood . . . . .	3
797	Senility without mention of psychosis . . . . .	13
798	Sudden death, cause unknown . . . . .	162
799	Other ill-defined and unknown causes of morbidity and mortality . . . . .	112
<b>XVII. EXTERNAL CAUSES OF INJURY AND POISONING (E800-E999)</b>		
E805	Hit by rolling stock [railway] . . . . .	14
E810	Motor vehicle traffic accident involving collision with train . . . . .	5
E811	Motor vehicle traffic accident involving re-entrant collision with another motor vehicle . . . . .	1
E812	Other motor vehicle traffic accident involving collision with another motor vehicle . . . . .	721
E813	Motor vehicle traffic accident involving collision with other vehicle . . . . .	27
E814	Motor vehicle traffic accident involving collision with pedestrian . . . . .	203
E815	Other motor vehicle traffic accident involving collision on the highway . . . . .	181
E816	Motor vehicle traffic accident due to loss of control, without collision on the highway . . . . .	172
E817	Noncollision motor vehicle traffic accident while boarding or alighting . . . . .	1
E818	Other noncollision motor vehicle traffic accident . . . . .	12
E819	Motor vehicle traffic accident of unspecified nature . . . . .	242
E820	Nontraffic accident involving motor-driven snow vehicle . . . . .	19
E821	Nontraffic accident involving other off-road motor vehicle . . . . .	7
E822	Other motor vehicle nontraffic accident involving collision with moving object . . . . .	9
E825	Other motor vehicle nontraffic accident of other and unspecified nature . . . . .	1
E826	Pedal cycle accident . . . . .	5
E827	Animal-drawn vehicle accident . . . . .	1
E828	Accident involving animal being ridden . . . . .	4
E829	Other road vehicle accidents . . . . .	1
E830	Accident to watercraft causing submersion . . . . .	9
E831	Accident to watercraft causing other injury . . . . .	5
E832	Other accidental submersion or drowning in water transport accident . . . . .	10
E840	Accident to powered aircraft at takeoff or landing . . . . .	1
E841	Accident to powered aircraft, other and unspecified . . . . .	10
E844	Other specified air transport accidents . . . . .	1
E850	Accidental poisoning by analgesics, antipyretics, antirheumatics . . . . .	22
E852	Accidental poisoning by other sedatives and hypnotics . . . . .	1
E853	Accidental poisoning by tranquilizers . . . . .	6
E854	Accidental poisoning by other psychotropic agents . . . . .	5
E855	Accidental poisoning by other drugs acting on central and autonomic nervous systems . . . . .	10
E858	Accidental poisoning by other drugs . . . . .	51

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.16 (continued)  
 Number of Deaths by Cause  
 Michigan Residents, 1995

ICD List Number	Cause of Death	Number
E860	Accidental poisoning by alcohol, not elsewhere classified . . . . .	3
E862	Accidental poisoning by petroleum products, other solvents and their vapours, not elsewhere classified . . . . .	1
E864	Accidental poisoning by corrosives and caustics, not elsewhere classified . . . . .	1
E866	Accidental poisoning by other and unspecified solid and liquid substances . . . . .	4
E868	Accidental poisoning by other utility gas and other carbon monoxide . . . . .	22
E869	Accidental poisoning by other gases and vapors . . . . .	1
E870	Accidental cut, puncture, perforation or hemorrhage during medical care . . . . .	6
E876	Other and unspecified misadventures during medical care . . . . .	3
E878	Surgical operation and other surgical procedures as the cause of abnormal reaction of patient, or of later complication, without mention of misadventure at the time of procedure . . . . .	67
E879	Other procedures, without mention of misadventure at the time of procedure, as the cause of abnormal reaction of patient, or of misadventure at the time of procedure . . . . .	25
E880	Fall on or from stairs or steps . . . . .	46
E881	Fall on or from ladders or scaffolding . . . . .	14
E882	Fall from or out of building or other structure . . . . .	10
E883	Fall into hole or other opening in surface . . . . .	6
E884	Other fall from level to another . . . . .	22
E885	Fall on same level from slipping, tripping or stumbling . . . . .	16
E887	Fracture, cause unspecified . . . . .	135
E888	Other and unspecified fall . . . . .	235
E890	Conflagration in private dwelling . . . . .	140
E892	Conflagration not in building or structure . . . . .	1
E893	Accident caused by ignition of clothing . . . . .	4
E896	Accident caused by controlled fire in other and unspecified building or structure . . . . .	1
E898	Accident caused by other specified fire and flames . . . . .	5
E899	Accident caused by unspecified fire . . . . .	7
E900	Excessive heat . . . . .	25
E901	Excessive cold . . . . .	25
E904	Hunger, thirst, exposure, neglect . . . . .	9
E905	Venomous animals and plants as the cause of poisoning and toxic reactions . . . . .	7
E906	Other injury caused by animals . . . . .	1
E907	Lightning . . . . .	2
E910	Accidental drowning and submersion . . . . .	114
E911	Inhalation and ingestion of food causing obstruction of respiratory tract or suffocation . . . . .	37
E912	Inhalation and ingestion of other object causing obstruction of respiratory tract or suffocation . . . . .	59
E913	Accidental mechanical suffocation . . . . .	57
E915	Foreign body accidentally entering other orifice . . . . .	1
E916	Struck accidentally by falling object . . . . .	20
E917	Striking against or struck accidentally by objects or persons . . . . .	11
E918	Caught accidentally in or between objects . . . . .	5
E919	Accidents caused by machinery . . . . .	34
E920	Accidents caused by cutting and piercing instruments or objects . . . . .	2
E922	Accident caused by firearm missile . . . . .	28
E923	Accident caused by explosive material . . . . .	7
E924	Accident caused by hot substance or object, caustic or corrosive material and steam . . . . .	5
E925	Accident caused by electric current . . . . .	14
E928	Other and unspecified environmental and accidental causes . . . . .	93
E929	Late effects of accidental injury . . . . .	39
E930	Adverse effects in therapeutic use of antibiotics . . . . .	1

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.16 (continued)  
 Number of Deaths by Cause  
 Michigan Residents, 1995

ICD List Number	Cause of Death	Number
E934	Adverse effects in therapeutic use of agents primarily affecting blood constituents . . . . .	2
E936	Adverse effects in therapeutic use of anticonvulsants and anti-Parkinsonism drugs . . . . .	1
E938	Adverse effects in therapeutic use of other central nervous system depressants . . . . .	2
E939	Adverse effects in therapeutic use of psychotropic agents . . . . .	1
E942	Adverse effects in therapeutic use of agents primarily affecting the cardiovascular system . . . . .	1
E947	Adverse effects in therapeutic use of other and unspecified drugs and medicaments [medicinal substances] . . . . .	2
E950	Suicide and self-inflicted poisoning by solid or liquid substance . . . . .	90
E951	Suicide and self-inflicted poisoning by gases in domestic use . . . . .	1
E952	Suicide and self-inflicted poisoning by other gases and vapors . . . . .	79
E953	Suicide and self-inflicted injury by hanging, strangulation and suffocation . . . . .	169
E954	Suicide and self-inflicted injury by submersion [drowning] . . . . .	10
E955	Suicide and self-inflicted injury by firearms and explosives . . . . .	572
E956	Suicide and self-inflicted injury by cutting and piercing instrument . . . . .	13
E957	Suicide and self-inflicted injuries by jumping from high place . . . . .	9
E958	Suicide and self-inflicted injury by other and unspecified means . . . . .	25
E959	Late effects of self-inflicted injury . . . . .	1
E960	Homicide by fight, brawl, rape . . . . .	3
E962	Homicide by poisoning . . . . .	2
E963	Homicide by hanging and strangulation . . . . .	21
E964	Homicide by submersion [drowning] . . . . .	7
E965	Homicide by firearms and explosives . . . . .	662
E966	Homicide by cutting and piercing instrument . . . . .	96
E967	Homicide by child battering and other maltreatment . . . . .	16
E968	Homicide by other and unspecified means . . . . .	122
E969	Homicide by late effects of injury purposely inflicted by other persons . . . . .	9
E970	Injury due to legal intervention by firearms . . . . .	5
E980	Poisoning by solid or liquid substances, undetermined whether accidentally or purposely inflicted . . . . .	85
E982	Poisoning by other gases, undetermined whether accidentally or purposely inflicted . . . . .	5
E983	Hanging, strangulation or suffocation, undetermined whether accidentally or purposely inflicted . . . . .	2
E984	Submersion [drowning], undetermined whether accidentally or purposely inflicted . . . . .	10
E985	Injury by firearms and explosives, undetermined whether accidentally or purposely inflicted . . . . .	15
E986	Injury cutting and piercing instruments, undetermined whether accidentally or purposely inflicted . . . . .	1
E987	Falling from high place, undetermined whether accidentally or purposely inflicted . . . . .	2
E988	Injury by other and unspecified means, undetermined whether accidentally or purposely inflicted . . . . .	14

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.17  
**Population Changes by County**  
 Michigan, 1984 and 1994

Area	Population Estimate July 1, 1984	Population Estimate July 1, 1994	Net Change	Percent Change	Natural Increase	Estimated Net Migration
Michigan	9,049,454	9,496,073	446,619	4.9	631,453	-184,834
Alcona	9,858	10,380	522	5.3	-432	954
Alger	8,965	9,818	853	9.5	-119	972
Allegan	83,592	96,088	12,496	14.9	7,242	5,254
Alpena	31,250	30,806	-444	-1.4	720	-276
Antrim	16,837	19,526	2,689	16.0	414	2,275
Arenac	14,781	15,952	1,171	7.9	342	829
Baraga	8,247	8,054	-193	-2.3	8	185
Barry	47,040	52,234	5,194	11.0	3,097	2,097
Bay	116,677	111,774	-4,903	-4.2	6,106	-1,203
Benzie	11,312	13,271	1,959	17.3	328	1,631
Berrien	163,308	161,748	-1,560	-1.0	9,406	-7,846
Branch	38,844	41,972	3,128	8.1	2,152	976
Calhoun	135,682	139,993	4,311	3.2	7,044	-2,733
Cass	48,549	48,911	362	0.7	1,544	-1,182
Charlevoix	19,816	22,826	3,010	15.2	1,154	1,856
Cheboygan	20,769	22,469	1,700	8.2	467	1,233
Chippewa	29,488	36,590	7,102	24.1	1,061	6,041
Clare	24,105	27,602	3,497	14.5	605	2,892
Clinton	55,424	60,891	5,467	9.9	4,565	902
Crawford	10,401	13,394	2,993	28.8	517	2,476
Delta	38,880	38,599	-281	-0.7	1,130	-849
Dickinson	26,086	27,044	958	3.7	400	558
Eaton	87,868	96,810	8,942	10.2	5,841	3,101
Emmet	23,551	27,042	3,491	14.8	1,232	2,259
Genesee	430,254	433,302	3,048	0.7	34,939	-31,891
Gladwin	20,730	23,945	3,215	15.5	513	2,702
Gogebic	19,628	18,001	-1,627	-8.3	-788	2,415
Grand Traverse	57,415	69,597	12,182	21.2	4,474	7,708
Gratiot	39,350	39,779	429	1.1	1,567	-1,138
Hillsdale	41,614	44,830	3,216	7.7	2,402	814
Houghton	37,441	36,369	-1,072	-2.9	256	816
Huron	35,893	35,203	-690	-1.9	778	-88
Ingham	269,570	278,435	8,865	3.3	26,456	-17,591
Ionia	52,433	59,191	6,758	12.9	4,247	2,511
Iosco	30,361	24,016	-6,345	-20.9	2,047	4,298
Iron	13,964	13,118	-846	-6.1	-776	1,622
Isabella	54,130	57,047	2,917	5.4	3,610	-693
Jackson	145,374	153,282	7,908	5.4	8,628	-720
Kalamazoo	212,995	228,797	15,802	7.4	17,018	-1,216
Kalkaska	11,860	14,541	2,681	22.6	897	1,784

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.17 (continued)  
**Population Changes by County**  
 Michigan, 1984 and 1994

Area	Population Estimate July 1, 1984	Population Estimate July 1, 1994	Net Change	Percent Change	Natural Increase	Estimated Net Migration
Kent	457,944	520,130	62,186	13.6	54,248	7,938
Keweenaw	1,993	1,878	-115	-5.8	-160	275
Lake	8,189	9,632	1,443	17.6	-180	1,623
Lapeer	69,079	81,249	12,170	17.6	5,645	6,525
Leelanau	14,752	18,135	3,383	22.9	800	2,583
Lenawee	87,665	95,674	8,009	9.1	5,159	2,850
Livingston	100,243	129,066	28,823	28.8	8,885	19,938
Luce	5,994	5,563	-431	-7.2	53	378
Mackinac	10,379	10,911	532	5.1	151	381
Macomb	687,270	728,556	41,286	6.0	40,612	674
Manistee	22,061	22,632	571	2.6	-181	752
Marquette	72,287	70,684	-1,603	-2.2	4,924	-3,321
Mason	25,916	27,219	1,303	5.0	584	719
Mecosta	36,358	38,614	2,256	6.2	1,688	568
Menominee	26,097	24,525	-1,572	-6.0	297	1,275
Midland	75,835	79,235	3,400	4.5	6,365	-2,965
Missaukee	10,730	13,353	2,623	24.4	606	2,017
Monroe	130,851	137,708	6,857	5.2	8,278	-1,421
Montcalm	49,602	56,889	7,287	14.7	3,521	3,766
Montmorency	7,804	9,514	1,710	21.9	-401	2,111
Muskegon	154,844	163,439	8,595	5.6	11,358	-2,763
Newaygo	35,571	42,734	7,163	20.1	2,831	4,332
Oakland	1,007,281	1,142,000	134,719	13.4	78,397	56,322
Oceana	21,688	23,489	1,801	8.3	1,437	364
Ogemaw	17,289	20,247	2,958	17.1	237	2,721
Ontonagon	9,600	8,665	-935	-9.7	-193	1,128
Osceola	19,651	21,364	1,713	8.7	1,068	645
Oscoda	7,162	8,497	1,335	18.6	9	1,326
Otsego	15,458	20,112	4,654	30.1	1,130	3,524
Ottawa	165,064	205,351	40,287	24.4	19,439	20,848
Presque Isle	13,787	14,020	233	1.7	-84	317
Roscommon	17,647	21,890	4,243	24.0	-540	4,783
Saginaw	216,710	211,286	-5,424	-2.5	16,068	-10,644
St Clair	137,732	152,358	14,626	10.6	8,071	6,555
St Joseph	57,575	59,992	2,417	4.2	3,614	-1,197
Sanilac	39,761	41,565	1,804	4.5	1,223	581
Schoolcraft	8,565	8,599	34	0.4	-31	65
Shiawassee	69,175	71,633	2,458	3.6	4,656	-2,198
Tuscola	55,444	57,006	1,562	2.8	3,094	-1,532
Van Buren	66,515	73,852	7,337	11.0	4,494	2,843
Washtenaw	260,737	290,538	29,801	11.4	24,867	4,934
Wayne	2,181,158	2,064,914	-116,244	-5.3	146,841	-30,597
Wexford	25,649	28,108	2,459	9.6	1,508	951

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.18  
Population by Age, Race and Sex  
Michigan Residents, 1994

Age in Years	All Races			White			Black			All Other Races		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
< 1	134,476	68,753	65,723	101,372	51,851	49,521	29,797	15,174	14,623	3,307	1,728	1,579
1-4	566,623	289,578	277,045	451,267	231,233	220,034	100,883	50,928	49,955	14,473	7,417	7,056
5-9	706,838	362,079	344,759	579,038	297,544	281,494	109,929	55,534	54,395	17,871	9,001	8,870
10-14	708,141	362,237	345,904	566,775	291,055	275,720	123,110	62,066	61,044	18,256	9,116	9,140
15-19	667,799	340,012	327,787	517,963	265,102	252,861	131,109	65,323	65,786	18,727	9,587	9,140
20-24	673,021	333,916	339,105	545,876	273,451	272,425	109,556	51,377	58,179	17,589	9,088	8,501
25-29	674,317	332,413	341,904	563,788	281,578	282,210	94,231	42,626	51,605	16,298	8,209	8,089
30-34	782,393	383,890	398,503	656,828	326,932	329,896	109,666	48,851	60,815	15,899	8,107	7,792
35-39	809,206	399,051	410,155	677,643	340,272	337,371	115,451	51,156	64,295	16,112	7,623	8,489
40-44	730,118	359,443	370,675	615,673	307,524	308,149	99,032	45,133	53,899	15,413	6,786	8,627
45-49	611,290	300,639	310,651	526,681	261,256	265,425	72,360	33,407	38,953	12,249	5,976	6,273
50-54	489,932	238,774	251,158	426,114	209,843	216,271	54,750	24,221	30,529	9,068	4,710	4,358
55-59	398,667	191,567	207,100	345,213	168,063	177,150	47,947	20,833	27,114	5,507	2,671	2,836
60-64	363,463	173,582	189,881	317,136	153,179	163,957	42,423	18,687	23,736	3,904	1,716	2,188
65-69	364,873	167,242	197,631	320,495	147,484	173,011	41,378	18,415	22,963	3,000	1,343	1,657
70-74	308,408	132,972	175,436	274,396	118,811	155,585	31,893	13,313	18,580	2,119	848	1,271
75-79	235,295	93,717	141,578	209,834	83,967	125,867	23,964	9,142	14,822	1,497	608	889
80-84	149,790	53,284	96,506	135,078	47,784	87,294	13,833	5,086	8,747	879	414	465
85 +	121,423	33,652	87,771	108,877	29,514	79,363	12,030	3,928	8,102	516	210	306
Total	9,496,073	4,616,801	4,879,272	7,940,047	3,886,443	4,053,604	1,363,342	635,200	728,142	192,684	95,158	97,526

Source: Office of the State Demographer, Michigan Department of Management and Budget.

Table 4.19  
Abridged Life Table  
Michigan Residents, 1995

Age	$nx(1)^1$	$lx(2)^1$	$ndx(3)^1$	$nLx(4)^1$	$Tx(5)^1$	$ex(6)^1$
0-1	0.00826	100,000	826	99,277	7,544,965	75.5
1-5	0.00164	99,174	162	396,322	7,445,688	75.1
5-10	0.00112	99,012	111	494,757	7,049,366	71.2
10-15	0.00098	98,902	96	494,329	6,554,609	66.3
15-20	0.00415	98,805	409	493,088	6,060,280	61.3
20-25	0.00513	98,396	504	490,747	5,567,192	56.6
25-30	0.00548	97,892	536	488,154	5,076,444	51.9
30-35	0.00679	97,356	661	485,209	4,588,290	47.1
35-40	0.00941	96,696	909	481,334	4,103,081	42.4
40-45	0.01326	95,787	1,270	475,956	3,621,747	37.8
45-50	0.01960	94,517	1,852	468,228	3,145,791	33.3
50-55	0.02789	92,665	2,584	457,301	2,677,563	28.9
55-60	0.04388	90,081	3,952	441,192	2,220,263	24.6
60-65	0.06732	86,128	5,798	417,014	1,779,070	20.7
65-70	0.10104	80,330	8,116	382,509	1,362,056	17.0
70-75	0.15658	72,214	11,307	333,948	979,548	13.6
75-80	0.22341	60,907	13,607	271,436	645,600	10.6
80-85	0.33207	47,300	15,707	197,241	374,164	7.9
85 +	1.00000	31,593	31,593	176,923	176,923	5.6

<sup>1</sup> Definitions of life table values are contained in the Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



Table 4.20  
**Abridged Life Table for Males**  
 Michigan Residents, 1995

Age	nxq(1) <sup>1</sup>	lx(2) <sup>1</sup>	ndx(3) <sup>1</sup>	nLx(4) <sup>1</sup>	Tx(5) <sup>1</sup>	ex(6) <sup>1</sup>
0-1	0.00871	100,000	871	99,231	7,246,952	72.5
1-5	0.00185	99,129	183	396,090	7,147,721	72.1
5-10	0.00127	98,945	126	494,381	6,751,631	68.2
10-15	0.00112	98,820	110	493,914	6,257,250	63.3
15-20	0.00574	98,709	566	492,265	5,763,336	58.4
20-25	0.00770	98,143	756	488,869	5,271,071	53.7
25-30	0.00793	97,387	772	485,048	4,782,202	49.1
30-35	0.00987	96,615	953	480,773	4,297,154	44.5
35-40	0.01204	95,662	1,151	475,578	3,816,381	39.9
40-45	0.01749	94,511	1,652	468,677	3,340,803	35.3
45-50	0.02554	92,858	2,371	458,671	2,872,125	30.9
50-55	0.03456	90,487	3,127	445,119	2,413,454	26.7
55-60	0.05465	87,360	4,773	425,640	1,968,335	22.5
60-65	0.08271	82,587	6,830	396,853	1,542,695	18.7
65-70	0.12596	75,757	9,542	356,219	1,145,842	15.1
70-75	0.19663	66,215	13,020	299,632	789,622	11.9
75-80	0.27911	53,195	14,847	229,419	489,991	9.2
80-85	0.40959	38,348	15,707	151,893	260,572	6.8
85 +	1.00000	22,642	22,642	108,679	108,679	4.8

<sup>1</sup> Definitions of life table values are contained in the Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.21  
**Abridged Life Table for Females**  
 Michigan Residents, 1995

Age	nxq(1) <sup>1</sup>	lx(2) <sup>1</sup>	ndx(3) <sup>1</sup>	nLx(4) <sup>1</sup>	Tx(5) <sup>1</sup>	ex(6) <sup>1</sup>
0-1	0.00773	100,000	773	99,329	7,831,918	78.3
1-5	0.00142	99,227	140	396,582	7,732,589	77.9
5-10	0.00096	99,087	95	495,173	7,336,007	74.0
10-15	0.00083	98,992	82	494,787	6,840,834	69.1
15-20	0.00249	98,910	246	493,974	6,346,047	64.2
20-25	0.00258	98,665	254	492,700	5,852,073	59.3
25-30	0.00309	98,410	303	491,319	5,359,373	54.5
30-35	0.00381	98,107	374	489,678	4,868,054	49.6
35-40	0.00683	97,734	667	487,107	4,378,376	44.8
40-45	0.00915	97,066	888	483,249	3,891,269	40.1
45-50	0.01382	96,178	1,329	477,809	3,408,020	35.4
50-55	0.02151	94,849	2,040	469,525	2,930,210	30.9
55-60	0.03382	92,810	3,139	456,768	2,460,686	26.5
60-65	0.05306	89,671	4,757	437,214	2,003,918	22.3
65-70	0.07946	84,914	6,747	408,746	1,566,704	18.5
70-75	0.12502	78,167	9,772	367,628	1,157,958	14.8
75-80	0.18447	68,395	12,617	311,717	790,330	11.6
80-85	0.28560	55,778	15,930	239,522	478,614	8.6
85 +	1.00000	39,849	39,849	239,092	239,092	6.0

<sup>1</sup> Definitions of life table values are contained in the Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.22  
Abridged Life Table for Whites  
Michigan Residents, 1995

Age	$nqx(1)^1$	$lx(2)^1$	$ndx(3)^1$	$nLx(4)^1$	$Tx(5)^1$	$ex(6)^1$
0-1	0.00646	100,000	646	99,431	7,659,071	76.6
1-5	0.00127	99,354	126	397,137	7,559,640	76.1
5-10	0.00101	99,228	99	495,867	7,162,503	72.2
10-15	0.00084	99,129	83	495,486	6,666,637	67.3
15-20	0.00347	99,046	343	494,430	6,171,150	62.3
20-25	0.00374	98,703	368	492,607	5,676,720	57.5
25-30	0.00413	98,335	406	490,693	5,184,113	52.7
30-35	0.00541	97,929	529	488,389	4,693,420	47.9
35-40	0.00752	97,400	732	485,266	4,205,031	43.2
40-45	0.01033	96,668	998	481,002	3,719,765	38.5
45-50	0.01557	95,670	1,489	474,895	3,238,764	33.9
50-55	0.02422	94,181	2,281	465,654	2,763,869	29.3
55-60	0.03970	91,900	3,648	451,048	2,298,215	25.0
60-65	0.06211	88,252	5,481	428,444	1,847,167	20.9
65-70	0.09553	82,771	7,907	395,304	1,418,723	17.1
70-75	0.15126	74,864	11,323	347,293	1,023,419	13.7
75-80	0.22125	63,541	14,058	283,594	676,126	10.6
80-85	0.32937	49,482	16,298	206,699	392,532	7.9
85 +	1.00000	33,184	33,184	185,833	185,833	5.6

<sup>1</sup> Definitions of life table values are contained in the Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.23  
Abridged Life Table for White Males  
Michigan Residents, 1995

Age	$nqx(1)^1$	$lx(2)^1$	$ndx(3)^1$	$nLx(4)^1$	$Tx(5)^1$	$ex(6)^1$
0-1	0.00710	100,000	710	99,371	7,383,591	73.8
1-5	0.00146	99,290	144	396,840	7,284,220	73.4
5-10	0.00113	99,146	112	495,423	6,887,380	69.5
10-15	0.00083	99,034	82	495,038	6,391,956	64.5
15-20	0.00450	98,953	445	493,743	5,896,918	59.6
20-25	0.00529	98,508	521	491,266	5,403,176	54.9
25-30	0.00604	97,987	592	488,501	4,911,910	50.1
30-35	0.00767	97,395	747	485,177	4,423,409	45.4
35-40	0.00951	96,648	919	481,057	3,938,232	40.7
40-45	0.01343	95,729	1,285	475,646	3,457,175	36.1
45-50	0.02053	94,444	1,939	467,684	2,981,529	31.6
50-55	0.03004	92,505	2,778	456,091	2,513,845	27.2
55-60	0.04891	89,727	4,388	438,435	2,057,754	22.9
60-65	0.07586	85,339	6,473	411,559	1,619,319	19.0
65-70	0.11940	78,866	9,416	372,186	1,207,760	15.3
70-75	0.18979	69,450	13,180	315,567	835,574	12.0
75-80	0.27569	56,269	15,512	243,305	520,007	9.2
80-85	0.41057	40,757	16,734	161,390	276,702	6.8
85 +	1.00000	24,023	24,023	115,312	115,312	4.8

<sup>1</sup> Definitions of life table values are contained in the Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.24  
Abridged Life Table for White Females  
Michigan Residents, 1995

Age	$nqx(1)^1$	$lx(2)^1$	$ndx(3)^1$	$nLx(4)^1$	$Tx(5)^1$	$ex(6)^1$
0-1	0.00578	100,000	578	99,495	7,921,810	79.2
1-5	0.00108	99,422	107	397,456	7,822,315	78.7
5-10	0.00087	99,316	86	496,342	7,424,858	74.8
10-15	0.00086	99,229	85	495,967	6,928,517	69.8
15-20	0.00238	99,145	235	495,164	6,432,550	64.9
20-25	0.00217	98,910	214	494,011	5,937,386	60.0
25-30	0.00222	98,696	218	492,954	5,443,375	55.2
30-35	0.00317	98,478	312	491,676	4,950,421	50.3
35-40	0.00550	98,166	540	489,562	4,458,745	45.4
40-45	0.00722	97,626	704	486,473	3,969,182	40.7
45-50	0.01065	96,922	1,032	482,254	3,482,709	35.9
50-55	0.01855	95,890	1,778	475,395	3,000,455	31.3
55-60	0.03089	94,112	2,907	463,854	2,525,061	26.8
60-65	0.04911	91,205	4,479	445,572	2,061,207	22.6
65-70	0.07473	86,726	6,481	418,514	1,615,634	18.6
70-75	0.12074	80,245	9,689	378,344	1,197,121	14.9
75-80	0.18297	70,557	12,909	321,865	818,777	11.6
80-85	0.28097	57,647	16,197	248,209	496,912	8.6
85 +	1.00000	41,450	41,450	248,703	248,703	6.0

<sup>1</sup> Definitions of life table values are contained in the Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.25  
Abridged Life Table for Blacks  
Michigan Residents, 1995

Age	$nqx(1)^1$	$lx(2)^1$	$ndx(3)^1$	$nLx(4)^1$	$Tx(5)^1$	$ex(6)^1$
0-1	0.01450	100,000	1,450	98,736	6,904,027	69.0
1-5	0.00317	98,550	312	393,441	6,805,291	69.1
5-10	0.00182	98,238	179	490,697	6,411,849	65.3
10-15	0.00163	98,059	159	490,003	5,921,152	60.4
15-20	0.00704	97,900	689	487,984	5,431,149	55.5
20-25	0.01185	97,211	1,152	483,305	4,943,165	50.9
25-30	0.01366	96,059	1,312	477,081	4,459,860	46.4
30-35	0.01540	94,748	1,458	470,229	3,982,779	42.0
35-40	0.02115	93,289	1,973	461,821	3,512,550	37.7
40-45	0.03209	91,316	2,930	449,746	3,050,729	33.4
45-50	0.04887	88,386	4,319	431,508	2,600,983	29.4
50-55	0.05616	84,068	4,721	408,840	2,169,476	25.8
55-60	0.07289	79,347	5,783	382,886	1,760,635	22.2
60-65	0.10405	73,563	7,654	349,420	1,377,749	18.7
65-70	0.14164	65,909	9,335	306,953	1,028,329	15.6
70-75	0.19860	56,574	11,235	255,139	721,376	12.8
75-80	0.24387	45,338	11,056	199,300	466,236	10.3
80-85	0.36253	34,282	12,428	140,183	266,936	7.8
85 +	1.00000	21,854	21,854	126,753	126,753	5.8

<sup>1</sup> Definitions of life table values are contained in the Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.26  
Abridged Life Table for Black Males  
Michigan Residents, 1995

Age	$q_{x(1)}^1$	$l_{x(2)}^1$	$nd_{x(3)}^1$	$nL_{x(4)}^1$	$T_{x(5)}^1$	$ex(6)^1$
0-1	0.01490	100,000	1,490	98,685	6,436,477	64.4
1-5	0.00369	98,510	363	393,162	6,337,791	64.3
5-10	0.00216	98,147	212	490,151	5,944,630	60.6
10-15	0.00250	97,935	245	489,246	5,454,479	55.7
15-20	0.01121	97,690	1,094	486,074	4,965,233	50.8
20-25	0.02035	96,596	1,965	478,248	4,479,159	46.4
25-30	0.02080	94,631	1,968	468,312	4,000,912	42.3
30-35	0.02529	92,663	2,343	457,601	3,532,600	38.1
35-40	0.02951	90,320	2,665	445,285	3,074,998	34.0
40-45	0.04588	87,654	4,021	428,804	2,629,714	30.0
45-50	0.06540	83,633	5,469	404,872	2,200,910	26.3
50-55	0.07464	78,164	5,834	376,595	1,796,039	23.0
55-60	0.09945	72,330	7,193	344,289	1,419,443	19.6
60-65	0.13530	65,137	8,813	304,225	1,075,154	16.5
65-70	0.17630	56,325	9,930	257,394	770,929	13.7
70-75	0.25155	46,395	11,671	202,980	513,535	11.1
75-80	0.31114	34,724	10,804	146,242	310,555	8.9
80-85	0.41366	23,920	9,895	94,185	164,313	6.9
85 +	1.00000	14,026	14,026	70,128	70,128	5.0

<sup>1</sup> Definitions of life table values are contained in the Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.27  
Abridged Life Table for Black Females  
Michigan Residents, 1995

Age	$q_{x(1)}^1$	$l_{x(2)}^1$	$nd_{x(3)}^1$	$nL_{x(4)}^1$	$T_{x(5)}^1$	$ex(6)^1$
0-1	0.01395	100,000	1,395	98,800	7,351,807	73.5
1-5	0.00264	98,605	260	393,784	7,253,008	73.6
5-10	0.00147	98,345	145	491,327	6,859,224	69.7
10-15	0.00074	98,200	72	490,849	6,367,897	64.8
15-20	0.00289	98,128	283	490,004	5,877,048	59.9
20-25	0.00429	97,845	420	488,273	5,387,044	55.1
25-30	0.00773	97,425	752	485,306	4,898,770	50.3
30-35	0.00738	96,673	713	481,714	4,413,464	45.7
35-40	0.01445	95,960	1,386	476,588	3,931,750	41.0
40-45	0.02041	94,574	1,929	468,422	3,455,161	36.5
45-50	0.03447	92,645	3,193	455,607	2,986,739	32.2
50-55	0.04125	89,451	3,690	438,296	2,531,132	28.3
55-60	0.05198	85,762	4,458	418,228	2,092,836	24.4
60-65	0.07869	81,304	6,397	391,359	1,674,607	20.6
65-70	0.11287	74,907	8,454	354,261	1,283,248	17.1
70-75	0.15862	66,452	10,540	306,472	928,988	14.0
75-80	0.19934	55,912	11,145	252,588	622,515	11.1
80-85	0.33079	44,767	14,808	187,178	369,928	8.3
85 +	1.00000	29,959	29,959	182,750	182,750	6.1

<sup>1</sup> Definitions of life table values are contained in the Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.28  
**Age-Adjusted Death Rates<sup>1</sup> by Race and Sex**  
 Michigan<sup>2</sup> and United States Residents, 1980 - 1995

Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Michigan	1980	588.0	773.9	438.7	557.4	736.0	415.1	828.4	1,089.1	615.1
	1981	584.6	767.5	438.3	553.7	729.7	414.0	832.0	1,086.9	624.7
	1982	574.3	755.5	430.1	543.3	717.2	406.3	815.0	1,067.5	610.3
	1983	573.9	749.9	433.7	541.9	709.7	409.5	818.7	1,071.7	614.8
	1984	563.0	733.2	428.4	531.0	691.5	405.1	808.8	1,072.5	598.4
	1985	570.5	751.1	427.0	536.7	706.4	403.3	830.0	1,113.9	602.7
	1986	569.6	742.9	431.9	534.2	696.3	406.8	835.1	1,114.3	613.5
	1987	560.6	725.1	430.1	523.6	674.4	405.1	835.9	1,124.4	608.4
	1988	551.2	713.5	421.8	515.2	668.1	394.4	818.2	1,073.8	615.6
	1989	538.5	692.9	414.9	496.1	637.6	384.0	832.7	1,102.5	619.5
	1990	527.9	681.3	405.4	488.0	628.3	377.1	797.7	1,069.0	584.8
	1991	525.8	674.6	406.3	485.6	621.0	378.6	796.5	1,058.2	588.5
	1992	510.4	655.1	393.7	470.4	604.0	363.5	771.6	1,014.8	581.0
	1993	520.7	664.4	404.3	478.2	608.6	373.9	799.9	1,059.4	594.9
	1994	514.5	654.1	400.1	472.7	597.8	371.0	790.9	1,060.4	578.9
	1995	515.0	651.8	403.7	473.5	597.1	374.2	790.7	1,052.1	585.0
United States	1980	585.8	777.2	432.6	559.4	745.3	411.1	842.5	1,112.8	631.1
	1981	568.2	753.3	420.4	544.6	724.4	401.4	803.9	1,067.7	599.1
	1982	553.8	733.1	411.2	531.8	706.0	393.3	778.7	1,035.0	581.4
	1983	550.5	725.3	411.5	528.0	698.4	392.7	777.9	1,019.6	590.4
	1984	545.9	716.7	409.6	523.6	689.9	391.3	771.9	1,011.7	585.3
	1985	546.1	716.8	409.4	523.1	688.7	390.6	779.9	1,024.0	589.1
	1986	541.7	709.1	406.6	518.0	679.8	387.7	781.0	1,026.9	588.2
	1987	535.5	698.6	403.3	511.1	668.2	384.1	778.6	1,023.2	586.2
	1988	535.5	696.7	404.4	509.8	664.3	384.4	788.8	1,037.8	593.1
	1989	523.0	678.7	395.3	496.1	644.2	374.9	783.1	1,032.1	585.6
	1990	520.2	680.2	390.6	492.8	644.3	369.9	789.2	1,061.3	581.6
	1991	513.7	669.9	386.5	486.8	634.4	366.3	780.7	1,048.8	575.1
	1992	504.5	656.0	380.3	477.5	620.9	359.9	767.5	1,026.9	568.4
	1993	513.3	664.9	388.3	485.1	627.5	367.7	785.2	1,052.2	578.8
	1994	507.4	654.6	385.2	479.8	617.9	364.9	772.1	1,029.9	572.0
	1995Pr.	503.7	645.8	385.2	477.6	611.2	365.6	758.6	1,006.9	566.2

<sup>1</sup> Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940 (see Technical Notes).

<sup>2</sup> Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.29  
Age-Adjusted Diseases of the Heart Death Rates<sup>1</sup> by Race and Sex  
Michigan<sup>2</sup> and United States Residents, 1980 - 1995

Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Michigan	1980	214.9	295.5	150.6	210.1	292.3	144.5	257.9	326.4	203.1
	1981	213.3	297.1	146.3	207.9	294.1	139.2	261.5	328.5	207.0
	1982	208.6	288.1	145.8	203.0	284.7	138.5	256.5	320.9	205.5
	1983	207.2	281.2	148.3	201.4	277.4	140.9	258.2	316.8	211.6
	1984	199.9	270.3	144.3	193.2	264.2	137.4	258.0	328.1	202.0
	1985	200.1	273.9	141.6	193.8	267.6	135.4	255.7	334.7	193.8
	1986	198.2	266.2	144.5	191.0	259.1	137.2	261.4	332.6	206.0
	1987	191.0	257.6	138.6	183.7	249.7	131.7	253.9	331.8	193.4
	1988	184.6	247.4	135.1	176.4	240.2	125.9	254.9	315.7	207.9
	1989	170.7	230.0	123.6	161.5	220.4	114.5	243.5	310.5	192.2
	1990	163.6	219.1	119.7	154.8	209.4	111.4	233.1	301.4	181.1
	1991	159.2	212.3	116.9	150.9	203.4	108.9	224.8	287.5	176.8
	1992	152.1	202.9	111.9	144.1	194.3	104.1	211.8	270.1	167.5
	1993	158.4	210.1	116.9	148.9	200.5	107.3	229.6	289.9	183.3
	1994	154.1	204.2	113.4	144.6	193.7	104.5	225.4	291.4	175.3
1995	151.0	200.4	111.1	141.1	189.6	102.0	225.4	290.2	175.4	
United States	1980	202.0	280.4	140.3	197.6	277.5	134.6	255.7	327.3	201.1
	1981	195.0	271.2	135.1	191.1	268.8	129.8	245.4	316.7	191.2
	1982	190.5	264.4	132.5	186.8	262.1	127.4	239.0	309.4	186.3
	1983	188.8	260.4	132.3	184.6	257.8	126.7	242.0	308.2	191.5
	1984	183.6	252.2	129.3	179.5	249.5	124.0	235.8	300.1	186.6
	1985	180.5	247.7	127.3	176.1	244.5	121.7	236.2	301.0	186.8
	1986	175.0	238.2	124.6	170.4	234.8	119.0	232.6	294.3	185.1
	1987	169.6	229.6	121.7	165.0	225.9	116.3	226.9	287.1	180.8
	1988	166.3	224.5	119.8	161.5	220.5	114.2	226.6	286.2	181.1
	1989	155.9	210.2	112.3	151.0	205.9	106.6	216.4	272.6	172.9
	1990	152.0	206.7	108.9	146.9	202.0	103.1	213.5	275.9	168.1
	1991	148.2	201.0	106.3	143.1	196.1	100.7	210.9	272.7	165.5
	1992	144.3	195.1	103.8	139.2	190.3	98.1	205.4	264.1	162.4
	1993	145.3	195.5	105.0	139.9	190.3	99.2	208.9	267.9	165.3
	1994	140.4	188.5	101.6	135.4	183.8	96.1	198.8	254.0	158.0
1995Pr.	138.2	---	---	---	---	---	---	---	---	

<sup>1</sup> Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940 (see Technical Notes).

<sup>2</sup> Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.30  
**Age-Adjusted Cancer Death Rates<sup>1</sup> by Race and Sex**  
 Michigan<sup>2</sup> and United States Residents, 1980 - 1995

Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Michigan	1980	134.4	167.8	109.7	130.7	161.9	108.0	169.7	224.9	125.9
	1981	135.5	164.1	114.9	130.9	156.7	112.7	181.2	236.0	138.6
	1982	137.8	169.5	114.9	134.0	163.4	113.3	175.6	230.1	133.8
	1983	137.5	170.3	114.0	133.2	163.4	112.1	176.9	233.3	133.7
	1984	136.9	168.5	114.4	132.4	160.7	112.5	179.0	241.6	132.1
	1985	137.4	168.4	115.6	133.4	161.9	113.5	176.9	231.9	136.3
	1986	136.6	169.6	113.0	131.7	162.5	110.1	180.2	237.9	137.4
	1987	137.2	167.3	116.2	133.4	161.4	114.0	174.8	226.9	137.4
	1988	136.8	166.9	115.2	132.0	160.5	111.8	179.4	227.6	143.9
	1989	137.3	166.3	116.7	132.5	158.8	114.2	175.9	229.9	136.2
	1990	136.8	168.3	114.6	131.7	160.8	111.2	177.8	232.3	139.0
	1991	139.5	168.4	119.3	134.7	161.4	116.4	177.9	228.1	141.9
	1992	136.6	167.8	114.2	131.1	159.7	110.5	180.3	235.9	140.4
	1993	134.2	161.6	114.8	129.0	153.5	112.0	174.0	227.5	135.6
	1994	133.9	161.9	113.6	128.6	153.5	110.9	174.7	230.7	133.5
1995	133.1	159.6	114.2	128.4	152.8	111.3	168.4	218.0	132.8	
United States	1980	132.8	165.5	109.2	129.6	160.5	107.7	172.1	229.9	129.7
	1981	131.6	163.7	108.6	128.5	158.3	107.2	171.3	232.0	127.1
	1982	132.5	164.8	109.5	129.4	159.4	108.2	173.2	235.2	128.7
	1983	132.6	164.3	109.9	129.4	158.9	108.5	172.9	232.2	129.8
	1984	133.5	164.6	111.1	130.2	159.0	109.9	174.8	234.9	131.0
	1985	133.6	164.5	111.4	130.7	159.2	110.3	173.0	231.6	130.4
	1986	133.2	163.6	111.4	130.4	158.8	110.1	172.8	229.0	132.1
	1987	132.9	163.2	111.0	130.1	158.4	109.7	172.2	227.9	132.0
	1988	132.7	162.4	111.2	130.0	157.6	110.1	171.3	227.0	131.2
	1989	133.0	162.4	111.7	130.2	157.2	110.7	172.7	230.6	130.9
	1990	135.0	166.3	112.7	131.5	160.3	111.2	182.0	248.1	137.2
	1991	134.5	165.0	112.6	131.3	159.5	111.2	179.3	242.4	136.3
	1992	133.1	162.6	111.8	129.9	157.3	110.3	177.5	238.1	136.6
	1993	132.6	161.9	111.4	129.4	156.4	110.1	177.2	238.9	135.3
	1994	131.5	159.6	111.1	128.6	154.4	109.9	173.8	232.6	133.7
1995Pr.	129.8	---	---	---	---	---	---	---	---	

<sup>1</sup> Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940 (see Technical Notes).

<sup>2</sup> Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.31  
**Age-Adjusted Cerebrovascular Disease Death Rates<sup>1</sup> by Race and Sex**  
 Michigan<sup>2</sup> and United States Residents, 1980 - 1995

Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Michigan	1980	40.6	44.9	37.4	38.1	42.4	35.0	60.9	65.7	57.0
	1981	39.8	42.9	37.5	37.3	40.4	35.0	61.3	64.9	58.2
	1982	36.9	41.5	33.4	34.8	39.2	31.4	54.8	61.4	49.6
	1983	36.0	39.0	33.6	33.4	36.5	31.1	56.3	59.7	53.2
	1984	34.4	37.7	31.9	32.8	36.0	30.4	46.4	52.5	41.8
	1985	33.3	36.8	30.6	31.1	34.7	28.4	50.8	54.2	47.5
	1986	32.0	34.8	29.6	29.9	32.8	27.6	48.3	52.3	44.9
	1987	31.9	34.5	29.9	29.4	31.4	27.8	52.4	60.3	46.2
	1988	29.5	32.7	26.8	27.7	30.6	25.3	43.8	51.0	38.1
	1989	28.9	30.6	27.4	26.6	28.6	25.0	46.1	46.7	45.0
	1990	27.8	29.9	26.1	26.2	28.2	24.7	38.9	42.9	35.7
	1991	27.4	29.2	25.9	25.5	27.0	24.3	41.9	47.2	37.0
	1992	26.3	28.1	24.8	24.7	26.4	23.4	36.8	41.5	33.0
	1993	26.6	30.0	23.9	24.6	27.6	22.2	41.8	50.6	34.8
	1994	28.1	29.7	26.5	25.6	27.2	24.1	45.8	50.0	42.4
	1995	28.6	30.4	27.3	26.3	27.9	25.2	45.9	50.7	42.0
United States	1980	40.8	44.9	37.6	38.0	41.9	35.2	68.5	77.5	61.7
	1981	38.1	41.7	35.4	35.6	38.9	33.1	64.4	72.7	58.1
	1982	35.8	39.2	33.2	33.4	36.6	31.0	60.8	68.9	54.7
	1983	34.4	37.7	31.8	32.0	35.2	29.6	58.3	64.2	53.8
	1984	33.4	36.4	31.1	31.1	33.9	28.9	56.7	62.8	51.8
	1985	32.3	35.2	30.0	30.1	32.8	27.9	55.0	60.8	50.3
	1986	31.0	33.5	29.0	28.8	31.1	27.1	52.6	58.9	47.6
	1987	30.3	32.7	28.3	28.1	30.3	26.3	51.2	57.1	46.7
	1988	29.7	32.4	27.6	27.5	30.0	25.5	51.5	57.8	46.6
	1989	28.0	30.4	26.2	25.9	28.0	24.1	49.0	54.1	44.9
	1990	27.7	30.2	25.7	25.5	27.7	23.8	48.4	56.1	42.7
	1991	26.8	29.4	24.7	24.7	26.9	22.8	46.8	54.9	41.0
	1992	26.2	28.6	24.2	24.2	26.3	22.5	45.0	52.0	39.9
	1993	26.5	29.0	24.5	24.5	26.8	22.7	45.0	51.9	39.9
	1994	26.5	29.0	24.5	24.5	26.6	22.8	45.4	52.4	40.1
	1995Pr.	26.7	---	---	---	---	---	---	---	---

<sup>1</sup> Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940 (see Technical Notes).

<sup>2</sup> Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



Table 4.32  
**Age-Adjusted Chronic Obstructive Pulmonary Disease Death Rates<sup>1</sup> by Race and Sex**  
 Michigan<sup>2</sup> and United States Residents, 1980 - 1995

Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Michigan	1980	15.7	25.5	8.9	15.9	25.7	9.1	13.7	23.2	6.3
	1981	16.3	26.5	9.3	16.5	26.8	9.4	14.3	23.3	7.8
	1982	16.2	25.4	9.8	16.2	25.5	9.9	15.1	24.1	8.4
	1983	17.8	26.8	11.8	17.8	26.8	12.1	16.9	26.8	9.7
	1984	17.5	27.2	10.8	17.7	27.6	11.0	14.8	24.0	8.1
	1985	19.3	29.3	12.5	19.3	29.4	12.6	18.7	28.9	11.5
	1986	19.5	29.2	13.1	19.8	29.4	13.4	16.7	26.6	9.6
	1987	19.0	27.1	13.8	19.2	27.2	14.1	16.8	25.8	10.9
	1988	19.3	27.9	13.5	19.7	28.3	14.0	16.0	25.3	9.4
	1989	18.7	25.6	14.2	18.8	25.8	14.3	16.7	24.3	11.7
	1990	19.4	26.4	14.8	19.7	26.6	15.2	16.2	24.1	10.6
	1991	19.5	25.9	15.3	19.7	26.1	15.7	16.9	24.3	11.6
	1992	18.9	25.5	14.5	19.0	25.7	14.6	17.0	23.6	12.4
	1993	20.6	27.0	16.4	20.6	26.6	16.7	19.3	27.7	13.4
	1994	20.1	25.2	16.8	20.2	25.2	17.1	18.1	24.8	13.5
1995	20.9	26.4	17.5	21.1	26.6	17.7	18.0	23.2	14.4	
United States	1980	15.9	26.1	8.9	16.3	26.7	9.2	12.5	20.9	6.3
	1981	16.3	26.2	9.5	16.7	26.8	9.8	12.6	21.4	6.3
	1982	16.2	25.5	9.8	16.6	26.2	10.0	12.8	20.6	7.3
	1983	17.4	27.0	10.9	17.9	27.6	11.3	13.7	22.2	7.6
	1984	17.7	27.0	11.4	18.2	27.6	11.8	14.2	22.8	8.1
	1985	18.7	27.9	12.5	19.2	28.5	12.9	15.0	23.9	8.7
	1986	18.8	27.6	12.8	19.2	28.1	13.3	15.4	24.6	8.9
	1987	18.7	26.9	13.2	19.2	27.4	13.7	15.5	24.0	9.5
	1988	19.4	27.5	14.0	19.8	27.8	14.5	16.6	26.0	10.0
	1989	19.4	26.4	14.7	19.8	26.8	15.2	16.6	24.9	10.9
	1990	19.7	27.2	14.7	20.1	27.4	15.2	16.9	26.5	10.7
	1991	20.1	27.0	15.5	20.6	27.4	16.1	17.1	25.9	11.3
	1992	19.9	26.4	15.5	20.4	26.8	16.1	16.6	24.8	11.2
	1993	21.4	27.8	17.1	21.9	28.2	17.8	17.8	26.6	12.2
	1994	21.0	26.9	17.1	21.6	27.3	17.8	17.7	25.7	12.4
1995Pr.	21.2	---	---	---	---	---	---	---	---	

<sup>1</sup> Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940 (see Technical Notes).

<sup>2</sup> Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.33  
Age-Adjusted Accidents and Adverse Effects Death Rates<sup>1</sup> by Race and Sex  
Michigan<sup>2</sup> and United States Residents, 1980 - 1995

Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Michigan	1980	36.4	53.3	20.6	36.3	52.4	21.2	38.3	64.6	16.0
	1981	33.9	51.0	17.8	34.0	50.9	17.9	34.9	55.3	17.4
	1982	31.3	46.1	17.4	30.9	45.4	17.1	34.2	52.7	18.3
	1983	29.2	44.2	15.2	29.1	44.1	14.9	30.9	46.7	17.8
	1984	30.2	44.7	16.5	30.0	44.0	16.6	33.1	52.8	16.5
	1985	32.1	47.3	17.8	31.7	46.3	17.9	36.0	58.4	17.1
	1986	31.4	45.9	17.9	31.5	45.5	18.3	32.7	53.0	15.8
	1987	31.0	44.8	18.0	30.8	44.6	17.8	34.2	50.9	20.2
	1988	31.7	45.3	18.9	31.7	45.6	18.5	33.5	48.4	21.1
	1989	30.8	42.9	19.4	30.4	42.4	18.9	34.2	48.6	22.4
	1990	29.4	42.8	17.0	29.2	42.2	16.8	30.8	48.4	16.3
	1991	27.7	38.9	17.3	27.0	37.4	17.2	32.6	49.3	18.3
	1992	26.0	37.4	15.3	25.2	36.3	14.7	30.8	46.3	17.9
	1993	26.1	36.5	16.1	25.1	34.6	15.8	32.0	48.7	17.7
	1994	26.4	36.8	16.6	25.8	36.0	16.0	28.8	41.7	18.1
	1995	28.1	38.8	18.2	27.2	37.4	17.5	33.3	49.2	20.5
United States	1980	42.3	64.0	21.8	41.5	62.3	21.4	51.2	82.0	25.1
	1981	39.8	60.2	20.4	39.3	59.1	20.2	45.8	74.7	21.6
	1982	36.6	55.2	18.9	36.1	54.1	18.7	42.5	68.3	20.8
	1983	35.3	52.9	18.7	34.7	51.8	18.3	42.1	66.2	21.9
	1984	35.0	52.3	18.7	34.6	51.3	18.5	40.6	64.7	20.1
	1985	34.7	51.8	18.6	34.1	50.4	18.4	41.8	66.7	20.7
	1986	35.2	52.5	18.7	34.5	51.1	18.4	42.1	66.9	21.0
	1987	34.6	51.2	18.8	33.9	49.7	18.6	42.2	66.8	21.0
	1988	35.0	51.5	19.1	34.1	49.9	18.8	43.7	69.0	22.2
	1989	33.8	49.5	18.9	32.9	47.8	18.5	42.7	67.3	21.6
	1990	32.5	47.7	17.9	31.8	46.4	17.6	39.7	62.4	20.4
	1991	31.0	45.3	17.2	30.3	43.9	17.0	38.9	61.0	19.9
	1992	29.4	43.1	16.4	28.8	41.9	16.1	36.5	56.7	19.3
	1993	30.3	44.2	17.0	29.6	42.9	16.6	38.4	59.8	20.1
	1994	30.3	44.0	17.2	29.5	42.7	16.8	38.1	58.5	20.7
	1995Pr.	29.2	---	---	---	---	---	---	---	---

<sup>1</sup> Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940 (see Technical Notes).

<sup>2</sup> Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.34  
**Age-Adjusted Pneumonia and Influenza Death Rates<sup>1</sup> by Race and Sex**  
 Michigan<sup>2</sup> and United States Residents, 1980 - 1995

Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Michigan	1980	11.7	16.1	8.6	10.8	14.5	8.2	19.6	29.7	11.7
	1981	10.8	15.0	7.9	9.7	13.4	7.4	19.0	27.8	12.1
	1982	10.7	14.9	7.8	9.9	14.0	7.3	15.9	22.6	10.8
	1983	12.7	17.5	9.3	11.8	16.1	8.9	19.9	29.5	12.5
	1984	12.0	16.7	8.8	11.2	15.8	8.3	18.0	24.8	12.9
	1985	12.4	17.0	9.4	11.9	16.4	8.9	16.4	21.8	12.4
	1986	13.9	18.5	10.8	13.2	17.8	10.2	18.9	24.4	14.9
	1987	13.0	17.0	10.5	12.3	15.9	10.0	18.7	24.9	14.1
	1988	14.0	18.9	10.9	13.4	18.1	10.5	17.8	24.5	12.9
	1989	13.6	18.2	10.5	12.7	16.7	10.2	19.7	29.3	12.4
	1990	14.2	19.4	10.8	13.3	18.3	10.1	19.7	27.6	14.4
	1991	13.9	18.6	10.7	13.0	17.5	10.1	19.5	26.0	14.5
	1992	13.1	17.5	10.2	12.1	16.1	9.7	19.2	27.7	12.9
	1993	14.0	18.8	10.7	12.9	17.3	9.9	21.1	30.1	14.4
	1994	13.4	17.9	10.4	12.3	16.5	9.5	21.1	29.5	15.1
1995	13.9	17.9	11.2	12.9	16.3	10.7	21.0	31.2	13.6	
United States	1980	12.9	17.4	9.8	12.2	16.2	9.4	19.2	28.0	12.7
	1981	12.3	16.6	9.2	11.6	15.6	9.0	17.7	26.4	11.3
	1982	10.9	15.2	8.0	10.3	14.3	7.6	15.6	23.2	10.1
	1983	11.8	16.2	8.8	11.3	15.3	8.6	16.2	24.3	10.2
	1984	12.2	16.7	9.1	11.6	15.8	8.8	17.2	25.2	11.3
	1985	13.4	18.2	10.1	12.8	17.4	9.8	18.5	26.8	12.4
	1986	13.5	18.4	10.3	12.9	17.5	9.9	19.0	27.2	13.1
	1987	13.1	17.7	10.0	12.5	16.8	9.7	18.2	26.4	12.2
	1988	14.2	18.9	11.0	13.6	18.0	10.7	19.6	28.0	13.4
	1989	13.7	17.9	10.7	13.0	16.9	10.3	19.8	27.9	13.8
	1990	14.0	18.5	11.0	13.4	17.5	10.6	19.8	28.7	13.7
	1991	13.4	17.5	10.6	12.8	16.6	10.2	18.7	26.2	13.5
	1992	12.7	16.7	9.9	12.1	15.8	9.7	17.4	25.0	12.2
	1993	13.5	17.5	10.7	12.9	16.6	10.4	18.6	25.9	13.5
	1994	13.0	16.7	10.4	12.5	15.9	10.1	17.5	24.2	12.8
1995Pr.	13.0	---	---	---	---	---	---	---	---	

<sup>1</sup> Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940 (see Technical Notes).

<sup>2</sup> Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.35  
Age-Adjusted Diabetes Mellitus Death Rates<sup>1</sup> by Race and Sex  
Michigan<sup>2</sup> and United States Residents, 1980 - 1995

Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Michigan	1980	11.2	11.0	11.3	10.5	10.5	10.4	17.3	15.1	18.8
	1981	11.2	11.9	10.7	10.4	11.3	9.8	17.2	16.7	17.5
	1982	10.0	10.3	9.7	9.4	9.9	8.8	15.3	13.7	16.7
	1983	11.1	10.9	11.3	10.4	10.3	10.5	16.8	16.0	17.1
	1984	10.7	11.2	10.4	9.8	10.7	9.2	18.3	15.4	20.4
	1985	9.9	10.6	9.4	9.1	9.9	8.3	17.4	16.6	18.0
	1986	10.8	11.3	10.4	10.0	10.6	9.5	17.5	17.3	17.7
	1987	10.3	10.8	9.8	9.4	9.9	8.8	17.7	18.3	17.0
	1988	10.6	11.3	10.0	9.6	10.5	8.8	18.7	18.2	19.1
	1989	14.2	14.9	13.6	12.5	13.1	11.9	27.3	29.3	25.6
	1990	13.5	14.5	12.7	12.0	13.0	11.1	25.6	27.1	24.5
	1991	13.8	15.5	12.4	12.2	13.9	10.8	26.3	28.3	24.5
	1992	13.9	14.6	13.3	12.2	13.0	11.5	26.4	26.4	26.2
	1993	13.5	14.5	12.7	12.3	13.5	11.5	22.1	22.4	21.8
	1994	13.8	14.9	12.9	12.5	13.5	11.7	23.2	25.6	21.1
	1995	14.3	16.1	12.7	12.7	14.7	11.1	25.5	27.8	23.6
United States	1980	10.1	10.2	10.0	9.1	9.5	8.7	20.3	17.7	22.1
	1981	9.8	10.0	9.6	8.8	9.3	8.4	19.5	16.8	21.3
	1982	9.6	9.8	9.3	8.7	9.2	8.3	18.3	16.1	19.8
	1983	9.9	9.9	9.8	8.9	9.2	8.6	19.7	17.7	21.1
	1984	9.5	9.8	9.2	8.5	9.0	8.0	19.3	17.6	20.5
	1985	9.6	9.9	9.4	8.6	9.2	8.1	19.7	17.7	21.1
	1986	9.6	9.9	9.3	8.5	9.1	8.1	20.0	17.9	21.4
	1987	9.8	10.3	9.3	8.7	9.5	8.1	20.2	18.3	21.3
	1988	10.1	10.5	9.8	9.0	9.6	8.4	21.2	19.8	22.1
	1989	11.5	12.0	11.0	10.3	11.0	9.6	23.7	22.6	24.2
	1990	11.7	12.3	11.1	10.4	11.3	9.5	24.8	23.6	25.4
	1991	11.8	12.6	11.1	10.5	11.5	9.6	25.4	24.6	25.7
	1992	11.9	12.7	11.1	10.5	11.6	9.6	25.3	24.2	25.8
	1993	12.4	13.4	11.7	11.0	12.2	10.0	26.8	26.3	26.9
	1994	12.9	13.9	12.1	11.5	12.7	10.4	27.4	27.1	27.4
	1995Pr.	13.2	---	---	---	---	---	---	---	---

<sup>1</sup> Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940 (see Technical Notes).

<sup>2</sup> Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.36  
**Age-Adjusted Chronic Liver Disease and Cirrhosis Death Rates<sup>1</sup> by Race and Sex**  
 Michigan<sup>2</sup> and United States Residents, 1980 - 1995

Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Michigan	1980	14.1	19.7	9.1	11.6	16.5	7.3	32.3	45.4	21.2
	1981	12.8	17.9	8.2	10.8	15.6	6.7	27.8	37.9	19.3
	1982	12.6	17.7	8.1	10.6	15.3	6.5	27.4	38.0	18.6
	1983	12.6	18.7	7.2	10.6	15.7	6.1	27.4	43.0	14.5
	1984	11.9	16.6	7.7	9.9	14.0	6.3	26.1	37.1	17.1
	1985	12.3	17.6	7.6	9.9	14.1	6.3	29.8	45.6	16.8
	1986	10.7	15.9	6.2	8.9	13.0	5.4	23.8	38.8	11.5
	1987	10.4	15.1	6.3	8.3	12.2	4.9	24.9	37.1	15.2
	1988	10.2	14.8	6.1	8.2	12.0	4.9	24.3	36.2	14.5
	1989	10.8	15.8	6.3	8.6	12.4	5.2	26.2	41.8	13.3
	1990	10.3	14.4	6.7	8.5	11.8	5.5	23.1	34.8	13.6
	1991	9.5	13.7	5.7	8.2	11.9	4.9	18.6	28.3	10.7
	1992	8.3	12.0	5.1	7.0	10.2	4.1	17.6	25.2	11.5
	1993	8.8	12.3	5.6	7.5	10.3	4.9	17.7	27.6	9.7
	1994	8.9	12.7	5.4	7.6	11.1	4.3	18.1	25.8	12.0
1995	8.6	13.0	4.6	7.4	11.1	4.0	16.8	27.7	8.1	
United States	1980	12.2	17.1	7.9	11.0	15.7	7.0	21.6	30.6	14.4
	1981	11.4	16.0	7.4	10.5	14.8	6.7	19.2	27.3	12.7
	1982	10.5	14.9	6.7	9.8	14.1	6.1	16.5	23.5	10.9
	1983	10.2	14.3	6.6	9.5	13.4	6.0	16.2	22.8	10.8
	1984	10.0	14.1	6.4	9.3	13.2	5.9	15.8	22.5	10.3
	1985	9.6	13.6	6.1	8.9	12.6	5.6	16.1	23.4	10.1
	1986	9.2	13.0	5.9	8.6	12.2	5.4	14.5	20.8	9.3
	1987	9.1	13.0	5.6	8.4	12.1	5.1	14.9	22.0	9.1
	1988	9.0	12.9	5.6	8.4	12.1	5.0	14.5	20.7	9.3
	1989	8.9	12.8	5.5	8.3	11.9	5.0	13.9	20.5	8.5
	1990	8.6	12.2	5.3	8.0	11.5	4.8	13.7	20.0	8.7
	1991	8.3	11.7	5.2	7.8	11.2	4.8	12.3	17.4	8.2
	1992	8.0	11.6	4.8	7.7	11.1	4.6	11.4	17.2	6.9
	1993	7.9	11.3	4.9	7.6	10.8	4.6	10.9	16.1	6.6
	1994	7.9	11.3	4.8	7.5	10.9	4.5	10.7	15.9	6.6
1995Pr.	7.5	---	---	---	---	---	---	---	---	

<sup>1</sup> Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940 (see Technical Notes).

<sup>2</sup> Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.37  
**Age-Adjusted Suicide Death Rates<sup>1</sup> by Race and Sex**  
 Michigan<sup>2</sup> and United States Residents, 1980 - 1995

Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Michigan	1980	11.2	17.7	5.2	11.7	18.2	5.6	8.3	14.6	*
	1981	11.5	17.6	5.8	12.0	18.2	6.3	7.6	13.8	*
	1982	11.8	18.6	5.5	12.4	19.3	5.9	7.8	14.1	*
	1983	11.7	18.7	5.2	12.1	19.0	5.6	9.0	16.8	*
	1984	12.1	19.0	5.9	12.8	19.9	6.1	8.1	12.7	4.2
	1985	11.5	19.5	4.1	11.9	19.9	4.4	9.2	17.8	*
	1986	11.5	18.3	5.3	12.0	19.0	5.5	9.2	15.2	4.1
	1987	11.2	18.2	4.7	11.6	18.5	5.0	9.2	16.5	3.1
	1988	11.0	18.1	4.5	11.5	18.7	4.8	8.4	15.0	*
	1989	10.6	18.1	3.8	11.1	18.6	4.0	8.0	14.0	3.0
	1990	10.7	18.1	3.9	11.0	18.5	4.1	8.4	15.4	*
	1991	11.3	19.0	4.2	11.7	19.5	4.4	9.0	16.6	*
	1992	10.6	17.9	3.9	11.1	18.4	4.2	8.0	14.8	*
	1993	10.7	18.6	3.3	11.0	18.8	3.6	8.6	16.7	*
	1994	10.2	17.5	3.4	10.6	18.1	3.5	8.2	14.8	*
1995	9.6	16.4	3.3	9.8	16.8	3.2	8.3	14.7	2.9	
United States	1980	11.4	18.0	5.4	12.1	18.9	5.7	6.4	11.1	2.4
	1981	11.5	18.0	5.7	12.2	18.9	6.0	6.4	11.0	2.5
	1982	11.6	18.3	5.4	12.4	19.4	5.8	6.2	10.8	2.2
	1983	11.4	18.2	5.2	12.2	19.3	5.6	6.0	10.5	2.1
	1984	11.6	18.7	5.2	12.4	19.7	5.6	6.4	11.2	2.3
	1985	11.5	18.8	4.9	12.3	19.9	5.3	6.4	11.3	2.1
	1986	11.9	19.3	5.1	12.7	20.5	5.4	6.6	11.5	2.4
	1987	11.7	19.1	4.9	12.5	20.1	5.3	6.7	12.0	2.1
	1988	11.4	18.7	4.7	12.2	19.8	5.1	6.8	11.8	2.4
	1989	11.3	18.6	4.5	12.0	19.6	4.8	7.1	12.5	2.4
	1990	11.5	19.0	4.5	12.2	20.1	4.8	7.0	12.4	2.4
	1991	11.4	18.8	4.3	12.1	19.9	4.8	6.9	12.5	1.9
	1992	11.1	18.4	4.3	11.8	19.5	4.6	6.9	12.4	2.1
	1993	11.3	18.7	4.3	12.0	19.7	4.6	7.2	12.9	2.1
	1994	11.2	18.7	4.2	11.9	19.7	4.5	7.1	12.7	2.1
1995Pr.	11.0	---	---	---	---	---	---	---	---	

<sup>1</sup> Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940 (see Technical Notes).

<sup>2</sup> Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.38  
**Age-Adjusted Homicide Death Rates<sup>1</sup> by Race and Sex**  
 Michigan<sup>2</sup> and United States Residents, 1980 - 1995

Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Michigan	1980	11.0	16.9	5.4	4.6	6.4	2.8	55.9	96.1	21.5
	1981	10.3	15.9	5.0	4.1	5.7	2.5	53.4	91.8	20.6
	1982	10.2	15.8	4.9	4.1	5.5	2.9	51.5	92.1	16.8
	1983	10.7	17.1	4.5	4.1	5.9	2.3	55.1	98.2	18.2
	1984	10.4	16.4	4.6	4.0	5.5	2.7	52.0	94.0	16.1
	1985	11.8	18.5	5.3	4.5	6.3	2.8	58.8	103.3	20.4
	1986	12.2	19.6	5.0	4.0	5.7	2.3	64.5	114.8	21.1
	1987	12.6	19.7	5.8	4.2	5.7	2.8	64.5	111.7	23.6
	1988	11.5	18.5	4.8	3.7	5.2	2.2	59.2	105.8	19.0
	1989	11.7	18.8	4.8	3.4	5.1	1.8	61.2	107.6	21.4
	1990	12.0	19.1	5.1	3.9	5.3	2.6	58.9	104.7	19.3
	1991	12.8	20.5	5.2	4.3	5.7	2.9	60.9	111.2	17.2
	1992	11.8	18.7	5.0	4.2	6.2	2.2	54.5	94.9	19.7
	1993	11.7	18.4	5.1	3.5	4.4	2.6	57.0	100.8	18.8
	1994	11.6	18.8	4.5	3.7	5.0	2.3	55.0	99.5	16.1
1995	10.6	16.8	4.5	3.5	4.8	2.2	49.2	86.9	16.4	
United States	1980	10.8	17.4	4.5	6.9	10.9	3.2	40.6	71.9	13.7
	1981	10.4	16.7	4.3	6.6	10.3	3.1	38.9	69.2	12.9
	1982	9.7	15.3	4.2	6.3	9.5	3.1	35.3	62.3	12.0
	1983	8.6	13.6	3.8	5.6	8.4	2.8	30.9	53.8	11.2
	1984	8.4	13.0	3.9	5.5	8.2	2.9	29.5	50.8	11.0
	1985	8.3	12.8	3.9	5.4	8.1	2.9	29.0	49.9	10.8
	1986	9.0	13.9	4.1	5.6	8.4	2.9	32.4	55.9	11.8
	1987	8.6	13.2	4.1	5.3	7.7	2.9	31.8	53.8	12.3
	1988	9.0	13.9	4.2	5.3	7.7	2.8	34.1	58.2	12.7
	1989	9.4	14.7	4.1	5.4	8.1	2.8	35.7	61.5	12.5
	1990	10.2	16.3	4.2	5.9	8.9	2.8	39.5	68.7	13.0
	1991	10.9	17.3	4.5	6.2	9.4	3.0	41.9	72.5	13.9
	1992	10.5	16.7	4.2	6.1	9.3	2.8	39.4	68.1	13.0
	1993	10.7	17.0	4.5	6.0	8.9	3.0	40.9	70.7	13.4
	1994	10.3	16.4	4.0	5.8	8.8	2.7	38.2	66.2	12.3
1995Pr.	8.8	---	---	---	---	---	---	---	---	

<sup>1</sup> Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940 (see Technical Notes).

<sup>2</sup> Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH

Table 4.39  
**Age-Adjusted AIDS Death Rates<sup>1</sup> by Race and Sex**  
 Michigan<sup>2</sup> and United States Residents, 1987 - 1995

Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Michigan	1987	1.7	3.2	*	1.2	2.3	*	5.2	10.3	*
	1988	2.3	4.3	0.4	1.5	3.0	*	8.3	14.5	3.1
	1989	3.5	6.5	0.6	2.2	4.2	*	12.3	23.4	3.2
	1990	3.9	7.0	0.9	2.4	4.6	*	13.8	24.8	4.8
	1991	4.8	8.7	1.1	3.1	5.9	*	16.6	29.7	5.9
	1992	5.9	10.6	1.3	3.6	6.8	*	21.1	38.7	6.7
	1993	7.0	12.4	1.8	4.2	7.8	0.6	25.7	46.2	9.0
	1994	7.6	13.7	1.8	4.2	8.0	*	30.4	55.4	10.0
	1995	8.1	14.3	2.2	4.2	7.7	0.8	33.8	63.0	10.0
United States	1987	5.5	10.0	1.1	4.4	8.3	0.6	14.2	25.4	4.7
	1988	6.6	12.0	1.4	5.3	9.9	0.7	17.9	31.6	6.2
	1989	8.7	15.8	1.8	7.1	13.2	0.9	23.0	40.3	8.1
	1990	9.8	17.7	2.1	8.0	15.0	1.1	25.7	44.2	9.9
	1991	11.3	20.1	2.7	9.0	16.7	1.3	30.8	52.9	12.0
	1992	12.6	22.3	3.2	9.8	18.1	1.6	36.2	61.8	14.3
	1993	13.8	24.1	3.8	10.5	19.0	1.9	41.6	70.0	17.3
	1994	15.4	26.4	4.8	11.2	20.1	2.3	49.4	81.7	21.8
	1995Pr.	15.4	---	---	---	---	---	---	---	---

<sup>1</sup> Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940 (see Technical Notes).

<sup>2</sup> Michigan rates for 1987-1994 have been revised based upon revisions to population estimates; see Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH



Figure 4.2  
Michigan Live Birth Certificate

NOTARIAL NOTATIONS ARE GRAND JURORS OF 1978, 1981, 1984, 1987

**PLEASE TYPEWRITE OR PRINT - EXCEPT SIGNATURES**  
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FORM Alignment

STATE OF MICHIGAN  
DEPARTMENT OF PUBLIC HEALTH 49

121 - STATE FILE NUMBER  
**0416973**

LF \_\_\_\_\_

**CERTIFICATE OF LIVE BIRTH**

CF \_\_\_\_\_

**1 CHILD - NAME** (FIRST) (MIDDLE) (LAST)

**CHILD**

2 SEX  Male  Female

3a PLURALITY - SINGLE, TWIN, TRIPLET, ETC (SPECIFY)

3b IF NOT SINGLE - BORN 1ST, 2ND, 3RD, ETC (SPECIFY)

4a DATE OF BIRTH (Month, Day, Year)

4b TIME OF BIRTH

**PLACE**

5a HOSPITAL NAME - (IF NOT HOSPITAL GIVE STREET AND NUMBER)

5b CITY, VILLAGE, OR TOWNSHIP OF BIRTH

5c COUNTY OF BIRTH

**CERTIFICATION**

6a I CERTIFY THAT THE ABOVE NAMED CHILD WAS BORN ALIVE AT THE PLACE AND TIME AND ON THE DATE STATED ABOVE

6b CERTIFIER'S NAME & TITLE (print or type)

SIGNATURE \_\_\_\_\_

6c NAME AND TITLE OF ATTENDANT IF OTHER THAN CERTIFIER

6d MAILING ADDRESS OF ATTENDANT (STREET NO., CITY OR VILLAGE, STATE, ZIP)

7a REGISTRAR'S SIGNATURE \_\_\_\_\_

7b DATE RECEIVED BY LOCAL REGISTRAR - (Month, Day, Year)

**MOTHER**

8a MOTHER'S NAME (FIRST, MIDDLE, LAST)

8b SOCIAL SECURITY NUMBER

8c STATE OF BIRTH - NAME COUNTRY IF NOT USA

8d DATE OF BIRTH (Month, Day, Year)

8e MOTHER - SURNAME BEFORE FIRST MARRIAGE

8f RESIDENCE - (check one box and specify)

INSIDE CITY OR VILLAGE OF \_\_\_\_\_

TWP OF \_\_\_\_\_

8g COUNTY

8h STATE

**FATHER**

9a FATHER'S NAME (FIRST, MIDDLE, LAST)

9b SOCIAL SECURITY NUMBER

9c STATE OF BIRTH - NAME COUNTRY IF NOT USA

9d DATE OF BIRTH (Month, Day, Year)

10a I CERTIFY THAT THE PERSONAL INFORMATION PROVIDED ON THIS CERTIFICATE IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

10b THE PARENT(S) REQUEST THAT INFORMATION ON THIS BIRTH BE RELEASED TO THE SOCIAL SECURITY ADMIN FOR ISSUANCE OF A SOCIAL SECURITY NUMBER AND CARD

YES  NO

SIGNATURE (PARENT OR OTHER INFORMANT) \_\_\_\_\_

**CONFIDENTIAL INFORMATION FOR PUBLIC HEALTH USE ONLY**

**MOTHER**

11 ANCESTRY - American, Puerto Rican, Cuban, Central or South American, Chicano, other Hispanic, Afro-American, Arab, English, French, Finnish, etc. (Specify below)

12 RACE - American Indian, Black, White, etc. If Asian, give nationality, i.e., Chinese, Filipino, Asian Indian, etc. (Specify below)

13 EDUCATION (Specify only highest grade completed) Elementary/Secondary (0-12) College (14 or 5-1)

11a \_\_\_\_\_ 12a \_\_\_\_\_ 13a \_\_\_\_\_

**FATHER**

11b \_\_\_\_\_ 12b \_\_\_\_\_ 13b \_\_\_\_\_

14 EXPECTED SOURCE OF PAYMENT FOR MEDICAL SERVICES (Private Insurance, Medicaid, etc.)

15 MOTHER'S MAILING ADDRESS (STREET NUMBER, CITY OR VILLAGE, STATE, ZIP)

16a MEDICAL RECORD NUMBER OF MOTHER

16b MEDICAL RECORD NUMBER OF CHILD

17 DATE LAST NORMAL MENSTRUATION BEGAN (Month, Day, Year)

18 MONTH OF PREGNANCY PRENATAL CARE BEGAN

19 TOTAL PHENATAL VISITS

**MEDICAL AND HEALTH INFORMATION**

20 LIVE BIRTHS (Do not include this child)

20a HOW LIVING 20b HOW DEAD

20c DATE OF LAST LIVE BIRTH (Mo., Year)

20d DATE OF LAST OTHER TERMINATION (Specify)

21a MOTHER TRANSFERRED PRIOR TO DELIVERY (If yes enter name of hospital transferred from)

21b INFANT TRANSFERRED  YES  NO

22 ATTENDANT AT BIRTH

23 INFANT ADMITTED TO NICU?  YES  NO

24 BIRTHWEIGHT (Specify unit)

25 ESTIMATED WEEKS GESTATION

26 APGAR SCORE

27 PLACE OF BIRTH

28 MEDICAL RISK FACTORS FOR THIS PREGNANCY (Check all that apply)

29 OTHER RISK FACTORS FOR THIS PREGNANCY

30 OBSTETRIC PROCEDURES (Check all that apply)

31 COMPLICATIONS OF LABOR AND/OR DELIVERY (Check all that apply)

32 METHOD OF DELIVERY (Check all that apply)

33 ABNORMAL CONDITIONS OF THE NEWBORN (Check all that apply)

34 APPARENT CONGENITAL ANOMALIES OF NEWBORN (Check all that apply)

Figure 4.3  
Michigan Fetal Death Certificate

MICHIGAN DEPARTMENT OF PUBLIC HEALTH  
REPORT OF FETAL DEATH  
(TYPE OR PRINT IN INK)

FETUS	1a DATE OF DELIVERY (Month, Day, Year)	1b TIME	1c SEX OF FETUS 1 <input type="checkbox"/> MALE 2 <input type="checkbox"/> FEMALE <input type="checkbox"/> INDETERMINABLE	1d WEIGHT OF FETUS	1e ESTIMATED WEEKS GESTATION	1f ATTENDANT AT DELIVERY 1 <input type="checkbox"/> M.D. 3 <input type="checkbox"/> NURSE 5 <input type="checkbox"/> NURSE-MIDWIFE 2 <input type="checkbox"/> D.O. 4 <input type="checkbox"/> MIDWIFE <input type="checkbox"/> OTHER (SPECIFY)	
	2a RESIDENCE - STATE, IF OUTSIDE USA ENTER COUNTRY		2b RESIDENCE - COUNTY		2c RESIDENCE - LOCAL (Check one box and specify) <input type="checkbox"/> INSIDE CITY OR VILLAGE OF _____ <input type="checkbox"/> TWP. OF _____		2d ZIP CODE
MOTHER	3 ANCESTRY - Mexican Puerto Rican Cuban Central or South American Chinese other Hispanic Afro-American Arab (Specify below)	4 RACE American Indian Black White, etc. If Asian give nationality re. Chinese Filipino Asian Indian, etc. (Specify below)	5 EDUCATION (Specify only highest grade completed) Elementary/Secondary (0-12) _____ College (1-4 or 5+) _____		6 OCCUPATION AND BUSINESS/INDUSTRY (Worked during last year) Occupation _____ Business/Industry _____		7 AGE (At Time of Delivery)
	3a	4a	5a	6a	7a		
FATHER	3b	4b	5b	6b	7b		
	9 EXPECTED SOURCE OF PAYMENT FOR MEDICAL SERVICES (Private insurance, Medicaid, etc.)		9a MOTHER TRANSFERRED PRIOR TO DELIVERY (Specify name of facility transferred from)				
MEDICAL AND PREGNANCY HISTORY INFORMATION	10 PREGNANCY HISTORY (Complete each section)		DATE LAST NORMAL MENSTRUATION BEGAN (Month, Day, Year)				
	LIVE BIRTHS		DATE OF LAST NORMAL MENSTRUATION BEGAN (Month, Day, Year)				
	10a NOW LIVING <sup>a</sup>	10b NOW DEAD <sup>b</sup>	10c DATE OF TERMINATION (Month, Day, Year) (Specify)		12 PLURALITY - Single, Twin, Triplet, etc (Specify)		13 IF NOT SINGLE BIRTH - Born First, Second, Third, etc (Specify)
	Number _____	Number _____	Number _____		14a MONTH OF PREGNANCY PRENATAL CARE BEGAN - First, Second, Third, etc (Specify)		14b PRENATAL VISITS - Total Number (If none, so state)
	Name <input type="checkbox"/> None <input type="checkbox"/>	Name <input type="checkbox"/> None <input type="checkbox"/>	Name <input type="checkbox"/> None <input type="checkbox"/>				
10d DATE OF LAST LIVE BIRTH (Mo, Year)	10e DATE OF LAST OTHER TERMINATION (Mo, Year)						
15a MEDICAL RISK FACTORS FOR THIS PREGNANCY (Check all that apply)			16 OBSTETRIC PROCEDURES (Check all that apply)			19 APPARENT CONGENITAL ANOMALIES OF FETUS (Check all that apply)	
Anemia (Hct < 30/40g < 10) 01 <input type="checkbox"/> Cardiac disease 02 <input type="checkbox"/> Acute or chronic lung disease 03 <input type="checkbox"/> Diabetes 04 <input type="checkbox"/> Genital herpes 05 <input type="checkbox"/> Hydramnios/Oligohydramnios 06 <input type="checkbox"/> Hemoglobinopathy 07 <input type="checkbox"/> Hypertension, chronic 08 <input type="checkbox"/> Hypertension, pregnancy associated 09 <input type="checkbox"/> Eclampsia 10 <input type="checkbox"/> Incompetent cervix 11 <input type="checkbox"/> Previous infant 4000+ grams 12 <input type="checkbox"/> Previous problem or small-for-gestational-age infant 13 <input type="checkbox"/> Renal disease 14 <input type="checkbox"/> Rtt sensitization 15 <input type="checkbox"/> Uterine bleeding 16 <input type="checkbox"/> None 00 <input type="checkbox"/> Other (Specify) 17 <input type="checkbox"/>			Amniocentesis 01 <input type="checkbox"/> Electronic fetal monitoring 02 <input type="checkbox"/> Induction of labor 03 <input type="checkbox"/> Stimulation of labor 04 <input type="checkbox"/> Tocolysis 05 <input type="checkbox"/> Ultrasound 06 <input type="checkbox"/> None 00 <input type="checkbox"/> Other (Specify) 07 <input type="checkbox"/>			Anencephalus 01 <input type="checkbox"/> Spina (Bifida/Meningocele) 02 <input type="checkbox"/> Hydrocephalus 03 <input type="checkbox"/> Microcephalus 04 <input type="checkbox"/> Other central nervous system anomalies (Specify) 05 <input type="checkbox"/> Heart malformations 06 <input type="checkbox"/> Other circulatory/respiratory anomalies (Specify) 07 <input type="checkbox"/> Rectal atresia/stenosis 08 <input type="checkbox"/> Tracheo-esophageal fistula/Esophageal atresia 09 <input type="checkbox"/> Omphalocele/Gastroschisis 10 <input type="checkbox"/> Other gastrointestinal anomalies (Specify) 11 <input type="checkbox"/> Malformed genitalia 12 <input type="checkbox"/> Other genitourinary anomalies (Specify) 13 <input type="checkbox"/> Cleft lip/palate 14 <input type="checkbox"/> Polydactyly/Syndactyly/Adactyly 15 <input type="checkbox"/> Club foot 16 <input type="checkbox"/> Diaphragmatic hernia 17 <input type="checkbox"/> Other musculoskeletal/integumental anomalies (Specify) 18 <input type="checkbox"/> Down's syndrome 19 <input type="checkbox"/> Other chromosomal anomalies (Specify) 20 <input type="checkbox"/> None 00 <input type="checkbox"/> Other (Specify) 21 <input type="checkbox"/>	
15b OTHER RISK FACTORS FOR THIS PREGNANCY (Complete all items)			17 COMPLICATIONS OF LABOR AND/OR DELIVERY (Check all that apply)			20 PART I Fetal or maternal condition directly causing fetal death	
Tobacco use during pregnancy Yes <input type="checkbox"/> No <input type="checkbox"/> Average number cigarettes per day _____ Alcohol use during pregnancy Yes <input type="checkbox"/> No <input type="checkbox"/> Average number of drinks per week _____ Weight gained during pregnancy _____ lbs			Fetor ( $> 100^{\circ} F$ or $38^{\circ} C$ ) 01 <input type="checkbox"/> Meconium, moderate/heavy 02 <input type="checkbox"/> Premature rupture of membrane ( $> 12$ hours) 03 <input type="checkbox"/> Abnormal placenta 04 <input type="checkbox"/> Placenta previa 05 <input type="checkbox"/> Other excessive bleeding 06 <input type="checkbox"/> Severities during labor 07 <input type="checkbox"/> Precipitate labor ( $< 3$ hours) 08 <input type="checkbox"/> Prolonged labor ( $> 20$ hours) 09 <input type="checkbox"/> Dysfunctional labor 10 <input type="checkbox"/> Breech/Malpresentation 11 <input type="checkbox"/> Cephalopelvic disproportion 12 <input type="checkbox"/> Cardiopulmonary 13 <input type="checkbox"/> Invasive instrumentation 14 <input type="checkbox"/> Fetal distress/compromise 15 <input type="checkbox"/> None 00 <input type="checkbox"/> Other (Specify) 16 <input type="checkbox"/>			IMMEDIATE CAUSE Enter only one case per line for a, b, and c a _____ b _____ c _____ Specify Fetal or Maternal	
			18 METHOD OF DELIVERY (Check all that apply)			PART II Other significant conditions of fetus or mother contributing to fetal death but not resulting in the underlying cause given in Part I.	
			Vaginal 01 <input type="checkbox"/> Cesarean section 02 <input type="checkbox"/> Cesarean section 03 <input type="checkbox"/> Cesarean section 04 <input type="checkbox"/> Forceps 05 <input type="checkbox"/> Vacuum 06 <input type="checkbox"/> Hysterectomy 07 <input type="checkbox"/> Hysterotomy 08 <input type="checkbox"/>			21 FETUS DIED BEFORE LABOR, DURING LABOR OR DELIVERY, UNKNOWN (Specify)	
22a HOSPITAL WHERE FETUS WAS DELIVERED (IF NOT HOSPITAL - GIVE ADDRESS OF PERSON COMPLETING REPORT)		22b CITY, VILLAGE, OR TOWNSHIP OF DELIVERY		22c COUNTY OF DELIVERY			
23 NAME OF PERSON COMPLETING REPORT (TYPE OR PRINT)			24 DATE REPORT COMPLETED (Month, Day, Year)		25 DATE REPORT RECEIVED BY DEPARTMENT (Month, Day, Year)		

8-35 1-89  
AUTHORITY  
Act 368 PA 1978

FAILURE TO PROVIDE THE REQUIRED INFORMATION IS A MISDEMEANOR PUNISHABLE BY IMPRISONMENT OF NOT MORE THAN 1 YEAR OR A FINE OF NOT MORE THAN \$1,000.00 OR BOTH

Figure 4.4  
Michigan Death Certificate

STATE OF MICHIGAN  
DEPARTMENT OF PUBLIC HEALTH  
**CERTIFICATE OF DEATH**

STATE FILE NUMBER  
**No 0187597**

LF \_\_\_\_\_  
CF \_\_\_\_\_

TYPE/PRINT IN PERMANENT BLACK INK

NAME OF DECEDENT FOR USE BY PHYSICIAN OR INSTITUTION

NAME OF DECEDENT

INFORMANT

DISPOSITION

CAUSE OF DEATH

CERTIFIER

MEDICAL EXAMINER

WITNESS

1 DECEDENT'S NAME (First, Middle, Last) \_\_\_\_\_ 2 SEX \_\_\_\_\_ 3 DATE OF DEATH (Month, Day, Year) \_\_\_\_\_

4a AGE - Last Birthday (Years) \_\_\_\_\_ 4b UNDER 1 YEAR MONTHS DAYS 4c UNDER 1 DAY HOURS MINUTES 5 DATE OF BIRTH (Month, Day, Year) \_\_\_\_\_ 6 COUNTY OF DEATH \_\_\_\_\_

7a LOCATION OF DEATH (Enter place officially pronounced dead in 7a, 7b, 7c.) HOSPITAL OR OTHER INSTITUTION - Name (If not in either, give street and number) \_\_\_\_\_ 7b IF HOSP OR INST Institution, Op./Emer. Room, DDA (Specify) \_\_\_\_\_ 7c CITY, VILLAGE, OR TOWNSHIP OF DEATH \_\_\_\_\_

8 SOCIAL SECURITY NUMBER \_\_\_\_\_ 9a USUAL OCCUPATION (Give kind of work done during most of working life. Do not use retired) \_\_\_\_\_ 9b KIND OF BUSINESS OR INDUSTRY \_\_\_\_\_

10a CURRENT RESIDENCE - STATE \_\_\_\_\_ 10b COUNTY \_\_\_\_\_ 10c LOCALITY (Check one box and specify)  INSIDE CITY OR VILLAGE OF  TWP. OF \_\_\_\_\_ 10d STREET AND NUMBER \_\_\_\_\_

10e ZIP CODE \_\_\_\_\_ 11 BIRTHPLACE (City and State or Foreign Country) \_\_\_\_\_ 12 MARITAL STATUS - Married, Never Married, Widowed, Divorced (Specify) \_\_\_\_\_ 13 SURVIVING SPOUSE (If deceased, give date of death) \_\_\_\_\_ 14 WAS DECEDENT EVER IN U.S. ARMED FORCES? (Specify Yes or No) \_\_\_\_\_

15 ANCESTRY - Mexican, Puerto Rican, Cuban, Central or South American, Chinese, other Hispanic, Afro-American, Arab, English, French, Finnish, etc. (Specify below) \_\_\_\_\_ 16 RACE - American Indian, Eskimo, Aleutian, etc. (Specify below) \_\_\_\_\_ 17 DECEDENT'S EDUCATION (Specify only highest grade completed) Elementary/Secondary (0-12) \_\_\_\_\_ College (1-4 or 5+) \_\_\_\_\_

18 FATHER'S NAME (First, Middle, Last) \_\_\_\_\_ 19 MOTHER'S NAME (First, Middle, Surname before first married) \_\_\_\_\_

20a INFORMANT'S NAME (Type/Print) \_\_\_\_\_ 20b HOME ADDRESS (Street and Number or Rural Route Number, City or Village, State, ZIP Code) \_\_\_\_\_

21 METHOD OF DISPOSITION - Burial, Cremation, Removal, Donation, Other (Specify) \_\_\_\_\_ 22a PLACE OF DISPOSITION (Name of Cemetery, Crematory, or other place) \_\_\_\_\_ 22b LOCATION - City or Village, State \_\_\_\_\_

23 SIGNATURE OF FUNERAL SERVICE LICENSEE \_\_\_\_\_ 24 LICENSE NUMBER (of Licensee) \_\_\_\_\_ 25 NAME AND ADDRESS OF FACILITY \_\_\_\_\_

26 PART I Enter the diseases, injuries, or complications that caused the death. Do NOT enter the mode of dying, such as cardiac or respiratory arrest, shock, or heart failure. List only one cause on each line. Approximate Interval Between Onset and Death

IMMEDIATE CAUSE (Final disease or condition resulting in death) \_\_\_\_\_ a. \_\_\_\_\_ DUE TO (OR AS A CONSEQUENCE OF) \_\_\_\_\_

Sequentially list conditions, if any, leading to immediate cause. Enter UNDERLYING CAUSE (Disease or injury that initiated events resulting in death) LAST

b. \_\_\_\_\_ DUE TO (OR AS A CONSEQUENCE OF) \_\_\_\_\_

c. \_\_\_\_\_ DUE TO (OR AS A CONSEQUENCE OF) \_\_\_\_\_

d. \_\_\_\_\_

PART II Other significant conditions contributing to death but not resulting in the underlying cause given in Part I \_\_\_\_\_

27a WAS AN AUTOPSY PERFORMED? (Yes or No) \_\_\_\_\_ 27b WERE AUTOPSY FINDINGS AVAILABLE PRIOR TO COMPLETION OF CAUSE OF DEATH? (Yes or No) \_\_\_\_\_

28 ACTUAL PLACE OF DEATH (Home, Nursing Home, Hospital, Ambulance) (Specify) \_\_\_\_\_ 29 WAS CASE REFERRED TO MEDICAL EXAMINER? (Specify Yes or No) \_\_\_\_\_ 31a (Check one only)  The case reviewed and determined not to be a medical examiner's case.  On the basis of observation and of investigation, in my opinion death occurred at the time, date and place and due to the cause(s) and manner stated.

30a To the best of my knowledge, death occurred at the time, date and place and due to the cause(s) stated (Signature and Title) \_\_\_\_\_ 30b DATE SIGNED (Mo., Day, Yr.) \_\_\_\_\_ 30c TIME OF DEATH \_\_\_\_\_ 31b DATE SIGNED (Mo., Day, Yr.) \_\_\_\_\_ 31c CASE NUMBER \_\_\_\_\_

30d NAME OF ATTENDING PHYSICIAN IF OTHER THAN CERTIFIER (Type or Print) \_\_\_\_\_ 31e PRONOUNCED DEAD (Mo., Day, Yr.) \_\_\_\_\_ 31f TIME OF DEATH \_\_\_\_\_

32a NAME AND ADDRESS OF PERSON WHO COMPLETED CAUSE OF DEATH (ITEM 26) (Type or Print) \_\_\_\_\_ 32b LICENSE NUMBER \_\_\_\_\_

33a ACC SUICIDE, HOMICIDE, NATURAL OR PENDING INVEST (Specify) \_\_\_\_\_ 33b DATE OF INJURY (Mo., Day, Yr.) \_\_\_\_\_ 33c TIME OF INJURY \_\_\_\_\_ 33d DESCRIBE HOW INJURY OCCURRED \_\_\_\_\_

33e INJURY AT WORK (Specify Yes or No) \_\_\_\_\_ 33f PLACE OF INJURY - At home, farm, street, factory, office building, etc. (Specify) \_\_\_\_\_ 33g LOCATION - Street or R.F.D. No. \_\_\_\_\_ City, Village or Twp. \_\_\_\_\_ State \_\_\_\_\_

34a REGISTRAR'S SIGNATURE \_\_\_\_\_ 34b DATE FILED (Month, Day, Year) \_\_\_\_\_

Section 2843 of Act 368 Public Acts of 1978 requires that the attending physician shall fill out and sign the medical certificate of death within 48 hours after death.

In the absence of the attending physician and in the absence of a physician representing the attendant, medical certification must be provided as follows:

For deaths pronounced within a hospital, by the chief medical officer of the hospital based on the available records or by a pathologist.

For deaths pronounced outside a hospital, by the county medical examiner.

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.

This document must be typewritten (except signatures) or printed in black indelible ink. Alterations to the document must be accomplished using a lift off process. Damaged or folded documents are not acceptable.

Failure to provide the required information is a misdemeanor punishable by imprisonment of not more than 1 year or a fine of not more than \$1,000.00 or both.

NOTE: If the decedent is suspected of having had an infectious condition notification of the funeral director to whom the body is released may be required by Act 185 of 1986.

Figure 4.5  
Michigan Marriage License

ROTARY MULTIFORMS, INC. • GRAND RAPIDS, MI • 616-942-2574



**Marriage License**

State of Michigan

To any person legally authorized to solemnize marriage in the State of Michigan,  
Marriage must be solemnized In the State of Michigan on or before \_\_\_\_\_

DATE

between

and

\_\_\_\_\_  
FULL NAME OF MALE (FIRST, MIDDLE, LAST) and \_\_\_\_\_  
FULL NAME OF FEMALE (FIRST, MIDDLE, LAST)

\_\_\_\_\_  
LAST NAME BEFORE FIRST MARRIED, IF DIFFERENT

\_\_\_\_\_  
PRESENT AGE      \_\_\_\_\_  
DATE OF BIRTH

\_\_\_\_\_  
PRESENT AGE      \_\_\_\_\_  
DATE OF BIRTH

\_\_\_\_\_  
RESIDENCE NO.      \_\_\_\_\_  
STREET

\_\_\_\_\_  
RESIDENCE NO.      \_\_\_\_\_  
STREET

\_\_\_\_\_  
CITY, STATE, AND ZIP CODE

\_\_\_\_\_  
CITY, STATE, AND ZIP CODE

\_\_\_\_\_  
RESIDENCE COUNTY      \_\_\_\_\_  
NUMBER OF TIMES PREVIOUSLY MARRIED

\_\_\_\_\_  
RESIDENCE COUNTY      \_\_\_\_\_  
NUMBER OF TIMES PREVIOUSLY MARRIED

\_\_\_\_\_  
BIRTHPLACE - CITY AND STATE

\_\_\_\_\_  
BIRTHPLACE - CITY AND STATE

\_\_\_\_\_  
FATHER'S FULL NAME

\_\_\_\_\_  
FATHER'S FULL NAME

\_\_\_\_\_  
MOTHER'S FULL NAME BEFORE FIRST MARRIED

\_\_\_\_\_  
MOTHER'S FULL NAME BEFORE FIRST MARRIED

\_\_\_\_\_  
FATHER'S BIRTHPLACE      \_\_\_\_\_  
MOTHER'S BIRTHPLACE

\_\_\_\_\_  
FATHER'S BIRTHPLACE      \_\_\_\_\_  
MOTHER'S BIRTHPLACE

An affidavit has been filed in this office by which it appears that said statements are true. This marriage license authorizes the marriage of the parties named above within the State of Michigan by any person authorized to perform a marriage ceremony under the laws of the State of Michigan.

In witness whereof,  
I have signed and sealed these presents, this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_\_;

\_\_\_\_\_  
COUNTY CLERK      \_\_\_\_\_  
COUNTY

\_\_\_\_\_  
DEPUTY CLERK

**\* 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, in \_\_\_\_\_, county of \_\_\_\_\_, MICHIGAN, on the \_\_\_\_\_ day of \_\_\_\_\_ A.D. 19\_\_\_\_\_, in the presence of

\_\_\_\_\_  
SIGNATURE OF WITNESS      \_\_\_\_\_  
SIGNATURE OF WITNESS

\_\_\_\_\_  
NAME OF WITNESS (TYPE OR PRINT)      \_\_\_\_\_  
NAME OF WITNESS (TYPE OR PRINT)

\_\_\_\_\_  
SIGNATURE OF MAGISTRATE OR CLERGY      \_\_\_\_\_  
NAME AND TITLE OF MAGISTRATE OR CLERGY (TYPE OR PRINT)

\_\_\_\_\_  
POST OFFICE ADDRESS OF MAGISTRATE OR CLERGY

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.

Except for signature, spaces left blank must be completed by typewriter or printed legibly.

By Authority of MCL 333.2813

This Space Reserved for Binding

Figure 4.6  
Michigan Divorce Record

<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>RECORD OF DIVORCE OR ANNULMENT</b> </div>		Court Case Number _____ County Circuit Court _____
State File Number _____	MICHIGAN DEPARTMENT OF PUBLIC HEALTH By authority of MCL 333.2813.	
1. Husband's Name _____ <small>First, Middle, Last</small>	2. Husband's Birthdate _____ <small>Month, Day, Year</small>	
3. Husband's Residence _____ <small>City, Village or Township</small> _____ <small>County</small> _____ <small>State</small> _____		
4. Husband's Birthplace _____ <small>State or Foreign Country</small>	5. Number of this Marriage _____ <small>First, Second, etc. (Specify)</small>	
6. Wife's Name _____ <small>First, Middle, Last</small>	7. Wife's Birthdate _____ <small>Month, Day, Year</small>	
8. Wife's Last Name Before First Married _____		
9. Wife's Residence _____ <small>City, Village or Township</small> _____ <small>County</small> _____ <small>State</small> _____		
10. Wife's Birthplace _____ <small>State or Foreign Country</small>	11. Number of this Marriage _____ <small>First, Second, etc. (Specify)</small>	
12. Place of this Marriage _____ <small>City, Village or Township</small> _____ <small>County</small> _____ <small>State or Foreign Country</small> _____		
13. Date of this Marriage _____ <small>Month, Day, Year</small>	14. Date Couple Last Resided in Same Household _____ <small>Month, Day, Year</small> <input type="checkbox"/> Check If Not Separated	
15. Number of Minor Children in Household at Separation Date (Filing Date if Not Separated) _____	<input type="checkbox"/> Check If None	<small>Number</small> _____
16. Plaintiff <input type="checkbox"/> Husband <input type="checkbox"/> Wife <input type="checkbox"/> Other	17. Plaintiff's Attorney _____ <small>Name (Type or Print)</small>	<small>Bar Number</small> _____
18. Attorney's Address _____ <small>Number and Street</small> _____ <small>City</small> _____ <small>State</small> _____ <small>ZIP Code</small> _____		
19. Judgement of _____ <small>Divorce/Annulment (Specify)</small>	20. Number of Minor Children whose Physical Custody was Awarded to: Husband _____ Wife _____ Joint _____ Other _____ <small>Number Number Number Number Number</small>	<input type="checkbox"/> No Children
21. Judgement Recorded on _____ <small>Month, Day, Year</small>	22. I certify that this Divorce was granted on _____ <small>Month, Day, Year</small>	
23. Certifying Official _____ <small>Signature</small>	_____ <small>Title</small>	_____ <small>Date Signed</small>

SAMPLE COPY

Failure to provide the required information is a misdemeanor punishable by imprisonment of not more than 1 year or a fine of not more than \$1,000.00 or both.

0010950

Table 4.28  
Age-Adjusted Death Rates<sup>1</sup> by Race and Sex  
Michigan<sup>2</sup> and United States Residents, 1970 - 1995

Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Michigan	1970	717.5	925.9	537.3	685.5	889.4	510.8	1,017.1	1,274.1	787.8
	1971	707.9	922.9	524.0	672.5	881.2	495.7	1,034.2	1,315.0	785.3
	1972	711.1	928.2	526.4	677.2	888.0	499.4	1,017.8	1,302.6	767.1
	1973	694.3	906.3	513.7	658.4	862.6	486.0	1,014.1	1,309.1	757.9
	1974	660.7	865.1	488.0	628.4	824.6	464.2	948.4	1,235.6	698.6
	1975	640.2	840.3	472.4	610.1	800.5	452.0	904.1	1,198.8	649.8
	1976	636.1	838.5	469.1	607.2	801.4	448.5	889.6	1,170.5	650.8
	1977	614.4	814.8	449.4	587.3	781.6	428.8	851.7	1,116.5	628.0
	1978	606.3	797.8	449.8	578.7	765.7	426.8	842.7	1,085.5	640.3
	1979	585.4	775.6	431.4	557.9	742.5	409.7	812.6	1,063.9	604.2
	1980	588.0	773.9	438.7	557.4	736.0	415.1	828.4	1,089.1	615.1
	1981	584.6	767.5	438.3	553.7	729.7	414.0	832.0	1,086.9	624.7
	1982	574.3	755.5	430.1	543.3	717.2	406.3	815.0	1,067.5	610.3
	1983	573.9	749.9	433.7	541.9	709.7	409.5	818.7	1,071.7	614.8
	1984	563.0	733.2	428.4	531.0	691.5	405.1	808.8	1,072.5	598.4
	1985	570.5	751.1	427.0	536.7	706.4	403.3	830.0	1,113.9	602.7
	1986	569.6	742.9	431.9	534.2	696.3	406.8	835.1	1,114.3	613.5
	1987	560.6	725.1	430.1	523.6	674.4	405.1	835.9	1,124.4	608.4
	1988	551.2	713.5	421.8	515.2	668.1	394.4	818.2	1,073.8	615.6
	1989	538.5	692.9	414.9	496.1	637.6	384.0	832.7	1,102.5	619.5
1990	527.9	681.3	405.4	488.0	628.3	377.1	797.7	1,069.0	584.8	
1991	525.8	674.6	406.3	485.6	621.0	378.6	796.5	1,058.2	588.5	
1992	510.4	655.1	393.7	470.4	604.0	363.5	771.6	1,014.8	581.0	
1993	520.7	664.4	404.3	478.2	608.6	373.9	799.9	1,059.4	594.9	
1994	514.5	654.1	400.1	472.7	597.8	371.0	790.9	1,060.4	578.9	
1995	515.0	651.8	403.7	473.5	597.1	374.2	790.7	1,052.1	585.0	
United States	1970	714.3	931.6	532.5	679.6	893.4	501.7	1,044.0	1,318.6	814.4
	1971	697.6	913.3	519.1	663.7	876.0	489.1	1,007.8	1,276.1	784.6
	1972	698.0	918.0	516.6	664.0	879.3	487.6	1,009.5	1,296.6	772.8
	1973	687.3	905.9	508.1	654.0	868.5	479.3	993.1	1,272.1	640.9
	1974	659.5	870.9	487.0	629.0	836.1	461.0	940.4	1,215.5	717.1
	1975	630.4	837.2	462.5	602.2	804.3	439.0	890.8	1,163.0	670.6
	1976	618.5	820.9	455.0	591.3	789.3	432.5	870.5	1,138.3	654.5
	1977	602.1	801.3	441.8	575.7	770.6	419.6	849.3	1,112.1	639.6
	1978	595.0	791.4	437.4	569.5	761.1	416.4	831.8	1,093.9	622.7
	1979	577.0	768.6	423.1	551.9	738.4	402.5	840.1	1,090.4	636.1
	1980	585.8	777.2	432.6	559.4	745.3	411.1	842.5	1,112.8	631.1
	1981	568.2	753.3	420.4	544.6	724.4	401.4	803.9	1,067.7	599.1
	1982	553.8	733.1	411.2	531.8	706.0	393.3	778.7	1,035.0	581.4
	1983	550.5	725.3	411.5	528.0	698.4	392.7	777.9	1,019.6	590.4
	1984	545.9	716.7	409.6	523.6	689.9	391.3	771.9	1,011.7	585.3
	1985	546.1	716.8	409.4	523.1	688.7	390.6	779.9	1,024.0	589.1
	1986	541.7	709.1	406.6	518.0	679.8	387.7	781.0	1,026.9	588.2
	1987	535.5	698.6	403.3	511.1	668.2	384.1	778.6	1,023.2	586.2
	1988	535.5	696.7	404.4	509.8	664.3	384.4	788.8	1,037.8	593.1
	1989	523.0	678.7	395.3	496.1	644.2	374.9	783.1	1,032.1	585.6
1990	520.2	680.2	390.6	492.8	644.3	369.9	789.2	1,061.3	581.6	
1991	513.7	669.9	386.5	486.8	634.4	366.3	780.7	1,048.8	575.1	
1992	504.5	656.0	380.3	477.5	620.9	359.9	767.5	1,026.9	568.4	
1993	513.3	664.9	388.3	485.1	627.5	367.7	785.2	1,052.2	578.8	
1994	507.4	654.6	385.2	479.8	617.9	364.9	772.1	1,029.9	572.0	
1995Pr.	503.7	645.8	385.2	477.6	611.2	365.6	758.6	1,006.9	566.2	

<sup>1</sup> Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940 (see Technical Notes).

<sup>2</sup> Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Technical Notes.

Source: Office of the State Registrar and Division of Health Statistics, MDCH