

Michigan

Michigan Department
of Community Health

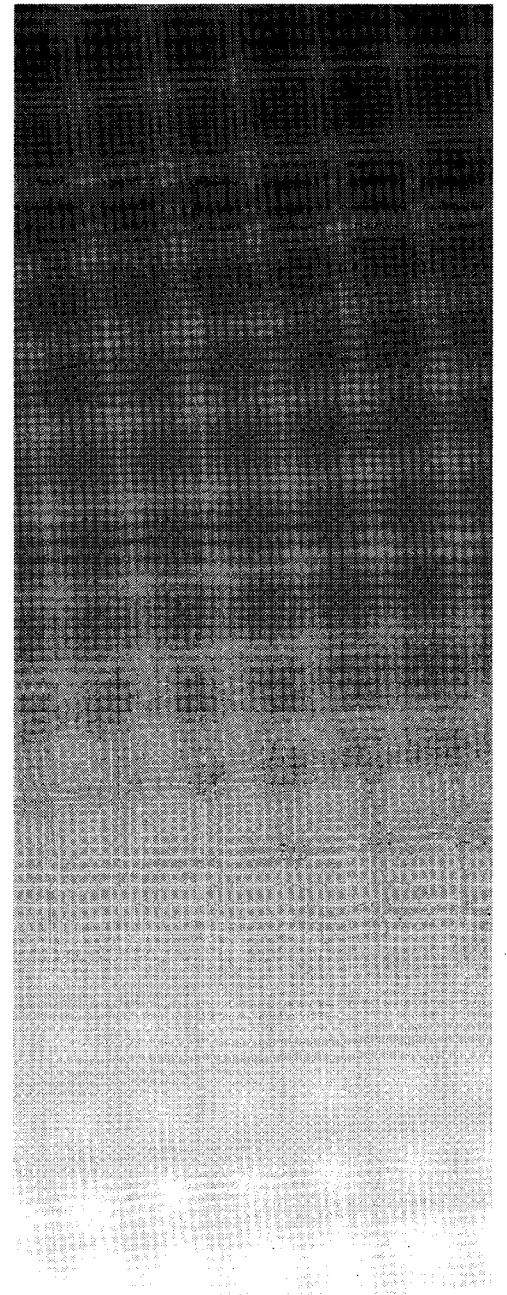
MICH

John Engler, Governor
James K. Haveman, Jr., Director

Health

Statistics

1991



SYMBOLS USED IN TABLES

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**MICHIGAN
HEALTH STATISTICS**

1996

Division for Vital Records and Health Statistics

Michigan Department of Community Health
Lansing, Michigan March 1998

John Engler, Governor
State of Michigan



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INTRODUCTION

The 1996 edition of Michigan Health Statistics is a statistical summary of vital events for calendar year 1996. 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 1996, 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, 1997, and all in-state certificates and records received prior to March 15, 1997. Although a few additional records for the calendar year 1996 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 division. The division 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 75 years of age for individuals dying before age 75.

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.

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 indeterminate 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	Cerebrovascular Diseases
430-438	Pneumonia and Influenza
480-487	Chronic Obstructive Pulmonary Diseases
490-496	Chronic Liver Disease and Cirrhosis
571	Congenital Anomalies
740-759	Certain Conditions Originating in the
760-779	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 Division for Vital Records and 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 1995 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 1970-1996 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 1996 provisional data are based on the 1990 census enumeration and therefore are comparable to those used for the 1995 final data. Rates for 1981-1989 have been recomputed based on populations for those years that are consistent with the 1990 census levels.

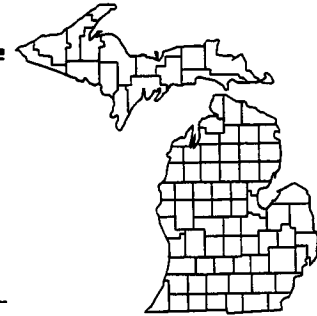
COUNTY AND STATE HEALTH STATISTICS PROFILES

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



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	9,549,353	Total Live Births:	133,231	Total Deaths:	83,496
Rank Among Counties:	-	Mothers Age <18:	6,241	Infant Deaths:	1,072
Per Square Mile:	167.7	Low Weight Births:	10,228	Neonatal Deaths:	703
		First Births:	52,939	Postneonatal Deaths:	369
				Perinatal Deaths:	1,329
				Fetal Deaths:	759
MARRIAGE		DIVORCE			
Marriages:	68,598	Divorces:	38,169		
Marriage Rate:	14.4	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	133,231	14.0	104,922	13.2	24,073	17.4	3,307	17.0
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	6,241	46.8	3,667	34.9	2,445	101.6	113	34.2
Low Weight	10,228	76.8	6,673	63.6	3,280	136.3	197	59.6
Under 1,500 Grams	2,035	15.3	1,220	11.6	761	31.6	35	10.6
< 38 Weeks Gestation	23,010	172.7	16,439	156.7	5,898	245.0	532	160.9
Prenatal Care Began in 1st Trimester	108,146	811.7	89,100	849.2	15,846	658.2	2,521	762.3

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	1,072	8.0	627	6.0	421	17.5	21	6.4
Neonatal Deaths	703	5.3	410	3.9	279	11.6	14	4.2
Postneonatal Deaths	369	2.8	217	2.1	142	5.9	7	2.1
Perinatal Deaths	1,329	9.9	843	8.0	445	18.3	24	7.2
Fetal Deaths	759	5.7	506	4.8	224	9.2	12	3.6

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	83,496	41,662	41,833	70,665	34,727	35,937	12,069	6,536	5,533	733	382	351	
	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	1,072	232	121	155	535	605	667	2,352	4,383	6,305	12,602	54,457	10
White Male	348	89	43	67	255	264	266	1,054	1,912	3,012	6,052	21,361	4
White Female	278	70	40	41	115	86	143	569	1,087	1,883	4,293	27,330	2
Black Male	227	28	24	26	121	193	182	432	844	784	1,204	2,469	2
Black Female	194	39	12	14	34	50	62	255	471	534	910	2,956	2
Other Male	13	5	1	4	6	8	7	27	34	53	76	148	-
Other Female	8	1	1	3	4	4	7	14	32	37	60	180	-

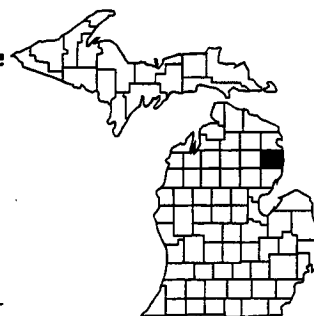
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	83,496	874.4	70,665	886.3	12,069	872.9	1,043	39.4
Diseases of the Heart	27,980	293.0	24,124	302.6	3,636	263.0	30	1.1
Cancer	19,563	204.9	16,753	210.1	2,642	191.1	72	2.7
Stroke	5,748	60.2	4,934	61.9	758	54.8	7	0.3
Chronic Obstructive Pulmonary Diseases and Allied Conditions	3,677	38.5	3,362	42.2	289	20.9	19	0.7
Accidents and Adverse Effects	3,062	32.1	2,551	32.0	450	32.5	459	17.3
Pneumonia and Influenza	3,010	31.5	2,581	32.4	402	29.1	25	0.9
Diabetes Mellitus	2,348	24.6	1,949	24.4	372	26.9	3	*
Suicide	1,107	11.6	973	12.2	112	8.1	68	2.6
Kidney Disease	1,000	10.5	807	10.1	181	13.1	1	*
Chronic Liver Disease and Cirrhosis	968	10.1	763	9.6	191	13.8	-	-
Homicide	804	8.4	222	2.8	576	41.7	137	5.2
Atherosclerosis	760	8.0	713	8.9	43	3.1	-	-
AIDS	510	5.3	246	3.1	262	18.9	8	0.3

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Alcona County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	10,590	Total Live Births:	93	Total Deaths:	172
Rank Among Counties:	74	Mothers Age <18:	4	Infant Deaths:	-
Per Square Mile:	15.6	Low Weight Births:	5	Neonatal Deaths:	-
		First Births:	34	Postneonatal Deaths:	-
				Perinatal Deaths:	-
				Fetal Deaths:	-
MARRIAGE		DIVORCE			
Marriages:	64	Divorces:	46		
Marriage Rate:	12.1	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	93	8.8	91	8.7	-	-	2	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	4	*	4	*	-	-	-	-
Low Weight	5	*	5	*	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	19	204.3	17	186.8	-	-	2	*
Prenatal Care Began in 1st Trimester	84	903.2	82	901.1	-	-	2	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	172	87	85	170	86	84	-	-	-	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	6	24	138	-
White Male	-	-	-	-	-	-	-	-	3	4	17	62	-
White Female	-	-	-	-	-	-	-	-	1	2	7	74	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	1	-

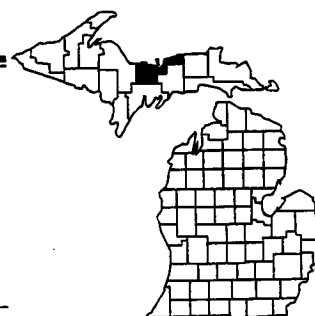
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	172	1,624.2	170	1,623.8	-	-	-	-
Diseases of the Heart	51	481.6	51	487.2	-	-	-	-
Cancer	39	368.3	38	363.0	-	-	-	-
Stroke	20	188.9	20	191.0	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	11	103.9	11	105.1	-	-	-	-
Accidents and Adverse Effects	9	85.0	9	86.0	-	-	-	-
Pneumonia and Influenza	11	103.9	10	95.5	-	-	-	-
Diabetes Mellitus	5	*	5	*	-	-	-	-
Suicide	2	*	2	*	-	-	-	-
Kidney Disease	2	*	2	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Alger County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	9,847	Total Live Births:	93	Total Deaths:	111
Rank Among Counties:	75	Mothers Age <18:	1	Infant Deaths:	1
Per Square Mile:	10.8	Low Weight Births:	6	Neonatal Deaths:	1
		First Births:	41	Postneonatal Deaths:	-
				Perinatal Deaths:	1
				Fetal Deaths:	-
MARRIAGE		DIVORCE			
Marriages:	63	Divorces:	37		
Marriage Rate:	12.8	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	93	9.4	86	9.5	-	-	7	18.9
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	1	*	-	-	-	-	1	*
Low Weight	6	64.5	5	*	-	-	1	*
Under 1,500 Grams	3	*	2	*	-	-	1	*
< 38 Weeks Gestation	18	193.5	17	197.7	-	-	1	*
Prenatal Care Began in 1st Trimester	73	784.9	70	814.0	-	-	3	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	111	54	57	110	53	57	-	-	-	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	-	-	-	7	7	19	76	-
White Male	1	-	-	-	1	-	-	-	5	3	11	32	-
White Female	-	-	-	-	-	-	-	-	2	4	8	43	-
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	111	1,127.2	110	1,219.2	-	-	1	*
Diseases of the Heart	47	477.3	47	520.9	-	-	-	-
Cancer	23	233.6	22	243.8	-	-	-	-
Stroke	12	121.9	12	133.0	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	4	*	4	*	-	-	-	-
Accidents and Adverse Effects	3	*	3	*	-	-	1	*
Pneumonia and Influenza	1	*	1	*	-	-	-	-
Diabetes Mellitus	4	*	4	*	-	-	-	-
Suicide	2	*	2	*	-	-	-	-
Kidney Disease	-	-	-	-	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Allegan County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	97,691	Total Live Births:	1,413	Total Deaths:	790
Rank Among Counties:	20	Mothers Age <18:	66	Infant Deaths:	9
Per Square Mile:	117.4	Low Weight Births:	87	Neonatal Deaths:	6
		First Births:	584	Postneonatal Deaths:	3
				Perinatal Deaths:	8
				Fetal Deaths:	3
MARRIAGE		DIVORCE			
Marriages:	708	Divorces:	437		
Marriage Rate:	14.5	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	1,413	14.5	1,383	14.5	16	12.3	13	11.7
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	66	46.7	61	44.1	4	*	1	*
Low Weight	87	61.6	82	59.3	2	*	3	*
Under 1,500 Grams	20	14.2	19	13.7	1	*	1	*
< 38 Weeks Gestation	217	153.6	210	151.8	6	375.0	-	-
Prenatal Care Began in 1st Trimester	1,146	811.0	1,131	817.8	9	562.5	5	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	9	6.4	9	6.5	-	-	-	-
Neonatal Deaths	6	4.2	6	4.3	-	-	-	-
Postneonatal Deaths	3	*	3	*	-	-	-	-
Perinatal Deaths	8	5.6	8	5.8	-	-	-	-
Fetal Deaths	3	*	3	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	790	389	401	752	367	385	32	19	13	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	9	2	1	1	11	7	5	17	37	60	95	545	-
White Male	9	1	-	1	7	6	2	7	23	32	51	228	-
White Female	-	1	1	-	4	1	3	10	10	24	35	296	-
Black Male	-	-	-	-	-	-	-	-	3	1	6	9	-
Black Female	-	-	-	-	-	-	-	-	-	2	2	9	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	1	-
Other Female	-	-	-	-	-	-	-	-	1	1	-	1	-

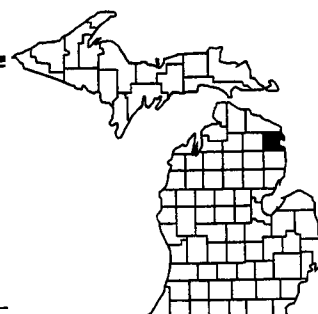
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	790	808.7	752	789.3	32	2,463.4	15	49.9
Diseases of the Heart	250	255.9	237	248.7	11	846.8	-	-
Cancer	196	200.6	184	193.1	10	769.8	-	-
Stroke	54	55.3	50	52.5	3	*	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	25	25.6	25	26.2	-	-	-	-
Accidents and Adverse Effects	39	39.9	39	40.9	-	-	12	39.9
Pneumonia and Influenza	45	46.1	43	45.1	2	*	-	-
Diabetes Mellitus	17	17.4	16	16.8	1	*	-	-
Suicide	15	15.4	15	15.7	-	-	1	*
Kidney Disease	11	11.3	11	11.5	-	-	1	*
Chronic Liver Disease and Cirrhosis	6	6.1	6	6.3	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	4	*	3	*	1	*	-	-
AIDS	3	*	3	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Alpena County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	30,845	Total Live Births:	293	Total Deaths:	352
Rank Among Counties:	46	Mothers Age <18:	16	Infant Deaths:	3
Per Square Mile:	54.4	Low Weight Births:	13	Neonatal Deaths:	2
		First Births:	129	Postneonatal Deaths:	1
				Perinatal Deaths:	1
				Fetal Deaths:	-
MARRIAGE		DIVORCE			
Marriages:	244	Divorces:	135		
Marriage Rate:	15.8	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	293	9.5	289	9.4	1	*	3	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	16	54.6	16	55.4	-	-	-	-
Low Weight	13	44.4	13	45.0	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	43	146.8	43	148.8	-	-	-	-
Prenatal Care Began in 1st Trimester	272	928.3	269	930.8	-	-	3	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	1	*	1	*	-	-	-	-
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	352	191	161	350	189	161	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	1	-	2	2	3	11	19	19	55	236	-
White Male	1	-	1	-	2	1	1	9	12	12	34	116	-
White Female	2	1	-	-	-	1	1	2	7	7	21	119	-
Black Male	-	-	-	-	-	-	1	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

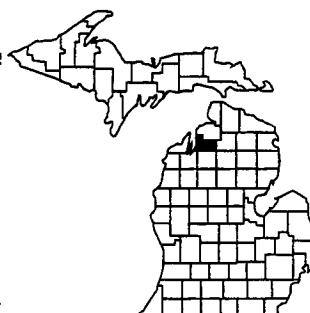
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	352	1,141.2	350	1,143.7	1	*	4	*
Diseases of the Heart	138	447.4	137	447.7	-	-	-	-
Cancer	72	233.4	72	235.3	-	-	1	*
Stroke	21	68.1	21	68.6	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	25	81.1	25	81.7	-	-	-	-
Accidents and Adverse Effects	16	51.9	16	52.3	-	-	2	*
Pneumonia and Influenza	9	29.2	9	29.4	-	-	-	-
Diabetes Mellitus	13	42.1	13	42.5	-	-	-	-
Suicide	4	*	4	*	-	-	-	-
Kidney Disease	3	*	3	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	4	*	4	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	2	*	2	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Antrim County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	20,256	Total Live Births:	223	Total Deaths:	220
Rank Among Counties:	63	Mothers Age <18:	11	Infant Deaths:	3
Per Square Mile:	42.2	Low Weight Births:	18	Neonatal Deaths:	2
		First Births:	84	Postneonatal Deaths:	1
				Perinatal Deaths:	2
				Fetal Deaths:	-
MARRIAGE		DIVORCE			
Marriages:	151	Divorces:	111		
Marriage Rate:	14.9	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	223	11.0	218	10.9	-	-	4	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	11	49.3	10	45.9	-	-	1	*
Low Weight	18	80.7	18	82.6	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	38	170.4	36	165.1	-	-	2	*
Prenatal Care Began in 1st Trimester	181	811.7	179	821.1	-	-	2	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	220	118	102	218	116	102	-	-	-	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	3	-	2	-	1	-	-	1	6	15	39	153	-
White Male	1	-	1	-	1	-	-	1	4	10	20	78	-
White Female	2	-	1	-	-	-	-	-	2	4	19	74	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	1	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

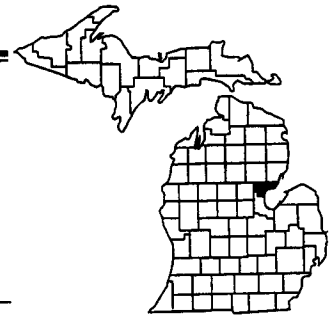
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	220	1,086.1	218	1,091.5	-	-	3	*
Diseases of the Heart	78	385.1	78	390.5	-	-	-	-
Cancer	69	340.6	68	340.5	-	-	1	*
Stroke	7	34.6	7	35.0	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	8	39.5	8	40.1	-	-	-	-
Accidents and Adverse Effects	6	29.6	6	30.0	-	-	1	*
Pneumonia and Influenza	2	*	2	*	-	-	-	-
Diabetes Mellitus	5	*	4	*	-	-	-	-
Suicide	1	*	1	*	-	-	1	*
Kidney Disease	4	*	4	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Arenac County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	16,151	Total Live Births:	172	Total Deaths:	177
Rank Among Counties:	66	Mothers Age <18:	9	Infant Deaths:	2
Per Square Mile:	44.0	Low Weight Births:	19	Neonatal Deaths:	-
		First Births:	48	Postneonatal Deaths:	2
				Perinatal Deaths:	-
				Fetal Deaths:	-
MARRIAGE		DIVORCE			
Marriages:	106	Divorces:	68		
Marriage Rate:	13.1	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	172	10.6	169	10.8	-	-	3	-
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	9	52.3	9	53.3	-	-	-	-
Low Weight	19	110.5	19	112.4	-	-	-	-
Under 1,500 Grams	2	-	2	-	-	-	-	-
< 38 Weeks Gestation	28	162.8	28	165.7	-	-	-	-
Prenatal Care Began in 1st Trimester	147	854.7	145	858.0	-	-	2	-

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	-	-	-	-	-	-	-	-
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	177	97	80	174	96	78	-	-	-	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	2	-	-	-	1	1	-	2	12	14	28	117	-
White Male	2	-	-	-	1	1	-	-	10	9	16	57	-
White Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Male	-	-	-	-	-	-	-	2	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	1	-	-	-	-

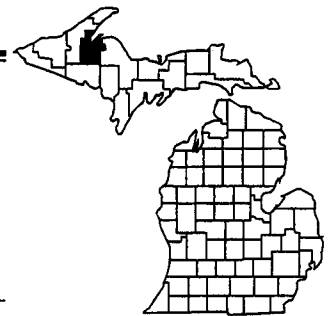
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	177	1,095.9	174	1,107.5	-	-	1	-
Diseases of the Heart	68	421.0	68	432.8	-	-	-	-
Cancer	38	235.3	36	229.1	-	-	-	-
Stroke	16	99.1	16	101.8	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	4	-	4	-	-	-	-	-
Accidents and Adverse Effects	8	49.5	8	50.9	-	-	-	-
Pneumonia and Influenza	4	-	3	-	-	-	-	-
Diabetes Mellitus	6	37.1	6	38.2	-	-	-	-
Suicide	3	-	3	-	-	-	-	-
Kidney Disease	2	-	2	-	-	-	-	-
Chronic Liver Disease and Cirrhosis	6	37.1	6	38.2	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	4	-	4	-	-	-	-	-
AIDS	1	-	1	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Baraga County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	8,493	Total Live Births:	82	Total Deaths:	112
Rank Among Counties:	81	Mothers Age <18:	6	Infant Deaths:	-
Per Square Mile:	9.4	Low Weight Births:	5	Neonatal Deaths:	-
		First Births:	30	Postneonatal Deaths:	-
				Perinatal Deaths:	1
				Fetal Deaths:	1
MARRIAGE		DIVORCE			
Marriages:	55	Divorces:	25		
Marriage Rate:	13.0	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	82	9.7	63	8.8	-	-	19	17.1
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	6	73.2	1	*	-	-	5	*
Low Weight	5	*	4	*	-	-	1	*
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	8	97.6	7	111.1	-	-	1	*
Prenatal Care Began in 1st Trimester	71	865.9	55	873.0	-	-	16	842.1

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	112	66	46	99	58	41	2	2	-	11	6	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	-	-	-	-	1	1	1	2	3	10	7	87	-
White Male	-	-	-	-	1	1	-	1	1	5	4	45	-
White Female	-	-	-	-	-	-	-	1	1	2	1	36	-
Black Male	-	-	-	-	-	-	1	-	1	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	1	1	4	-
Other Female	-	-	-	-	-	-	-	-	-	2	1	2	-

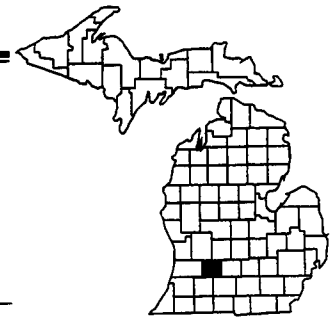
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	112	1,318.7	99	1,386.9	2	*	1	*
Diseases of the Heart	50	588.7	44	616.4	-	-	-	-
Cancer	20	235.5	18	252.2	-	-	-	-
Stroke	11	129.5	9	126.1	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	2	*	2	*	-	-	-	-
Accidents and Adverse Effects	5	*	3	*	1	*	-	-
Pneumonia and Influenza	6	70.6	6	84.1	-	-	-	-
Diabetes Mellitus	3	*	3	*	-	-	-	-
Suicide	4	*	3	*	1	*	1	*
Kidney Disease	1	*	1	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Barry County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	52,639	Total Live Births:	714	Total Deaths:	395
Rank Among Counties:	34	Mothers Age <18:	36	Infant Deaths:	2
Per Square Mile:	94.0	Low Weight Births:	50	Neonatal Deaths:	2
		First Births:	283	Postneonatal Deaths:	-
				Perinatal Deaths:	5
				Fetal Deaths:	3
MARRIAGE		DIVORCE			
Marriages:	443	Divorces:	289		
Marriage Rate:	16.8	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	714	13.6	704	13.5	2	*	8	22.2
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	36	50.4	35	49.7	-	-	1	*
Low Weight	50	70.0	49	69.6	-	-	1	*
Under 1,500 Grams	5	*	5	*	-	-	-	-
< 38 Weeks Gestation	124	173.7	121	171.9	1	*	2	*
Prenatal Care Began in 1st Trimester	611	855.7	605	859.4	1	*	5	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	5	*	5	*	-	-	-	-
Fetal Deaths	3	*	3	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	395	202	193	391	200	191	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	2	3	-	-	2	2	1	9	18	31	67	260	-
White Male	1	1	-	-	1	1	1	5	12	17	42	119	-
White Female	1	2	-	-	1	1	-	3	6	14	24	139	-
Black Male	-	-	-	-	-	-	-	-	-	-	1	1	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
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	395	750.4	391	749.3	2	*	5	*
Diseases of the Heart	133	252.7	130	249.1	2	*	1	*
Cancer	93	176.7	93	178.2	-	-	1	*
Stroke	23	43.7	23	44.1	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	21	39.9	21	40.2	-	-	-	-
Accidents and Adverse Effects	23	43.7	22	42.2	-	-	2	*
Pneumonia and Influenza	23	43.7	23	44.1	-	-	-	-
Diabetes Mellitus	9	17.1	9	17.2	-	-	-	-
Suicide	4	*	4	*	-	-	-	-
Kidney Disease	3	*	3	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Bay County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	111,524	Total Live Births:	1,347	Total Deaths:	1,013
Rank Among Counties:	18	Mothers Age <18:	62	Infant Deaths:	13
Per Square Mile:	249.3	Low Weight Births:	95	Neonatal Deaths:	9
		First Births:	563	Postneonatal Deaths:	4
				Perinatal Deaths:	13
				Fetal Deaths:	5
MARRIAGE		DIVORCE			
Marriages:	845	Divorces:	425		
Marriage Rate:	15.2	Divorce Rate:	7.6		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,347	12.1	1,302	12.0	24	16.1	21	15.1
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	62	46.0	58	44.5	3	*	1	*
Low Weight	95	70.5	90	69.1	2	*	3	*
Under 1,500 Grams	20	14.8	18	13.8	-	-	2	*
< 38 Weeks Gestation	234	173.7	223	171.3	6	250.0	5	*
Prenatal Care Began in 1st Trimester	1,219	905.0	1,185	910.1	19	791.7	15	714.3

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	9.7	13	10.0	-	-	-	-
Neonatal Deaths	9	6.7	9	6.9	-	-	-	-
Postneonatal Deaths	4	*	4	*	-	-	-	-
Perinatal Deaths	13	9.6	12	9.2	1	*	-	-
Fetal Deaths	5	*	4	*	1	*	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	1,013	522	491	999	516	483	8	3	5	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	13	1	1	3	4	3	4	20	52	61	163	688	-
White Male	7	1	-	-	1	2	2	9	31	38	98	327	-
White Female	6	-	-	3	3	1	2	10	20	21	63	354	-
Black Male	-	-	-	-	-	-	-	1	-	1	-	1	-
Black Female	-	-	1	-	-	-	-	1	-	-	1	2	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	2	-
Other Female	-	-	-	-	-	-	-	-	1	-	-	2	-

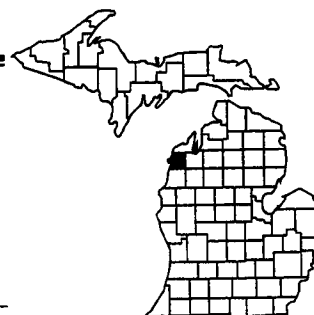
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,013	908.3	999	919.5	8	538.0	9	30.2
Diseases of the Heart	358	321.0	353	324.9	2	*	1	*
Cancer	256	229.5	251	231.0	3	*	-	-
Stroke	57	51.1	57	52.5	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	63	56.5	63	58.0	-	-	-	-
Accidents and Adverse Effects	36	32.3	36	33.1	-	-	5	*
Pneumonia and Influenza	26	23.3	25	23.0	1	*	1	*
Diabetes Mellitus	35	31.4	34	31.3	1	*	-	-
Suicide	10	9.0	10	9.2	-	-	-	-
Kidney Disease	12	10.8	12	11.0	-	-	-	-
Chronic Liver Disease and Cirrhosis	8	7.2	8	7.4	-	-	-	-
Homicide	2	*	2	*	-	-	-	-
Atherosclerosis	19	17.0	19	17.5	-	-	-	-
AIDS	2	*	2	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Benzie County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	13,657	Total Live Births:	135	Total Deaths:	159
Rank Among Counties:	69	Mothers Age <18:	5	Infant Deaths:	-
Per Square Mile:	42.4	Low Weight Births:	4	Neonatal Deaths:	-
		First Births:	62	Postneonatal Deaths:	-
				Perinatal Deaths:	-
				Fetal Deaths:	-
MARRIAGE		DIVORCE			
Marriages:	115	Divorces:	70		
Marriage Rate:	16.8	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	135	9.9	131	9.8	1	*	3	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	5	*	5	*	-	-	-	-
Low Weight	4	*	4	*	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	22	163.0	22	167.9	-	-	-	-
Prenatal Care Began in 1st Trimester	102	755.6	101	771.0	-	-	1	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	159	84	75	155	82	73	2	1	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	-	-	-	2	-	-	-	3	5	10	22	117	-
White Male	-	-	-	1	-	-	-	2	4	7	14	54	-
White Female	-	-	-	1	-	-	-	-	1	3	8	60	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Black Female	-	-	-	-	-	-	-	1	-	-	-	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	159	1,164.2	155	1,164.6	2	*	2	*
Diseases of the Heart	65	475.9	64	480.9	1	-	-	-
Cancer	40	292.9	39	293.0	-	-	-	-
Stroke	14	102.5	14	105.2	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	7	51.3	7	52.6	-	-	-	-
Accidents and Adverse Effects	2	*	2	*	-	-	1	*
Pneumonia and Influenza	3	*	3	*	-	-	-	-
Diabetes Mellitus	5	*	5	*	-	-	-	-
Suicide	2	*	1	*	-	-	-	-
Kidney Disease	3	*	3	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Berrien County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	162,621	Total Live Births:	2,262	Total Deaths:	1,513
Rank Among Counties:	12	Mothers Age <18:	198	Infant Deaths:	18
Per Square Mile:	282.3	Low Weight Births:	213	Neonatal Deaths:	13
		First Births:	905	Postneonatal Deaths:	5
				Perinatal Deaths:	29
				Fetal Deaths:	18
MARRIAGE		DIVORCE			
Marriages:	1,325	Divorces:	626		
Marriage Rate:	16.3	Divorce Rate:	7.7		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	2,262	13.9	1,558	11.7	655	24.4	47	16.9
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	198	87.5	75	48.1	120	183.2	3	*
Low Weight	213	94.2	104	66.8	105	160.3	4	*
Under 1,500 Grams	48	21.2	18	11.6	30	45.8	-	-
< 38 Weeks Gestation	405	179.0	260	166.9	135	206.1	10	212.8
Prenatal Care Began in 1st Trimester	1,578	697.6	1,227	787.5	318	485.5	31	659.6

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	18	8.0	5	*	13	19.8	-	-
Neonatal Deaths	13	5.7	4	*	9	13.7	-	-
Postneonatal Deaths	5	*	1	*	4	*	-	-
Perinatal Deaths	29	12.7	14	8.9	14	21.1	-	-
Fetal Deaths	18	7.9	10	6.4	7	10.6	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	1,513	759	754	1,270	629	641	230	124	106	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	18	7	2	6	9	13	10	48	79	102	235	984	-
White Male	3	3	2	1	4	7	5	19	35	56	116	378	-
White Female	2	2	-	-	1	-	1	20	18	23	81	493	-
Black Male	6	2	-	4	2	6	3	4	18	10	18	51	-
Black Female	7	-	-	1	2	-	-	4	7	10	18	57	-
Other Male	-	-	-	-	-	-	-	1	1	1	1	2	-
Other Female	-	-	-	-	-	-	1	-	-	2	1	3	-

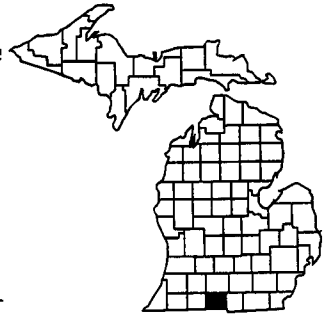
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,513	930.4	1,270	955.0	230	856.4	24	52.6
Diseases of the Heart	452	277.9	400	300.8	48	178.7	-	-
Cancer	370	227.5	310	233.1	59	219.7	3	*
Stroke	114	70.1	90	67.7	20	74.5	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	55	33.8	50	37.6	5	*	-	-
Accidents and Adverse Effects	61	37.5	47	35.3	12	44.7	8	17.5
Pneumonia and Influenza	45	27.7	38	28.6	7	26.1	2	*
Diabetes Mellitus	65	40.0	52	39.1	13	48.4	-	-
Suicide	17	10.5	16	12.0	1	*	1	*
Kidney Disease	14	8.6	12	9.0	2	*	-	-
Chronic Liver Disease and Cirrhosis	20	12.3	19	14.3	1	*	-	-
Homicide	20	12.3	6	4.5	14	52.1	5	*
Atherosclerosis	19	11.7	17	12.8	1	*	-	-
AIDS	8	4.9	7	5.3	1	*	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Branch County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	42,742	Total Live Births:	525	Total Deaths:	394
Rank Among Counties:	38	Mothers Age <18:	25	Infant Deaths:	5
Per Square Mile:	84.1	Low Weight Births:	40	Neonatal Deaths:	5
		First Births:	212	Postneonatal Deaths:	-
				Perinatal Deaths:	6
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	326	Divorces:	228		
Marriage Rate:	15.3	Divorce Rate:	10.7		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	525	12.3	517	12.5	1	*	6	14.5
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	25	47.6	25	48.4	-	-	-	-
Low Weight	40	76.2	40	77.4	-	-	-	-
Under 1,500 Grams	8	15.2	8	15.5	-	-	-	-
< 38 Weeks Gestation	80	152.4	80	154.7	-	-	-	-
Prenatal Care Began in 1st Trimester	407	775.2	403	779.5	1	*	2	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	5	*	5	*	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	6	11.4	6	11.6	-	-	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	394	195	199	391	192	199	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	-	2	1	3	4	6	15	30	52	275	-
White Male	3	-	-	1	1	2	1	3	8	20	27	126	-
White Female	2	1	-	-	-	1	3	3	7	9	25	148	-
Black Male	-	-	-	1	-	-	-	-	-	1	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

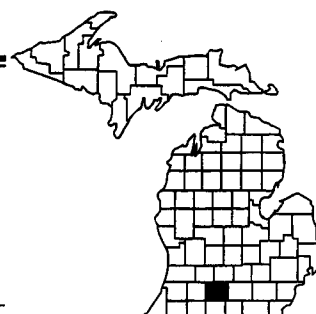
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	394	921.8	391	944.0	2	*	4	*
Diseases of the Heart	146	341.6	145	350.1	-	-	-	-
Cancer	93	217.6	92	222.1	1	*	-	-
Stroke	20	46.8	20	48.3	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	19	44.5	19	45.9	-	-	-	-
Accidents and Adverse Effects	14	32.8	13	31.4	1	*	4	*
Pneumonia and Influenza	13	30.4	13	31.4	-	-	-	-
Diabetes Mellitus	20	46.8	20	48.3	-	-	-	-
Suicide	6	14.0	6	14.5	-	-	-	-
Kidney Disease	3	*	3	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Calhoun County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	140,688	Total Live Births:	1,834	Total Deaths:	1,391
Rank Among Counties:	15	Mothers Age <18:	137	Infant Deaths:	10
Per Square Mile:	197.7	Low Weight Births:	131	Neonatal Deaths:	2
		First Births:	781	Postneonatal Deaths:	8
				Perinatal Deaths:	9
				Fetal Deaths:	7
MARRIAGE		DIVORCE			
Marriages:	1,207	Divorces:	702		
Marriage Rate:	17.2	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	1,834	13.0	1,544	12.6	245	15.4	41	18.5
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	137	74.7	94	60.9	40	163.3	3	*
Low Weight	131	71.4	98	63.5	29	118.4	3	*
Under 1,500 Grams	20	10.9	16	10.4	3	*	1	*
< 38 Weeks Gestation	310	169.0	256	165.8	48	195.9	5	*
Prenatal Care Began in 1st Trimester	1,424	776.4	1,236	800.5	155	632.7	31	756.1

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	10	5.5	3	*	5	*	2	*
Neonatal Deaths	2	*	-	-	1	*	1	*
Postneonatal Deaths	8	4.4	3	*	4	*	1	*
Perinatal Deaths	9	4.9	5	*	3	*	1	*
Fetal Deaths	7	3.8	5	*	2	*	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	1,391	691	700	1,223	595	628	154	88	66	14	8	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	10	5	-	-	13	9	7	34	68	95	216	934	-
White Male	2	2	-	-	6	3	3	13	32	49	112	373	-
White Female	1	1	-	-	3	2	2	10	19	34	72	484	-
Black Male	5	-	-	-	3	4	1	6	11	3	21	34	-
Black Female	-	1	-	-	1	-	-	3	3	8	9	41	-
Other Male	2	1	-	-	-	-	-	2	-	1	1	1	-
Other Female	-	-	-	-	-	-	1	-	3	-	1	1	-

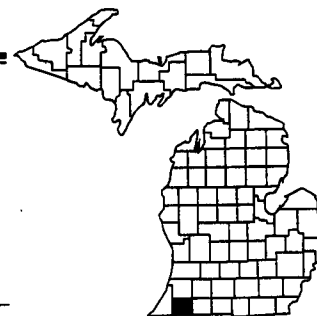
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,391	988.7	1,223	997.7	154	968.8	18	46.1
Diseases of the Heart	444	315.6	397	323.9	43	270.5	-	-
Cancer	285	202.6	252	205.6	31	195.0	1	*
Stroke	111	78.9	97	79.1	14	88.1	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	82	58.3	77	62.8	4	*	-	-
Accidents and Adverse Effects	60	42.6	50	40.8	8	50.3	9	23.0
Pneumonia and Influenza	63	44.8	58	47.3	5	*	-	-
Diabetes Mellitus	54	38.4	47	38.3	7	44.0	-	-
Suicide	18	12.8	17	13.9	1	*	1	*
Kidney Disease	22	15.6	17	13.9	5	*	-	-
Chronic Liver Disease and Cirrhosis	11	7.8	8	6.5	3	*	-	-
Homicide	10	7.1	5	*	5	*	4	*
Atherosclerosis	16	11.4	16	13.1	-	-	-	-
AIDS	4	*	1	*	3	*	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Cass County



POPULATION		NATIVITY		MORTALITY	
As of April 1, 1995:	49,604	Total Live Births:	578	Total Deaths:	445
Rank Among Counties:	35	Mothers Age <18:	50	Infant Deaths:	1
Per Square Mile:	100.0	Low Weight Births:	43	Neonatal Deaths:	1
		First Births:	240	Postneonatal Deaths:	-
				Perinatal Deaths:	2
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	315	Divorces:	215		
Marriage Rate:	12.7	Divorce Rate:	8.7		

NATIVITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	578	11.7	513	11.4	53	14.3	11	14.3
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	50	86.5	47	91.6	3	*	-	-
Low Weight	43	74.4	37	72.1	6	113.2	-	-
Under 1,500 Grams	6	10.4	6	11.7	-	-	-	-
< 38 Weeks Gestation	88	152.2	76	148.1	10	188.7	2	*
Prenatal Care Began in 1st Trimester	430	743.9	387	754.4	35	660.4	7	636.4

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	-	-	-	-	-	-	1	*
Perinatal Deaths	2	*	1	*	-	-	1	*
Fetal Deaths	2	*	1	*	-	-	1	*

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	445	231	214	398	209	189	42	20	22	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	1	2	1	3	2	3	5	6	17	33	71	301	-
White Male	1	2	-	2	2	1	5	5	8	16	34	133	-
White Female	-	-	1	-	-	1	-	-	5	13	27	141	-
Black Male	-	-	-	-	-	1	-	-	-	1	3	15	-
Black Female	-	-	-	-	-	-	-	1	3	3	5	10	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	2	-
Other Female	-	-	-	-	-	-	-	1	-	-	2	-	-

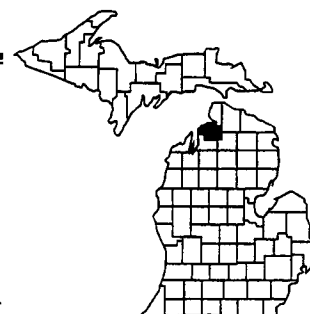
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	445	897.1	398	881.9	42	1,134.8	8	57.9
Diseases of the Heart	145	292.3	134	296.9	10	270.2	-	-
Cancer	104	209.7	91	201.6	11	297.2	-	-
Stroke	26	52.4	25	55.4	1	*	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	20	40.3	19	42.1	1	*	-	-
Accidents and Adverse Effects	26	52.4	23	51.0	3	*	3	*
Pneumonia and Influenza	17	34.3	14	31.0	3	*	-	-
Diabetes Mellitus	15	30.2	10	22.2	5	*	-	-
Suicide	5	*	5	*	-	-	1	*
Kidney Disease	2	*	-	-	2	*	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	2	*	2	*	-	-	-	-
Atherosclerosis	3	*	3	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Charlevoix County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	23,055	Total Live Births:	345	Total Deaths:	236
Rank Among Counties:	56	Mothers Age :	15	Infant Deaths:	1
Per Square Mile:	54.8	Low Weight Births:	13	Neonatal Deaths:	1
		First Births:	120	Postneonatal Deaths:	-
				Perinatal Deaths:	6
				Fetal Deaths:	6
MARRIAGE		DIVORCE			
Marriages:	232	Divorces:	115		
Marriage Rate:	20.1	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	345	15.0	330	14.6	4	*	11	23.4
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age	15	43.5	14	42.4	1	*	-	-
Low Weight	13	37.7	13	39.4	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	38	110.1	35	106.1	-	-	3	*
Prenatal Care Began in 1st Trimester	286	829.0	274	830.3	3	*	9	818.2

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	17.1	5	*	-	-	1	*
Fetal Deaths	6	17.1	5	*	-	-	1	*

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	236	116	120	229	113	116	-	-	-	7	3	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	3	1	1	3	2	1	2	8	15	39	160	-
White Male	-	1	-	1	2	1	-	2	4	9	20	73	-
White Female	1	-	1	-	1	1	1	-	2	6	19	84	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	1	-	-	-	-	-	-	2	-	-	-	-
Other Female	-	1	-	-	-	-	-	-	-	-	-	3	-

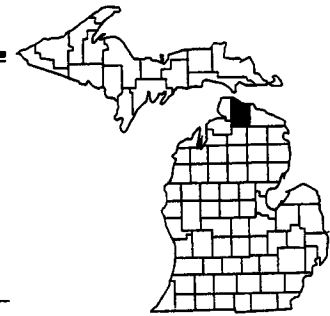
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	236	1,023.6	229	1,015.1	-	-	8	129.1
Diseases of the Heart	77	334.0	77	341.3	-	-	1	*
Cancer	58	251.6	57	252.7	-	-	1	*
Stroke	18	78.1	16	70.9	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	12	52.0	12	53.2	-	-	-	-
Accidents and Adverse Effects	12	52.0	12	53.2	-	-	1	*
Pneumonia and Influenza	6	26.0	6	26.6	-	-	-	-
Diabetes Mellitus	7	30.4	7	31.0	-	-	-	-
Suicide	3	*	3	*	-	-	-	-
Kidney Disease	1	*	1	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Cheboygan County



POPULATION		NATILITY		MORTALITY	
As of April 1, 1995:	22,851	Total Live Births:	255	Total Deaths:	275
Rank Among Counties:	58	Mothers Age :	18	Infant Deaths:	2
Per Square Mile:	31.7	Low Weight Births:	13	Neonatal Deaths:	1
		First Births:	104	Postneonatal Deaths:	1
				Perinatal Deaths:	2
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	198	Divorces:	104		
Marriage Rate:	17.3	Divorce Rate:	9.1		

NATILITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	255	11.2	241	10.9	2	*	12	18.8
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age	18	70.6	17	70.5	-	-	-	-
Low Weight	13	51.0	13	53.9	-	-	-	-
Under 1,500 Grams	2	*	2	*	-	-	3	*
< 38 Weeks Gestation	41	160.8	38	157.7	-	-	-	-
Prenatal Care Began in 1st Trimester	216	847.1	204	846.5	2	*	10	833.3

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	2	*	2	*	-	-	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	275	131	144	271	128	143	-	-	-	4	3	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	-	-	-	3	16	18	57	178	-
White Male	2	-	-	-	-	-	-	2	10	8	30	76	-
White Female	-	-	-	1	-	-	-	1	6	10	24	101	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	3	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

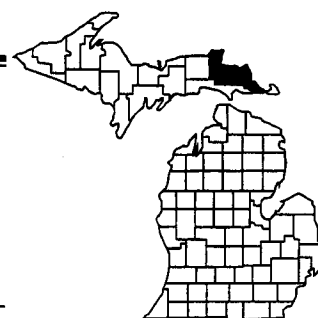
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	275	1,203.4	271	1,221.0	-	-	1	*
Diseases of the Heart	92	402.6	89	401.0	-	-	-	-
Cancer	74	323.8	74	333.4	-	-	1	*
Stroke	17	74.4	16	72.1	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	20	87.5	20	90.1	-	-	-	-
Accidents and Adverse Effects	8	35.0	8	36.0	-	-	-	-
Pneumonia and Influenza	9	39.4	9	40.5	-	-	-	-
Diabetes Mellitus	2	*	2	*	-	-	-	-
Suicide	1	*	1	*	-	-	-	-
Kidney Disease	8	35.0	8	36.0	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Chippewa County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	36,859	Total Live Births:	459	Total Deaths:	292
Rank Among Counties:	43	Mothers Age <18:	22	Infant Deaths:	2
Per Square Mile:	23.2	Low Weight Births:	21	Neonatal Deaths:	2
		First Births:	193	Postneonatal Deaths:	-
				Perinatal Deaths:	4
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	267	Divorces:	112		
Marriage Rate:	14.5	Divorce Rate:	6.1		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	459	12.5	341	11.4	7	3.1	111	23.0
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	22	47.9	15	44.0	3	*	4	*
Low Weight	21	45.8	16	46.9	-	-	5	*
Under 1,500 Grams	5	*	2	*	-	-	3	*
< 38 Weeks Gestation	62	135.1	40	117.3	1	*	21	189.2
Prenatal Care Began in 1st Trimester	372	810.5	285	835.8	6	857.1	81	729.7

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	292	157	135	266	141	125	-	-	-	25	15	10	
	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	3	4	4	6	13	11	40	208	-
White Male	2	-	-	1	1	2	2	4	5	9	21	94	-
White Female	-	-	-	-	2	1	1	-	5	-	15	101	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	1	1	2	3	1	2	5	-
Other Female	-	-	-	-	-	-	-	-	-	1	2	7	-

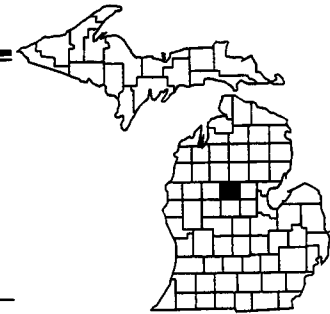
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	292	792.2	266	892.4	-	-	4	*
Diseases of the Heart	101	274.0	90	301.9	-	-	-	-
Cancer	62	168.2	59	197.9	-	-	-	-
Stroke	24	65.1	22	73.8	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	14	38.0	11	36.9	-	-	-	-
Accidents and Adverse Effects	15	40.7	14	47.0	-	-	2	*
Pneumonia and Influenza	8	21.7	6	20.1	-	-	-	-
Diabetes Mellitus	11	29.8	9	30.2	-	-	-	-
Suicide	3	*	3	*	-	-	1	*
Kidney Disease	3	*	3	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	-	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Clare County



POPULATION		NATIVITY		MORTALITY	
As of April 1, 1995:	28,080	Total Live Births:	361	Total Deaths:	333
Rank Among Counties:	48	Mothers Age <18:	14	Infant Deaths:	2
Per Square Mile:	49.3	Low Weight Births:	16	Neonatal Deaths:	1
		First Births:	116	Postneonatal Deaths:	1
				Perinatal Deaths:	2
				Fetal Deaths:	1
MARRIAGE		DIVORCE			
Marriages:	219	Divorces:	127		
Marriage Rate:	15.6	Divorce Rate:	9.0		

NATIVITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	361	12.9	354	12.7	-	-	7	30.3
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	14	38.8	14	39.5	-	-	-	-
Low Weight	16	44.3	16	45.2	-	-	-	-
Under 1,500 Grams	2	*	2	*	-	-	-	-
< 38 Weeks Gestation	58	160.7	57	161.0	-	-	1	*
Prenatal Care Began in 1st Trimester	270	747.9	267	754.2	-	-	3	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	*	1	*	-	-	1	*
Neonatal Deaths	1	*	-	-	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	2	*	1	*	-	-	1	*
Fetal Deaths	1	*	1	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	333	186	147	328	183	145	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	2	-	-	1	4	1	4	3	9	28	54	227	-
White Male	-	-	-	1	4	-	3	2	5	18	30	120	-
White Female	1	-	-	-	-	1	-	1	4	9	24	105	-
Black Male	-	-	-	-	-	1	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	1	-	1	-
Other Female	1	-	-	-	-	-	-	-	-	-	-	-	-

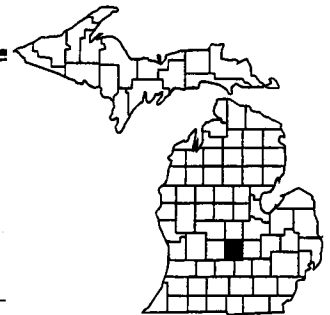
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	333	1,185.9	328	1,179.9	1	*	5	*
Diseases of the Heart	130	463.0	129	464.0	-	-	1	*
Cancer	80	284.9	80	287.8	-	-	-	-
Stroke	12	42.7	12	43.2	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	17	60.5	17	61.2	-	-	-	-
Accidents and Adverse Effects	14	49.9	13	46.8	1	*	2	*
Pneumonia and Influenza	15	53.4	14	50.4	-	-	-	-
Diabetes Mellitus	10	35.6	10	36.0	-	-	-	-
Suicide	-	-	-	-	-	-	-	-
Kidney Disease	10	35.6	10	36.0	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	1	*	1	*	-	-	1	*
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Clinton County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	61,660	Total Live Births:	789	Total Deaths:	429
Rank Among Counties:	28	Mothers Age <18:	18	Infant Deaths:	1
Per Square Mile:	107.6	Low Weight Births:	56	Neonatal Deaths:	-
		First Births:	291	Postneonatal Deaths:	1
				Perinatal Deaths:	1
				Fetal Deaths:	1
MARRIAGE		DIVORCE			
Marriages:	421	Divorces:	263		
Marriage Rate:	13.7	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	789	12.8	782	12.8	5	*	2	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	18	22.8	18	23.0	-	-	-	-
Low Weight	56	71.0	56	71.6	-	-	-	-
Under 1,500 Grams	4	*	4	*	-	-	-	-
< 38 Weeks Gestation	113	143.2	109	139.4	3	*	1	*
Prenatal Care Began in 1st Trimester	710	899.9	706	902.8	4	*	-	-

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	429	210	219	426	207	219	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	1	1	1	-	3	6	-	9	14	45	71	278	-
White Male	-	1	-	-	1	4	-	6	8	26	43	118	-
White Female	1	-	1	-	2	1	-	3	6	19	27	159	-
Black Male	-	-	-	-	-	-	-	-	-	-	1	1	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	1	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

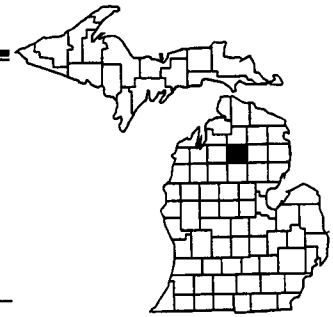
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	429	695.8	426	699.6	2	*	5	*
Diseases of the Heart	121	196.2	121	198.7	-	-	-	-
Cancer	107	173.5	105	172.4	2	*	-	-
Stroke	42	68.1	42	69.0	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	20	32.4	20	32.8	-	-	-	-
Accidents and Adverse Effects	21	34.1	20	32.8	-	-	5	*
Pneumonia and Influenza	25	40.5	25	41.1	-	-	-	-
Diabetes Mellitus	24	38.9	24	39.4	-	-	-	-
Suicide	6	9.7	6	9.9	-	-	-	-
Kidney Disease	5	*	5	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Crawford County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	13,521	Total Live Births:	170	Total Deaths:	128
Rank Among Counties:	71	Mothers Age <18:	6	Infant Deaths:	2
Per Square Mile:	24.2	Low Weight Births:	12	Neonatal Deaths:	1
		First Births:	56	Postneonatal Deaths:	1
				Perinatal Deaths:	1
				Fetal Deaths:	-
MARRIAGE		DIVORCE			
Marriages:	107	Divorces:	62		
Marriage Rate:	15.8	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	170	12.6	164	12.5	2	*	4	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	6	35.3	5	*	1	*	-	-
Low Weight	12	70.6	12	73.2	-	-	-	-
Under 1,500 Grams	3	*	3	*	-	-	-	-
< 38 Weeks Gestation	32	188.2	32	195.1	-	-	-	-
Prenatal Care Began in 1st Trimester	143	841.2	137	835.4	2	*	4	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	*	1	*	-	-	1	*
Neonatal Deaths	1	*	1	*	-	-	1	*
Postneonatal Deaths	1	*	-	-	-	-	-	-
Perinatal Deaths	1	*	1	*	-	-	-	-
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	128	77	51	125	74	51	-	-	-	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	2	-	-	1	1	-	-	2	7	13	23	79	-
White Male	1	-	-	-	1	-	-	1	6	9	13	43	-
White Female	-	-	-	-	-	-	-	-	-	3	10	36	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	1	1	-	-	-
Other Male	1	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

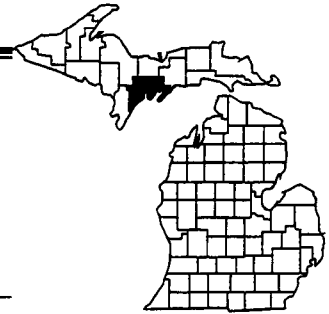
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	128	946.7	125	955.9	-	-	2	*
Diseases of the Heart	32	236.7	31	237.1	-	-	-	-
Cancer	33	244.1	33	252.4	-	-	1	*
Stroke	5	*	5	*	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	7	51.8	7	53.5	-	-	-	-
Accidents and Adverse Effects	6	44.4	6	45.9	-	-	1	*
Pneumonia and Influenza	2	*	2	*	-	-	-	-
Diabetes Mellitus	5	*	5	*	-	-	-	-
Suicide	3	*	3	*	-	-	-	-
Kidney Disease	1	*	1	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	6	44.4	6	45.9	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Delta County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	38,653	Total Live Births:	404	Total Deaths:	367
Rank Among Counties:	41	Mothers Age <18:	9	Infant Deaths:	1
Per Square Mile:	32.9	Low Weight Births:	27	Neonatal Deaths:	-
		First Births:	165	Postneonatal Deaths:	1
				Perinatal Deaths:	3
				Fetal Deaths:	3
MARRIAGE		DIVORCE			
Marriages:	310	Divorces:	149		
Marriage Rate:	16.0	Divorce Rate:	7.7		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	404	10.5	383	10.2	-	-	21	17.3
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	9	22.3	9	23.5	-	-	-	-
Low Weight	27	66.8	26	67.9	-	-	1	*
Under 1,500 Grams	8	19.8	8	20.9	-	-	-	-
< 38 Weeks Gestation	48	118.8	47	122.7	-	-	1	*
Prenatal Care Began in 1st Trimester	315	779.7	303	791.1	-	-	12	571.4

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	3	*	3	*	-	-	-	-
Fetal Deaths	3	*	3	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	367	178	189	360	174	186	-	-	-	7	4	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	-	-	-	2	3	-	2	15	22	54	268	-
White Male	-	-	-	-	2	3	-	1	8	14	32	114	-
White Female	1	-	-	-	-	-	-	1	6	7	21	150	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	1	1	-	2	-
Other Female	-	-	-	-	-	-	-	-	-	-	1	2	-

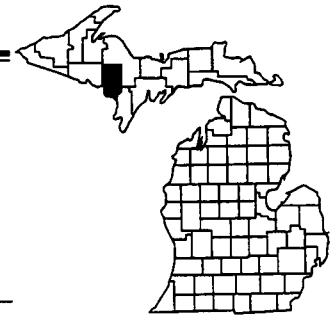
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	367	949.5	360	962.1	-	-	2	*
Diseases of the Heart	130	336.3	126	336.7	-	-	-	-
Cancer	92	238.0	90	240.5	-	-	-	-
Stroke	27	69.9	27	72.2	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	8	20.7	8	21.4	-	-	-	-
Accidents and Adverse Effects	14	36.2	13	34.7	-	-	2	*
Pneumonia and Influenza	18	46.6	18	48.1	-	-	-	-
Diabetes Mellitus	13	33.6	13	34.7	-	-	-	-
Suicide	2	*	2	*	-	-	-	-
Kidney Disease	6	15.5	6	16.0	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Dickinson County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	27,179	Total Live Births:	304	Total Deaths:	332
Rank Among Counties:	51	Mothers Age <18:	12	Infant Deaths:	1
Per Square Mile:	35.3	Low Weight Births:	11	Neonatal Deaths:	1
		First Births:	118	Postneonatal Deaths:	-
				Perinatal Deaths:	1
				Fetal Deaths:	1
MARRIAGE		DIVORCE			
Marriages:	213	Divorces:	105		
Marriage Rate:	15.7	Divorce Rate:	7.7		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	304	11.2	295	11.0	1	*	8	28.7
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	12	39.5	12	40.7	-	-	-	-
Low Weight	11	36.2	11	37.3	-	-	-	-
Under 1,500 Grams	3	*	3	*	-	-	-	-
< 38 Weeks Gestation	37	121.7	37	125.4	-	-	-	-
Prenatal Care Began in 1st Trimester	272	894.7	267	905.1	1	*	4	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	1	*	1	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	332	161	171	331	160	171	-	-	-	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	1	1	9	13	42	262	-
White Male	1	-	-	2	-	1	1	1	2	4	21	144	-
White Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

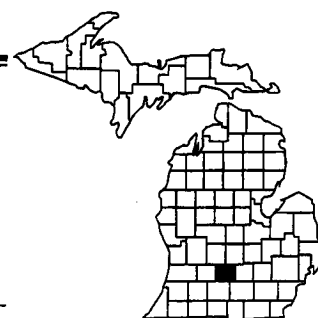
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	332	1,221.5	331	1,231.8	-	-	2	*
Diseases of the Heart	122	448.9	122	454.0	-	-	-	-
Cancer	86	316.4	85	316.3	-	-	-	-
Stroke	21	77.3	21	78.2	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	5	*	5	*	-	-	-	-
Accidents and Adverse Effects	4	*	4	*	-	-	1	*
Pneumonia and Influenza	22	80.9	22	81.9	-	-	-	-
Diabetes Mellitus	9	33.1	9	33.5	-	-	-	-
Suicide	3	*	3	*	-	-	-	-
Kidney Disease	2	*	2	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	4	*	4	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	10	36.8	10	37.2	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Eaton County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	98,087	Total Live Births:	1,243	Total Deaths:	759
Rank Among Counties:	19	Mothers Age <18:	44	Infant Deaths:	7
Per Square Mile:	169.3	Low Weight Births:	106	Neonatal Deaths:	6
		First Births:	505	Postneonatal Deaths:	1
				Perinatal Deaths:	17
				Fetal Deaths:	12
MARRIAGE		DIVORCE			
Marriages:	726	Divorces:	459		
Marriage Rate:	14.8	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	1,243	12.7	1,174	12.7	50	11.5	19	16.3
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	44	35.4	40	34.1	4	*	-	-
Low Weight	106	85.3	95	80.9	10	200.0	1	*
Under 1,500 Grams	18	14.5	14	11.9	4	*	-	-
< 38 Weeks Gestation	205	164.9	190	161.8	12	240.0	3	*
Prenatal Care Began in 1st Trimester	1,071	861.6	1,004	855.2	48	960.0	19	1,000.0

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	5.6	6	5.1	1	*	-	-
Neonatal Deaths	6	4.8	5	*	1	*	-	-
Postneonatal Deaths	1	-	1	-	-	-	-	-
Perinatal Deaths	17	13.5	15	12.7	2	*	-	-
Fetal Deaths	12	9.6	11	9.3	1	*	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	759	386	373	736	374	362	18	11	7	5	1	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	7	4	1	2	9	4	3	20	39	52	113	505	-
White Male	3	2	1	1	5	3	-	12	24	28	63	232	-
White Female	3	2	-	-	2	1	2	7	13	19	47	266	-
Black Male	-	-	-	-	2	-	-	-	1	4	2	2	-
Black Female	1	-	-	-	-	-	-	1	-	1	1	3	-
Other Male	-	-	-	1	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	1	-	1	-	-	2	-

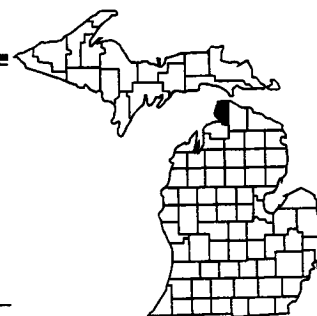
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	759	773.8	736	795.2	18	413.1	16	57.4
Diseases of the Heart	224	228.4	220	237.7	2	*	1	*
Cancer	168	171.3	163	176.1	4	*	-	-
Stroke	65	66.3	64	69.1	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	32	32.6	32	34.6	-	-	-	-
Accidents and Adverse Effects	47	47.9	45	48.6	2	*	9	32.3
Pneumonia and Influenza	29	29.6	28	30.3	1	*	-	-
Diabetes Mellitus	19	19.4	16	17.3	3	*	-	-
Suicide	13	13.3	11	11.9	2	*	2	*
Kidney Disease	9	9.2	9	9.7	-	-	-	-
Chronic Liver Disease and Cirrhosis	7	7.1	7	7.6	-	-	-	-
Homicide	2	*	1	*	1	*	-	-
Atherosclerosis	16	16.3	16	17.3	-	-	-	-
AIDS	4	*	3	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Emmet County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	27,353	Total Live Births:	372	Total Deaths:	236
Rank Among Counties:	50	Mothers Age <18:	8	Infant Deaths:	1
Per Square Mile:	58.5	Low Weight Births:	26	Neonatal Deaths:	1
		First Births:	152	Postneonatal Deaths:	2
				Perinatal Deaths:	2
				Fetal Deaths:	1
MARRIAGE		DIVORCE			
Marriages:	241	Divorces:	123		
Marriage Rate:	17.6	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	372	13.6	359	13.6	-	-	13	14.9
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	8	21.5	8	22.3	-	-	-	-
Low Weight	26	69.9	26	72.4	-	-	-	-
Under 1,500 Grams	3	*	3	*	-	-	-	*
< 38 Weeks Gestation	67	180.1	65	181.1	-	-	2	*
Prenatal Care Began in 1st Trimester	330	887.1	321	894.2	-	-	9	692.3

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	2	*	2	*	-	-	-	-
Fetal Deaths	1	*	1	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	236	107	129	228	105	123	1	-	1	7	2	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	1	1	-	-	1	-	-	7	7	14	30	175	-
White Male	1	-	-	-	1	-	-	6	5	7	11	74	-
White Female	-	1	-	-	-	-	-	1	2	7	16	96	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Black Female	-	-	-	-	-	-	-	-	-	-	1	1	-
Other Male	-	-	-	-	-	-	-	-	-	-	2	3	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	236	862.8	228	865.9	1	*	2	*
Diseases of the Heart	75	274.2	70	265.8	1	*	-	-
Cancer	61	223.0	59	224.1	-	-	1	*
Stroke	16	58.5	16	60.8	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	16	58.5	16	60.8	-	-	-	-
Accidents and Adverse Effects	7	25.6	7	26.6	-	-	1	*
Pneumonia and Influenza	10	36.6	10	38.0	-	-	-	-
Diabetes Mellitus	7	25.6	7	26.6	-	-	-	-
Suicide	4	*	4	*	-	-	-	-
Kidney Disease	6	21.9	6	22.8	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	4	*	3	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Genesee County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	436,382	Total Live Births:	6,434	Total Deaths:	3,755
Rank Among Counties:	5	Mothers Age <18:	422	Infant Deaths:	78
Per Square Mile:	680.2	Low Weight Births:	624	Neonatal Deaths:	51
		First Births:	2,548	Postneonatal Deaths:	27
				Perinatal Deaths:	72
				Fetal Deaths:	31
MARRIAGE		DIVORCE			
Marriages:	3,409	Divorces:	1,820		
Marriage Rate:	15.6	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	6,434	14.7	4,542	13.4	1,803	19.8	83	11.3
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	422	65.6	186	41.0	235	130.3	-	-
Low Weight	624	97.0	354	77.9	263	145.9	7	84.3
Under 1,500 Grams	122	19.0	63	13.9	58	32.2	1	*
< 38 Weeks Gestation	1,131	175.8	712	156.8	406	225.2	13	156.6
Prenatal Care Began in 1st Trimester	5,616	872.9	4,096	901.8	1,453	805.9	63	759.0

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	78	12.1	42	9.2	36	20.0	-	-
Neonatal Deaths	51	7.9	25	5.5	26	14.4	-	-
Postneonatal Deaths	27	4.2	17	3.7	10	5.5	-	-
Perinatal Deaths	72	11.1	35	7.7	36	19.8	1	*
Fetal Deaths	31	4.8	16	3.5	14	7.7	1	*

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	3,755	1,923	1,832	3,074	1,553	1,521	655	354	301	24	15	9	
	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	78	12	10	11	39	37	31	123	226	312	619	2,257	-
White Male	29	6	5	4	19	20	12	56	94	144	275	889	-
White Female	13	3	3	3	7	4	9	25	50	88	223	1,093	-
Black Male	21	-	2	2	8	11	5	24	40	42	73	126	-
Black Female	15	3	-	2	4	2	4	16	39	36	41	139	-
Other Male	-	-	-	-	1	-	-	2	1	-	5	6	-
Other Female	-	-	-	-	-	-	1	-	1	1	2	4	-

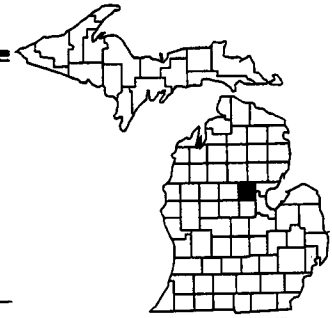
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	3,755	860.5	3,074	909.0	655	720.9	72	57.0
Diseases of the Heart	1,279	293.1	1,085	320.9	184	202.5	5	*
Cancer	826	189.3	664	196.4	157	172.8	3	*
Stroke	247	56.6	203	60.0	42	46.2	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	201	46.1	178	52.6	21	23.1	2	*
Accidents and Adverse Effects	154	35.3	125	37.0	27	29.7	33	26.1
Pneumonia and Influenza	95	21.8	87	25.7	8	8.8	2	*
Diabetes Mellitus	128	29.3	103	30.5	25	27.5	-	-
Suicide	57	13.1	50	14.8	6	6.6	3	*
Kidney Disease	50	11.5	39	11.5	11	12.1	-	-
Chronic Liver Disease and Cirrhosis	54	12.4	38	11.2	15	16.5	-	-
Homicide	51	11.7	13	3.8	38	41.8	10	7.9
Atherosclerosis	14	3.2	13	3.8	1	*	-	-
AIDS	18	4.1	12	3.5	6	6.6	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Gladwin County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	24,306	Total Live Births:	285	Total Deaths:	300
Rank Among Counties:	54	Mothers Age <18:	10	Infant Deaths:	3
Per Square Mile:	48.1	Low Weight Births:	17	Neonatal Deaths:	2
		First Births:	108	Postneonatal Deaths:	1
				Perinatal Deaths:	5
				Fetal Deaths:	3
MARRIAGE		DIVORCE			
Marriages:	182	Divorces:	107		
Marriage Rate:	15.0	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	285	11.7	283	11.7	-	-	2	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	10	35.1	10	35.3	-	-	-	-
Low Weight	17	59.6	17	60.1	-	-	-	-
Under 1,500 Grams	2	*	2	*	-	-	-	-
< 38 Weeks Gestation	42	147.4	42	148.4	-	-	-	-
Prenatal Care Began in 1st Trimester	223	782.5	221	780.9	-	-	2	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	300	156	144	296	152	144	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	3	-	-	-	3	-	1	6	8	21	64	194	-
White Male	2	-	-	-	3	-	1	2	5	12	41	86	-
White Female	1	-	-	-	-	-	-	4	3	8	23	105	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	2	-
Black Female	-	-	-	-	-	-	-	-	-	1	-	1	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

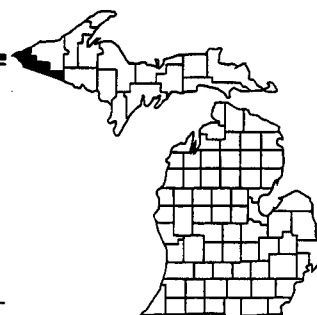
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	300	1,234.3	296	1,227.9	2	*	3	*
Diseases of the Heart	117	481.4	116	481.2	1	*	-	-
Cancer	81	333.3	79	327.7	1	*	-	-
Stroke	18	74.1	18	74.7	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	15	61.7	15	62.2	-	-	-	-
Accidents and Adverse Effects	9	37.0	9	37.3	-	-	1	*
Pneumonia and Influenza	7	28.8	6	24.9	-	-	-	-
Diabetes Mellitus	2	*	2	*	-	-	-	-
Suicide	5	*	5	*	-	-	1	*
Kidney Disease	4	*	4	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	1	*	1	*	-	-	1	*
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Gogebic County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	17,896	Total Live Births:	159	Total Deaths:	252
Rank Among Counties:	65	Mothers Age <18:	8	Infant Deaths:	-
Per Square Mile:	16.2	Low Weight Births:	10	Neonatal Deaths:	-
		First Births:	70	Postneonatal Deaths:	-
				Perinatal Deaths:	2
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	115	Divorces:	59		
Marriage Rate:	12.9	Divorce Rate:	6.6		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	159	8.9	146	8.4	1	*	12	34.7
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	8	50.3	7	47.9	-	-	1	*
Low Weight	10	62.9	9	61.6	-	-	1	*
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	26	163.5	22	150.7	-	-	4	*
Prenatal Care Began in 1st Trimester	139	874.2	130	890.4	-	-	9	750.0

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	252	114	138	250	113	137	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	2	2	6	12	40	186	-
White Male	-	-	-	-	1	1	2	1	4	4	23	77	-
White Female	-	1	-	-	-	-	-	1	2	8	17	108	-
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	252	1,408.1	250	1,443.3	1	*	2	*
Diseases of the Heart	74	413.5	73	421.4	1	*	-	-
Cancer	65	363.2	65	375.2	-	-	-	-
Stroke	24	134.1	24	138.6	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	15	83.8	14	80.8	-	-	-	-
Accidents and Adverse Effects	7	39.1	7	40.4	-	-	1	*
Pneumonia and Influenza	11	61.5	11	63.5	-	-	-	-
Diabetes Mellitus	6	33.5	6	34.6	-	-	-	-
Suicide	6	33.5	6	34.6	-	-	1	*
Kidney Disease	2	*	2	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Grand Traverse County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	70,866	Total Live Births:	877	Total Deaths:	598
Rank Among Counties:	26	Mothers Age <18:	30	Infant Deaths:	7
Per Square Mile:	152.0	Low Weight Births:	44	Neonatal Deaths:	4
		First Births:	369	Postneonatal Deaths:	3
				Perinatal Deaths:	6
				Fetal Deaths:	3
MARRIAGE		DIVORCE			
Marriages:	677	Divorces:	387		
Marriage Rate:	19.1	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	877	12.4	858	12.3	4	*	15	14.7
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	30	34.2	28	32.6	-	-	2	*
Low Weight	44	50.2	43	50.1	-	-	1	*
Under 1,500 Grams	9	10.3	9	10.5	-	-	-	-
< 38 Weeks Gestation	133	151.7	128	149.2	-	-	5	*
Prenatal Care Began in 1st Trimester	725	826.7	715	833.3	2	*	8	533.3

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	8.0	7	8.2	-	-	-	-
Neonatal Deaths	4	*	4	*	-	-	-	-
Postneonatal Deaths	3	*	3	*	-	-	-	-
Perinatal Deaths	6	6.8	6	7.0	-	-	-	-
Fetal Deaths	3	*	3	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 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	299	299	594	299	295	-	-	-	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	7	1	1	1	4	1	2	16	33	30	90	412	-
White Male	1	1	1	1	3	-	1	10	18	19*	49	195	-
White Female	6	-	-	-	1	1	1	5	15	10	41	215	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	1	-	1	-	2	-

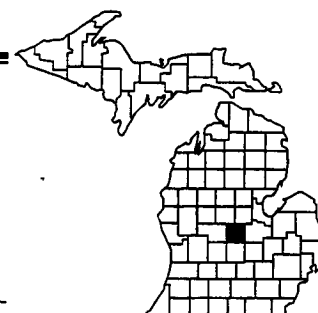
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	598	843.8	594	853.4	-	-	7	35.7
Diseases of the Heart	168	237.1	167	239.9	-	-	-	-
Cancer	172	242.7	171	245.7	-	-	1	*
Stroke	36	50.8	35	50.3	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	30	42.3	30	43.1	-	-	-	-
Accidents and Adverse Effects	22	31.0	21	30.2	-	-	4	-
Pneumonia and Influenza	21	29.6	21	30.2	-	-	-	-
Diabetes Mellitus	11	15.5	11	15.8	-	-	-	-
Suicide	9	12.7	9	12.9	-	-	1	*
Kidney Disease	3	*	3	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	6	8.5	6	8.6	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Atherosclerosis	4	*	4	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Gratiot County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	39,976	Total Live Births:	470	Total Deaths:	413
Rank Among Counties:	40	Mothers Age <18:	27	Infant Deaths:	6
Per Square Mile:	70.1	Low Weight Births:	24	Neonatal Deaths:	5
		First Births:	193	Postneonatal Deaths:	1
				Perinatal Deaths:	9
				Fetal Deaths:	5
MARRIAGE		DIVORCE			
Marriages:	277	Divorces:	139		
Marriage Rate:	13.9	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	470	11.8	466	11.9	3	*	-	-
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	27	57.4	27	57.9	-	-	-	-
Low Weight	24	51.1	23	49.4	1	*	-	-
Under 1,500 Grams	7	14.9	6	12.9	1	*	-	-
< 38 Weeks Gestation	75	159.6	74	158.8	1	*	-	-
Prenatal Care Began in 1st Trimester	414	880.9	411	882.0	3	*	-	-

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	12.8	6	12.9	-	-	-	-
Neonatal Deaths	5	*	5	*	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	9	18.9	7	14.9	-	-	-	-
Fetal Deaths	5	*	3	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	413	178	235	412	178	234	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	6	1	1	1	-	1	3	5	15	22	40	318	-
White Male	4	1	1	1	-	1	3	3	8	14	23	119	-
White Female	2	-	-	-	-	-	-	2	7	8	17	198	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

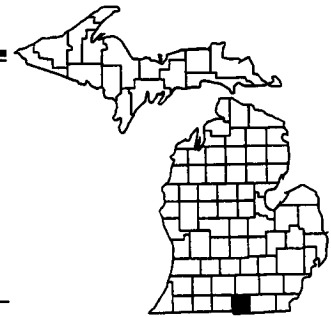
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	413	1,033.1	412	1,053.4	1	*	3	*
Diseases of the Heart	147	367.7	147	375.8	-	-	-	-
Cancer	93	232.6	93	237.8	-	-	-	-
Stroke	29	72.5	29	74.1	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	14	35.0	14	35.8	-	-	-	-
Accidents and Adverse Effects	13	32.5	13	33.2	-	-	3	*
Pneumonia and Influenza	42	105.1	41	104.8	1	*	-	-
Diabetes Mellitus	9	22.5	9	23.0	-	-	-	-
Suicide	3	*	3	*	-	-	-	-
Kidney Disease	3	*	3	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Hillsdale County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	45,224	Total Live Births:	562	Total Deaths:	406
Rank Among Counties:	36	Mothers Age <18:	30	Infant Deaths:	3
Per Square Mile:	75.0	Low Weight Births:	34	Neonatal Deaths:	2
		First Births:	223	Postneonatal Deaths:	1
				Perinatal Deaths:	6
				Fetal Deaths:	5
MARRIAGE		DIVORCE			
Marriages:	324	Divorces:	245		
Marriage Rate:	14.3	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	562	12.4	553	12.3	1	*	8	28.6
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	30	53.4	30	54.2	-	-	-	-
Low Weight	34	60.5	30	54.2	-	-	4	*
Under 1,500 Grams	9	16.0	8	14.5	-	-	1	*
< 38 Weeks Gestation	93	165.5	91	164.6	-	-	2	*
Prenatal Care Began in 1st Trimester	397	706.4	390	705.2	-	-	7	875.0

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	10.6	5	*	-	-	-	-
Fetal Deaths	5	*	4	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	406	193	213	404	192	212	-	-	-	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	4	-	-	9	11	42	71	265	-
White Male	3	-	-	1	-	-	-	5	9	27	41	106	-
White Female	-	-	-	-	4	-	-	4	2	15	28	159	-
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	406	897.8	404	901.3	-	-	5	*
Diseases of the Heart	125	276.4	124	276.6	-	-	-	-
Cancer	93	205.6	93	207.5	-	-	-	-
Stroke	25	55.3	24	53.5	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	21	46.4	21	46.9	-	-	-	*
Accidents and Adverse Effects	25	55.3	25	55.8	-	-	2	*
Pneumonia and Influenza	23	50.9	23	51.3	-	-	-	-
Diabetes Mellitus	6	13.3	6	13.4	-	-	-	-
Suicide	9	19.9	9	20.1	-	-	1	*
Kidney Disease	8	17.7	8	17.8	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	*
Homicide	2	*	2	*	-	-	2	*
Atherosclerosis	3	*	3	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Houghton County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	36,141	Total Live Births:	379	Total Deaths:	468
Rank Among Counties:	44	Mothers Age <18:	7	Infant Deaths:	3
Per Square Mile:	35.7	Low Weight Births:	22	Neonatal Deaths:	2
		First Births:	139	Postneonatal Deaths:	1
				Perinatal Deaths:	5
				Fetal Deaths:	4
MARRIAGE		DIVORCE			
Marriages:	224	Divorces:	171		
Marriage Rate:	12.4	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	379	10.5	352	10.1	2	*	25	26.8
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	7	18.5	7	19.9	-	-	-	-
Low Weight	22	58.0	21	59.7	1	*	-	-
Under 1,500 Grams	6	15.8	6	17.0	-	-	-	-
< 38 Weeks Gestation	48	126.6	44	125.0	2	*	2	*
Prenatal Care Began in 1st Trimester	313	825.9	289	821.0	2	*	22	880.0

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	4	*	4	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	468	216	252	466	216	250	-	-	-	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	3	-	-	-	-	2	1	10	14	21	54	363	-
White Male	1	-	-	-	-	1	1	6	8	15	30	154	-
White Female	2	-	-	-	-	1	-	4	6	6	23	208	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	1	1	-

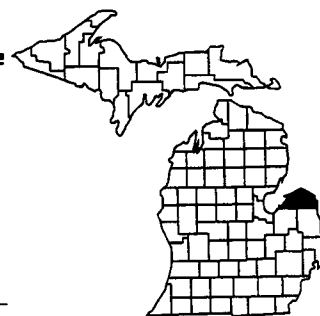
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	468	1,294.9	466	1,334.4	-	-	-	-
Diseases of the Heart	157	434.4	157	449.6	-	-	-	-
Cancer	109	301.6	108	309.3	-	-	-	-
Stroke	45	124.5	45	128.9	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	27	74.7	27	77.3	-	-	-	-
Accidents and Adverse Effects	16	44.3	16	45.8	-	-	-	-
Pneumonia and Influenza	21	58.1	21	60.1	-	-	-	-
Diabetes Mellitus	11	30.4	11	31.5	-	-	-	-
Suicide	2	*	2	*	-	-	-	-
Kidney Disease	2	*	2	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	2	*	2	*	-	-	-	-
Atherosclerosis	4	*	4	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Huron County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	35,221	Total Live Births:	394	Total Deaths:	437
Rank Among Counties:	45	Mothers Age <18:	9	Infant Deaths:	6
Per Square Mile:	42.4	Low Weight Births:	24	Neonatal Deaths:	2
		First Births:	152	Postneonatal Deaths:	4
				Perinatal Deaths:	7
				Fetal Deaths:	5
MARRIAGE		DIVORCE			
Marriages:	241	Divorces:	93		
Marriage Rate:	13.7	Divorce Rate:	5.3		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	394	11.2	388	11.1	-	-	5	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	9	22.8	9	23.2	-	-	-	-
Low Weight	24	60.9	24	61.9	-	-	-	-
Under 1,500 Grams	7	17.8	7	18.0	-	-	1	*
< 38 Weeks Gestation	61	154.8	60	154.6	-	-	-	-
Prenatal Care Began in 1st Trimester	310	786.8	305	786.1	-	-	4	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	15.2	6	15.5	-	-	-	-
Neonatal Deaths	2	*	2	*	-	-	-	-
Postneonatal Deaths	4	*	4	*	-	-	-	-
Perinatal Deaths	7	17.5	7	17.8	-	-	-	-
Fetal Deaths	5	*	5	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	437	215	222	435	214	221	-	-	-	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	6	-	-	-	3	1	2	6	9	31	50	329	-
White Male	2	-	-	-	3	1	2	5	4	21	30	146	-
White Female	4	-	-	-	-	-	-	-	-	-	-	-	-
Black Male	-	-	-	-	-	-	-	1	5	10	20	181	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	1	-

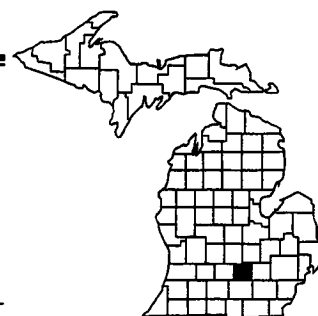
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	437	1,240.7	435	1,241.6	-	-	3	*
Diseases of the Heart	154	437.2	153	436.7	-	-	-	-
Cancer	94	266.9	94	268.3	-	-	-	-
Stroke	56	159.0	56	159.8	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	15	42.6	15	42.8	-	-	-	-
Accidents and Adverse Effects	19	53.9	19	54.2	-	-	1	*
Pneumonia and Influenza	14	39.7	14	40.0	-	-	-	-
Diabetes Mellitus	9	25.6	8	22.8	-	-	-	-
Suicide	4	*	4	*	-	-	1	*
Kidney Disease	6	17.0	6	17.1	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Ingham County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	277,890	Total Live Births:	3,952	Total Deaths:	1,951
Rank Among Counties:	7	Mothers Age <18:	209	Infant Deaths:	32
Per Square Mile:	496.5	Low Weight Births:	307	Neonatal Deaths:	22
		First Births:	1,692	Postneonatal Deaths:	10
				Perinatal Deaths:	48
				Fetal Deaths:	31
MARRIAGE		DIVORCE			
Marriages:	2,209	Divorces:	1,099		
Marriage Rate:	15.9	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	3,952	14.2	3,118	13.2	593	19.4	233	20.2
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	209	52.9	133	42.7	71	119.7	5	*
Low Weight	307	77.7	212	68.0	82	138.3	10	42.9
Under 1,500 Grams	61	15.4	37	11.9	20	33.7	1	*
< 38 Weeks Gestation	690	174.6	501	160.7	150	253.0	35	150.2
Prenatal Care Began in 1st Trimester	3,440	870.4	2,752	882.6	493	831.4	193	828.3

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	32	8.1	18	5.8	14	23.6	-	-
Neonatal Deaths	22	5.6	11	3.5	11	18.5	-	-
Postneonatal Deaths	10	2.5	7	2.2	3	*	-	-
Perinatal Deaths	48	12.1	34	10.8	13	21.7	1	*
Fetal Deaths	31	7.8	23	7.3	7	11.7	1	*

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	1,951	948	1,003	1,773	848	925	156	85	71	22	15	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	32	4	2	1	13	10	21	57	106	157	246	1,302	-
White Male	10	1	2	1	7	4	10	32	54	89	120	518	-
White Female	8	2	-	-	3	3	3	15	29	54	104	704	-
Black Male	7	1	-	-	1	2	5	6	13	6	14	30	-
Black Female	7	-	-	-	1	1	2	4	8	5	5	38	-
Other Male	-	-	-	-	1	-	-	-	2	2	3	7	-
Other Female	-	-	-	-	-	-	1	-	-	1	-	5	-

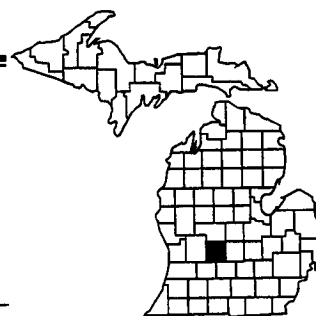
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,951	702.1	1,773	751.9	156	510.3	20	24.7
Diseases of the Heart	603	217.0	553	234.5	41	134.1	1	*
Cancer	433	155.8	391	165.8	37	121.0	1	*
Stroke	137	49.3	125	53.0	10	32.7	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	91	32.7	88	37.3	3	*	-	-
Accidents and Adverse Effects	77	27.7	71	30.1	5	*	7	8.6
Pneumonia and Influenza	65	23.4	64	27.1	1	*	1	*
Diabetes Mellitus	49	17.6	44	18.7	4	*	-	-
Suicide	30	10.8	27	11.5	2	*	1	*
Kidney Disease	22	7.9	19	8.1	3	*	-	-
Chronic Liver Disease and Cirrhosis	18	6.5	18	7.6	-	-	-	-
Homicide	15	5.4	9	3.8	6	19.6	5	*
Atherosclerosis	26	9.4	25	10.6	1	*	-	-
AIDS	14	5.0	10	4.2	4	*	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Ionia County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	59,845	Total Live Births:	820	Total Deaths:	413
Rank Among Counties:	30	Mothers Age <18:	46	Infant Deaths:	5
Per Square Mile:	103.7	Low Weight Births:	48	Neonatal Deaths:	4
		First Births:	315	Postneonatal Deaths:	1
				Perinatal Deaths:	6
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	489	Divorces:	263		
Marriage Rate:	16.3	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	820	13.7	808	14.3	2	*	10	26.3
Mothers Age <18	46	56.1	44	54.5	1	*	1	*
Low Weight	48	58.5	46	56.9	-	-	2	*
Under 1,500 Grams	10	12.2	10	12.4	-	-	-	-
< 38 Weeks Gestation	157	191.5	155	191.8	1	*	1	*
Prenatal Care Began in 1st Trimester	673	820.7	666	824.3	2	*	5	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	7.3	6	7.4	-	-	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	413	177	236	409	175	234	2	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	5	1	-	-	7	3	5	14	18	25	58	277	-
White Male	1	-	-	-	2	3	2	6	10	15	31	105	-
White Female	4	1	-	-	5	-	2	8	8	10	26	170	-
Black Male	-	-	-	-	-	-	1	-	-	-	-	-	-
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	413	690.1	409	725.6	2	*	8	45.6
Diseases of the Heart	117	195.5	116	205.8	-	-	-	-
Cancer	98	163.8	98	173.9	-	-	-	-
Stroke	30	50.1	29	51.4	1	*	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	21	35.1	21	37.3	-	-	-	-
Accidents and Adverse Effects	17	28.4	17	30.2	-	-	6	34.2
Pneumonia and Influenza	15	25.1	15	26.6	-	-	-	-
Diabetes Mellitus	17	28.4	17	30.2	-	-	-	-
Suicide	9	15.0	8	14.2	1	*	-	-
Kidney Disease	5	*	5	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	4	*	4	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Atherosclerosis	5	*	5	*	-	-	-	-
AIDS	1	*	1	*	-	-	1	*

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Iosco County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	24,478	Total Live Births:	270	Total Deaths:	341
Rank Among Counties:	53	Mothers Age <18:	10	Infant Deaths:	1
Per Square Mile:	44.8	Low Weight Births:	19	Neonatal Deaths:	-
		First Births:	105	Postneonatal Deaths:	1
				Perinatal Deaths:	-
				Fetal Deaths:	-
MARRIAGE		DIVORCE			
Marriages:	193	Divorces:	154		
Marriage Rate:	15.8	Divorce Rate:	12.6		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	270	11.0	256	10.6	3	*	11	40.6
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	10	37.0	10	39.1	-	-	-	-
Low Weight	19	70.4	15	58.6	-	-	4	-
Under 1,500 Grams	4	*	2	*	-	-	2	*
< 38 Weeks Gestation	39	144.4	34	132.8	-	-	5	*
Prenatal Care Began in 1st Trimester	221	818.5	213	832.0	2	*	6	545.5

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	341	166	175	337	163	174	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	-	-	8	5	25	60	241	-
White Male	-	-	-	-	1	-	-	5	2	12	37	106	-
White Female	1	-	-	-	-	-	-	3	2	13	22	133	-
Black Male	-	-	-	-	-	-	-	-	1	-	-	1	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

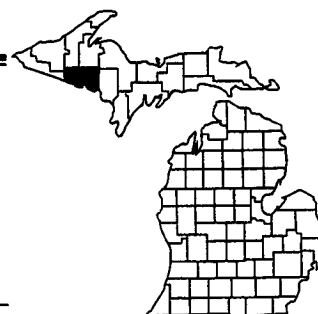
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	341	1,393.1	337	1,396.1	2	*	1	*
Diseases of the Heart	108	441.2	106	439.1	2	*	-	-
Cancer	86	351.3	84	348.0	-	-	-	-
Stroke	22	89.9	22	91.1	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	18	73.5	18	74.6	-	-	-	-
Accidents and Adverse Effects	13	53.1	13	53.9	-	-	-	-
Pneumonia and Influenza	23	94.0	23	95.3	-	-	-	-
Diabetes Mellitus	12	49.0	12	49.7	-	-	-	-
Suicide	5	*	5	*	-	-	1	*
Kidney Disease	1	*	1	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	6	24.5	6	24.9	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	12	49.0	12	49.7	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Iron County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	13,184	Total Live Births:	97	Total Deaths:	212
Rank Among Counties:	72	Mothers Age <18:	4	Infant Deaths:	-
Per Square Mile:	11.3	Low Weight Births:	10	Neonatal Deaths:	-
		First Births:	44	Postneonatal Deaths:	-
				Perinatal Deaths:	1
				Fetal Deaths:	1
MARRIAGE		DIVORCE			
Marriages:	79	Divorces:	37		
Marriage Rate:	12.0	Divorce Rate:	5.6		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	97	7.4	96	7.4	-	-	1	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	4	*	4	*	-	-	-	-
Low Weight	10	103.1	10	104.2	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	20	206.2	19	197.9	-	-	1	*
Prenatal Care Began in 1st Trimester	76	783.5	76	791.7	-	-	-	-

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	212	127	85	210	126	84	-	-	-	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	2	7	11	26	162	-
White Male	-	-	-	-	1	-	1	2	4	8	17	93	-
White Female	-	-	-	-	-	2	-	-	3	3	8	68	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	1	-

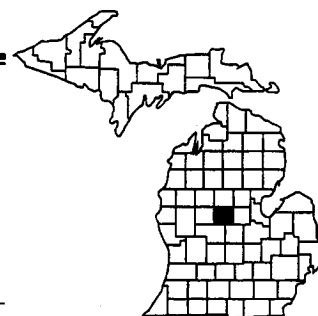
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	212	1,608.0	210	1,628.0	-	-	1	*
Diseases of the Heart	71	538.5	70	542.7	-	-	-	-
Cancer	52	394.4	52	403.1	-	-	-	-
Stroke	15	113.8	15	116.3	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	12	91.0	12	93.0	-	-	-	-
Accidents and Adverse Effects	9	68.3	9	69.8	-	-	-	-
Pneumonia and Influenza	3	*	3	*	-	-	-	-
Diabetes Mellitus	6	45.5	6	46.5	-	-	-	-
Suicide	3	*	3	*	-	-	-	-
Kidney Disease	4	*	4	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Isabella County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	56,213	Total Live Births:	614	Total Deaths:	339
Rank Among Counties:	33	Mothers Age <18:	25	Infant Deaths:	4
Per Square Mile:	97.5	Low Weight Births:	39	Neonatal Deaths:	1
		First Births:	246	Postneonatal Deaths:	3
				Perinatal Deaths:	5
				Fetal Deaths:	4
MARRIAGE		DIVORCE			
Marriages:	401	Divorces:	217		
Marriage Rate:	14.3	Divorce Rate:	7.7		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	614	10.9	566	10.5	8	11.0	39	22.2
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	25	40.7	20	35.3	1	*	4	*
Low Weight	39	63.5	39	68.9	-	-	-	-
Under 1,500 Grams	7	11.4	7	12.4	-	-	-	-
< 38 Weeks Gestation	95	154.7	91	160.8	1	*	3	*
Prenatal Care Began in 1st Trimester	510	830.6	479	846.3	5	*	25	641.0

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	*	3	*	-	-	1	*
Neonatal Deaths	1	*	1	*	-	-	-	-
Postneonatal Deaths	3	*	2	*	-	-	1	*
Perinatal Deaths	5	*	4	*	1	*	-	-
Fetal Deaths	4	*	3	*	1	*	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	339	173	166	326	167	159	-	-	-	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	4	-	-	2	3	5	4	7	11	20	65	218	-
White Male	1	-	-	2	2	3	2	3	8	13	39	94	-
White Female	2	-	-	-	1	1	1	3	2	6	22	121	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	1	-	-	-	-	-	-	-	1	1	2	1	-
Other Female	-	-	-	-	-	1	1	1	-	-	2	2	-

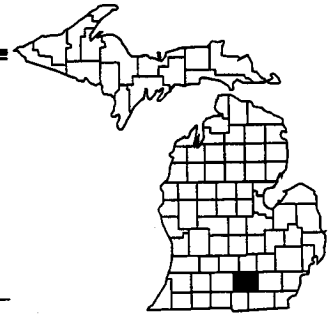
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	339	603.1	326	606.8	-	-	5	*
Diseases of the Heart	105	186.8	103	191.7	-	-	1	*
Cancer	86	153.0	83	154.5	-	-	2	*
Stroke	31	55.1	30	55.8	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	15	26.7	15	27.9	-	-	-	-
Accidents and Adverse Effects	14	24.9	12	22.3	-	-	1	*
Pneumonia and Influenza	15	26.7	15	27.9	-	-	-	-
Diabetes Mellitus	12	21.3	11	20.5	-	-	-	-
Suicide	4	*	4	*	-	-	-	-
Kidney Disease	5	*	5	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	4	*	3	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Jackson County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	154,012	Total Live Births:	2,058	Total Deaths:	1,498
Rank Among Counties:	14	Mothers Age <18:	119	Infant Deaths:	16
Per Square Mile:	218.6	Low Weight Births:	160	Neonatal Deaths:	11
		First Births:	830	Postneonatal Deaths:	5
				Perinatal Deaths:	17
				Fetal Deaths:	8
MARRIAGE		DIVORCE			
Marriages:	1,212	Divorces:	782		
Marriage Rate:	15.7	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	2,058	13.4	1,823	13.1	192	14.5	29	19.5
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	119	57.8	98	53.8	17	88.5	4	*
Low Weight	160	77.7	133	73.0	20	104.2	2	*
Under 1,500 Grams	38	18.5	29	15.9	8	41.7	-	*
< 38 Weeks Gestation	323	156.9	281	154.1	38	197.9	2	*
Prenatal Care Began in 1st Trimester	1,496	726.9	1,352	741.6	114	593.8	21	724.1

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	7.8	9	4.9	6	31.3	-	-
Neonatal Deaths	11	5.3	7	3.8	4	*	-	-
Postneonatal Deaths	5	*	2	*	2	*	-	-
Perinatal Deaths	17	8.2	11	6.0	5	*	-	-
Fetal Deaths	8	3.9	6	3.3	1	*	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	1,498	760	738	1,386	693	693	104	63	41	7	3	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	16	5	2	4	5	11	13	48	83	113	218	980	-
White Male	9	1	1	2	5	4	9	35	45	69	114	399	-
White Female	-	3	1	2	-	2	1	6	23	35	81	539	-
Black Male	3	-	-	-	-	5	3	5	12	6	12	17	-
Black Female	3	1	-	-	-	-	-	-	2	2	10	23	-
Other Male	-	-	-	-	-	-	-	1	-	1	1	-	-
Other Female	-	-	-	-	-	-	-	1	1	-	-	2	-

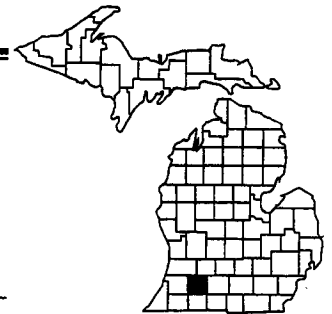
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,498	972.7	1,386	995.5	104	782.8	16	38.9
Diseases of the Heart	446	289.6	425	305.3	20	150.5	-	-
Cancer	370	240.2	341	244.9	28	210.7	2	*
Stroke	130	84.4	125	89.8	5	*	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	103	66.9	98	70.4	4	*	-	-
Accidents and Adverse Effects	57	37.0	54	38.8	3	*	6	14.6
Pneumonia and Influenza	70	45.5	65	46.7	5	*	-	-
Diabetes Mellitus	29	18.8	28	20.1	1	*	-	-
Suicide	17	11.0	15	10.8	1	*	1	*
Kidney Disease	18	11.7	18	12.9	-	-	-	-
Chronic Liver Disease and Cirrhosis	17	11.0	13	9.3	4	*	-	-
Homicide	7	4.5	4	*	2	*	1	*
Atherosclerosis	14	9.1	13	9.3	-	-	-	-
AIDS	18	11.7	10	7.2	8	60.2	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Kalamazoo County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	227,978	Total Live Births:	3,125	Total Deaths:	1,823
Rank Among Counties:	8	Mothers Age <18:	143	Infant Deaths:	28
Per Square Mile:	405.7	Low Weight Births:	237	Neonatal Deaths:	19
		First Births:	1,338	Postneonatal Deaths:	9
				Perinatal Deaths:	27
				Fetal Deaths:	11
MARRIAGE		DIVORCE			
Marriages:	1,821	Divorces:	1,036		
Marriage Rate:	16.0	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	3,125	13.7	2,582	12.9	458	20.4	81	15.5
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	143	45.8	82	31.8	58	126.6	3	*
Low Weight	237	75.8	181	70.1	48	104.8	6	74.1
Under 1,500 Grams	51	16.3	37	14.3	11	24.0	3	*
< 38 Weeks Gestation	500	160.0	383	148.3	92	200.9	21	259.3
Prenatal Care Began in 1st Trimester	2,662	851.8	2,258	874.5	328	716.2	73	901.2

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	28	9.0	23	8.9	5	*	-	-
Neonatal Deaths	19	6.1	18	7.0	1	*	-	-
Postneonatal Deaths	9	2.9	5	*	4	*	-	-
Perinatal Deaths	27	8.6	21	8.1	6	13.0	-	-
Fetal Deaths	11	3.5	6	2.3	5	*	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	1,823	816	1,007	1,673	733	940	134	75	59	15	8	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	28	3	2	1	9	8	16	49	97	140	239	1,231	-
White Male	10	1	2	-	4	6	7	24	44	59	126	450	-
White Female	13	1	-	-	3	2	4	13	33	59	87	725	-
Black Male	2	1	-	1	2	-	4	6	10	13	13	23	-
Black Female	3	-	-	-	-	-	-	5	9	7	9	26	-
Other Male	-	-	-	-	-	-	1	1	1	1	3	1	-
Other Female	-	-	-	-	-	-	-	-	-	1	1	5	-

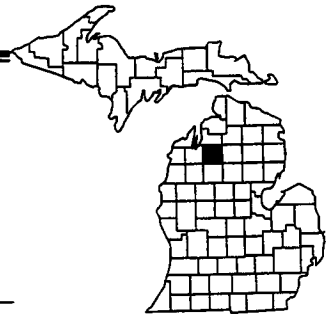
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,823	799.6	1,673	835.4	134	595.9	15	23.6
Diseases of the Heart	520	228.1	481	240.2	35	155.7	1	*
Cancer	418	183.4	382	190.7	35	155.7	2	*
Stroke	116	50.9	108	53.9	8	35.6	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	83	36.4	81	40.4	2	*	-	-
Accidents and Adverse Effects	78	34.2	66	33.0	10	44.5	5	*
Pneumonia and Influenza	99	43.4	96	47.9	2	*	-	-
Diabetes Mellitus	54	23.7	49	24.5	5	*	-	-
Suicide	29	12.7	26	13.0	1	*	1	*
Kidney Disease	22	9.7	19	9.5	2	*	-	-
Chronic Liver Disease and Cirrhosis	19	8.3	16	8.0	3	*	-	-
Homicide	9	3.9	3	*	6	26.7	2	*
Atherosclerosis	11	4.8	11	5.5	-	-	-	-
AIDS	10	4.4	7	3.5	3	*	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Kalkaska County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	14,694	Total Live Births:	196	Total Deaths:	119
Rank Among Counties:	67	Mothers Age <18:	14	Infant Deaths:	1
Per Square Mile:	26.1	Low Weight Births:	8	Neonatal Deaths:	-
		First Births:	78	Postneonatal Deaths:	1
				Perinatal Deaths:	1
				Fetal Deaths:	1
MARRIAGE		DIVORCE			
Marriages:	130	Divorces:	66		
Marriage Rate:	17.7	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	196	13.3	195	13.4	-	-	1	-
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	14	71.4	14	71.8	-	-	-	-
Low Weight	8	40.8	8	41.0	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	37	188.8	37	189.7	-	-	-	-
Prenatal Care Began in 1st Trimester	157	801.0	156	800.0	-	-	1	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	119	57	62	117	56	61	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	1	-	-	2	2	1	1	3	2	4	21	82	-
White Male	-	-	-	2	1	-	-	2	2	4	14	31	-
White Female	1	-	-	-	1	1	1	-	-	-	6	50	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	1	-	-

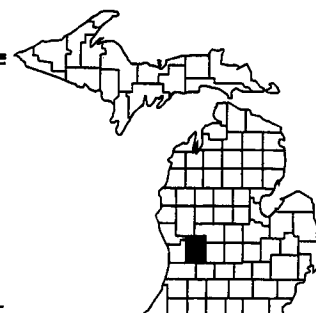
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	119	809.9	117	805.2	1	-	4	*
Diseases of the Heart	36	245.0	35	240.9	-	-	-	-
Cancer	26	176.9	25	172.0	1	*	-	-
Stroke	7	47.6	7	48.2	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	5	*	5	*	-	-	-	-
Accidents and Adverse Effects	11	74.9	11	75.7	-	-	4	*
Pneumonia and Influenza	4	*	4	*	-	-	-	-
Diabetes Mellitus	4	*	4	*	-	-	-	-
Suicide	1	*	1	*	-	-	-	-
Kidney Disease	1	*	1	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Atherosclerosis	9	61.2	9	61.9	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Kent County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	525,352	Total Live Births:	8,972	Total Deaths:	3,939
Rank Among Counties:	4	Mothers Age <18:	410	Infant Deaths:	81
Per Square Mile:	609.6	Low Weight Births:	633	Neonatal Deaths:	51
		First Births:	3,499	Postneonatal Deaths:	30
				Perinatal Deaths:	92
				Fetal Deaths:	51
MARRIAGE		DIVORCE			
Marriages:	4,593	Divorces:	2,191		
Marriage Rate:	17.5	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	8,972	17.1	7,660	16.4	1,037	22.0	270	24.8
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	410	45.7	254	33.2	141	136.0	15	55.6
Low Weight	633	70.6	458	59.8	154	148.5	20	74.1
Under 1,500 Grams	146	16.3	106	13.8	35	33.8	4	*
< 38 Weeks Gestation	1,487	165.7	1,187	155.0	253	244.0	44	163.0
Prenatal Care Began in 1st Trimester	6,699	746.7	5,921	773.0	602	580.5	173	640.7

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	81	9.0	50	6.5	28	27.0	2	*
Neonatal Deaths	51	5.7	29	3.8	20	19.3	2	*
Postneonatal Deaths	30	3.3	21	2.7	8	7.7	-	-
Perinatal Deaths	92	10.2	62	8.1	26	24.8	3	*
Fetal Deaths	51	5.7	37	4.8	12	11.4	1	*

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	3,939	1,865	2,074	3,621	1,676	1,945	284	168	116	33	21	12	
	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	81	13	13	6	25	18	39	103	159	237	544	2,701	-
White Male	29	3	5	2	17	8	18	52	75	111	276	1,080	-
White Female	21	9	5	3	6	2	15	33	48	93	203	1,507	-
Black Male	19	1	2	-	-	6	4	9	20	19	34	54	-
Black Female	9	-	1	-	1	2	1	3	10	14	24	51	-
Other Male	2	-	-	1	1	-	1	4	3	-	6	3	-
Other Female	-	-	-	-	-	-	-	2	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	3,939	749.8	3,621	775.0	284	601.6	57	36.5
Diseases of the Heart	1,261	240.0	1,187	254.0	70	148.3	-	-
Cancer	880	167.5	819	175.3	54	114.4	8	5.1
Stroke	277	52.7	256	54.8	19	40.2	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	195	37.1	182	39.0	13	27.5	1	*
Accidents and Adverse Effects	168	32.0	147	31.5	15	31.8	29	18.6
Pneumonia and Influenza	180	34.3	168	36.0	11	23.3	2	*
Diabetes Mellitus	80	15.2	67	14.3	13	27.5	-	-
Suicide	44	8.4	40	8.6	3	*	3	*
Kidney Disease	55	10.5	50	10.7	4	*	-	-
Chronic Liver Disease and Cirrhosis	42	8.0	33	7.1	7	14.8	-	-
Homicide	26	4.9	17	3.6	8	16.9	3	*
Atherosclerosis	18	3.4	16	3.4	2	*	-	-
AIDS	26	4.9	20	4.3	6	12.7	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Keweenaw County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	1,968	Total Live Births:	17	Total Deaths:	30
Rank Among Counties:	83	Mothers Age <18:	-	Infant Deaths:	-
Per Square Mile:	3.6	Low Weight Births:	1	Neonatal Deaths:	-
		First Births:	5	Postneonatal Deaths:	-
				Perinatal Deaths:	-
				Fetal Deaths:	-
MARRIAGE		DIVORCE			
Marriages:	22	Divorces:	2		
Marriage Rate:	22.4	Divorce Rate:	.		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	17	8.6	17	8.7	-	-	-	-
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	-	-	-	-	-	-	-	-
Low Weight	1	-	1	-	-	-	-	-
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	6	352.9	6	352.9	-	-	-	-
Prenatal Care Began in 1st Trimester	15	882.4	15	882.4	-	-	-	-

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	30	13	17	30	13	17	-	-	-	-	-	-	
	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	5	20	-
White Male	-	1	-	-	-	-	1	-	-	1	3	12	-
White Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

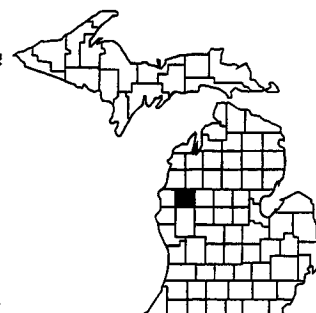
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	30	1,524.4	30	1,532.2	-	-	1	*
Diseases of the Heart	12	609.8	12	612.9	-	-	1	*
Cancer	7	355.7	7	357.5	-	-	-	-
Strokes	3	*	3	*	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	1	*	1	*	-	-	-	-
Accidents and Adverse Effects	2	*	2	*	-	-	-	-
Pneumonia and Influenza	2	*	2	*	-	-	-	-
Diabetes Mellitus	2	*	2	*	-	-	-	-
Suicide	-	-	-	-	-	-	-	-
Kidney Disease	-	-	-	-	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Lake County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	9,662	Total Live Births:	108	Total Deaths:	144
Rank Among Counties:	77	Mothers Age <18:	10	Infant Deaths:	3
Per Square Mile:	17.0	Low Weight Births:	6	Neonatal Deaths:	2
		First Births:	37	Postneonatal Deaths:	1
				Perinatal Deaths:	4
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	58	Divorces:	23		
Marriage Rate:	12.0	Divorce Rate:	4.8		

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	92	11.0	13	11.1	2	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	10	92.6	10	108.7	-	-	-	-
Low Weight	6	55.6	4	*	2	*	-	-
Under 1,500 Grams	1	*	-	-	1	*	-	-
< 38 Weeks Gestation	15	138.9	12	130.4	3	*	-	-
Prenatal Care Began in 1st Trimester	71	657.4	62	673.9	7	538.5	1	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	*	1	*	1	*	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	4	*	3	*	1	*	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	144	79	65	115	65	50	27	13	14	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	2	1	5	9	28	95	-
White Male	-	-	-	-	-	-	2	1	3	3	10	46	-
White Female	2	-	-	-	-	1	-	-	-	5	11	31	-
Black Male	-	-	-	-	-	-	-	-	1	1	4	7	-
Black Female	1	-	-	-	-	-	-	-	-	-	2	11	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	-	-
Other Female	-	-	-	-	-	-	-	-	1	-	-	-	-

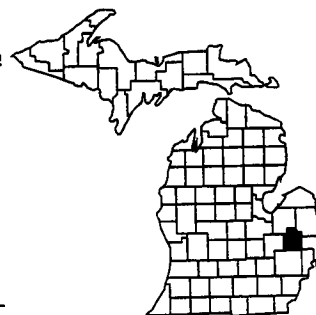
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	144	1,490.4	115	1,369.0	27	2,305.7	-	-
Diseases of the Heart	51	527.8	38	452.4	12	1,024.8	-	-
Cancer	36	372.6	31	369.0	5	*	-	-
Strokes	9	93.1	7	83.3	2	*	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	10	103.5	9	107.1	-	-	-	-
Accidents and Adverse Effects	5	*	5	*	-	-	-	-
Pneumonia and Influenza	5	*	2	*	3	*	-	-
Diabetes Mellitus	4	*	3	*	1	*	-	-
Suicide	1	*	1	*	-	-	-	-
Kidney Disease	3	*	3	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Lapeer County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	83,856	Total Live Births:	1,097	Total Deaths:	535
Rank Among Counties:	22	Mothers Age <18:	36	Infant Deaths:	9
Per Square Mile:	127.4	Low Weight Births:	81	Neonatal Deaths:	6
		First Births:	397	Postneonatal Deaths:	3
				Perinatal Deaths:	10
				Fetal Deaths:	5
MARRIAGE		DIVORCE			
Marriages:	592	Divorces:	370		
Marriage Rate:	14.1	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	1,097	13.1	1,089	13.2	2	*	4	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	36	32.8	36	33.1	-	-	-	-
Low Weight	81	73.8	80	73.5	-	-	-	-
Under 1,500 Grams	19	17.3	19	17.4	-	-	2	*
< 38 Weeks Gestation	191	174.1	189	173.6	-	-	-	-
Prenatal Care Began in 1st Trimester	944	860.5	938	861.3	2	*	4	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	9	8.2	9	8.3	-	-	-	-
Neonatal Deaths	6	5.5	6	5.5	-	-	-	-
Postneonatal Deaths	3	*	3	*	-	-	-	-
Perinatal Deaths	10	9.1	10	9.1	-	-	-	-
Fetal Deaths	5	*	5	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	535	278	257	531	277	254	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	9	-	-	1	3	6	3	17	32	46	90	328	-
White Male	4	-	-	-	3	5	1	14	19	22	55	154	-
White Female	5	-	-	1	-	-	2	3	13	24	34	172	-
Black Male	-	-	-	-	-	-	-	-	-	-	1	-	-
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	535	638.0	531	643.7	2	*	4	*
Diseases of the Heart	178	212.3	176	213.4	-	-	-	-
Cancer	143	170.5	143	173.4	-	-	-	-
Strokes	51	60.8	51	61.8	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	18	21.5	18	21.8	-	-	-	-
Accidents and Adverse Effects	24	28.6	24	29.1	-	*	1	*
Pneumonia and Influenza	14	16.7	13	15.8	1	*	-	-
Diabetes Mellitus	16	19.1	16	19.4	-	-	3	*
Suicide	14	16.7	14	17.0	-	-	-	-
Kidney Disease	8	9.5	8	9.7	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Leelanau County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	18,500	Total Live Births:	215	Total Deaths:	175
Rank Among Counties:	64	Mothers Age <18:	6	Infant Deaths:	1
Per Square Mile:	54.2	Low Weight Births:	13	Neonatal Deaths:	1
		First Births:	90	Postneonatal Deaths:	-
				Perinatal Deaths:	5
				Fetal Deaths:	4
MARRIAGE		DIVORCE			
Marriages:	139	Divorces:	63		
Marriage Rate:	15.0	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	215	11.6	193	10.8	-	-	22	36.5
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	6	27.9	4	*	-	-	2	*
Low Weight	13	60.5	13	67.4	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	25	116.3	24	124.4	-	-	1	*
Prenatal Care Began in 1st Trimester	177	823.3	163	844.6	-	-	14	636.4

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	*	4	*	-	-	1	*
Fetal Deaths	4	*	3	*	-	-	1	*

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	175	87	88	169	86	83	-	-	-	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	1	-	-	-	2	-	-	3	4	5	21	139	-
White Male	-	-	-	-	2	-	-	2	2	2	8	70	-
White Female	1	-	-	-	-	-	-	1	1	2	10	68	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	-	-
Other Female	-	-	-	-	-	-	-	-	1	1	2	1	-

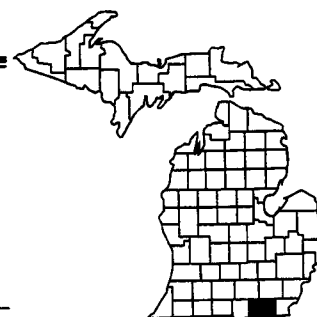
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	175	945.9	169	945.5	-	-	2	*
Diseases of the Heart	57	308.1	55	307.7	-	-	-	-
Cancer	38	205.4	36	201.4	-	-	-	-
Strokes	16	86.5	16	89.5	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	10	54.1	10	55.9	-	-	-	-
Accidents and Adverse Effects	9	48.6	8	44.8	-	-	2	*
Pneumonia and Influenza	3	*	3	*	-	-	-	-
Diabetes Mellitus	4	*	4	*	-	-	-	-
Suicide	1	*	1	*	-	-	-	-
Kidney Disease	2	*	2	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Lenawee County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	96,707	Total Live Births:	1,143	Total Deaths:	833
Rank Among Counties:	21	Mothers Age <18:	48	Infant Deaths:	4
Per Square Mile:	128.5	Low Weight Births:	61	Neonatal Deaths:	2
		First Births:	437	Postneonatal Deaths:	2
				Perinatal Deaths:	7
				Fetal Deaths:	5
MARRIAGE		DIVORCE			
Marriages:	551	Divorces:	380		
Marriage Rate:	11.4	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	1,143	11.8	1,092	11.7	26	11.5	10	9.9
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	48	42.0	44	40.3	4	*	-	-
Low Weight	61	53.4	55	50.4	5	*	-	-
Under 1,500 Grams	10	8.7	8	7.3	1	*	-	-
< 38 Weeks Gestation	194	169.7	183	167.6	7	269.2	2	*
Prenatal Care Began in 1st Trimester	946	827.6	906	829.7	18	692.3	9	900.0

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	*	3	*	1	*	-	-
Neonatal Deaths	2	*	1	*	1	*	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	7	6.1	6	5.5	1	*	-	-
Fetal Deaths	5	*	5	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	833	394	439	820	385	435	8	5	3	5	4	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	3	1	1	5	10	8	10	26	64	123	578	-
White Male	3	1	1	1	1	5	7	8	17	36	66	239	-
White Female	-	1	-	-	4	-	-	-	2	-	-	2	-
Black Male	-	-	-	-	-	-	-	-	-	1	-	1	-
Black Female	1	-	-	-	-	-	-	1	1	1	1	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

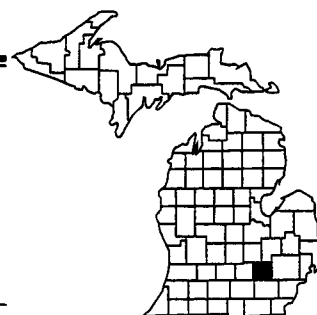
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	833	861.4	820	877.7	8	353.4	10	35.9
Diseases of the Heart	272	281.3	269	287.9	2	*	1	*
Cancer	186	192.3	183	195.9	2	*	-	-
Stroke	67	69.3	67	71.7	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	50	51.7	50	53.5	-	-	-	-
Accidents and Adverse Effects	35	36.2	34	36.4	1	*	5	*
Pneumonia and Influenza	23	23.8	23	24.6	-	-	-	-
Diabetes Mellitus	27	27.9	26	27.8	-	-	-	-
Suicide	7	7.2	6	6.4	-	-	-	-
Kidney Disease	10	10.3	10	10.7	-	-	-	-
Chronic Liver Disease and Cirrhosis	4	*	4	*	-	-	-	-
Homicide	3	*	3	*	-	-	-	-
Atherosclerosis	28	29.0	28	30.0	-	-	-	-
AIDS	6	6.2	5	*	1	*	2	*

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Livingston County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	133,601	Total Live Births:	1,811	Total Deaths:	858
Rank Among Counties:	17	Mothers Age <18:	26	Infant Deaths:	15
Per Square Mile:	232.6	Low Weight Births:	100	Neonatal Deaths:	11
		First Births:	682	Postneonatal Deaths:	4
				Perinatal Deaths:	16
				Fetal Deaths:	10
MARRIAGE		DIVORCE			
Marriages:	920	Divorces:	640		
Marriage Rate:	13.8	Divorce Rate:	9.6		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,811	13.6	1,740	13.2	4	*	28	19.1
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	26	14.4	25	14.4	-	-	1	*
Low Weight	100	55.2	97	55.7	-	-	-	-
Under 1,500 Grams	22	12.1	22	12.6	-	-	-	-
< 38 Weeks Gestation	218	120.4	210	120.7	1	*	3	*
Prenatal Care Began in 1st Trimester	1,592	879.1	1,537	883.3	4	*	21	750.0

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	15	8.3	15	8.6	-	-	-	-
Neonatal Deaths	11	6.1	11	6.3	-	-	-	-
Postneonatal Deaths	4	*	4	*	-	-	-	-
Perinatal Deaths	16	8.8	16	9.1	-	-	-	-
Fetal Deaths	10	5.5	10	5.7	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	858	454	404	848	450	398	4	1	3	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	15	2	-	-	8	8	6	17	40	80	132	550	-
White Male	8	1	-	-	5	8	5	10	24	50	81	258	-
White Female	7	1	-	-	3	-	1	7	14	29	49	287	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Black Female	-	-	-	-	-	-	-	-	-	-	1	2	-
Other Male	-	-	-	-	-	-	-	2	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	1	-	-	2	-

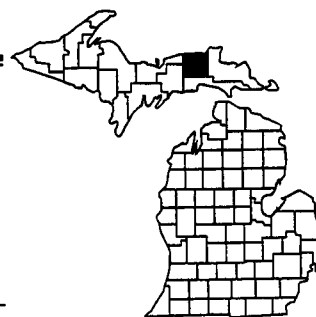
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	858	642.2	848	645.1	4	*	10	25.9
Diseases of the Heart	274	205.1	271	206.1	1	*	-	-
Cancer	224	167.7	224	170.4	-	-	-	-
Stroke	50	37.4	49	37.3	1	*	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	41	30.7	39	29.7	1	*	-	-
Accidents and Adverse Effects	45	33.7	43	32.7	-	-	8	20.7
Pneumonia and Influenza	20	15.0	19	14.5	-	-	-	-
Diabetes Mellitus	31	23.2	31	23.6	-	-	-	-
Suicide	11	8.2	11	8.4	-	-	1	*
Kidney Disease	12	9.0	12	9.1	-	-	-	-
Chronic Liver Disease and Cirrhosis	6	4.5	6	4.6	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Atherosclerosis	5	*	5	*	-	-	-	-
AIDS	3	*	3	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Luce County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	5,602	Total Live Births:	68	Total Deaths:	79
Rank Among Counties:	82	Mothers Age <18:	8	Infant Deaths:	-
Per Square Mile:	6.2	Low Weight Births:	4	Neonatal Deaths:	-
		First Births:	27	Postneonatal Deaths:	-
				Perinatal Deaths:	-
				Fetal Deaths:	-
MARRIAGE		DIVORCE			
Marriages:	46	Divorces:	27		
Marriage Rate:	16.4	Divorce Rate:	9.6		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	68	12.1	62	11.8	-	-	6	17.5
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	8	117.6	7	112.9	-	-	1	*
Low Weight	4	*	2	*	-	-	2	*
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	15	220.6	12	193.5	-	-	3	*
Prenatal Care Began in 1st Trimester	50	735.3	48	774.2	-	-	2	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	79	37	42	72	35	37	-	-	-	7	2	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	-	-	1	1	-	-	-	4	-	6	10	57	-
White Male	-	-	-	-	-	-	-	2	-	3	6	24	-
White Female	-	-	-	-	-	-	1	-	2	3	31	-	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	1	-
Other Female	-	-	1	1	-	-	1	-	1	-	-	1	-

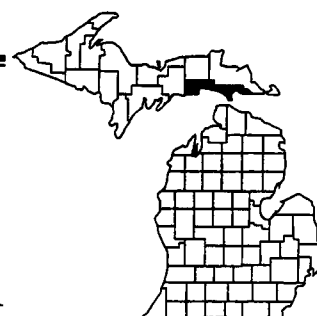
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	79	1,410.2	72	1,371.7	-	-	2	*
Diseases of the Heart	18	321.3	18	342.9	-	-	-	-
Cancer	20	357.0	18	342.9	-	-	-	-
Stroke	11	196.4	11	209.6	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	3	*	2	*	-	-	-	-
Accidents and Adverse Effects	7	125.0	4	*	-	-	2	*
Pneumonia and Influenza	1	*	1	*	-	-	-	-
Diabetes Mellitus	2	*	1	*	-	-	-	-
Suicide	-	-	-	-	-	-	-	-
Kidney Disease	1	*	1	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Mackinac County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	10,980	Total Live Births:	127	Total Deaths:	133
Rank Among Counties:	73	Mothers Age <18:	5	Infant Deaths:	2
Per Square Mile:	10.7	Low Weight Births:	7	Neonatal Deaths:	2
		First Births:	59	Postneonatal Deaths:	-
				Perinatal Deaths:	2
				Fetal Deaths:	-
MARRIAGE		DIVORCE			
Marriages:	222	Divorces:	73		
Marriage Rate:	40.4	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	127	11.6	107	12.3	-	-	20	8.8
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	5	*	4	*	-	-	1	*
Low Weight	7	55.1	6	56.1	-	-	1	*
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	19	149.6	16	149.5	-	-	3	*
Prenatal Care Began in 1st Trimester	102	803.1	86	803.7	-	-	16	800.0

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	133	72	61	110	61	49	-	-	-	23	11	12	
	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	-	1	5	10	20	91	-
White Male	1	-	-	-	1	1	-	-	3	5	11	39	-
White Female	1	-	1	-	-	-	-	1	1	2	7	36	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	1	-	-	-	1	3	-	6	-
Other Female	-	-	-	-	-	-	-	-	-	-	2	10	-

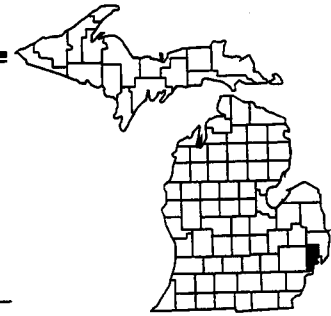
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	133	1,211.3	110	1,266.0	-	-	3	*
Diseases of the Heart	45	409.8	36	414.3	-	-	-	-
Cancer	34	309.7	29	333.8	-	-	-	-
Stroke	5	*	4	*	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	7	63.8	6	69.1	-	-	-	-
Accidents and Adverse Effects	3	*	2	*	-	-	1	-
Pneumonia and Influenza	7	63.8	7	80.6	-	-	-	-
Diabetes Mellitus	2	*	2	*	-	-	-	-
Suicide	4	*	4	*	-	-	-	-
Kidney Disease	2	*	1	*	-	-	1	*
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Macomb County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	733,602	Total Live Births:	9,885	Total Deaths:	6,566
Rank Among Counties:	3	Mothers Age <18:	195	Infant Deaths:	59
Per Square Mile:	1,520.7	Low Weight Births:	601	Neonatal Deaths:	36
		First Births:	4,097	Postneonatal Deaths:	23
				Perinatal Deaths:	82
				Fetal Deaths:	56
MARRIAGE		DIVORCE			
Marriages:	5,767	Divorces:	2,536		
Marriage Rate:	15.7	Divorce Rate:	6.9		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	9,885	13.5	9,267	13.1	259	21.7	231	16.2
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	195	19.7	169	18.2	14	54.1	8	34.6
Low Weight	601	60.8	550	59.4	32	123.6	13	56.3
Under 1,500 Grams	107	10.8	100	10.8	5	*	-	-
< 38 Weeks Gestation	1,548	156.6	1,433	154.6	57	220.1	43	186.1
Prenatal Care Began in 1st Trimester	8,711	881.2	8,252	890.5	192	741.3	193	835.5

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	59	6.0	55	5.9	3	*	1	*
Neonatal Deaths	36	3.6	33	3.6	2	*	1	*
Postneonatal Deaths	23	2.3	22	2.4	1	*	-	-
Perinatal Deaths	82	8.2	70	7.5	6	22.8	2	*
Fetal Deaths	56	5.6	47	5.0	4	*	1	*

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	6,566	3,221	3,345	6,424	3,143	3,281	96	55	41	45	22	23	
	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	59	18	5	9	22	37	37	162	306	476	976	4,459	-
White Male	34	10	1	7	17	26	22	97	194	296	557	1,882	-
White Female	21	7	2	2	3	8	14	55	98	166	396	2,509	-
Black Male	2	1	1	-	1	1	-	5	7	7	11	19	-
Black Female	1	-	1	-	-	1	-	2	5	2	7	22	-
Other Male	-	-	-	-	-	1	1	2	-	3	3	12	-
Other Female	1	-	-	-	1	-	-	1	2	2	2	14	-

LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	6,566	895.0	6,424	908.1	96	805.0	54	30.3
Diseases of the Heart	2,387	325.4	2,349	332.1	28	234.8	2	*
Cancer	1,600	218.1	1,565	221.2	24	201.3	4	*
Stroke	394	53.7	389	55.0	2	*	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	294	40.1	291	41.1	1	*	-	-
Accidents and Adverse Effects	189	25.8	181	25.6	6	50.3	15	8.4
Pneumonia and Influenza	209	28.5	203	28.7	5	*	3	*
Diabetes Mellitus	196	26.7	192	27.1	3	*	-	-
Suicide	84	11.5	84	11.9	-	-	6	3.4
Kidney Disease	72	9.8	65	9.2	5	*	-	-
Chronic Liver Disease and Cirrhosis	64	8.7	63	8.9	1	*	-	-
Homicide	28	3.8	26	3.7	1	*	3	*
Atherosclerosis	112	15.3	111	15.7	-	-	-	-
AIDS	17	2.3	16	2.3	1	*	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Manistee County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	22,912	Total Live Births:	208	Total Deaths:	284
Rank Among Counties:	57	Mothers Age <18:	7	Infant Deaths:	3
Per Square Mile:	42.2	Low Weight Births:	14	Neonatal Deaths:	1
		First Births:	76	Postneonatal Deaths:	2
				Perinatal Deaths:	4
				Fetal Deaths:	3
MARRIAGE		DIVORCE			
Marriages:	152	Divorces:	95		
Marriage Rate:	13.3	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	208	9.1	204	9.2	1	*	3	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	7	33.7	6	29.4	1	*	-	-
Low Weight	14	67.3	14	68.6	-	-	-	-
Under 1,500 Grams	4	*	4	*	-	-	-	-
< 38 Weeks Gestation	32	153.8	32	156.9	-	-	-	-
Prenatal Care Began in 1st Trimester	161	774.0	158	774.5	-	-	3	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	4	*	4	*	-	-	-	-
Fetal Deaths	3	*	3	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	284	140	144	275	134	141	1	-	1	8	6	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	-	2	-	2	4	8	13	39	211	-
White Male	1	1	-	-	2	-	3	3	10	24	90	-	-
White Female	2	-	1	-	-	-	2	1	3	1	13	118	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Male	-	-	-	-	-	-	-	1	2	1	2	-	-
Other Female	-	-	-	-	-	-	-	1	-	1	-	-	-

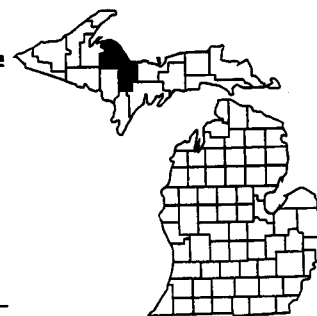
LEADING CAUSES OF DEATH

All Causes	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
	284	1,239.5	275	1,234.3	1	*	4	*
Diseases of the Heart	91	397.2	88	395.0	1	*	-	-
Cancer	77	336.1	75	336.6	-	-	-	-
Stroke	18	78.6	18	80.8	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	8	34.9	7	31.4	-	-	-	-
Accidents and Adverse Effects	12	52.4	12	53.9	-	-	4	*
Pneumonia and Influenza	7	30.6	5	*	-	-	-	-
Diabetes Mellitus	10	43.6	10	44.9	-	-	-	-
Suicide	5	*	5	*	-	-	-	-
Kidney Disease	1	*	1	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	4	*	4	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	11	48.0	11	49.4	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Marquette County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	65,440	Total Live Births:	650	Total Deaths:	540
Rank Among Counties:	27	Mothers Age <18:	26	Infant Deaths:	4
Per Square Mile:	35.9	Low Weight Births:	33	Neonatal Deaths:	3
		First Births:	273	Postneonatal Deaths:	1
				Perinatal Deaths:	5
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	461	Divorces:	269		
Marriage Rate:	14.1	Divorce Rate:	8.2		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	650	9.9	631	9.9	3	.	14	10.9
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	26	40.0	26	41.2	-	-	-	-
Low Weight	33	50.8	33	52.3	-	-	-	-
Under 1,500 Grams	8	12.3	8	12.7	-	-	-	-
< 38 Weeks Gestation	85	130.8	82	130.0	1	.	2	.
Prenatal Care Began in 1st Trimester	576	886.2	565	895.4	2	.	8	571.4

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	.	3	.	-	-	1	.
Neonatal Deaths	3	.	3	.	-	-	1	.
Postneonatal Deaths	1	.	-	-	-	-	-	-
Perinatal Deaths	5	.	5	.	-	-	-	-
Fetal Deaths	2	.	2	.	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	540	265	275	536	263	273	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	4	1	-	1	4	3	1	10	26	31	77	382	-
White Male	-	1	-	1	2	3	1	5	10	17	41	182	-
White Female	3	-	-	-	2	-	-	5	16	14	34	199	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
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	540	825.2	536	844.8	1	.	6	33.1
Diseases of the Heart	157	239.9	157	247.5	-	-	-	-
Cancer	109	166.6	108	170.2	1	.	-	-
Stroke	54	82.5	54	85.1	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	27	41.3	27	42.6	-	-	-	-
Accidents and Adverse Effects	28	42.8	28	44.1	-	-	5	.
Pneumonia and Influenza	26	39.7	25	39.4	-	-	1	.
Diabetes Mellitus	15	22.9	15	23.6	-	-	-	-
Suicide	6	9.2	6	9.5	-	-	-	-
Kidney Disease	4	.	4	.	-	-	-	-
Chronic Liver Disease and Cirrhosis	7	10.7	6	9.5	-	-	-	-
Homicide	1	.	1	.	-	-	-	-
Atherosclerosis	4	.	4	.	-	-	-	-
AIDS	1	.	1	.	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Mason County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	27,487	Total Live Births:	281	Total Deaths:	291
Rank Among Counties:	49	Mothers Age <18:	25	Infant Deaths:	1
Per Square Mile:	55.6	Low Weight Births:	21	Neonatal Deaths:	1
		First Births:	128	Postneonatal Deaths:	-
				Perinatal Deaths:	1
				Fetal Deaths:	-
MARRIAGE		DIVORCE			
Marriages:	240	Divorces:	161		
Marriage Rate:	17.5	Divorce Rate:	11.7		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	281	10.2	275	10.2	3	*	3	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	25	89.0	23	83.6	2	*	-	-
Low Weight	21	74.7	21	76.4	-	-	-	-
Under 1,500 Grams	7	24.9	7	25.5	-	-	-	-
< 38 Weeks Gestation	47	167.3	46	167.3	1	*	-	-
Prenatal Care Began in 1st Trimester	220	782.9	217	789.1	1	*	2	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	291	144	147	289	143	146	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	1	-	-	1	4	1	-	4	7	21	36	216	-
White Male	-	-	-	1	4	1	-	3	4	17	18	95	-
White Female	1	-	-	-	-	-	-	1	3	3	18	120	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Male	-	-	-	-	-	-	-	-	-	1	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

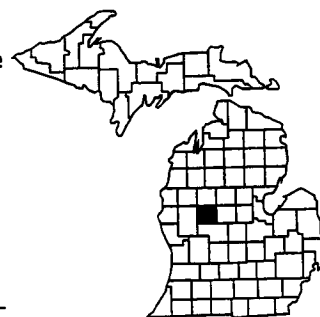
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	291	1,058.7	289	1,073.7	1	*	5	*
Diseases of the Heart	84	305.6	84	312.1	-	-	-	-
Cancer	66	240.1	66	245.2	-	-	-	-
Stroke	21	76.4	20	74.3	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	16	58.2	16	59.4	-	-	1	*
Accidents and Adverse Effects	15	54.6	15	55.7	-	-	3	*
Pneumonia and Influenza	14	50.9	14	52.0	-	-	-	-
Diabetes Mellitus	15	54.6	15	55.7	-	-	-	-
Suicide	7	25.5	7	26.0	-	-	1	*
Kidney Disease	2	*	2	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Mecosta County



POPULATION		NATIVITY		MORTALITY	
As of April 1, 1995:	37,724	Total Live Births:	448	Total Deaths:	316
Rank Among Counties:	42	Mothers Age <18:	22	Infant Deaths:	2
Per Square Mile:	67.3	Low Weight Births:	17	Neonatal Deaths:	2
		First Births:	188	Postneonatal Deaths:	-
				Perinatal Deaths:	6
				Fetal Deaths:	4
MARRIAGE		DIVORCE			
Marriages:	275	Divorces:	164		
Marriage Rate:	14.6	Divorce Rate:	8.7		

NATIVITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	448	11.9	418	11.6	21	18.6	8	15.9
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	22	49.1	20	47.8	1	*	-	-
Low Weight	17	37.9	16	38.3	1	*	-	-
Under 1,500 Grams	4	*	4	*	-	-	-	-
< 38 Weeks Gestation	56	125.0	53	126.8	2	*	1	*
Prenatal Care Began in 1st Trimester	293	654.0	280	669.9	10	476.2	3	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	6	13.3	6	14.2	-	-	-	-
Fetal Deaths	4	*	4	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	316	170	146	309	165	144	5	3	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	2	2	1	-	1	3	1	9	9	18	44	226	-
White Male	2	2	1	-	1	2	-	6	6	12	31	102	-
White Female	-	-	-	-	-	1	-	3	3	6	12	119	-
Black Male	-	-	-	-	-	-	-	-	-	-	1	2	-
Black Female	-	-	-	-	-	-	1	-	-	-	-	1	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	2	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	316	837.7	309	856.3	5	*	4	*
Diseases of the Heart	121	320.8	117	324.2	3	*	-	-
Cancer	66	175.0	65	180.1	1	*	-	-
Stroke	21	55.7	20	55.4	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	18	47.7	18	49.9	-	-	-	-
Accidents and Adverse Effects	10	26.5	10	27.7	-	-	2	*
Pneumonia and Influenza	16	42.4	16	44.3	-	-	-	-
Diabetes Mellitus	10	26.5	10	27.7	-	-	-	-
Suicide	2	*	2	*	-	-	-	-
Kidney Disease	3	*	3	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Menominee County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	24,573	Total Live Births:	292	Total Deaths:	264
Rank Among Counties:	52	Mothers Age <18:	11	Infant Deaths:	1
Per Square Mile:	23.5	Low Weight Births:	15	Neonatal Deaths:	-
		First Births:	119	Postneonatal Deaths:	1
				Perinatal Deaths:	2
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	189	Divorces:	76		
Marriage Rate:	15.4	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	292	11.9	277	11.5	-	-	15	30.5
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	11	37.7	10	36.1	-	-	1	*
Low Weight	15	51.4	15	54.2	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	44	150.7	41	148.0	-	-	3	-
Prenatal Care Began in 1st Trimester	225	770.5	217	783.4	-	-	8	533.3

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	264	136	128	261	133	128	-	-	-	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	2	-	-	1	-	1	3	7	15	45	189	-
White Male	1	-	-	-	-	-	1	3	5	7	29	87	-
White Female	-	-	-	-	1	-	-	-	2	8	15	102	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	2	-	-	-	-	-	-	-	-	1	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

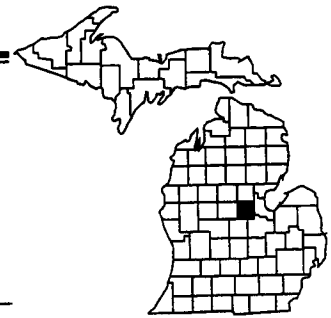
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	264	1,074.3	261	1,084.6	-	-	3	*
Diseases of the Heart	111	451.7	111	461.3	-	-	-	-
Cancer	47	191.3	47	195.3	-	-	-	-
Stroke	16	65.1	16	66.5	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	14	57.0	14	58.2	-	-	-	-
Accidents and Adverse Effects	11	44.8	9	37.4	-	-	3	*
Pneumonia and Influenza	8	32.6	8	33.2	-	-	-	-
Diabetes Mellitus	15	61.0	14	58.2	-	-	-	-
Suicide	2	*	2	*	-	-	-	-
Kidney Disease	2	*	2	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Atherosclerosis	13	52.9	13	54.0	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Midland County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	79,747	Total Live Births:	1,036	Total Deaths:	508
Rank Among Counties:	23	Mothers Age <18:	26	Infant Deaths:	8
Per Square Mile:	151.9	Low Weight Births:	74	Neonatal Deaths:	6
		First Births:	408	Postneonatal Deaths:	2
				Perinatal Deaths:	8
				Fetal Deaths:	4
MARRIAGE		DIVORCE			
Marriages:	647	Divorces:	347		
Marriage Rate:	16.2	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	1,036	13.0	1,002	12.9	9	11.0	25	19.4
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	26	25.1	26	25.9	-	-	-	-
Low Weight	74	71.4	71	70.9	1	*	2	*
Under 1,500 Grams	13	12.5	12	12.0	-	-	1	*
< 38 Weeks Gestation	191	184.4	187	186.6	-	-	4	*
Prenatal Care Began in 1st Trimester	935	902.5	911	909.2	5	*	19	760.0

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	8	7.7	8	8.0	-	-	-	-
Neonatal Deaths	6	5.8	6	6.0	-	-	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	8	7.7	8	8.0	-	-	-	-
Fetal Deaths	4	*	4	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	508	270	238	496	262	234	4	3	1	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	8	4	1	-	3	1	6	13	32	31	71	338	-
White Male	4	1	-	-	2	1	4	7	18	18	44	163	-
White Female	4	3	1	-	1	-	2	6	12	12	25	168	-
Black Male	-	-	-	-	-	-	-	-	2	-	-	1	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Male	-	-	-	-	-	-	-	-	-	1	2	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	508	637.0	496	638.9	4	*	8	36.0
Diseases of the Heart	140	175.6	137	176.5	1	*	-	-
Cancer	136	170.5	131	168.7	1	*	1	*
Stroke	35	43.9	35	45.1	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	36	45.1	36	46.4	-	-	-	-
Accidents and Adverse Effects	28	35.1	27	34.8	1	*	5	*
Pneumonia and Influenza	17	21.3	17	21.9	-	-	-	-
Diabetes Mellitus	11	13.8	9	11.6	-	-	-	-
Suicide	5	*	5	*	-	-	1	*
Kidney Disease	1	*	1	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	5	*	5	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Atherosclerosis	8	10.0	8	10.3	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Missaukee County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	13,522	Total Live Births:	160	Total Deaths:	126
Rank Among Counties:	70	Mothers Age <18:	9	Infant Deaths:	2
Per Square Mile:	23.9	Low Weight Births:	13	Neonatal Deaths:	1
		First Births:	49	Postneonatal Deaths:	1
				Perinatal Deaths:	1
				Fetal Deaths:	-
MARRIAGE		DIVORCE			
Marriages:	110	Divorces:	49		
Marriage Rate:	16.3	Divorce Rate:	7.2		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	160	11.8	157	11.7	-	-	3	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	9	56.3	9	57.3	-	-	-	-
Low Weight	13	81.3	13	82.8	-	-	-	-
Under 1,500 Grams	4	*	4	*	-	-	-	-
< 38 Weeks Gestation	28	175.0	28	178.3	-	-	-	-
Prenatal Care Began in 1st Trimester	142	887.5	140	891.7	-	-	2	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	1	*	1	*	-	-	-	-
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	126	68	58	125	68	57	-	-	-	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	-	-	-	3	2	9	30	79	-
White Male	1	-	-	-	-	-	-	2	1	3	18	43	-
White Female	1	-	-	1	-	-	-	1	-	6	12	36	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	1	-	-	-	-	-

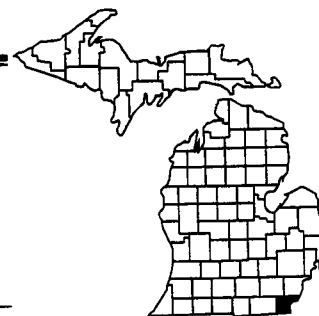
LEADING CAUSES OF DEATH

All Causes	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Diseases of the Heart	40	295.8	40	298.6	-	-	1	*
Cancer	38	281.0	38	283.6	-	-	-	-
Stroke	11	81.3	11	82.1	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	4	*	4	*	-	-	-	-
Accidents and Adverse Effects	6	44.4	5	*	-	-	-	-
Pneumonia and Influenza	5	*	5	*	-	-	-	-
Diabetes Mellitus	3	*	3	*	-	-	-	-
Suicide	1	*	1	*	-	-	-	-
Kidney Disease	2	*	2	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	1	*	1	*	-	-	1	*
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Monroe County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	139,553	Total Live Births:	1,798	Total Deaths:	1,181
Rank Among Counties:	16	Mothers Age <18:	80	Infant Deaths:	13
Per Square Mile:	250.7	Low Weight Births:	127	Neonatal Deaths:	7
		First Births:	708	Postneonatal Deaths:	6
				Perinatal Deaths:	8
				Fetal Deaths:	3
MARRIAGE		DIVORCE			
Marriages:	898	Divorces:	696		
Marriage Rate:	12.9	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	1,798	12.9	1,738	12.8	38	14.9	16	11.8
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	80	44.5	78	44.9	1	*	1	*
Low Weight	127	70.6	122	70.2	3	*	1	*
Under 1,500 Grams	27	15.0	27	15.5	-	*	3	*
< 38 Weeks Gestation	302	168.0	293	168.6	5	*	-	*
Prenatal Care Began in 1st Trimester	1,578	877.6	1,531	880.9	29	763.2	13	812.5

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	7.2	11	6.3	1	*	-	-
Neonatal Deaths	7	3.9	7	4.0	1	*	-	-
Postneonatal Deaths	6	3.3	4	*	-	*	-	-
Perinatal Deaths	8	4.4	8	4.6	-	*	-	-
Fetal Deaths	3	*	3	*	-	*	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	1,181	570	611	1,149	553	596	25	13	12	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	13	4	2	2	10	10	5	28	58	88	194	767	-
White Male	3	1	2	1	6	8	3	14	35	48	116	316	-
White Female	8	3	-	1	2	2	2	13	19	38	73	435	-
Black Male	-	-	-	-	-	-	-	1	4	2	2	4	-
Black Female	1	-	-	-	1	-	-	-	-	-	1	9	-
Other Male	-	-	-	-	-	-	-	-	-	-	2	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	1,181	846.3	1,149	847.1	25	981.5	18	44.3
Diseases of the Heart	425	304.5	417	307.4	6	235.6	-	-
Cancer	281	201.4	275	202.7	4	*	2	*
Stroke	89	63.8	87	64.1	2	*	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	45	32.2	44	32.4	1	*	1	*
Accidents and Adverse Effects	47	33.7	46	33.9	1	*	11	27.1
Pneumonia and Influenza	23	16.5	23	17.0	-	*	1	*
Diabetes Mellitus	39	27.9	38	28.0	1	*	-	-
Suicide	20	14.3	20	14.7	-	*	1	*
Kidney Disease	14	10.0	13	9.6	1	*	-	-
Chronic Liver Disease and Cirrhosis	17	12.2	15	11.1	1	*	-	-
Homicide	5	*	5	*	-	*	1	*
Atherosclerosis	11	7.9	9	6.6	2	*	-	-
AIDS	5	*	4	*	1	*	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Montcalm County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	57,867	Total Live Births:	787	Total Deaths:	515
Rank Among Counties:	31	Mothers Age <18:	51	Infant Deaths:	4
Per Square Mile:	81.2	Low Weight Births:	43	Neonatal Deaths:	3
		First Births:	306	Postneonatal Deaths:	1
				Perinatal Deaths:	7
				Fetal Deaths:	4
MARRIAGE		DIVORCE			
Marriages:	485	Divorces:	304		
Marriage Rate:	16.8	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	787	13.6	774	13.9	1	*	11	16.5
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	51	64.8	51	65.9	-	-	-	-
Low Weight	43	54.6	42	54.3	-	-	1	-
Under 1,500 Grams	9	11.4	9	11.6	-	-	-	-
< 38 Weeks Gestation	99	125.8	97	125.3	-	-	2	-
Prenatal Care Began in 1st Trimester	601	763.7	593	766.1	1	*	7	636.4

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	*	3	*	-	-	1	*
Neonatal Deaths	3	*	3	*	-	-	-	-
Postneonatal Deaths	1	*	-	-	-	-	1	*
Perinatal Deaths	7	8.8	7	9.0	-	-	-	-
Fetal Deaths	4	*	4	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	515	267	248	510	265	245	1	-	1	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	4	3	-	1	4	4	1	15	13	48	75	347	-
White Male	2	3	-	1	3	4	1	7	6	32	43	163	-
White Female	1	-	-	-	1	-	-	8	7	16	29	183	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	1	-	-
Other Male	1	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	2	-	-

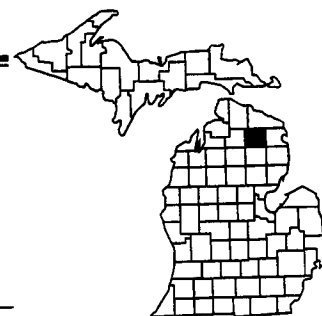
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	515	890.0	510	912.9	1	*	8	47.8
Diseases of the Heart	170	293.8	169	302.5	-	-	-	-
Cancer	114	197.0	113	202.3	-	-	1	*
Stroke	41	70.9	41	73.4	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	40	69.1	40	71.6	-	-	-	-
Accidents and Adverse Effects	28	48.4	28	50.1	-	-	5	*
Pneumonia and Influenza	17	29.4	17	30.4	-	-	-	-
Diabetes Mellitus	11	19.0	11	19.7	-	-	-	-
Suicide	7	12.1	7	12.5	-	-	-	-
Kidney Disease	7	12.1	7	12.5	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	1	*	-	-	-	-
Homicide	3	*	3	*	-	-	1	*
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Montmorency County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	9,681	Total Live Births:	107	Total Deaths:	144
Rank Among Counties:	76	Mothers Age <18:	5	Infant Deaths:	-
Per Square Mile:	17.6	Low Weight Births:	9	Neonatal Deaths:	-
		First Births:	46	Postneonatal Deaths:	-
				Perinatal Deaths:	-
				Fetal Deaths:	-
MARRIAGE		DIVORCE			
Marriages:	65	Divorces:	31		
Marriage Rate:	13.4	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	107	11.1	106	11.0	-	-	1	-
Mothers Age <18	5	-	5	-	-	-	-	-
Low Weight	9	84.1	9	84.9	-	-	-	-
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	20	186.9	19	179.2	-	-	1	-
Prenatal Care Began in 1st Trimester	93	869.2	92	867.9	-	-	1	-

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	144	80	64	142	80	62	-	-	-	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	4	5	18	52	-
White Male	-	-	-	-	1	-	-	1	2	7	7	44	-
White Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	1	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

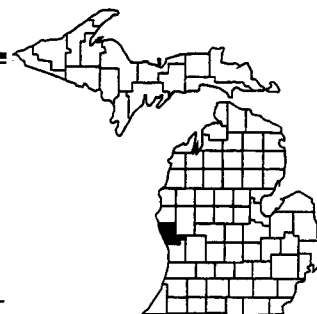
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	144	1,487.4	142	1,476.6	-	-	1	-
Diseases of the Heart	49	506.1	48	499.1	-	-	-	-
Cancer	44	454.5	43	447.1	-	-	-	-
Stroke	5	-	5	-	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	10	103.3	10	104.0	-	-	-	-
Accidents and Adverse Effects	1	-	1	-	-	-	-	-
Pneumonia and Influenza	4	-	4	-	-	-	-	-
Diabetes Mellitus	2	-	2	-	-	-	-	-
Suicide	1	-	1	-	-	-	-	-
Kidney Disease	1	-	1	-	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	-	1	-	-	-	-	-
Homicide	1	-	1	-	-	-	-	-
Atherosclerosis	2	-	2	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Muskegon County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	164,460	Total Live Births:	2,350	Total Deaths:	1,491
Rank Among Counties:	11	Mothers Age <18:	169	Infant Deaths:	18
Per Square Mile:	324.4	Low Weight Births:	180	Neonatal Deaths:	12
		First Births:	891	Postneonatal Deaths:	6
				Perinatal Deaths:	26
				Fetal Deaths:	18
MARRIAGE		DIVORCE			
Marriages:	1,380	Divorces:	874		
Marriage Rate:	16.8	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	2,350	14.3	1,826	13.2	492	20.2	31	14.0
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	169	71.9	96	52.6	69	140.2	3	*
Low Weight	180	76.6	121	66.3	58	117.9	-	-
Under 1,500 Grams	25	10.6	18	9.9	6	12.2	-	-
< 38 Weeks Gestation	417	177.4	312	170.9	101	205.3	3	*
Prenatal Care Began in 1st Trimester	1,871	796.2	1,505	824.2	344	699.2	21	677.4

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	18	7.7	14	7.7	4	*	-	-
Neonatal Deaths	12	5.1	8	4.4	4	*	-	-
Postneonatal Deaths	6	2.6	6	3.3	-	-	-	-
Perinatal Deaths	26	11.0	19	10.3	6	12.1	-	-
Fetal Deaths	18	7.6	13	7.1	4	*	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	1,491	739	752	1,293	642	651	191	94	97	6	2	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	18	2	5	4	10	10	12	47	87	100	208	988	-
White Male	9	1	2	2	1	4	9	17	47	49	97	404	-
White Female	5	-	3	1	6	2	2	12	20	33	78	489	-
Black Male	2	1	-	-	1	4	1	10	12	13	14	36	-
Black Female	2	-	-	1	2	-	-	7	7	5	18	55	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	2	-
Other Female	-	-	-	-	-	-	-	-	1	-	1	2	-

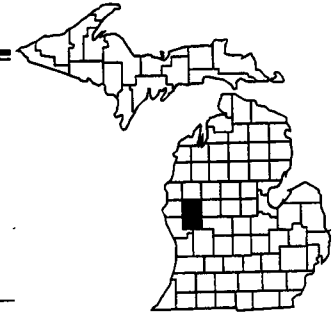
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,491	906.6	1,293	937.8	191	783.9	21	43.6
Diseases of the Heart	517	314.4	456	330.7	60	246.3	1	*
Cancer	312	189.7	270	195.8	41	168.3	1	*
Stroke	101	61.4	88	63.8	13	53.4	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	67	40.7	63	45.7	4	*	-	-
Accidents and Adverse Effects	72	43.8	60	43.5	11	45.1	10	20.8
Pneumonia and Influenza	63	38.3	58	42.1	5	*	-	-
Diabetes Mellitus	41	24.9	30	21.8	8	32.8	-	-
Suicide	27	16.4	22	16.0	5	*	2	*
Kidney Disease	10	6.1	6	4.4	4	*	-	-
Chronic Liver Disease and Cirrhosis	16	9.7	13	9.4	2	*	-	-
Homicide	13	7.9	3	*	10	41.0	1	*
Atherosclerosis	31	18.8	28	20.3	3	*	-	-
AIDS	9	5.5	6	4.4	3	*	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Newwaygo County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	43,586	Total Live Births:	637	Total Deaths:	373
Rank Among Counties:	37	Mothers Age <18:	44	Infant Deaths:	4
Per Square Mile:	51.5	Low Weight Births:	43	Neonatal Deaths:	2
		First Births:	233	Postneonatal Deaths:	2
				Perinatal Deaths:	6
				Fetal Deaths:	4
MARRIAGE		DIVORCE			
Marriages:	339	Divorces:	213		
Marriage Rate:	15.6	Divorce Rate:	9.8		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	637	14.6	620	14.5	12	24.9	5	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	44	69.1	42	67.7	1	*	1	*
Low Weight	43	67.5	40	64.5	2	*	1	*
Under 1,500 Grams	7	11.0	6	9.7	1	*	2	*
< 38 Weeks Gestation	107	168.0	104	167.7	1	*	2	*
Prenatal Care Began in 1st Trimester	450	706.4	441	711.3	5	*	4	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	*	3	*	1	*	-	-
Neonatal Deaths	2	*	1	*	1	*	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	6	9.4	5	*	1	*	-	-
Fetal Deaths	4	*	4	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	373	189	184	359	184	175	10	2	8	4	3	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	-	3	-	3	3	5	9	12	32	59	243	-
White Male	3	-	2	-	2	1	2	7	7	20	32	108	-
White Female	-	-	1	-	1	1	3	2	5	11	25	126	-
Black Male	-	-	-	-	-	-	-	-	-	-	1	1	-
Black Female	1	-	-	-	-	1	-	-	-	1	-	6	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	1	-

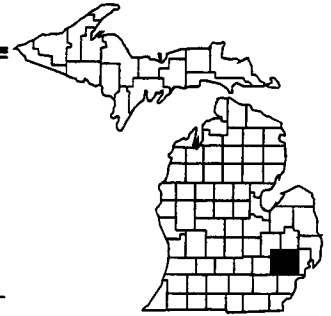
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	373	855.8	359	841.1	10	2,074.7	6	45.1
Diseases of the Heart	120	275.3	116	271.8	2	*	-	-
Cancer	93	213.4	90	210.9	2	*	-	-
Stroke	18	41.3	17	39.8	1	*	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	18	41.3	17	39.8	1	*	-	-
Accidents and Adverse Effects	24	55.1	23	53.9	-	-	5	-
Pneumonia and Influenza	7	16.1	7	16.4	-	-	-	-
Diabetes Mellitus	13	29.8	12	28.1	1	*	-	-
Suicide	4	*	4	*	-	-	-	-
Kidney Disease	6	13.8	6	14.1	-	-	-	-
Chronic Liver Disease and Cirrhosis	4	*	4	*	-	-	-	-
Homicide	4	*	4	*	-	-	-	-
Atherosclerosis	4	*	4	*	-	-	-	-
AIDS	3	*	3	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Oakland County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	1,153,459	Total Live Births:	16,088	Total Deaths:	8,617
Rank Among Counties:	2	Mothers Age <18:	369	Infant Deaths:	84
Per Square Mile:	1,318.4	Low Weight Births:	1,079	Neonatal Deaths:	52
		First Births:	6,844	Postneonatal Deaths:	32
				Perinatal Deaths:	126
				Fetal Deaths:	82
MARRIAGE		DIVORCE			
Marriages:	8,568	Divorces:	4,641		
Marriage Rate:	14.9	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	16,088	13.9	13,688	13.4	1,636	16.4	473	13.4
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	369	22.9	243	17.8	115	70.3	10	21.1
Low Weight	1,079	67.1	822	60.1	205	125.3	30	63.4
Under 1,500 Grams	197	12.2	141	10.3	48	29.3	5	*
< 38 Weeks Gestation	2,719	169.0	2,186	159.7	401	245.1	77	162.8
Prenatal Care Began in 1st Trimester	14,592	907.0	12,608	921.1	1,329	812.3	416	879.5

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	84	5.2	59	4.3	21	12.8	4	*
Neonatal Deaths	52	3.2	34	2.5	15	9.2	3	*
Postneonatal Deaths	32	2.0	25	1.8	6	3.7	1	*
Perinatal Deaths	126	7.8	92	6.7	27	16.4	4	*
Fetal Deaths	82	5.1	65	4.7	13	7.9	1	*

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	8,617	4,086	4,530	7,878	3,693	4,184	624	334	290	111	57	54	
	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	84	17	9	9	42	46	58	232	401	635	1,239	5,844	1
White Male	32	8	3	3	22	26	30	129	199	315	607	2,318	1
White Female	26	6	3	2	10	9	12	78	115	221	488	3,214	-
Black Male	13	1	1	-	8	5	11	12	49	51	67	116	-
Black Female	8	2	1	2	1	3	4	11	27	34	52	145	-
Other Male	2	-	1	1	-	2	-	1	5	10	16	19	-
Other Female	2	-	-	1	1	1	1	6	4	6	31	-	-

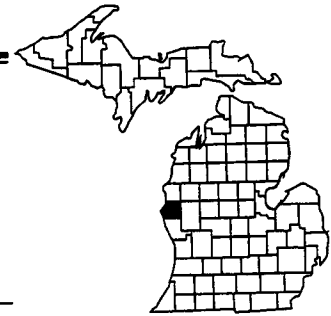
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	8,617	747.1	7,878	773.6	624	625.5	77	26.5
Diseases of the Heart	2,838	246.0	2,630	258.2	179	179.4	-	-
Cancer	2,114	183.3	1,927	189.2	156	156.4	7	2.4
Stroke	672	58.3	612	60.1	50	50.1	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	376	32.6	365	35.8	10	10.0	3	*
Accidents and Adverse Effects	214	18.6	187	18.4	21	21.1	27	9.3
Pneumonia and Influenza	294	25.5	274	26.9	16	16.0	3	*
Diabetes Mellitus	220	19.1	194	19.0	20	20.0	-	-
Suicide	120	10.4	106	10.4	5	*	8	2.7
Kidney Disease	123	10.7	110	10.8	9	9.0	-	-
Chronic Liver Disease and Cirrhosis	120	10.4	105	10.3	12	12.0	-	-
Homicide	49	4.2	29	2.8	20	20.0	6	2.1
Atherosclerosis	66	5.7	63	6.2	3	*	-	-
AIDS	45	3.9	34	3.3	11	11.0	1	*

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Oceana County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	23,871	Total Live Births:	355	Total Deaths:	244
Rank Among Counties:	55	Mothers Age <18:	20	Infant Deaths:	1
Per Square Mile:	44.1	Low Weight Births:	13	Neonatal Deaths:	-
		First Births:	140	Postneonatal Deaths:	1
				Perinatal Deaths:	3
				Fetal Deaths:	3
MARRIAGE		DIVORCE			
Marriages:	202	Divorces:	112		
Marriage Rate:	16.9	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	355	14.9	348	14.8	2	*	4	*
Mothers Age <18	20	56.3	19	54.6	-	-	1	-
Low Weight	13	36.6	13	37.4	-	-	-	-
Under 1,500 Grams	5	*	5	*	-	-	-	-
< 38 Weeks Gestation	42	118.3	41	117.8	-	-	1	-
Prenatal Care Began in 1st Trimester	266	749.3	263	755.7	1	*	2	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	3	*	3	*	-	-	-	-
Fetal Deaths	3	*	3	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	244	132	112	242	132	110	-	-	-	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	2	-	1	1	1	-	2	8	23	40	165	-
White Male	1	1	-	1	-	-	-	2	6	17	23	84	-
White Female	-	1	-	1	-	-	-	-	2	6	16	-	-
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	244	1,022.2	242	1,032.2	-	-	4	*
Diseases of the Heart	76	318.4	76	324.2	-	-	-	-
Cancer	57	238.8	55	234.6	-	-	2	*
Stroke	15	62.8	15	64.0	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	12	50.3	12	51.2	-	-	-	-
Accidents and Adverse Effects	13	54.5	13	55.4	-	-	-	-
Pneumonia and Influenza	12	50.3	12	51.2	-	-	-	-
Diabetes Mellitus	6	25.1	6	25.6	-	-	1	*
Suicide	3	*	3	*	-	-	-	-
Kidney Disease	5	*	5	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Atherosclerosis	4	*	4	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Ogemaw County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	20,562	Total Live Births:	221	Total Deaths:	234
Rank Among Counties:	62	Mothers Age <18:	9	Infant Deaths:	2
Per Square Mile:	36.1	Low Weight Births:	12	Neonatal Deaths:	2
		First Births:	83	Postneonatal Deaths:	-
				Perinatal Deaths:	3
				Fetal Deaths:	1
MARRIAGE		DIVORCE			
Marriages:	160	Divorces:	68		
Marriage Rate:	15.6	Divorce Rate:	6.6		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	221	10.7	217	10.7	1	*	2	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	9	40.7	9	41.5	-	-	-	-
Low Weight	12	54.3	11	50.7	-	-	1	*
Under 1,500 Grams	3	*	3	*	-	-	-	-
< 38 Weeks Gestation	30	135.7	29	133.6	-	-	1	*
Prenatal Care Began in 1st Trimester	194	877.8	190	875.6	1	*	2	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	234	121	113	234	121	113	-	-	-	-	-	-	
	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	-	1	3	2	1	4	8	12	42	157	-
White Male	2	2	-	-	2	1	1	2	3	9	18	81	-
White Female	-	-	-	1	1	1	-	2	5	3	24	76	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

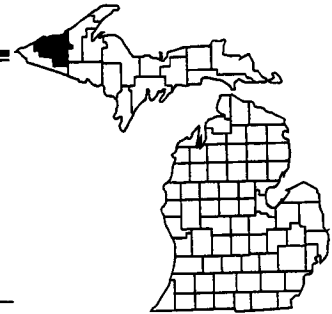
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	234	1,138.0	234	1,148.9	-	-	6	111.1
Diseases of the Heart	85	413.4	85	417.3	-	-	-	-
Cancer	48	233.4	48	235.7	-	-	-	-
Stroke	17	82.7	17	83.5	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	7	34.0	7	34.4	-	-	-	-
Accidents and Adverse Effects	12	58.4	12	58.9	-	-	2	*
Pneumonia and Influenza	7	34.0	7	34.4	-	-	-	-
Diabetes Mellitus	5	*	5	*	-	-	-	-
Suicide	5	*	5	*	-	-	1	*
Kidney Disease	2	*	2	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	11	53.5	11	54.0	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Ontonagon County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	8,642	Total Live Births:	72	Total Deaths:	107
Rank Among Counties:	80	Mothers Age <18:	4	Infant Deaths:	-
Per Square Mile:	6.6	Low Weight Births:	2	Neonatal Deaths:	-
		First Births:	28	Postneonatal Deaths:	-
				Perinatal Deaths:	-
				Fetal Deaths:	-
MARRIAGE		DIVORCE			
Marriages:	57	Divorces:	1		
Marriage Rate:	13.2	Divorce Rate:	.		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	72	8.3	72	8.5	-	-	-	-
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	4	.	4	.	-	-	-	-
Low Weight	2	.	2	.	-	-	-	-
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	11	152.8	11	152.8	-	-	-	-
Prenatal Care Began in 1st Trimester	54	750.0	54	750.0	-	-	-	-

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	107	50	57	107	50	57	-	-	-	-	-	-	
	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	-	7	5	12	80	-
White Male	-	-	-	-	-	-	1	-	-	-	6	35	-
White Female	-	-	-	1	-	-	-	-	-	-	-	45	-
Black Male	-	-	-	-	-	-	-	2	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	2	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

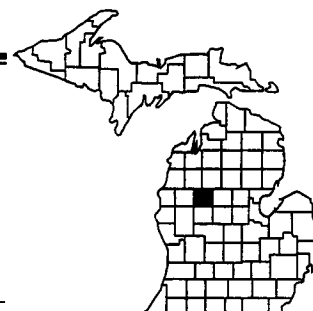
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	107	1,238.1	107	1,258.7	-	-	1	.
Diseases of the Heart	42	486.0	42	494.1	-	-	1	.
Cancer	28	324.0	28	329.4	-	-	-	-
Stroke	7	81.0	7	82.3	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	5	.	5	.	-	-	-	-
Accidents and Adverse Effects	5	.	5	.	-	-	-	-
Pneumonia and Influenza	2	.	2	.	-	-	-	-
Diabetes Mellitus	3	.	3	.	-	-	-	-
Suicide	1	.	1	.	-	-	-	-
Kidney Disease	1	.	1	.	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	.	1	.	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	2	.	2	.	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

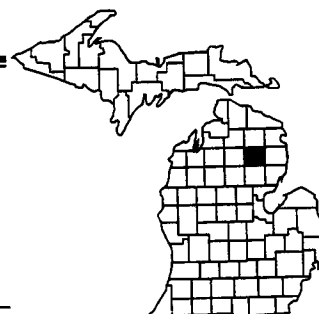
Profile of Osceola County



POPULATION			NATALITY			MORTALITY							
As of April 1, 1995:	21,755		Total Live Births:	276		Total Deaths:	204						
Rank Among Counties:	60		Mothers Age <18:	19		Infant Deaths:	2						
Per Square Mile:	38.3		Low Weight Births:	18		Neonatal Deaths:	2						
			First Births:	106		Postneonatal Deaths:	-						
						Perinatal Deaths:	2						
						Fetal Deaths:	1						
MARRIAGE			DIVORCE										
Marriages:	150		Divorces:	81									
Marriage Rate:	13.8		Divorce Rate:	7.4									
NATALITY BY RACE OF MOTHER													
Live Births	All Races		White		Black		All Other Races						
	Number	Rate	Number	Rate	Number	Rate	Number	Rate					
	276	12.7	275	12.8	-	-	1	*					
Mothers Age <18	All Races		White		Black		All Other Races						
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio					
	19	68.8	19	69.1	-	-	-	-					
Low Weight	18	65.2	18	65.5	-	-	-	-					
Under 1,500 Grams	5	*	5	*	-	-	-	-					
< 38 Weeks Gestation	44	159.4	44	160.0	-	-	-	-					
Prenatal Care Began in 1st Trimester	191	692.0	190	690.9	-	-	1	*					
Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 in specified group.													
INFANT AND PERINATAL MORTALITY BY RACE													
Infant Deaths	All Races		White		Black		All Other Races						
	Number	Rate	Number	Rate	Number	Rate	Number	Rate					
	2	*	2	*	-	-	-	-					
Neonatal Deaths	2	*	2	*	-	-	-	-					
Postneonatal Deaths	-	-	-	-	-	-	-	-					
Perinatal Deaths	2	*	2	*	-	-	-	-					
Fetal Deaths	1	*	1	*	-	-	-	-					
Note: Rate is per 1,000 live births or total births in 1996 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	114	90	203	113	90	-	-	-	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
	-	-	1	1	-	1	3	6	9	15	44	122	-
White Male	-	-	-	1	-	1	1	4	7	9	29	61	-
White Female	2	-	1	-	-	-	2	2	2	6	15	60	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-
LEADING CAUSES OF DEATH													
All Causes	All Races		White		Black		Children Ages 1-19						
	Number	Rate	Number	Rate	Number	Rate	Number	Rate					
	204	937.7	203	943.1	-	-	2	*					
Diseases of the Heart	67	308.0	67	311.3	-	-	-	-					
Cancer	55	252.8	54	250.9	-	-	-	-					
Stroke	6	27.6	6	27.9	-	-	-	-					
Chronic Obstructive Pulmonary Diseases and Allied Conditions	7	32.2	7	32.5	-	-	-	-					
Accidents and Adverse Effects	14	64.4	14	65.0	-	-	2	*					
Pneumonia and Influenza	6	27.6	6	27.9	-	-	-	-					
Diabetes Mellitus	3	*	3	*	-	-	-	-					
Suicide	3	*	3	*	-	-	-	-					
Kidney Disease	1	*	1	*	-	-	-	-					
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-					
Homicide	-	-	-	-	-	-	-	-					
Atherosclerosis	1	*	1	*	-	-	-	-					
AIDS	-	-	-	-	-	-	-	-					
Note: Rate is per 100,000 estimated population in 1995 in specified group.													

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Oscoda County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	8,683	Total Live Births:	89	Total Deaths:	103
Rank Among Counties:	79	Mothers Age <18:	9	Infant Deaths:	-
Per Square Mile:	15.3	Low Weight Births:	5	Neonatal Deaths:	-
		First Births:	36	Postneonatal Deaths:	-
				Perinatal Deaths:	1
				Fetal Deaths:	1
MARRIAGE		DIVORCE			
Marriages:	70	Divorces:	34		
Marriage Rate:	16.1	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	89	10.2	87	10.1	-	-	2	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	9	101.1	9	103.4	-	-	-	-
Low Weight	5	-	5	*	-	-	-	-
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	8	89.9	8	92.0	-	-	-	-
Prenatal Care Began in 1st Trimester	61	685.4	60	689.7	-	-	1	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	103	60	43	103	60	43	-	-	-	-	-	-	
	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	8	8	18	65	-
White Male	-	-	-	-	1	-	-	3	7	5	13	34	-
White Female	-	-	-	-	-	-	-	-	1	3	5	-	-
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	103	1,186.2	103	1,193.9	-	-	1	-
Diseases of the Heart	35	403.1	35	405.7	-	-	-	-
Cancer	30	345.5	30	347.7	-	-	-	-
Stroke	10	115.2	10	115.9	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	2	*	2	*	-	-	-	-
Accidents and Adverse Effects	4	*	4	*	-	-	1	-
Pneumonia and Influenza	5	*	5	*	-	-	-	-
Diabetes Mellitus	1	*	1	*	-	-	-	-
Suicide	3	*	3	*	-	-	-	-
Kidney Disease	-	-	-	-	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Otsego County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	20,762	Total Live Births:	263	Total Deaths:	193
Rank Among Counties:	61	Mothers Age <18:	6	Infant Deaths:	5
Per Square Mile:	40.3	Low Weight Births:	20	Neonatal Deaths:	5
		First Births:	101	Postneonatal Deaths:	-
				Perinatal Deaths:	7
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	210	Divorces:	129		
Marriage Rate:	20.2	Divorce Rate:	12.4		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	263	12.7	261	12.7	1	*	1	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	6	22.8	6	23.0	-	-	-	-
Low Weight	20	76.0	20	76.6	-	-	-	-
Under 1,500 Grams	6	22.8	6	23.0	-	-	-	-
< 38 Weeks Gestation	47	178.7	46	176.2	-	-	1	*
Prenatal Care Began in 1st Trimester	239	908.7	237	908.0	1	*	1	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	5	*	5	*	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	7	26.4	7	26.6	-	-	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	193	104	89	190	102	88	-	-	-	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	5	-	-	1	1	2	3	6	9	16	32	118	-
White Male	4	-	-	1	1	2	1	3	6	8	20	56	-
White Female	1	-	-	-	-	-	1	3	3	8	11	61	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	1	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	1	-	-

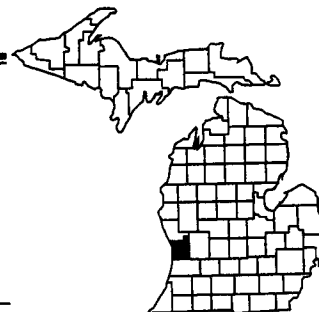
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	193	929.6	190	924.9	-	-	2	*
Diseases of the Heart	56	269.7	56	272.6	-	-	-	-
Cancer	55	264.9	54	262.9	-	-	-	-
Stroke	10	48.2	10	48.7	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	6	28.9	6	29.2	-	-	-	-
Accidents and Adverse Effects	8	38.5	7	34.1	-	-	1	*
Pneumonia and Influenza	2	*	2	*	-	-	-	-
Diabetes Mellitus	5	*	5	*	-	-	-	-
Suicide	5	*	5	*	-	-	-	-
Kidney Disease	5	*	4	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	3	*	3	*	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Ottawa County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	210,393	Total Live Births:	3,367	Total Deaths:	1,404
Rank Among Counties:	10	Mothers Age <18:	107	Infant Deaths:	26
Per Square Mile:	371.0	Low Weight Births:	225	Neonatal Deaths:	23
		First Births:	1,279	Postneonatal Deaths:	3
				Perinatal Deaths:	33
				Fetal Deaths:	14
MARRIAGE		DIVORCE			
Marrriages:	1,688	Divorces:	-		
Marriage Rate:	16.0	Divorce Rate:	-		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	3,367	16.0	3,258	15.9	26	20.3	82	19.9
Mothers Age <18	107	31.8	99	30.4	3	.	5	.
Low Weight	225	66.8	217	66.6	3	.	4	.
Under 1,500 Grams	45	13.4	41	12.6	1	.	2	.
< 38 Weeks Gestation	558	165.7	533	163.6	4	.	21	256.1
Prenatal Care Began in 1st Trimester	2,699	801.6	2,624	805.4	18	692.3	57	695.1

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	26	7.7	24	7.4	1	.	1	.
Neonatal Deaths	23	6.8	21	6.4	1	.	1	.
Postneonatal Deaths	3	.	3	.	-	-	-	-
Perinatal Deaths	33	9.8	31	9.5	2	.	-	-
Fetal Deaths	14	4.1	13	4.0	1	.	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	1,404	689	715	1,388	681	707	9	6	3	7	2	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	26	3	2	5	3	11	8	31	38	83	154	1,040	-
White Male	11	3	-	3	1	10	6	17	21	53*	100	456	-
White Female	13	-	2	2	2	1	2	11	16	27	52	579	-
Black Male	1	-	-	-	-	-	-	2	-	1	1	1	-
Black Female	-	-	-	-	-	-	-	1	-	1	-	2	-
Other Male	-	-	-	-	-	-	-	-	-	1	-	-	-
Other Female	1	-	-	-	-	-	-	-	-	1	1	2	-

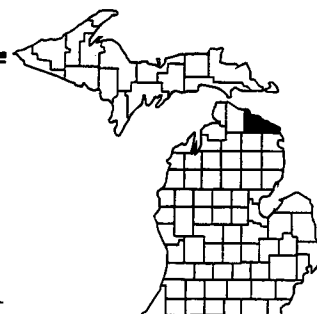
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,404	667.3	1,388	677.1	9	702.6	13	19.5
Diseases of the Heart	453	215.3	447	218.1	4	.	-	-
Cancer	302	143.5	297	144.9	1	.	3	.
Stroke	95	45.2	95	46.3	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	66	31.4	65	31.7	1	.	-	-
Accidents and Adverse Effects	65	30.9	65	31.7	-	-	6	9.0
Pneumonia and Influenza	91	43.3	91	44.4	-	-	2	.
Diabetes Mellitus	25	11.9	25	12.2	-	-	-	-
Suicide	14	6.7	14	6.8	-	-	-	-
Kidney Disease	21	10.0	21	10.2	-	-	-	-
Chronic Liver Disease and Cirrhosis	13	6.2	13	6.3	-	-	-	-
Homicide	1	.	1	.	-	-	-	-
Atherosclerosis	6	2.9	6	2.9	-	-	-	-
AIDS	3	.	3	.	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Presque Isle County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	14,241	Total Live Births:	143	Total Deaths:	169
Rank Among Counties:	68	Mothers Age <18:	5	Infant Deaths:	-
Per Square Mile:	21.7	Low Weight Births:	5	Neonatal Deaths:	-
		First Births:	55	Postneonatal Deaths:	-
				Perinatal Deaths:	1
				Fetal Deaths:	1
MARRIAGE		DIVORCE			
Marriages:	91	Divorces:	34		
Marriage Rate:	12.8	Divorce Rate:	4.8		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	143	10.0	140	9.9	-	-	3	-
Mothers Age <18	5	*	5	*	-	-	-	-
Low Weight	5	*	5	*	-	-	-	-
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	18	125.9	17	121.4	-	-	1	*
Prenatal Care Began in 1st Trimester	130	909.1	127	907.1	-	-	3	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	169	95	74	169	95	74	-	-	-	-	-	-	
	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	-	-	-	-	-	-	1	4	3	10	28	123	-
White Female	-	-	-	-	-	-	-	4	2	7	22	59	-
Black Male	-	-	-	-	-	-	-	-	1	3	6	64	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

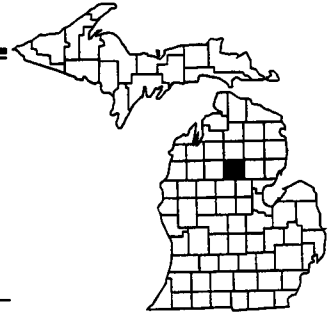
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	169	1,186.7	169	1,194.8	-	-	-	-
Diseases of the Heart	65	456.4	65	459.5	-	-	-	-
Cancer	43	301.9	43	304.0	-	-	-	-
Stroke	11	77.2	11	77.8	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	8	56.2	8	56.6	-	-	-	-
Accidents and Adverse Effects	5	*	5	*	-	-	-	-
Pneumonia and Influenza	6	42.1	6	42.4	-	-	-	-
Diabetes Mellitus	4	*	4	*	-	-	-	-
Suicide	3	*	3	*	-	-	-	-
Kidney Disease	1	*	1	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Roscommon County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	22,595	Total Live Births:	208	Total Deaths:	322
Rank Among Counties:	59	Mothers Age <18:	5	Infant Deaths:	1
Per Square Mile:	42.8	Low Weight Births:	11	Neonatal Deaths:	1
		First Births:	81	Postneonatal Deaths:	-
				Perinatal Deaths:	1
				Fetal Deaths:	-
MARRIAGE		DIVORCE			
Marriages:	136	Divorces:	99		
Marriage Rate:	12.0	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	208	9.2	205	9.1	-	-	3	*
Mothers Age <18	5	*	5	*	-	-	-	-
Low Weight	11	52.9	11	53.7	-	-	-	-
Under 1,500 Grams	2	*	2	*	-	-	-	-
< 38 Weeks Gestation	24	115.4	24	117.1	-	-	-	-
Prenatal Care Began in 1st Trimester	180	865.4	178	868.3	-	-	2	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 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	165	157	320	164	156	-	-	-	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	2	1	4	6	20	49	236	-
White Male	-	-	1	-	2	1	1	3	3	14	29	111	-
White Female	1	-	-	-	-	1	1	1	3	6	20	123	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	1	-

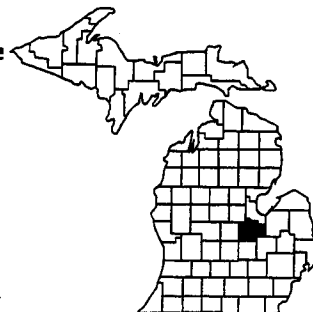
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	322	1,425.1	320	1,426.0	-	-	3	*
Diseases of the Heart	133	588.6	131	583.8	-	-	-	-
Cancer	68	301.0	68	303.0	-	-	1	*
Stroke	17	75.2	17	75.8	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	21	92.9	21	93.6	-	-	-	-
Accidents and Adverse Effects	13	57.5	13	57.9	-	-	2	*
Pneumonia and Influenza	16	70.8	16	71.3	-	-	-	-
Diabetes Mellitus	3	*	3	*	-	-	-	-
Suicide	4	*	4	*	-	-	-	-
Kidney Disease	2	*	2	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	4	*	4	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	6	26.6	6	26.7	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Saginaw County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	212,294	Total Live Births:	2,782	Total Deaths:	1,888
Rank Among Counties:	9	Mothers Age <18:	200	Infant Deaths:	23
Per Square Mile:	260.4	Low Weight Births:	279	Neonatal Deaths:	17
		First Births:	1,112	Postneonatal Deaths:	6
				Perinatal Deaths:	35
				Fetal Deaths:	20
MARRIAGE		DIVORCE			
Marriages:	1,487	Divorces:	798		
Marriage Rate:	14.0	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	2,782	13.1	2,065	12.2	671	16.6	44	15.9
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	200	71.9	95	46.0	104	155.0	1	*
Low Weight	279	100.3	172	83.3	105	156.5	2	*
Under 1,500 Grams	66	23.7	37	17.9	29	43.2	-	-
< 38 Weeks Gestation	574	206.3	391	189.3	175	260.8	7	159.1
Prenatal Care Began in 1st Trimester	2,284	821.0	1,800	871.7	450	670.6	33	750.0

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	8.3	11	5.3	12	17.9	-	-
Neonatal Deaths	17	6.1	8	3.9	9	13.4	-	-
Postneonatal Deaths	6	2.2	3	*	3	*	-	-
Perinatal Deaths	35	12.5	22	10.6	13	19.2	-	-
Fetal Deaths	20	7.1	14	6.7	6	8.9	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	1,888	929	959	1,584	762	822	293	162	131	10	4	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	23	8	8	5	10	11	12	55	102	128	327	1,199	-
White Male	4	2	1	2	2	4	5	27	38	50	161	466	-
White Female	7	-	2	-	2	-	3	9	27	39	101	632	-
Black Male	7	1	4	2	6	4	3	9	18	26	37	45	-
Black Female	5	5	1	1	-	3	1	10	19	10	23	53	-
Other Male	-	-	-	-	-	-	-	-	-	1	1	2	-
Other Female	-	-	-	-	-	-	-	-	-	2	3	1	-

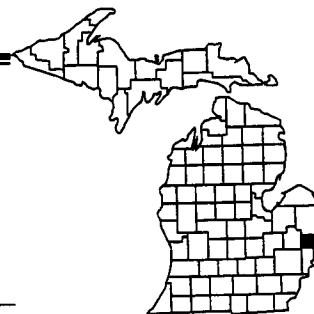
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,888	889.3	1,584	936.9	293	724.5	31	50.7
Diseases of the Heart	619	291.6	544	321.7	73	180.5	-	-
Cancer	488	229.9	411	243.1	76	187.9	2	-
Stroke	126	59.4	102	60.3	23	56.9	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	89	41.9	80	47.3	8	19.8	-	-
Accidents and Adverse Effects	73	34.4	47	27.8	25	61.8	18	29.5
Pneumonia and Influenza	57	26.8	50	29.6	7	17.3	-	-
Diabetes Mellitus	46	21.7	37	21.9	8	19.8	-	-
Suicide	31	14.6	30	17.7	1	*	1	*
Kidney Disease	20	9.4	17	10.1	3	*	-	-
Chronic Liver Disease and Cirrhosis	22	10.4	19	11.2	3	*	-	-
Homicide	19	8.9	2	*	16	39.6	6	9.8
Atherosclerosis	18	8.5	16	9.5	2	*	-	-
AIDS	6	2.8	5	*	1	*	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of St. Clair County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	154,236	Total Live Births:	2,064	Total Deaths:	1,371
Rank Among Counties:	13	Mothers Age <18:	97	Infant Deaths:	14
Per Square Mile:	210.1	Low Weight Births:	131	Neonatal Deaths:	9
		First Births:	828	Postneonatal Deaths:	5
				Perinatal Deaths:	18
				Fetal Deaths:	12
MARRIAGE		DIVORCE			
Marriages:	1,165	Divorces:	709		
Marriage Rate:	15.1	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	2,064	13.4	1,999	13.4	35	10.4	27	17.7
Mothers Age <18	97	47.0	93	46.5	4	-	-	-
Low Weight	131	63.5	127	63.5	4	-	-	-
Under 1,500 Grams	12	5.8	12	6.0	-	-	-	-
< 38 Weeks Gestation	353	171.0	343	171.6	7	200.0	2	-
Prenatal Care Began in 1st Trimester	1,688	817.8	1,649	824.9	19	542.9	17	629.6

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	6.8	14	7.0	-	-	-	-
Neonatal Deaths	9	4.4	9	4.5	-	-	-	-
Postneonatal Deaths	5	-	5	-	-	-	-	-
Perinatal Deaths	18	8.7	18	9.0	-	-	-	-
Fetal Deaths	12	5.8	12	6.0	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	1,371	663	708	1,331	643	688	29	15	14	11	5	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	14	3	4	6	8	8	8	34	64	110	224	888	-
White Male	6	1	2	2	5	7	5	24	35	71	134	351	-
White Female	8	2	1	4	2	1	3	9	26	32	84	516	-
Black Male	-	-	1	-	-	-	-	-	1	3	3	7	-
Black Female	-	-	-	-	1	-	-	-	2	2	1	8	-
Other Male	-	-	-	-	-	-	-	1	-	1	1	2	-
Other Female	-	-	-	-	-	-	-	-	-	1	1	4	-

LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,371	888.9	1,331	891.1	29	865.7	21	47.7
Diseases of the Heart	469	304.1	455	304.6	11	328.4	-	-
Cancer	321	208.1	311	208.2	8	238.8	3	-
Stroke	91	59.0	90	60.3	1	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	82	53.2	82	54.9	-	-	-	-
Accidents and Adverse Effects	67	43.4	65	43.5	1	-	12	27.3
Pneumonia and Influenza	37	24.0	37	24.8	-	-	-	-
Diabetes Mellitus	60	38.9	55	36.8	3	-	-	-
Suicide	26	16.9	26	17.4	-	-	1	-
Kidney Disease	15	9.7	14	9.4	1	-	-	-
Chronic Liver Disease and Cirrhosis	16	10.4	16	10.7	-	-	-	-
Homicide	2	-	2	-	-	-	2	-
Atherosclerosis	11	7.1	11	7.4	-	-	-	-
AIDS	2	-	2	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of St. Joseph County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	60,680	Total Live Births:	873	Total Deaths:	590
Rank Among Counties:	29	Mothers Age <18:	42	Infant Deaths:	7
Per Square Mile:	120.7	Low Weight Births:	57	Neonatal Deaths:	6
		First Births:	315	Postneonatal Deaths:	1
				Perinatal Deaths:	7
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	500	Divorces:	363		
Marriage Rate:	16.5	Divorce Rate:	12.0		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	873	14.4	832	14.3	32	18.3	7	12.8
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	42	48.1	37	44.5	5	*	-	-
Low Weight	57	65.3	53	63.7	4	*	-	-
Under 1,500 Grams	11	12.6	9	10.8	2	*	-	-
< 38 Weeks Gestation	132	151.2	120	144.2	8	250.0	3	*
Prenatal Care Began in 1st Trimester	706	808.7	684	822.1	16	500.0	5	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	8.0	6	7.2	1	*	-	-
Neonatal Deaths	6	6.9	5	*	1	*	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	7	8.0	6	7.2	1	*	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	590	309	281	572	299	273	13	7	6	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	1	-	-	3	4	2	11	23	38	78	423	-
White Male	3	1	-	-	2	2	1	10	12	21	53	194	-
White Female	3	-	-	-	1	1	1	1	9	13	23	221	-
Black Male	-	-	-	-	-	1	-	-	2	1	1	2	-
Black Female	1	-	-	-	-	-	-	-	-	1	-	4	-
Other Male	-	-	-	-	-	-	-	-	-	1	1	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	2	-

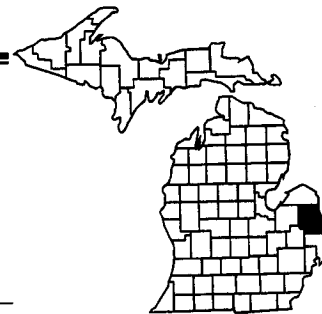
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	590	972.3	572	979.8	13	744.1	4	*
Diseases of the Heart	196	323.0	191	327.2	4	*	-	-
Cancer	139	229.1	135	231.2	2	*	-	-
Stroke	33	54.4	29	49.7	2	*	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	27	44.5	27	46.2	-	-	-	-
Accidents and Adverse Effects	34	56.0	33	56.5	1	*	4	*
Pneumonia and Influenza	18	29.7	18	30.8	-	-	-	-
Diabetes Mellitus	25	41.2	25	42.8	-	-	-	-
Suicide	11	18.1	11	18.8	-	-	-	-
Kidney Disease	7	11.5	7	12.0	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	3	*	2	*	1	*	-	-
Atherosclerosis	3	*	3	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Sanilac County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	42,198	Total Live Births:	514	Total Deaths:	472
Rank Among Counties:	39	Mothers Age <18:	19	Infant Deaths:	3
Per Square Mile:	43.8	Low Weight Births:	42	Neonatal Deaths:	2
		First Births:	203	Postneonatal Deaths:	1
				Perinatal Deaths:	6
				Fetal Deaths:	5
MARRIAGE		DIVORCE			
Marriages:	306	Divorces:	220		
Marriage Rate:	14.5	Divorce Rate:	10.4		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	514	12.2	511	12.2	-	-	3	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	19	37.0	19	37.2	-	-	-	-
Low Weight	42	81.7	42	82.2	-	-	-	-
Under 1,500 Grams	7	13.6	7	13.7	-	-	-	-
< 38 Weeks Gestation	113	219.8	112	219.2	-	-	1	*
Prenatal Care Began in 1st Trimester	405	787.9	402	786.7	-	-	3	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	11.6	6	11.6	-	-	-	-
Fetal Deaths	5	*	5	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	472	248	224	468	247	221	-	-	-	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	-	2	1	3	5	4	17	23	64	175	-
White Male	1	1	-	1	1	2	3	1	7	16	39	349	-
White Female	2	-	-	1	-	1	2	2	10	7	23	173	-
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	472	1,118.5	468	1,118.0	-	-	4	*
Diseases of the Heart	168	398.1	166	396.5	-	-	1	*
Cancer	113	267.8	113	269.9	-	-	-	-
Stroke	37	87.7	36	86.0	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	21	49.8	21	50.2	-	-	-	-
Accidents and Adverse Effects	18	42.7	18	43.0	-	-	3	*
Pneumonia and Influenza	18	42.7	18	43.0	-	-	-	-
Diabetes Mellitus	27	64.0	27	64.5	-	-	-	-
Suicide	4	*	4	*	-	-	-	-
Kidney Disease	6	14.2	6	14.3	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Schoolcraft County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	8,698	Total Live Births:	88	Total Deaths:	121
Rank Among Counties:	78	Mothers Age <18:	6	Infant Deaths:	3
Per Square Mile:	7.4	Low Weight Births:	6	Neonatal Deaths:	1
		First Births:	36	Postneonatal Deaths:	2
				Perinatal Deaths:	1
				Fetal Deaths:	-
MARRIAGE		DIVORCE			
Marriages:	63	Divorces:	35		
Marriage Rate:	14.5	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	88	10.1	83	10.4	-	-	5	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	6	68.2	5	*	-	-	1	*
Low Weight	6	68.2	5	*	-	-	1	*
Under 1,500 Grams	1	*	-	-	-	-	1	*
< 38 Weeks Gestation	11	125.0	10	120.5	-	-	1	*
Prenatal Care Began in 1st Trimester	68	772.7	64	771.1	-	-	4	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	1	*	-	-	-	-	1	*
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	121	59	62	115	55	60	-	-	-	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	3	-	-	-	-	-	-	-	4	7	18	89	-
White Male	2	-	-	-	-	-	-	-	3	3	6	41	-
White Female	-	-	-	-	-	-	-	-	1	3	10	46	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	1	-	-	-	-	-	-	-	-	1	-	2	-
Other Female	-	-	-	-	-	-	-	-	-	-	2	-	-

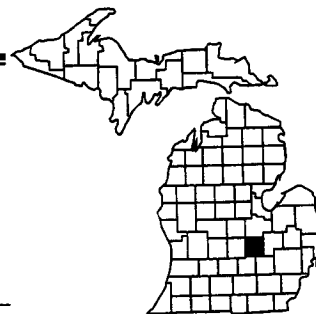
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	121	1,391.1	115	1,442.5	-	-	-	-
Diseases of the Heart	46	528.9	44	551.9	-	-	-	-
Cancer	21	241.4	21	263.4	-	-	-	-
Stroke	9	103.5	9	112.9	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	5	*	4	*	-	-	-	-
Accidents and Adverse Effects	3	*	2	*	-	-	-	-
Pneumonia and Influenza	13	149.5	13	163.1	-	-	-	-
Diabetes Mellitus	6	69.0	6	75.3	-	-	-	-
Suicide	1	*	-	-	-	-	-	-
Kidney Disease	1	*	1	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Shiawassee County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	72,077	Total Live Births:	885	Total Deaths:	557
Rank Among Counties:	25	Mothers Age <18:	36	Infant Deaths:	3
Per Square Mile:	133.4	Low Weight Births:	58	Neonatal Deaths:	2
		First Births:	347	Postneonatal Deaths:	1
				Perinatal Deaths:	6
				Fetal Deaths:	4
MARRIAGE		DIVORCE			
Marrriages:	553	Divorces:	266		
Marriage Rate:	15.3	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	885	12.3	878	12.3	-	-	7	9.6
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	36	40.7	36	41.0	-	-	-	-
Low Weight	58	65.5	58	66.1	-	-	-	-
Under 1,500 Grams	12	13.6	12	13.7	-	-	-	-
< 38 Weeks Gestation	135	152.5	135	153.8	-	-	-	-
Prenatal Care Began in 1st Trimester	791	893.8	785	894.1	-	-	6	857.1

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	6.7	6	6.8	-	-	-	-
Fetal Deaths	4	*	4	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	557	292	265	555	292	263	-	-	-	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	3	1	1	1	5	2	3	12	29	44	65	391	-
White Male	3	1	-	-	2	1	2	9	21	24	39	190	-
White Female	-	-	1	1	2	1	1	3	8	20	26	200	-
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	557	772.8	555	778.9	-	-	8	38.7
Diseases of the Heart	163	226.1	162	227.4	-	-	-	-
Cancer	137	190.1	137	192.3	-	-	-	-
Stroke	61	84.6	61	85.6	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	28	38.8	28	39.3	-	-	1	*
Accidents and Adverse Effects	18	25.0	17	23.9	-	-	5	*
Pneumonia and Influenza	20	27.7	20	28.1	-	-	-	-
Diabetes Mellitus	8	11.1	8	11.2	-	-	-	-
Suicide	5	*	5	*	-	-	-	-
Kidney Disease	5	*	5	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	2	*	2	*	-	-	-	-
Atherosclerosis	20	27.7	20	28.1	-	-	-	-
AIDS	3	*	3	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Tuscola County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	57,488	Total Live Births:	700	Total Deaths:	472
Rank Among Counties:	32	Mothers Age <18:	34	Infant Deaths:	6
Per Square Mile:	70.8	Low Weight Births:	60	Neonatal Deaths:	4
		First Births:	274	Postneonatal Deaths:	2
				Perinatal Deaths:	5
				Fetal Deaths:	4
MARRIAGE		DIVORCE			
Marriages:	399	Divorces:	220		
Marriage Rate:	13.9	Divorce Rate:	7.7		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	700	12.2	693	12.3	5	*	2	*
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	34	48.6	34	49.1	-	-	-	-
Low Weight	60	85.7	59	85.1	1	*	-	-
Under 1,500 Grams	13	18.6	13	18.8	-	-	-	-
< 38 Weeks Gestation	125	178.6	123	177.5	2	*	-	-
Prenatal Care Began in 1st Trimester	601	858.6	595	858.6	4	*	2	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	8.6	6	8.7	-	-	-	-
Neonatal Deaths	4	*	4	*	-	-	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	5	*	5	*	-	-	-	-
Fetal Deaths	4	*	4	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	472	265	207	466	261	205	3	1	2	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	6	2	1	-	8	5	5	10	27	27	77	304	-
White Male	2	1	-	-	4	1	4	7	17	14	48	163	-
White Female	4	1	-	-	4	1	3	9	12	29	138	-	
Black Male	-	-	-	-	-	-	-	1	-	-	-	-	-
Black Female	-	-	1	-	-	-	-	-	-	-	-	1	-
Other Male	-	-	-	-	-	-	-	-	-	1	-	2	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

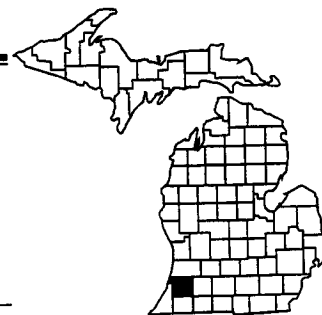
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	472	821.0	466	826.4	3	*	11	66.5
Diseases of the Heart	162	281.8	159	282.0	1	*	-	-
Cancer	123	214.0	122	216.3	1	*	-	-
Stroke	33	57.4	33	58.5	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	17	29.6	16	28.4	-	-	-	-
Accidents and Adverse Effects	28	48.7	28	49.7	-	-	7	42.3
Pneumonia and Influenza	9	15.7	9	16.0	-	-	-	-
Diabetes Mellitus	7	12.2	7	12.4	-	-	-	-
Suicide	7	12.2	7	12.4	-	-	2	*
Kidney Disease	6	10.4	6	10.6	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	3	*	2	*	1	*	1	*

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Van Buren County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	74,590	Total Live Births:	1,027	Total Deaths:	661
Rank Among Counties:	24	Mothers Age <18:	63	Infant Deaths:	5
Per Square Mile:	122.0	Low Weight Births:	73	Neonatal Deaths:	3
		First Births:	392	Postneonatal Deaths:	2
				Perinatal Deaths:	9
				Fetal Deaths:	6
MARRIAGE		DIVORCE			
Marriages:	560	Divorces:	415		
Marriage Rate:	15.0	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	1,027	13.8	957	14.0	63	12.6	7	6.7
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	63	61.3	53	55.4	10	158.7	-	-
Low Weight	73	71.1	68	71.1	4	*	1	-
Under 1,500 Grams	14	13.6	13	13.6	1	*	-	-
< 38 Weeks Gestation	160	155.8	147	153.6	12	190.5	1	-
Prenatal Care Began in 1st Trimester	770	749.8	738	771.2	30	476.2	2	*

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	8.7	9	9.3	-	-	-	-
Fetal Deaths	6	5.8	6	6.2	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	661	338	323	594	298	296	62	37	25	5	3	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	5	2	2	1	6	4	2	13	35	58	98	435	-
White Male	2	1	2	-	3	2	1	6	22	27	64	168	-
White Female	3	1	-	1	3	1	1	5	12	24	24	221	-
Black Male	-	-	-	-	-	-	-	2	1	2	3	17	-
Black Female	-	-	-	-	-	1	-	-	-	-	1	1	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	2	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

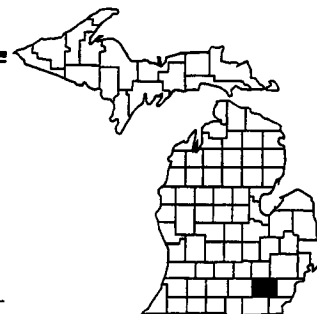
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	661	886.2	594	866.5	62	1,240.7	11	49.4
Diseases of the Heart	213	285.6	194	283.0	17	340.2	1	*
Cancer	157	210.5	136	198.4	20	400.2	1	*
Stroke	41	55.0	37	54.0	4	*	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	26	34.9	23	33.6	3	*	-	-
Accidents and Adverse Effects	33	44.2	32	46.7	1	*	5	*
Pneumonia and Influenza	25	33.5	22	32.1	3	*	1	*
Diabetes Mellitus	25	33.5	22	32.1	3	*	-	-
Suicide	9	12.1	9	13.1	-	-	-	-
Kidney Disease	3	*	2	*	1	*	-	-
Chronic Liver Disease and Cirrhosis	4	*	3	*	1	*	-	-
Homicide	3	*	2	*	-	-	-	-
Atherosclerosis	10	13.4	9	13.1	1	*	-	-
AIDS	4	*	2	*	2	*	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Washtenaw County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	292,610	Total Live Births:	3,749	Total Deaths:	1,610
Rank Among Counties:	6	Mothers Age <18:	103	Infant Deaths:	21
Per Square Mile:	412.0	Low Weight Births:	209	Neonatal Deaths:	14
		First Births:	1,577	Postneonatal Deaths:	7
				Perinatal Deaths:	24
				Fetal Deaths:	11
MARRIAGE		DIVORCE			
Marriages:	2,133	Divorces:	1,060		
Marriage Rate:	14.6	Divorce Rate:	7.2		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	3,749	12.8	2,743	11.3	516	15.4	278	17.5
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	103	27.5	58	21.1	38	73.6	3	*
Low Weight	209	55.7	132	48.1	55	106.6	10	36.0
Under 1,500 Grams	43	11.5	29	10.6	12	23.3	-	-
< 38 Weeks Gestation	348	92.8	248	90.4	61	118.2	14	50.4
Prenatal Care Began in 1st Trimester	2,885	769.5	2,186	796.9	344	666.7	199	715.8

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	21	5.6	17	6.2	4	*	-	-
Neonatal Deaths	14	3.7	11	4.0	3	*	-	-
Postneonatal Deaths	7	1.9	6	2.2	1	*	-	-
Perinatal Deaths	24	6.4	17	6.2	7	13.5	-	-
Fetal Deaths	11	2.9	7	2.5	4	*	-	-

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	1,610	769	841	1,411	668	743	181	90	91	16	10	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	21	1	2	2	9	14	9	62	85	128	217	1,060	-
White Male	9	-	1	1	7	2	3	33	45	70	105	392	-
White Female	8	1	1	1	2	2	2	19	18	41	80	568	-
Black Male	3	-	-	-	-	6	1	6	13	11	17	33	-
Black Female	1	-	-	-	-	3	3	3	8	6	11	56	-
Other Male	-	-	-	-	-	1	-	1	-	-	2	6	-
Other Female	-	-	-	-	-	-	-	-	-	-	2	4	-

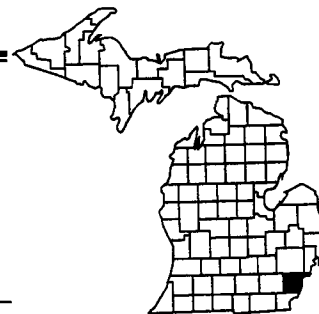
LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,610	550.2	1,411	580.1	181	540.2	14	18.9
Diseases of the Heart	504	172.2	449	184.6	52	155.2	1	*
Cancer	376	128.5	331	136.1	41	122.4	1	*
Stroke	128	43.7	114	46.9	12	35.8	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	70	23.9	63	25.9	6	17.9	-	-
Accidents and Adverse Effects	53	18.1	45	18.5	7	20.9	5	*
Pneumonia and Influenza	51	17.4	41	16.9	8	23.9	1	*
Diabetes Mellitus	50	17.1	43	17.7	6	17.9	-	-
Suicide	27	9.2	24	9.9	2	*	2	*
Kidney Disease	10	3.4	8	3.3	2	*	-	-
Chronic Liver Disease and Cirrhosis	15	5.1	14	5.8	1	*	-	-
Homicide	10	3.4	1	*	9	26.9	-	-
Atherosclerosis	16	5.5	16	6.6	-	-	-	-
AIDS	15	5.1	13	5.3	1	*	1	*

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Wayne County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	2,055,504	Total Live Births:	31,685	Total Deaths:	20,607
Rank Among Counties:	1	Mothers Age <18:	1,946	Infant Deaths:	349
Per Square Mile:	3,341.7	Low Weight Births:	3,140	Neonatal Deaths:	226
		First Births:	11,936	Postneonatal Deaths:	123
				Perinatal Deaths:	409
				Fetal Deaths:	222
MARRIAGE		DIVORCE			
Marriages:	10,790	Divorces:	7,419		
Marriage Rate:	10.5	Divorce Rate:	7.2		

NATALITY BY RACE OF MOTHER

	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	31,685	15.4	15,825	13.9	15,021	17.1	671	19.4
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	1,946	61.4	557	35.2	1,370	91.2	14	20.9
Low Weight	3,140	99.1	1,005	63.5	2,071	137.9	47	70.0
Under 1,500 Grams	652	20.6	158	10.0	483	32.2	7	10.4
< 38 Weeks Gestation	6,539	206.4	2,518	159.1	3,883	258.5	117	174.4
Prenatal Care Began in 1st Trimester	23,450	740.1	13,406	847.1	9,401	625.9	520	775.0

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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	349	11.0	83	5.2	261	17.4	5	*
Neonatal Deaths	226	7.1	56	3.5	166	11.1	4	*
Postneonatal Deaths	123	3.9	27	1.7	95	6.3	1	*
Perinatal Deaths	409	12.8	128	8.1	271	17.9	7	10.4
Fetal Deaths	222	7.0	74	4.7	141	9.3	4	*

Note: Rate is per 1,000 live births or total births in 1996 in specified group.

MORTALITY

	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	20,607	10,579	10,028	11,826	5,843	5,983	8,638	4,664	3,974	140	71	69	
	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	349	72	27	41	151	223	257	810	1,513	1,832	3,305	12,018	9
White Male	46	16	2	11	32	41	45	197	376	554	1,034	3,486	3
White Female	37	11	6	5	10	11	26	94	200	318	749	4,514	2
Black Male	135	18	13	16	87	135	138	326	602	556	840	1,796	2
Black Female	126	27	6	7	20	35	46	183	319	383	663	2,157	2
Other Male	3	-	-	1	2	-	2	6	8	10	7	32	-
Other Female	2	-	-	1	-	1	-	4	8	11	12	30	-

LEADING CAUSES OF DEATH

	All Races		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	20,607	1,002.5	11,826	1,035.9	8,638	982.4	291	49.5
Diseases of the Heart	7,159	348.3	4,409	386.2	2,704	307.5	9	1.5
Cancer	4,653	226.4	2,800	245.3	1,822	207.2	13	2.2
Stroke	1,272	61.9	738	64.6	522	59.4	2	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	677	32.9	472	41.3	200	22.7	10	1.7
Accidents and Adverse Effects	605	29.4	309	27.1	286	32.5	93	15.8
Pneumonia and Influenza	700	34.1	385	33.7	307	34.9	5	*
Diabetes Mellitus	535	26.0	293	25.7	240	27.3	3	*
Suicide	246	12.0	163	14.3	80	9.1	11	1.9
Kidney Disease	257	12.5	129	11.3	126	14.3	-	-
Chronic Liver Disease and Cirrhosis	329	16.0	190	16.6	137	15.6	-	-
Homicide	496	24.1	56	4.9	439	49.9	82	14.0
Atherosclerosis	102	5.0	76	6.7	26	3.0	-	-
AIDS	264	12.8	55	4.8	209	23.8	2	*

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Profile of Wexford County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1995:	28,690	Total Live Births:	378	Total Deaths:	261
Rank Among Counties:	47	Mothers Age <18:	17	Infant Deaths:	1
Per Square Mile:	50.7	Low Weight Births:	25	Neonatal Deaths:	1
		First Births:	127	Postneonatal Deaths:	-
				Perinatal Deaths:	4
				Fetal Deaths:	4
MARRIAGE		DIVORCE			
Marriages:	275	Divorces:	173		
Marriage Rate:	19.2	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	378	13.2	370	13.1	2	*	6	19.5
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Mothers Age <18	17	45.0	15	40.5	-	-	2	*
Low Weight	25	66.1	25	67.6	-	-	-	-
Under 1,500 Grams	2	*	2	*	-	-	-	-
< 38 Weeks Gestation	61	161.4	60	162.2	-	-	1	*
Prenatal Care Began in 1st Trimester	299	791.0	292	789.2	1	*	6	1,000.0

Note: Rate is per 1,000 estimated population in 1995 and ratio per 1,000 live births in 1996 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 1996 in specified group.

MORTALITY

Deaths	All Races			White			Black			All Other Races			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	261	137	124	258	135	123	-	-	-	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	2	-	-	2	-	2	4	12	16	41	181	-
White Male	1	-	-	-	1	-	-	3	5	13	28	84	-
White Female	-	1	-	-	1	-	2	1	7	2	13	96	-
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	261	909.7	258	910.3	-	-	4	*
Diseases of the Heart	92	320.7	92	324.6	-	-	-	-
Cancer	63	219.6	62	218.8	-	-	-	-
Stroke	23	80.2	23	81.2	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	10	34.9	9	31.8	-	-	-	-
Accidents and Adverse Effects	10	34.9	9	31.8	-	-	4	*
Pneumonia and Influenza	10	34.9	10	35.3	-	-	-	-
Diabetes Mellitus	7	24.4	7	24.7	-	-	-	-
Suicide	2	*	2	*	-	-	-	-
Kidney Disease	2	*	2	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	5	*	5	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1995 in specified group.

Note: Asterisk (*) indicates that data do not meet the standards of reliability or precision.
 Source: 1996 Michigan Resident Birth, Death and Fetal Death Files and 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

NATALITY

SECTION I



NATALITY

KEY TRENDS

Demographic Between 1900 and 1996, the number of live births has varied considerably. The general trend has been increasing numbers of live births from 1900 through 1957, declining numbers through 1976 and fairly stable numbers until 1989. During 1989 through 1991 there were more live births each year in Michigan than had been born to Michigan residents in any year since 1971. There was a 13 percent drop in the number of live births between 1990 and 1996.

In the last twenty-five years fertility rates (births per 1,000 women ages 15-44) 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 17.6 percent in 1976 to 21.2 percent of the births in 1996.

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 138.4 in 1991. The rates have declined to 38.2 and 98.7 in 1996 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 rose from 69 percent in 1970 to 81 percent in 1985 and has remained at approximately 80 percent since that time. In 1996, the highest percentages of mothers who initiated care early occurred among white and Asian and Pacific Islander mothers and mothers of Arab ancestry (79 to 84 percent). The lowest percentages occurred among black and American

An Overview, 1996

Total Resident Live Births	133,231
Resident Live Births per Day	365.0
Crude Birth Rate (births per 1,000 population)	14.0
Fertility Rate (births per 1,000 women 15-44)	60.7
First Births (percent of total live births)	39.7
Median Birthweight in Grams (live births)	3,374
Low Birthweight Live Births	10,228
Low Birthweight Ratio (per 1,000 live births)	76.8
Median Age of Mother (live births)	27
Live Births with Congenital Anomalies	1,001
Congenital Anomalies per 10,000 Live Births	75.1
Live Births with No Prenatal Care	1,284
No Prenatal Care Ratio (per 1,000 live births)	9.6
Home Births	828
Live Born Sets of Twins	1,809
Live Born Sets of Triplets	77
Live Born Multiple Births of Four or More	12
Male Live Births per 100 Female Live Births	104.9
Total Resident Fetal Deaths	759

Source: 1996 Michigan Resident Birth File, Division for Vital Records and Health Statistics, MDCH

Indian mothers and mothers of Hispanic ancestry (65 to 70 percent).

Birth Outcome A national goal is to have the percentage 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 1996. The percent for white mothers decreased from 6.6 in 1970 to 6.4 in 1996, while the percent for black mothers fell from 14.3 in 1970 to 13.6 in 1996. 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 0.4 to 0.5 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 1996, 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 1996 17.3 percent of the pregnant Michigan women used tobacco during their pregnancy.

Tobacco use during pregnancy was highest among American Indian mothers (36.5 percent). About 3 percent of the Asian and Pacific Islander mothers and 5 percent of the mothers of Arab ancestry smoked. About 10 percent of the mothers of Hispanic ancestry smoked, while 15 and 18 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 towards the end of the Second World War (Figure 1.1). Between 1957 and 1976, live births decreased by 37 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 an increase in the number of live births in both 1989 and 1990. Since the recent high of 153,080 live births in 1990, the number of births has declined every year to 133,231 in 1996. The 1996 number of births is similar to number 50 years ago.

United States The national pattern of birth trends was similar to that observed in Michigan. For 1996, the provisional figure was 3,914,953 an increase of less than one percent from 1995.

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 14.0 was achieved in 1996. Prior to 1996, 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 1996 rate of 14.0 is 13 percent lower than the rate in 1991.

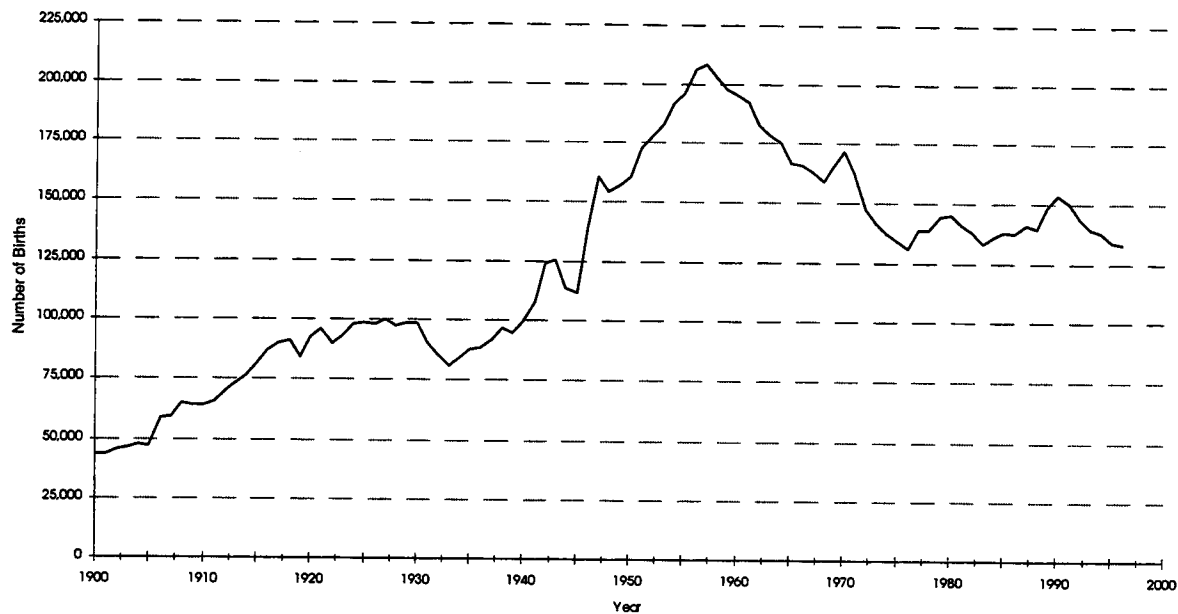
Table 1.1
Live Births and Crude Birth Rates
Michigan and United States Residents
Selected Years, 1900 - 1996

United States		Year	Michigan	
Number	Rate		Number	Rate
---	---	1900	43,699	18.1
2,777,000	30.1	1910	64,109	22.8
2,950,000	27.7	1920	92,245	25.1
2,618,000	21.3	1930	98,882	20.4
2,559,000	19.4	1940	99,106	18.9
3,632,000	24.1	1950	160,055	25.1
4,257,850	23.7	1960	195,056	24.9
3,731,386	18.4	1970	171,667	19.3
3,612,258	15.9	1980	145,162	15.7
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
3,899,589	14.8	1995	134,169	14.1
3,914,953Pr	14.8Pr	1996	133,231	14.0

Note: Rates are live births per 1,000 population.

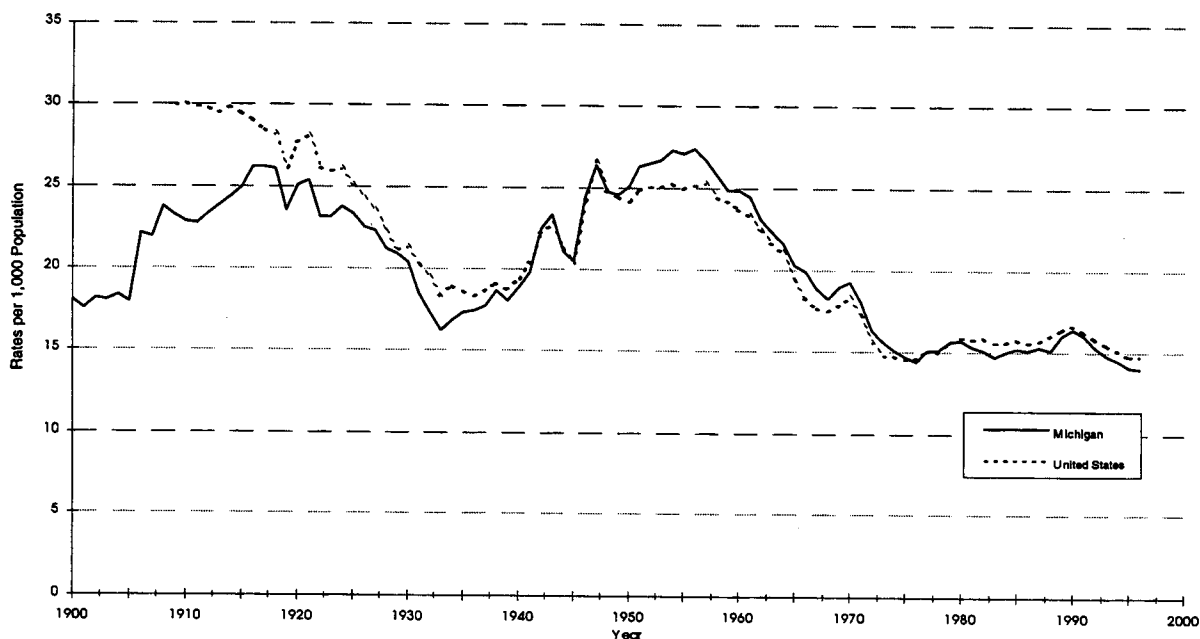
Source: 1900-1996 Michigan Resident Birth Files, Division for Vital Records and Health Statistics, MDCH
Monthly Vital Statistics Report, National Center for Health Statistics

Figure 1.1
Live Births
Michigan Residents, 1900-1996



Source: 1900-1996 Michigan Resident Birth Files, Division for Vital Records and Health Statistics, MDCH
Monthly Vital Statistics Report, National Center for Health Statistics

Figure 1.2
Live Birth Rates
Michigan Residents, 1900-1996 and United States Residents, 1909-1996



Note: Rates are live births per 1,000 population. United States rates prior to 1909 are not available. United States data for 1996 are provisional.

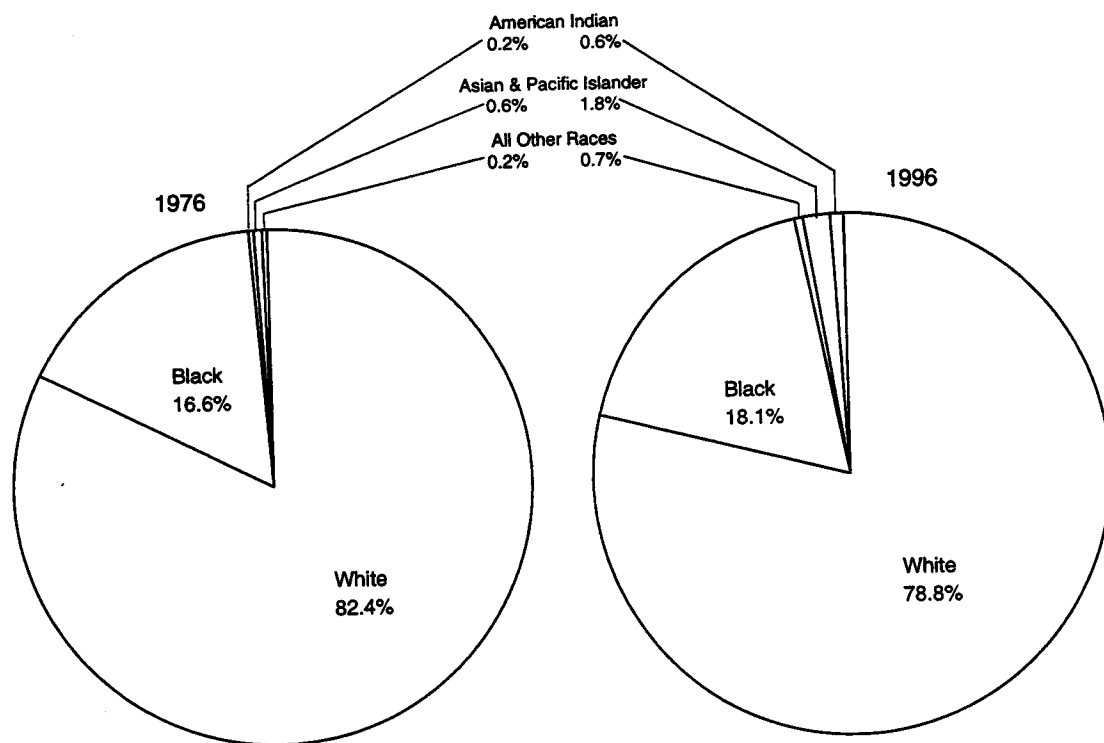
Source: 1900-1996 Michigan Resident Birth Files, Division for Vital Records and Health Statistics, MDCH
Monthly Vital Statistics Report, National Center for Health Statistics

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 1976 through 1996 (Figure 1.3). Live births to white women declined from 82.4 percent of

all live births in 1976 to 78.8 percent in 1996. The percentages of live births born to mothers of minority race groups increased from 17.6 to 21.2 percent during the twenty year interval.

Figure 1.3
Live Birth Percents by Mother's Race
Michigan Residents, 1976 and 1996



Note: Totals may not add to 100 percent due to rounding. In 1976 Koreans were included in all other races and Asian Indians were included in white.

Source: 1976 and 1996 Michigan Resident Birth Files, Division for Vital Records and Health Statistics, MDCH

Mother's Age In 1996, about 36 percent of all live births were to women less than 25 years of age (Table 1.2). Less than 2 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 to 24 years), while white, Asian and Pacific Islander and Arab mothers were older (median: 27 to 29 years).

Teenage Mothers Differences are reflected in the proportion of teenage births in each race or ancestry group. Although over 60 percent of the births to teens are to white mothers, only about 1 in 10 births to white mothers were born to a teen. Even lower proportions of Asian and Pacific Islander mothers and mothers of Arab ancestry were under age 20, about 1 in 20 and 1 in 13 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 Distribution by Age, Race and Ancestry of Mother
Michigan Residents, 1996

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	330	0.2	122	0.1	201	0.8	4	*	2	*	-	-	2	*	24	0.5
15 - 19	15,899	11.9	10,166	9.7	5,376	22.3	165	20.6	122	5.0	11	17.2	206	7.4	1,028	20.4
20 - 24	31,231	23.4	22,699	21.6	7,683	31.9	280	34.9	396	16.2	30	46.9	693	24.9	1,501	29.8
25 - 29	39,286	29.5	32,420	30.9	5,523	22.9	191	23.8	850	34.8	12	18.8	853	30.6	1,297	25.8
30 - 34	31,472	23.6	26,890	25.6	3,407	14.2	110	13.7	765	31.3	8	12.5	651	23.4	820	16.3
35 - 39	12,730	9.6	10,742	10.2	1,574	6.5	43	5.4	250	10.2	3	*	302	10.8	308	6.1
40+	2,256	1.7	1,864	1.8	303	1.3	9	1.1	56	2.3	-	-	77	2.8	57	1.1
Not stated	27	0.0	19	0.0	6	0.0	-	-	-	-	-	-	-	-	1	0.0
Total	133,231	100.0	104,922	100.0	24,073	100.0	802	100.0	2,441	100.0	64	100.0	2,784	100.0	5,035	100.0
Median age at last Birthday	27		28		24		23		29		23		27		24	

Note: Totals may not add to 100 percent due to rounding. Records with race not stated are included only in the "All Races" column. Asterisk (*) indicates that the data do not meet standards of reliability or precision.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Birth File, Division for Vital Records and 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 and Figure 1.4. The crude birth rate changes discussed above understate the recent decline in fertility for both regions. The fertility rate for Michigan in 1996 was 50 percent below the 1960 rate, while the crude birth rate decreased 44 percent over the 36 years.

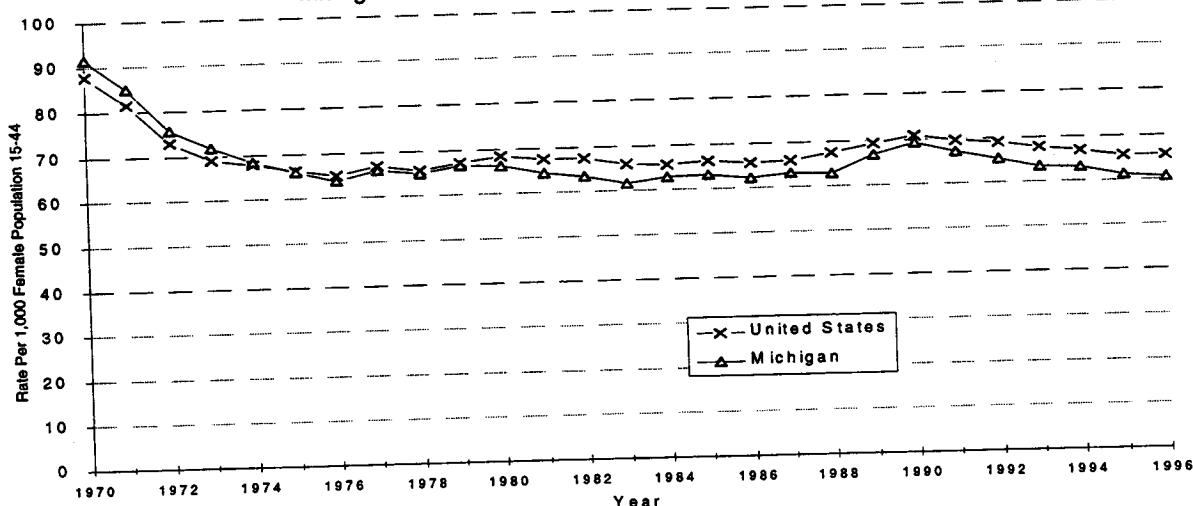
Table 1.3
Fertility Rates
Michigan and United States Residents
Selected Years, 1900-1996

United States	Year	Michigan
---	1900	78.5
126.8	1910	99.0
117.9	1920	111.6
89.2	1930	87.6
79.9	1940	78.9
106.2	1950	110.5
118.0	1960	123.1
87.9	1970	91.7
68.4	1980	66.2
70.9	1990	69.0
69.6	1991	67.2
68.9	1992	65.1
67.6	1993	63.5
66.7	1994	62.9
65.6	1995	61.1
65.4Pr	1996	60.7

Note: Fertility rates are live births per 1,000 women 15-44.

Source: 1900-1996 Michigan Resident Birth Files, Division for Vital Records and Health Statistics, MDCH
Monthly Vital Statistics Report, National Center for Health Statistics

Figure 1.4
Fertility Rates
Michigan Residents, and United States Residents, 1970-1996



Note: Fertility rates are live births per 1,000 female population ages 15-44. United States data for 1996 are provisional.

Source: 1970-1996 Michigan Resident Birth Files, Division for Vital Records and Health Statistics, MDCH
Monthly Vital Statistics Report, National Center for Health Statistics

Fertility Rates by Race 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 percent above the rate for white women in 1970, fell sharply to 10 percent higher in 1985 and increased to 45 percent higher in 1991 then decreased again to 18 percent higher in 1996. Since 1970 the fertility rate for black women has declined 44 percent compared with a 34 percent drop for white women.

The fertility rates for white women declined to a low level of 60.8 per 1,000 white females ages 15-44 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 58.4 for white women and the lowest rate (68.9) for black women since 1985.

Table 1.4
Fertility Rates by Race of Mother
Michigan Residents, Selected Years, 1970-1996

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	62.8	91.4
1992	61.3	85.9
1993	60.0	81.8
1994	59.5	78.3
1995	58.6	71.3
1996	58.4	68.9
Percent Change 1970-1996	-33.6	-44.2

Note: Rates are per 1,000 females ages 15-44.

Source: 1970-1996 Michigan Resident Birth Files, Division for Vital Records and Health Statistics, MDCH

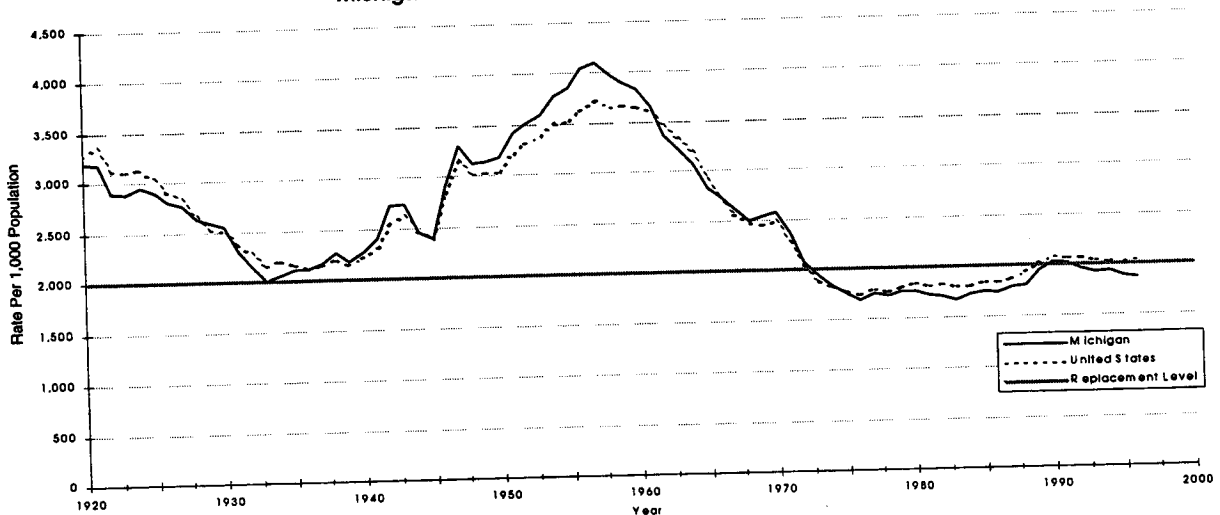
Replacement Level Figure 1.5 displays the changes in the fertility rate between 1920 and 1996 for Michigan and the United States. (See also Table 4.4) The total fertility rate is a hypothetical measure of the number of live births that would occur to every 1,000 women during their reproductive life, if these women experienced the age-specific birth rates observed in a given year. 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.

Michigan's total fertility rate has generally paralleled that of the nation. The Michigan rate dropped from 3,196 in 1920 to 2,007 in 1933 and then increased between 1933 and 1957, reaching 4,100 in

the latter year. Between 1957 and 1996 the total fertility rate in Michigan declined to a low of 1,676 in 1983 and increased to 1,873 in 1996. The rate was 2,040 in 1996 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 1996 the Michigan total fertility rate was again below 2,000. 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 1996, there were 1,480,570 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 1,003,217 people out of Michigan.

Figure 1.5
Total Fertility Rates
Michigan and United States Residents, 1920-1996



Note: Total Fertility rate is total children born to 1,000 women in their lifetime assuming constant live birth rates.

Source: 1920-1996 Michigan Resident Birth Files, Division for Vital Records and Health Statistics, MDCH
Monthly Vital Statistics Report, National Center for Health Statistics

AGE-SPECIFIC LIVE BIRTH RATES

All Women Figure 1.6 displays age-specific live birth rates for the period 1970-1996. 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 48.5 in 1996.

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 through 1983 and then 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 62.9 and 88.3 percent, respectively, by 1996 (Appendix Table 4.4).

Black and White Women Figures 1.7 and 1.8 present the trends in age-specific rates for white and

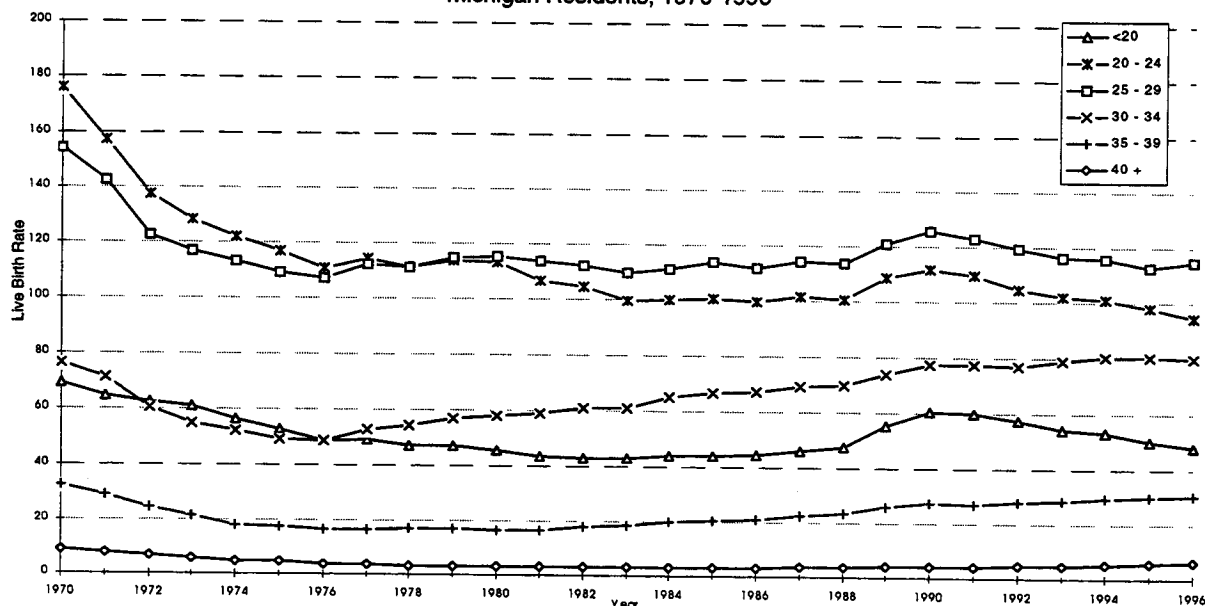
black women respectively for the period 1980-1996. Rates for black women under age 25 were above those for white women during these years. The live birth rates for white and black women aged 25 and over were similar.

Between 1980 and 1996 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 1996. There was a gradual increase in rates for ages 30 and above between 1980 and 1996 for both groups.

For black teenage women, birth rates fluctuated between 1980 and 1985, increased from 1986 to 1991, and decreased by 28.7 percent in 1996. The rates for white teenagers fell from 1980 through 1983, remained fairly constant until 1988, rose through 1990 and decreased by 12.4 percent in 1996.

Rates for black and white teens were mirrored by their counterparts ages 20-29 for most years between 1980 and 1996.

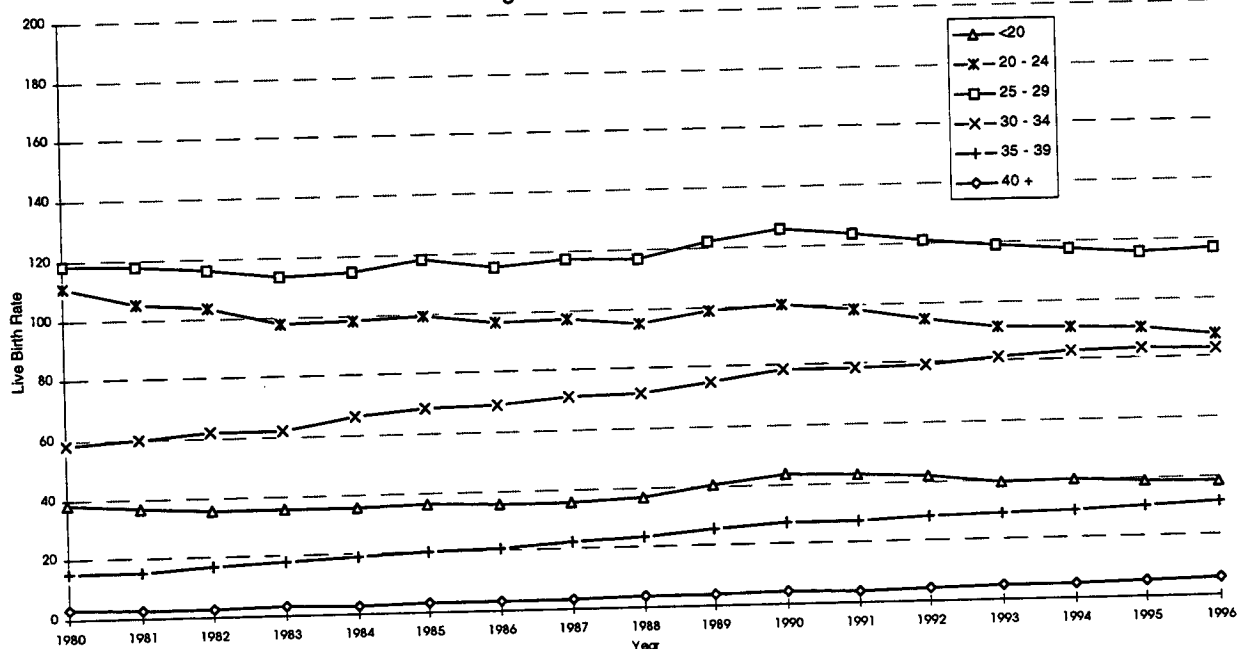
Figure 1.6
Age-Specific Live Birth Rates
Michigan Residents, 1970-1996



Note: Age-specific birth rate is the number of resident live births to women of a specific age group per 1,000 female population of that specific age group. Rate for ages under 20 is based on live births to women under 20 and population of females 15-19. Rate for ages 40 or over is based on live births to women 40 and over and population of females 40-44.

Source: 1970-1996 Michigan Resident Birth Files, Division for Vital Records and Health Statistics, MDCH

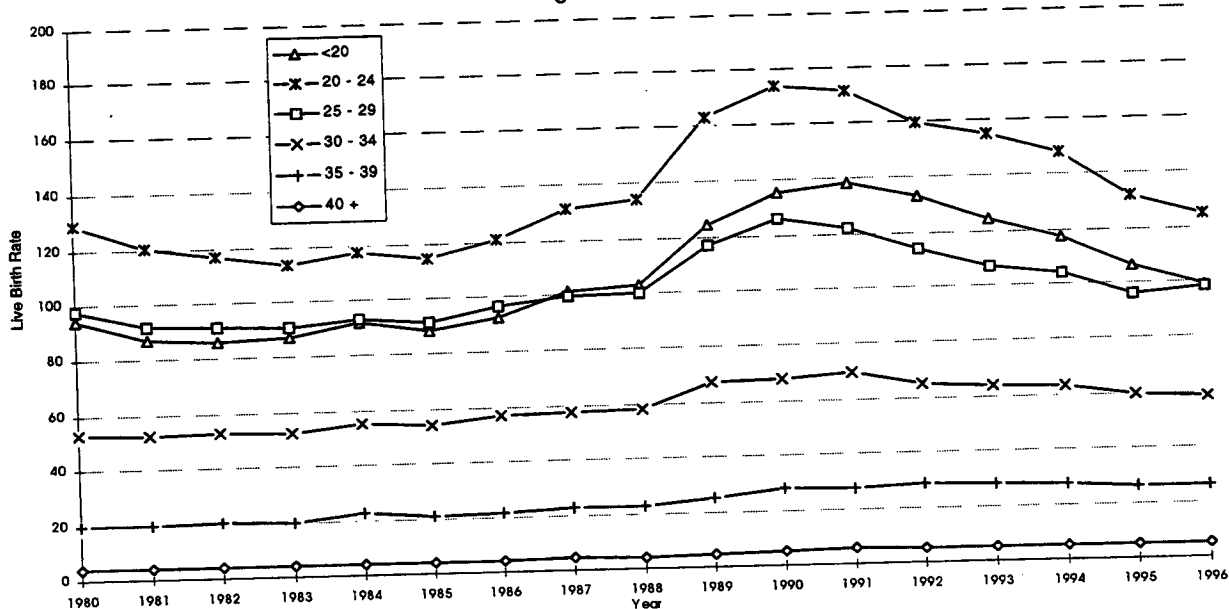
Figure 1.7
Age-Specific Live Birth Rates to White Mothers
Michigan Residents, 1980-1996



Note: Age-specific birth rate is the number of resident live births to women of a specific age group per 1,000 female population of that specific age group. Rate for ages under 20 is based on live births to women under 20 and population of females 15-19. Rate for ages 40 or over is based on live births to women 40 and over and population of females 40-44.

Source: 1980-1996 Michigan Resident Birth Files, Division for Vital Records and Health Statistics, MDCH

Figure 1.8
Age-Specific Live Birth Rates to Black Mothers
Michigan Residents, 1980-1996

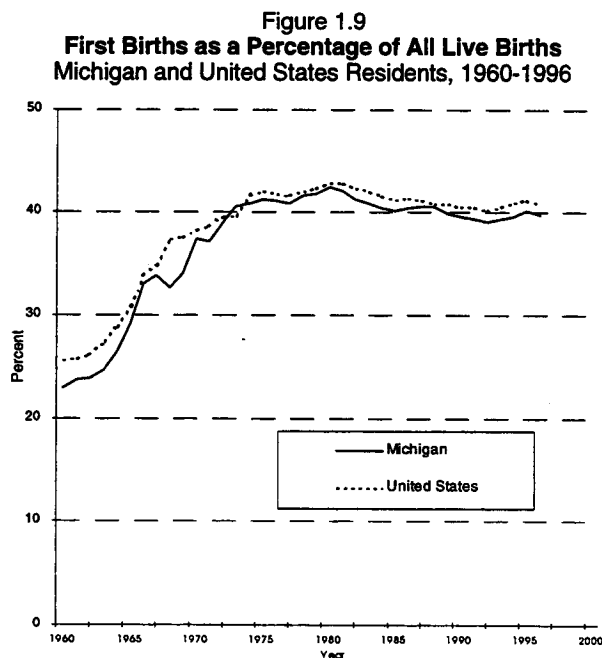


Note: Age-specific birth rate is the number of resident live births to women of a specific age group per 1,000 female population of that specific age group. Rate for ages under 20 is based on live births to women under 20 and population of females 15-19. Rate for ages 40 or over is based on live births to women 40 and over and population of females 40-44.

Source: 1980-1996 Michigan Resident Birth Files, Division for Vital Records and Health Statistics, MDCH

BIRTH ORDER

About 60 percent of the births in 1996 were to women who had given birth previously; 39.7 percent of the births were to first time mothers. The percent of live births which were first-order births is displayed in Figure 1.9 for Michigan and the United States for the period 1960 to 1996. 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 39.7 in 1996. Percentages for the United States followed a similar pattern.



Source: 1960-1996 Michigan Resident Birth Files, Division for Vital Records and Health Statistics, MDCH
Monthly Vital Statistics Report, National Center for Health Statistics

INTERPREGNANCY TIME PERIOD

In 1996, women having live births whose most recent prior termination was a miscarriage, fetal death or induced abortion had a median time span of 1 year and 10 months between their previous termination and current 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 percent of all women reporting their most recent prior pregnancy was a fetal death, but less than two 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 by Time Span
Between Last and Current Termination and
by Whether Prior Termination Resulted
in a Live Birth or Other Termination
Michigan Residents, 1996

Time Span In Years	Total		Prior Live Birth		Other Termination	
	Number	%	Number	%	Number	%
Total	85,376	100.0	65,127	100.0	20,249	100.0
<1	3,746	4.4	1,046	1.6	2,700	13.3
1 - 2	25,506	29.9	17,135	26.3	8,371	41.3
2 - 3	20,354	23.8	17,312	26.6	3,042	15.0
3 - 5	19,512	22.9	16,782	25.8	2,730	13.5
5+	16,258	19.0	12,852	19.7	3,406	16.8
Median Time span	2yrs., 7 mos		2 yrs., 9 mos		1 yrs., 10 mos	

Note: Terminations with time spans of zero years (*i.e.*, second or later births in plural deliveries) and terminations with unknown time spans are excluded. Other prior terminations include miscarriages, fetal deaths or induced abortions. 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: 1996 Michigan Resident Birth File, Division for Vital Records and Health Statistics, MDCH

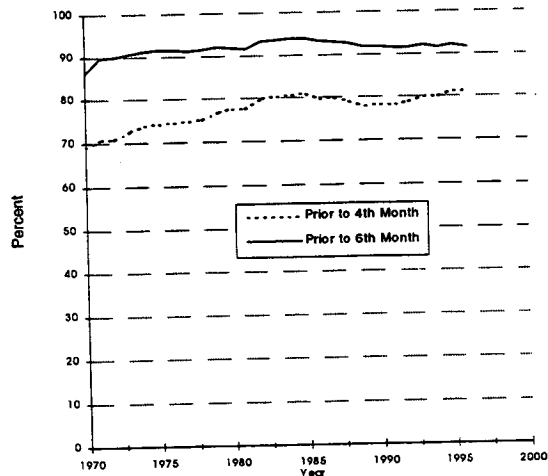
PRENATAL CARE

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 percent and 1985 when it rose to 81 percent (Figure 1.10). Between 1986 and 1996 it fluctuated between 78.0 percent and 81.3 percent.

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 1996, 84.9 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, 78.5 and 84.1 percent respectively. Lower percentages of black and American Indian mothers and mothers of Hispanic ancestry initiated care early, 65.8 to 70.4 percent.

Eighty-one or more percent of live births to women aged 25 or over were to women who sought care promptly. The proportion fell to 40.0 percent for women under 15 years. About two in three (65.1 percent) infants born to mothers 15-19 years of age were to mothers who received care early.

Figure 1.10
Percent of Women Having Live Births Who Received Care Prior to the 4th Month and 6th Month of Pregnancy Michigan Residents, 1970-1996



Source: 1970-1996 Michigan Resident Birth Files, Division for Vital Records and 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 of Live Births with Prenatal Care Beginning in the First Trimester by Age, Race and Ancestry of Mother Michigan Residents, 1996

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	132	40.0	56	45.9	71	35.3	3	*	1	*	-	-	2	*	10	41.7
15 - 19	10,349	65.1	7,159	70.4	2,978	55.4	92	55.8	73	59.8	6	54.5	155	75.2	618	60.1
20 - 24	23,911	76.6	18,250	80.4	5,074	66.0	200	71.4	267	67.4	21	70.0	575	83.0	1,008	67.2
25 - 29	33,639	85.6	28,598	88.2	3,988	72.2	142	74.3	703	82.7	6	50.0	728	85.3	967	74.6
30 - 34	27,447	87.2	24,043	89.4	2,453	72.0	88	80.0	634	82.9	5	*	567	87.1	636	77.6
35 - 39	10,819	85.0	9,416	87.7	1,074	68.2	34	79.1	201	80.4	2	*	253	83.8	242	78.6
40+	1,832	81.2	1,565	84.0	204	67.3	6	66.7	37	66.1	-	-	61	79.2	44	77.2
Not stated	17	63.0	13	68.4	4	*	-	-	-	-	-	-	-	-	-	-
Total	108,146	81.2	89,100	84.9	15,846	65.8	565	70.4	1,916	78.5	40	62.5	2,341	84.1	3,525	70.0

Note: Percents are calculated by using the numbers in Table 1.2 as the denominator. Records with race not stated are included only in the "All Races" column. Asterisk (*) indicates that data do not meet standards of reliability or precision.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Birth File, Division for Vital Records and Health Statistics, MDCH

No Prenatal Care In 1996, 1,284 resident live births, or 9.6 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 (26.1 per 1,000 live births).

Table 1.7
Live Births and Birth Ratios with No Prenatal Care by Age and Race of Mother
Michigan Residents, 1996

Age of Mother in Years	Race							
	All Races		White		Black		All Other Races	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
<15	12	36.4	6	49.2	6	29.9	-	-
15 - 19	318	20.0	146	14.4	164	30.5	7	23.5
20 - 24	361	11.6	183	8.1	175	22.8	3	*
25 - 29	249	6.3	124	3.8	121	21.9	3	*
30 - 34	200	6.4	107	4.0	90	26.4	2	8
35 - 39	114	9.0	55	5.1	58	36.8	1	*
40+	30	13.3	16	8.6	14	46.2	-	-
<i>Total</i>	1,284	9.6	637	6.1	628	26.1	16	20.0
Median age at Last birthday	24		24		23		21	

Note: Records with race not stated are included in the "All Races" column only. Ratios are per 1,000 live births to mothers in the specific age and race group (Table 1.2). Asterisk (*) indicates that data do not meet standards of reliability or precision.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Birth File, Division for Vital Records and Health Statistics, MDCH

Adequacy of Care A measure of the quality of care developed by Dr. D. W. Kessner 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 75.5 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 (79.8 and 79.3 percent) were higher than the corresponding proportions for black and American Indian mothers (57.6 and 64.6 percent) and mothers of Hispanic ancestry (62.9 percent).

Inadequate care was received by the mothers of 8.9 percent of all live births. The proportions of live births to mothers who received inadequate care were

6.3 percent for white mothers, 9.7 to 12.0 percent for Asian and Pacific Islander mothers, American Indian mothers and mothers of Arab and Hispanic ancestry and 19.5 percent for black mothers.

Although the mothers of 81.2 percent of all live births received prenatal care during the first trimester, only 75.5 percent received adequate care as defined by the *Kessner Index*. Overall, this means that of the mothers who initiated prenatal care most promptly, 7.0 percent (7,580 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 (31,952

women), 23.7 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, 1996

Level of Prenatal Care (Kessner Index)	Race												Ancestry			
	All Races		White		Black		Amer. Indian		Asian & P.I.		All Other Races		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Adequate	100,566	75.5	83,771	79.8	13,877	57.6	518	64.6	1,769	72.5	34	53.1	2,208	79.3	3,166	62.9
Intermediate	20,160	15.1	14,210	13.5	5,204	21.6	201	25.1	387	15.9	20	31.3	284	10.2	1,226	24.3
Inadequate	11,792	8.9	6,562	6.3	4,692	19.5	78	9.7	271	11.1	9	14.1	281	10.1	606	12.0
Unknown	713	0.5	379	0.4	300	1.2	5	*	14	0.6	1	*	11	0.4	37	0.7
Total	133,231	100.0	104,922	100.0	24,073	100.0	802	100.0	2,441	100.0	64	100.0	2,784	100.0	5,035	100.0

Note: 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.) Records with race not stated are included only in the "All Races" column. Asterisk (*) indicates that data do not meet standards of reliability or precision.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Birth File, Division for Vital Records and Health Statistics, MDCH

BIRTHWEIGHT

The mean weight for all live births was 3,336 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, and 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 170 and 237 grams lower than the medians for infants born to white and American Indian

mothers and 85 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 ranged from 0.4 to 0.5 percent of the births below 750 grams. Infants born with this extremely low birthweight have very high mortality rates (approximately 65 percent mortality).

Table 1.9
Numbers and Percents of Live Births by Birthweight, Race and Ancestry of Mother
Michigan Residents, 1996

Weight at Birth in Grams	Race												Ancestry			
	All Races		White		Black		Amer. Indian		Asian & P.I.		All Other Races		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
<750	703	0.5	381	0.4	296	1.2	4	*	11	0.5	-	-	11	0.4	21	0.4
750 - 1,499	1,332	1.0	839	0.8	465	1.9	8	1.0	12	0.5	-	-	18	0.6	40	0.8
1,500 - 2,499	8,193	6.1	5,453	5.2	2,519	10.5	31	3.9	126	5.2	5	*	150	5.4	246	4.9
2,500+	122,671	92.1	98,045	93.4	20,695	86.0	758	94.5	2,285	93.6	58	90.6	2,601	93.4	4,711	93.6
Not stated	332	0.2	204	0.2	98	0.4	1	*	7	0.3	1	*	4	*	17	0.3
Total	133,231	100.0	104,922	100.0	24,073	100.0	802	100.0	2,441	100.0	64	100.0	2,784	100.0	5,035	100.0
Mean weight	3,336		3,393		3,094		3,416		3,238		3,253		3,319		3,340	
Median weight	3,374		3,430		3,175		3,497		3,260		3,175		3,345		3,374	

Note: Records with race not stated are included only in the "All Races" column. In order to conform to national standards, the definition of low birthweight was changed in 1984 to less than 2,500 grams. Asterisk (*) indicates that data do not meet standards of reliability or precision.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

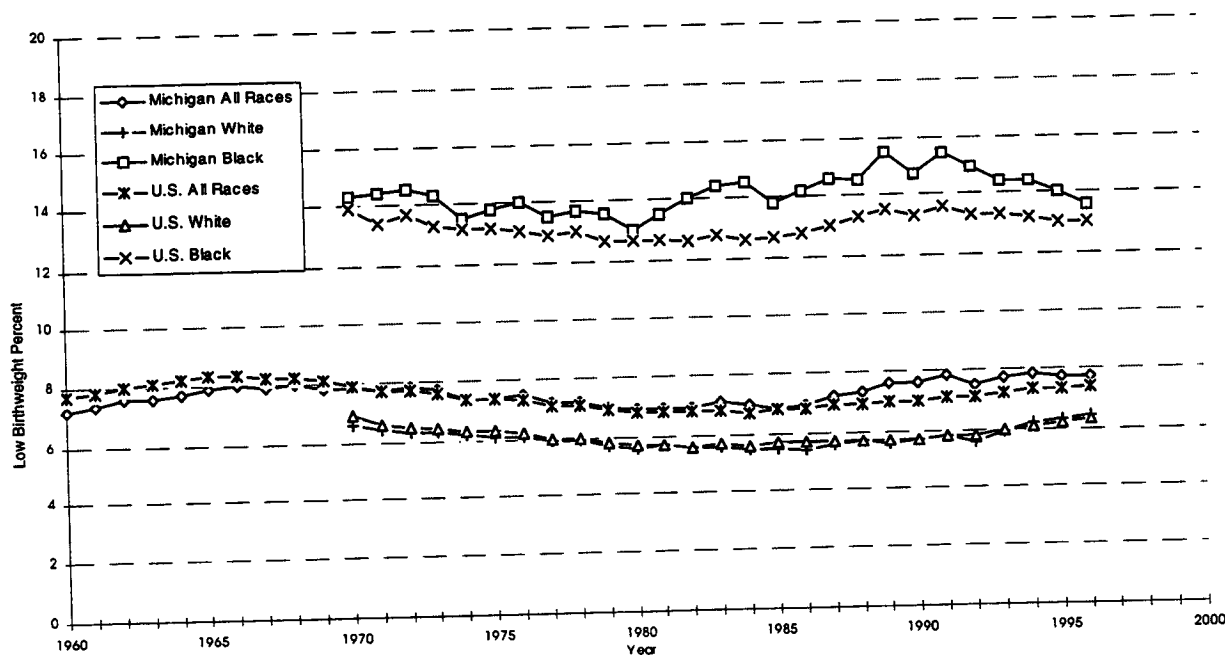
Source: 1996 Michigan Resident Birth File, Division for Vital Records and Health Statistics, MDCH

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 1968 the percentage increased, reaching a high for the 36 year period in both 1966 and 1968 (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 1996. The pattern for the United States was similar. By 1996 the low birthweight percentage for the nation had increased to 7.4 percent.

Figure 1.11 displays the percent of low birthweight infants born to Michigan and the United States

Figure 1.11
Percent of Low Birthweight Live Births by Race
 Michigan and United States Residents, 1960-1996



Note: Low birthweight data are not available by race prior to 1970. Percent low birthweight for 1960-1969 are for births of 2500 grams or less and for 1970-1996 are for less than 2500 grams.

Source: 1960-1996 Michigan Resident Birth Files, Division for Vital Records and Health Statistics, MDCH
 Monthly Vital Statistics Report, National Center for Health Statistics

The low birthweight percentage for infants of black mothers was 13.6 percent compared with 5.4 to 6.4 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 1.2 and 5.8 times higher for infants born to mothers with inadequate care than to mothers with adequate prenatal care.

At birth, 13.6 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 (11.9) 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 2.0 to 3.6 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 of Low Birthweight Live Births
by Level of Prenatal Care, Race and Ancestry of Mother
Michigan Residents, 1996

Level of Prenatal Care (Kessner Index)	Race												Ancestry			
	All Races		White		Black		Amer. Indian		Asian & P.I.		All Other Races		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Adequate	6,649	6.6	4,835	5.8	1,645	11.9	17	3.3	106	6.0	2	*	135	6.1	165	5.2
Intermediate	1,836	9.1	1,075	7.6	720	13.8	11	5.5	22	5.7	-	-	17	6.0	87	7.1
Inadequate	1,646	14.0	716	10.9	867	18.5	15	19.2	20	7.4	3	*	27	9.6	50	8.3
<i>Total</i>	10,228	7.7	6,673	6.4	3,280	13.6	43	5.4	149	6.1	5	*	179	6.4	307	6.1

Note: Records with unknown level of care are included only in the "Total" row. Percents are calculated by using the numbers in Table 1.8 as the denominator. 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). Records with race not stated are included only in the "All Races" column. Asterisk (*) indicates that data do not meet standards of reliability or precision.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Birth File, Division for Vital Records and Health Statistics, MDCH

CONGENITAL ANOMALIES

One or more congenital anomalies were reported on the birth certificate for 1,001 of the 133,231 resident live births in 1996 (Table 1.11). This translates to a rate of 75.1 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 Division for Vital Records and Health Statistics.

The congenital anomaly rate of 65.2 per 10,000 live births to black mothers was 16 percent lower than the rate of 77.6 for live births to white mothers and 17 percent lower than the rate of 78.6 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 generally were higher for mothers over 35 years of age.

Table 1.11
Live Births with Congenital Anomalies Reported and Congenital Anomaly Rates
by Age and Race of Mother
Michigan Residents, 1996

Age of Mother in Years	Race							
	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
<15	3	*	2	*	1	*	-	-
15 - 19	113	71.1	76	74.8	36	67.0	1	*
20 - 24	231	74.0	177	78.0	46	59.9	8	113.3
25 - 29	292	74.3	255	78.7	29	52.5	7	66.5
30 - 34	231	73.4	195	72.5	26	76.3	7	79.3
35 - 39	104	81.7	84	78.2	18	114.4	2	*
40+	27	119.7	25	134.1	1	*	1	*
Total	1,001	75.1	814	77.6	157	65.2	26	78.6
Median age at last birthday	27		27		24		27	

Note: Records with race not stated are included in the "All Races" column only. Rates are number of live births with congenital anomalies reported per 10,000 live births (Table 1.2). Asterisk (*) indicates that data do not meet standards of reliability or precision.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Birth File, Division for Vital Records and Health Statistics, MDCH

MEDICAL FACTORS ASSOCIATED WITH DELIVERY AND/OR LABOR

Complications of Pregnancy There were 34,432 deliveries (25.8 percent) reported with one or more complications of labor and/or delivery in 1996 (Table 1.12). Among the most commonly reported complications were moderate/heavy meconium (7,114 cases), fetal distress (5,863 cases), breech/malpresentation of fetus (5,848 cases), premature rupture of membranes (5,745 cases) and dysfunctional labor (5,005 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, 1996**

Complications of Labor/Delivery	Race												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	7,114	5.3	4,839	4.6	2,062	8.6	22	2.7	132	5.4	2	*	140	5.0	308	6.1
Fetal distress	5,863	4.4	4,619	4.4	1,042	4.3	28	3.5	101	4.1	1	*	138	5.0	193	3.8
Breech/malpresentation	5,848	4.4	4,873	4.6	783	3.3	28	3.5	100	4.1	2	*	108	3.9	210	4.2
Premature rupture of membranes (>12 hours)	5,745	4.3	4,566	4.4	913	3.8	31	3.9	151	6.2	5	*	92	3.3	201	4.0
Dysfunctional labor	5,005	3.8	4,193	4.0	608	2.5	29	3.6	98	4.0	1	*	83	3.0	193	3.8
Precipitate labor (<3 hours)	3,532	2.7	2,920	2.8	473	2.0	18	2.2	69	2.8	-	-	99	3.6	121	2.4
Cephalopelvic disproportion	2,730	2.0	2,386	2.3	246	1.0	19	2.4	57	2.3	1	*	33	1.2	122	2.4
Prolonged labor	1,142	0.9	948	0.9	148	0.6	12	1.5	28	1.1	-	-	19	0.7	41	0.8
At least one complication	34,432	25.8	27,372	26.1	5,775	24.0	198	24.7	705	28.9	10	15.6	637	22.9	1,295	25.7
<i>Total live births</i>	133,231	100.0	104,922	100.0	24,073	100.0	802	100.0	2,441	100.0	64	100.0	2,784	100.0	5,035	100.0

Note: Records with race not stated are included only in the "All Races" column. Asterisk (*) indicates that data do not meet standards of reliability or precision.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Birth File, Division for Vital Records and Health Statistics, MDCH

Maternal Risk Factors Women who smoked while pregnant accounted for 17.3 percent (23,047) of the live births in 1996 (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 (36.5 percent), was lower and relatively similar for white and black mothers (18.1 and 15.1 percent, respectively). Fewer mothers of Hispanic ancestry reported smoking during pregnancy (9.9 percent) than white or black mothers. Asian and Pacific Islander mothers and mothers of Arab ancestry had the lowest percentages of reported smoking during their pregnancy (3.3 and 4.6 percent respectively).

Only 2,009 (1.5 percent) of the 1996 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 birth certificates, under report the frequency of this risk factor.

A weight gain during pregnancy of less than sixteen pounds was reported for mothers of 10.3 percent (13,705) of the live births. The percentage for Hispanic mothers (14.2) 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, 1996

Maternal Risk Factors	Race												Ancestry			
	All Races		White		Black		Amer. Indian		Asian & Pl.		All Other Races		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Smoked tobacco while pregnant	23,047	17.3	18,989	18.1	3,623	15.1	293	36.5	80	3.3	4	*	128	4.6	498	9.9
Drank alcohol while pregnant	2,009	1.5	1,398	1.3	576	2.4	20	2.5	9	0.4	-	-	10	0.4	50	1.0
Weight gain less than 16 pounds while pregnant	13,705	10.3	9,952	9.5	3,315	13.8	97	12.1	203	8.3	12	18.8	213	7.7	717	14.2
<i>Total live births</i>	133,231	100.0	104,922	100.0	24,073	100.0	802	100.0	2,441	100.0	64	100.0	2,784	100.0	5,035	100.0

Note: Records with race not stated are included only in the "All Races" column. Asterisk (*) indicates that data do not meet standards of reliability or precision.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Birth File, Division for Vital Records and Health Statistics, MDCH

Medical Risk Factors For 18.0 percent (23,930) of the 133,231 resident live births occurring in 1996, 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 3.8 percent (5,123) of the live births. The next most common maternal medical risk factors were diabetes and hydramnios/ogligohydramnios which occurred in mothers of 2.7 percent (3,549) and 1.6 percent (2,190) of the live births. Drug use was reported on less than 1 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; pregnancy-associated hypertension and drug use 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 highest 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, 1996

Risk Factors	Race											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	5,123	3.8	4,283	4.1	722	3.0	34	4.2	31	1.3	1	*	38	1.4	150	3.0
Diabetes	3,549	2.7	2,932	2.8	446	1.9	40	5.0	91	3.7	-	-	60	2.2	161	3.2
Hydramnios/ogligohydramnios	2,190	1.6	1,525	1.5	590	2.5	10	1.2	48	2.0	-	-	43	1.5	92	1.8
Anemia (Hct.30/Hgb.10)	2,011	1.5	1,408	1.3	527	2.2	7	0.9	30	1.2	-	-	52	1.9	118	2.3
Previous infant 4000+ grams	1,921	1.4	1,824	1.7	64	0.3	9	1.1	10	0.4	-	-	31	1.1	69	1.4
Previous preterm or small-for-gestational age infant	1,675	1.3	1,468	1.4	152	0.6	18	2.2	24	1.0	-	-	29	1.0	48	1.0
Uterine bleeding	1,512	1.1	1,276	1.2	181	0.8	5	*	18	0.7	1	*	35	1.3	42	0.8
Lung disease	1,425	1.1	1,018	1.0	378	1.6	6	0.7	14	0.6	-	-	13	0.5	32	0.6
Herpes	1,368	1.0	1,024	1.0	322	1.3	3	*	12	0.5	-	-	13	0.5	38	0.8
Drug use	1,138	0.9	504	0.5	623	2.6	3	*	4	*	1	*	6	0.2	32	0.6
RH Sensitive	1,120	0.8	994	0.9	110	0.5	2	*	6	0.2	-	-	15	0.5	20	0.4
Hypertension, chronic	1,031	0.8	786	0.7	222	0.9	8	1.0	10	0.4	-	-	5	*	21	0.4
At least one medical risk	23,930	18.0	19,072	18.2	4,173	17.3	150	18.7	312	12.8	5	*	329	11.8	819	16.3
<i>Total live births</i>	133,231	100.0	104,922	100.0	24,073	100.0	802	100.0	2,441	100.0	64	100.0	2,784	100.0	5,035	100.0

Note: Records with race not stated are included only in the "All Races" column. Births with at least one medical risk does not equal the sum of all the risk factors specified because mothers may have multiple risk factors. Asterisk (*) indicates that data do not meet standards of reliability or precision.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Birth File, Division for Vital Records and Health Statistics, MDCH

Method of Delivery Vaginal delivery was the most common method of delivery in 1996, accounting for 79.3 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 1996 about 2.7 percent of Michigan 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, 13.6 percent of the deliveries were by

primary C-section and 9.1 percent were repeat C-section. By 1996, primary C-sections were performed in 12.6 percent of the live births and repeat C-sections were performed in 7.4 percent of the live births for a total of 20.0 percent of all deliveries performed by C-section.

Mothers of Arab and Hispanic ancestry had lower proportions of live births delivered by primary C-section. These groups have achieved the national goal for primary C-sections. White, black, 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, 1996

Procedures During and Method of Delivery	Race												Ancestry				
	All Races		White		Black		Amer. Indian		Asian & Pl.		All Other Races		Arab		Hispanic		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Procedures																	
Vacuum	5,792	4.3	5,008	4.8	556	2.3	27	3.4	161	6.6	2	*	85	3.1	196	3.9	
Forceps	2,971	2.2	2,510	2.4	345	1.4	6	0.7	63	2.6	1	*	65	2.3	91	1.8	
Method																	
Vaginal birth	105,687	79.3	82,857	79.0	19,424	80.7	643	80.2	1,993	81.6	56	87.5	2,317	83.2	4,050	80.4	
Vaginal birth after previous C-section	3,654	2.7	2,996	2.9	572	2.4	17	2.1	53	2.2	1	*	59	2.1	142	2.8	
Primary C-section	16,850	12.6	13,293	12.7	2,998	12.5	99	12.3	321	13.2	5	*	296	10.6	583	11.6	
Repeat C-section	9,842	7.4	8,080	7.7	1,526	6.3	54	6.7	125	5.1	3	*	139	5.0	375	7.4	
Unknown method	852	0.6	692	0.7	125	0.5	6	0.7	2	*	-	-	32	1.1	27	0.5	
Total live births	133,231	100.0	104,922	100.0	24,073	100.0	802	100.0	2,441	100.0	64	100.0	2,784	100.0	5,035	100.0	

Note: Records with race not stated are included only in the "All Races" column. Vaginal birth method includes "Vaginal birth after previous C-section". Asterisk (*) indicates that data do not meet standards of reliability or precision.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Birth File, Division for Vital Records and Health Statistics, MDCH

Abnormal Conditions at Birth In 1996, 13,895 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 generally 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, 1996

Abnormal Conditions	Race												Ancestry			
	All Races		White		Black		Amer. Indian		Asian & Pl.		All Other Races		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Assisted ventilation <30 minutes	2,671	2.0	2,081	2.0	524	2.2	14	1.7	41	1.7	1	*	50	1.8	85	1.7
5 minute Apgar <7	1,660	1.2	1,083	1.0	512	2.1	15	1.9	24	1.0	1	*	25	0.9	54	1.1
Hyaline membrane disease /RDS	1,243	0.9	906	0.9	307	1.3	5	*	18	0.7	-	-	18	0.6	39	0.8
Assisted ventilation >30 minutes	1,033	0.8	791	0.8	209	0.9	7	0.9	18	0.7	-	-	21	0.8	26	0.5
Birth injury	534	0.4	459	0.4	63	0.3	-	-	11	0.5	-	-	13	0.5	15	0.3
At least one condition	13,895	10.4	10,820	10.3	2,729	11.3	69	8.6	191	7.8	4	*	226	8.1	533	10.6
Total live births	133,231		104,922		24,073		802		2,441		64		2,784		5,035	

Note: Records with race not stated are included only in the "All Races" column. Asterisk (*) indicates that data do not meet standards of reliability or precision.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Birth File, Division for Vital Records and Health Statistics, MDCH

Table 1.17
Live Births by Plurality Michigan Residents, 1980 - 1996

Year	Live Births	Sets of Twins	Sets of Triplets	Sets of 4 or More
1980	145,162	1,495	23	1
1981	140,579	1,426	25	1
1982	137,950	1,377	16	-
1983	133,026	1,415	14	-
1984	135,782	1,413	19	-
1985	138,052	1,506	21	1
1986	137,626	1,555	27	1
1987	140,466	1,549	27	2
1988	139,635	1,584	30	2
1989	148,164	1,858	42	8
1990	153,080	1,897	41	1
1991	149,478	1,933	38	1
1992	143,827	1,842	43	2
1993	139,560	1,748	60	2
1994	137,844	1,901	69	6
1995	134,169	1,795	62	1
1996	133,231	1,809	77	12

Multiple Births Of the 133,231 Michigan resident births in 1996, there were 1,809 sets of twins, 77 sets of triplets and 12 sets of multiple births of 4 or more born. This compares to 1,495 sets of twins, 23 sets of triplets and 1 set of multiple births of 4 or more born in 1980 from a total of 145,162 births (Table 1.17).

Source: Michigan Resident Birth Files, Division for Vital Records and 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 1996 1,586 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 1.2 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 1.18 shows that births in the four border states comprise 93.2 percent of all resident live births that occurred out of state. Live births to Michigan residents occurred in 34 of the 50 states in 1996.

Non-resident Births The number of nonresident live births that occurred in Michigan in 1996 was 406. 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 76.6 percent of these events, as shown in Table 1.18. There were live births in Michigan to residents of 31 states, and at least 9 foreign countries.

Table 1.18
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, 1996

Geographic Area	Live Births to Residents Occurring Outside Michigan		Live Births to Non-Residents Occurring in Michigan	
	Number	Percent	Number	Percent
<i>Total</i>	1,586	100.0	406	100.0
Ohio	704	44.4	50	12.3
Indiana	513	32.3	56	13.8
Wisconsin	237	14.9	162	39.9
Illinois	26	1.6	16	3.9
Florida	13	0.8	12	3.0
New York	9	0.6	3	*
Texas	9	0.6	14	3.4
Pennsylvania	7	0.4	2	*
Louisiana	6	0.4	-	-
Missouri	6	0.4	3	*
New Jersey	6	0.4	1	*
Tennessee	6	0.4	7	1.7
Colorado	4	*	4	*
Maine	4	*	-	-
South Carolina	4	*	3	*
Georgia	3	*	3	*
Kentucky	3	*	7	1.7
Massachusetts	3	*	-	-
North Carolina	3	*	3	*
Oklahoma	3	*	-	-
Virginia	3	*	2	*
<i>Other states</i>	14	0.9	18	4.4
Canada	-	-	27	6.7
<i>Other countries</i>	-	-	9	2.2
Unknown	-	-	4	*

Note: Asterisk (*) indicates that data do not meet standards of reliability or precision.

Source: 1996 Michigan Resident Birth Files, Division for Vital Records and Health Statistics, MDCH

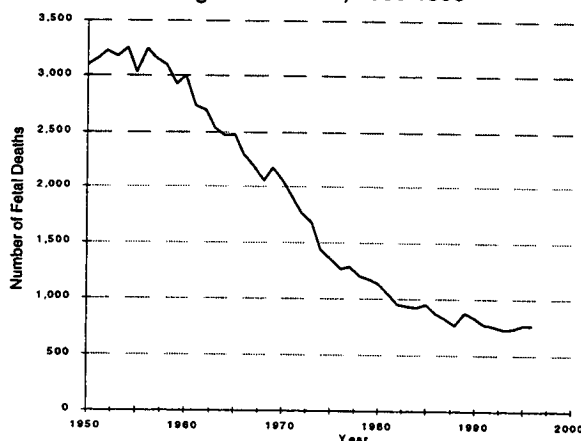
FETAL DEATHS

The requirements for reporting of fetal death information has varied over time in Michigan. Reports of fetal deaths prior to 1927 were received in conjunction with the reporting of live births. The statutes required reporting of all births with no distinctions made as to whether the child was live born or stillborn. There were also no specific definitions when a child should be considered stillborn nor when a stillborn should be reported. In 1927, legislation was enacted to require reporting of all stillborns defined as follows: "A stillbirth shall mean a child in which there is no movement of voluntary muscles or effort to breathe after birth. Both a birth and death certificate and a burial or removal permit shall be required for each stillborn child which has advanced to the fifth month of uterogestation." This definition and reporting procedure remained in effect until 1952 when a separate certificate of stillbirth was initiated by Act 66 of 1952. The definition for when to report, while similar, was changed to read as follows: "Death prior to the complete extraction from its mother of a

product of conception, having passed through at least the 20 week of gestation; the fetus shows no signs of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles." This procedure has remained in effect to this day, though the definition of a fetal death was changed again in 1989 to the following: "Fetal death means the death of a fetus which has completed at least 20 weeks of gestation or weighs at least 400 grams."

The number of fetal deaths in Michigan has declined from 3,095 in 1950 to 759 in 1996 (Figure 1.12). The fetal death ratio has also declined, from 19.3 per 1,000 live births in 1950 to 5.7 in 1996. The fetal death ratio for Michigan has been lower than the national fetal death ratio since 1950 (Figure 1.13). In 1995, the Michigan ratio of 5.7 was 19 percent lower than the national rate of 7.0 (Table 1.19). It should be noted that the definition of a fetal death used in Michigan differs slightly from that used in most states.

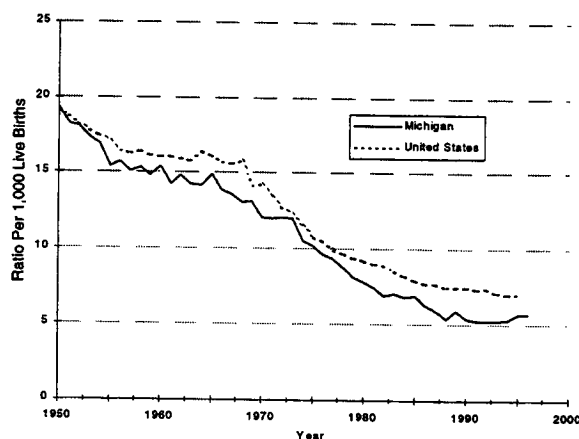
Figure 1.12
Fetal Deaths
Michigan Residents, 1950-1996



Note: A fetal death is death prior to the complete expulsion or extraction from its mother, having passed through at least the 20th week of gestation or weighing 400 grams. Fetal death does not include induced terminations.

Source: 1950-1996 Michigan Resident Fetal Death File, Division for Vital Records and Health Statistics, MDCH

Figure 1.13
Fetal Death Ratios
Michigan Residents, 1950-1996 and
United States Residents, 1950-1995



Note: A fetal death is death prior to the complete expulsion or extraction from its mother, having passed through at least the 20th week of gestation or weighing 400 grams. Fetal death does not include induced terminations. United States ratios prior to 1933 are for registration areas only. United States

Table 1.19
Fetal Deaths and Fetal Death Ratios
 Michigan and United States Residents
 Selected Years, 1900-1996

United States		Year	Michigan	
Fetal Deaths	Fetal Death Ratio		Fetal Deaths	Fetal Death Ratio
---	---	1900	1,325	30.3
---	---	1910	2,559	39.9
70,010	39.4	1920	3,770	40.9
86,466	39.2	1930	3,714	37.6
73,802	31.3	1940	2,602	26.3
68,262	19.2	1950	3,095	19.3
68,480	16.1	1960	3,008	15.4
52,961	14.2	1970	2,060	12.0
33,353	9.2	1980	1,135	7.8
31,386	7.5	1990	830	5.4
30,160	7.3	1991	775	5.2
30,256	7.4	1992	755	5.2
28,766	7.1	1993	726	5.2
27,937	7.0	1994	731	5.3
27,294	7.0	1995	767	5.7
---	---	1996	759	5.7

Note: A fetal death is death prior to the complete expulsion or extraction from its mother, having passed through at least the 20th week of gestation or weighing 400 grams. Fetal death does not include induced terminations. United States data for 1922 is used for 1920.

Source: 1900-1996 Michigan Resident Fetal Death Files, Division for Vital Records and Health Statistics, MDCH
Monthly Vital Statistics Report, National Center for Health Statistics

CAUSES OF FETAL DEATH

A classification of fetal deaths by underlying cause of death is contained in Table 1.20. In 1996, 306 of the total 759 deaths were assigned to the category of "other and ill-defined conditions originating in the perinatal period". Nearly half (48.1 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 71 fetal deaths. This includes such complications as premature rupture of membranes, multiple pregnancy, and incompetent cervix.

Table 1.20
Fetal Deaths and Fetal Death Ratios by Underlying Cause of Death
 Michigan Residents, 1996

Cause of Death (ICD-9 codes)	Frequency	Ratio
Other and ill-defined conditions originating in the perinatal period (779)	306	229.7
Fetus or newborn affected by complications of placenta, cord and membranes (762)	182	136.6
Fetus or newborn affected by maternal complications of pregnancy (761)	71	53.3
Fetus or newborn affected by maternal conditions which may be unrelated to present pregnancy (760)	39	29.3
All congenital anomalies combined (740-759)	86	64.5
All other causes	75	56.3
Total	759	569.7

Note: A fetal death is death prior to the complete expulsion or extraction from its mother, having passed through at least the 20th week of gestation or weighing 400 grams. Fetal death does not include induced terminations. ICD refers to codes defined in Ninth Revision of the *International Classification of Diseases, WHO*. Ratios are the number of resident fetal deaths per 100,000 resident live births.

Source: 1996 Michigan Resident Fetal Death File, Division for Vital Records and Health Statistics, MDCH

MORTALITY

SECTION II



MORTALITY

OVERVIEW

In 1996 there were 83,496 deaths recorded for Michigan residents, 91 more than in the previous year. The crude death rate per 1,000 population was 8.7, for the fourth consecutive year (Table 2.1). The age-adjusted death rate decreased in 1996, being 1 percent lower than the age-adjusted rate for 1995. 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 1,072 infant deaths in 1996, 38 fewer than in 1995. The 1996 infant death rate of 8.0 was almost 4 percent lower than the 1995 rate of 8.3, while the neonatal death rate dropped from 5.4 to 5.3 in 1996 (2 percent decrease). The infant mortality rate has decreased more in the six years since 1990 than in the 1950s, 1960s and 1980s. Only the decade between 1970 and 1980 had a larger decrease (37 percent) than has been observed during the last six years (25 percent).

The median age at death for Michigan residents in 1996 was 76 years. Females dying in 1996 had a median age at death of 79 years, seven years higher than the median age at death of 72 years for males.

The leading cause of death in 1996 was diseases of the heart, accounting for 27,980 deaths or an average of 76 deaths per day. There were 19,563 deaths due to cancer, the second leading cause of death in 1996, or an average of 54 deaths per day. The other leading causes of death were cerebrovascular diseases (stroke), chronic obstructive pulmonary diseases, accidents, pneumonia and influenza, diabetes mellitus, suicide, kidney disease and chronic liver disease and cirrhosis.

An Overview, 1996

Resident Deaths	83,496
Crude Death Rate (deaths per 1,000 population)	8.7
Infant Deaths	1,072
Infant Death Rate (infant deaths per 1,000 live births)	8.0
Neonatal Deaths	703
Neonatal Death Rate (neonatal deaths per 1,000 live births)	5.3
Perinatal Deaths	1,329
Perinatal Death Rate (perinatal deaths per 1,000 total births)	9.9
Maternal Deaths	5
Maternal Death Rate (maternal deaths per 100,000 live births)	3.8
Median Age at Death	76
Median Age at Death for Males	72
Median Age at Death for Females	79
Deaths from Heart Disease per Day	76
Deaths from Cancer per Day	54
Deaths from Stroke per Day	16
Deaths from C.O.P.D. per Day	10

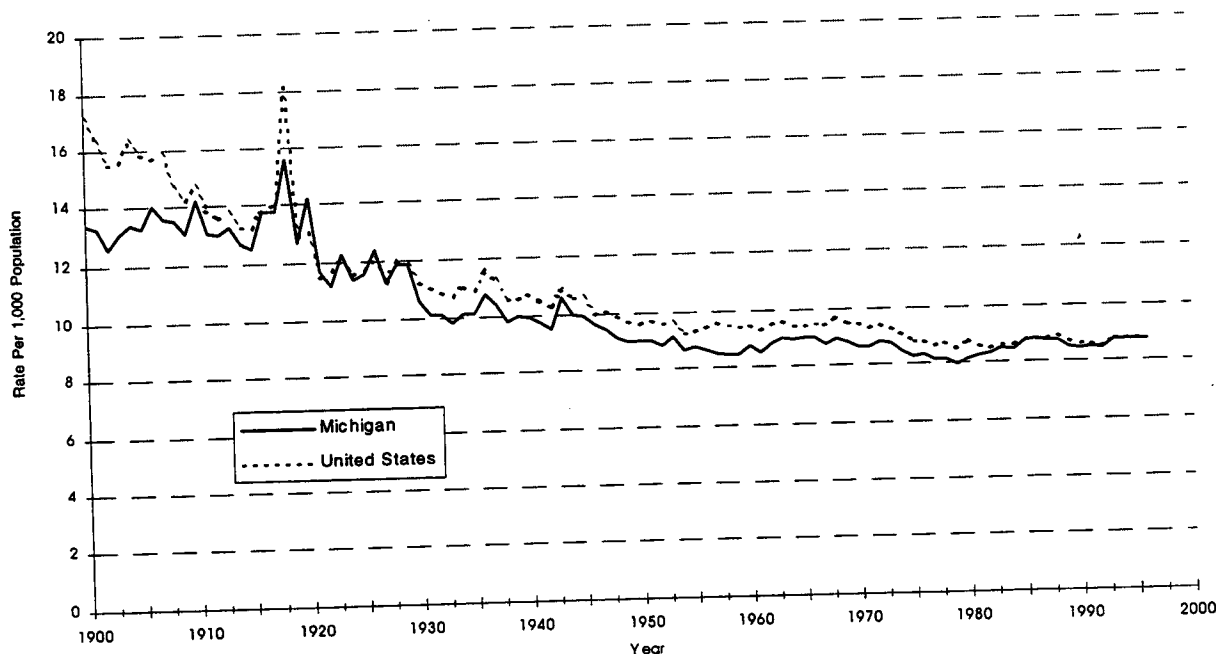
Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

TRENDS IN MICHIGAN

Between 1900 and 1996 the number of deaths occurring to Michigan residents increased from 32,453 to 83,496. 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 1996 was the greatest number of resident deaths ever recorded in Michigan (Table 4.1).

Although the total number of deaths increased between 1900 and 1996, 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 8.7 in 1996. 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
 Michigan and United States Residents, 1900 - 1996



Note: 1995 estimated population is being used to calculate 1996 rate. United States rates for 1971-1979 have been revised using population estimates based on the 1980 Census enumeration. United States data for 1996 is provisional.

Source: 1900-1996 Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH
 Monthly Vital Statistics Reports, National Center for Health Statistics

**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 1970-1996 is presented in Table 2.1 and Figure 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 1996 (from 8.6 per 1,000 population to 8.7), while national rates decreased 8 percent (from 9.5 per 1,000 population to 8.7) in the same time period

Table 2.1
Number of Deaths and Crude Death Rates
Michigan and United States Residents, 1970 - 1996

United States		Year	Michigan	
Number	Rate		Number	Rate
1,921,031	9.5	1970	76,321	8.6
1,989,841	8.8	1980	74,991	8.1
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
2,312,132	8.8	1995	83,405	8.7
2,322,421Pr	8.7Pr	1996	83,496	8.7

Note: Crude death rates are deaths per 1,000 population. 1995 estimated population is used to calculate 1996 rates.

Source: 1970-1996 Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH
Monthly Vital Statistics Reports, National Center for Health Statistics

MORTALITY DIFFERENCES BY SEX AND RACE

Over the period 1970-1996 the age-adjusted death rates for Michigan males and females were usually slightly higher than the national rates (Figure 2.2).

In 1970 the age-adjusted death rate for males was about 75 percent higher than for females in both Michigan and the United States. The difference has decreased to only about 60 percent in 1996.

The national and Michigan age-adjusted death rates displayed in Figure 2.3 were similar for white males until 1988. Since 1989 the rates for Michigan white males have been slightly lower than the national white male rates. In contrast, the Michigan white female rates were slightly higher than the national white female rates during this 26 year period.

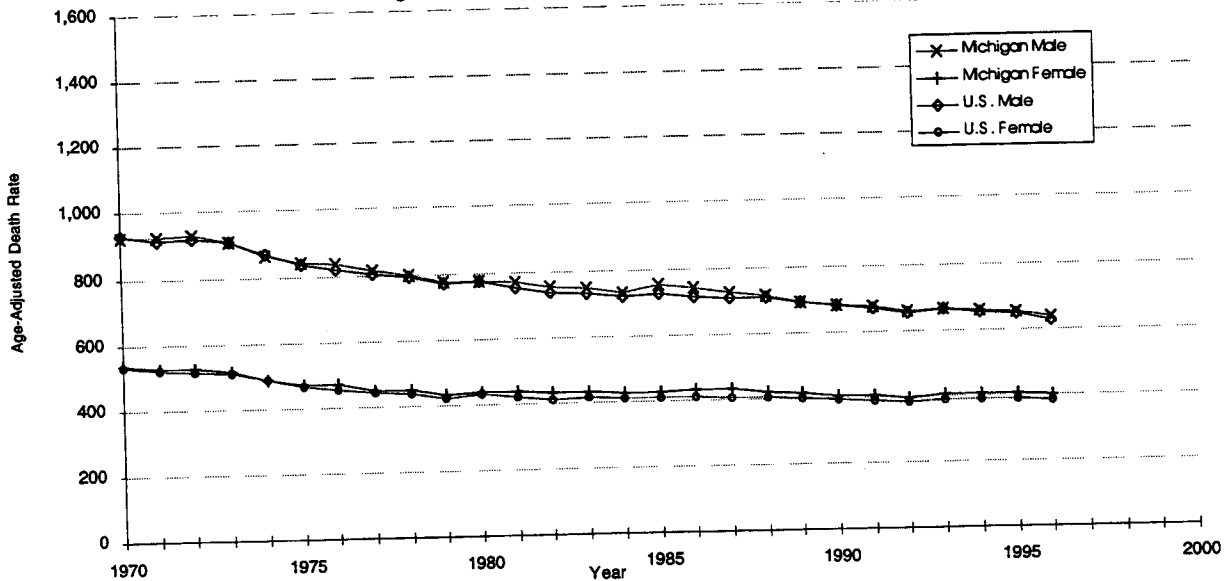
Over the period 1970-1996, Michigan age-adjusted death rates for black males were higher than their national counterparts (Figure 2.4). The rates for Michigan black females were slightly lower than the

national rates prior to 1981, but have been slightly higher since 1980.

Mortality rate disparities between the black and white population increased during the last twenty-six years. Michigan age-adjusted rates for black males and females were 43 and 54 percent higher than their white counterparts in 1970. By 1996 black male and female rates were 72 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 21 and 29 percent, respectively. The United States rates for these groups declined by 27 and 31 percent, respectively, during this period. The Michigan rates for white males and females declined 34 and 27 percent, while national rates dropped 33 and 28 percent, respectively.

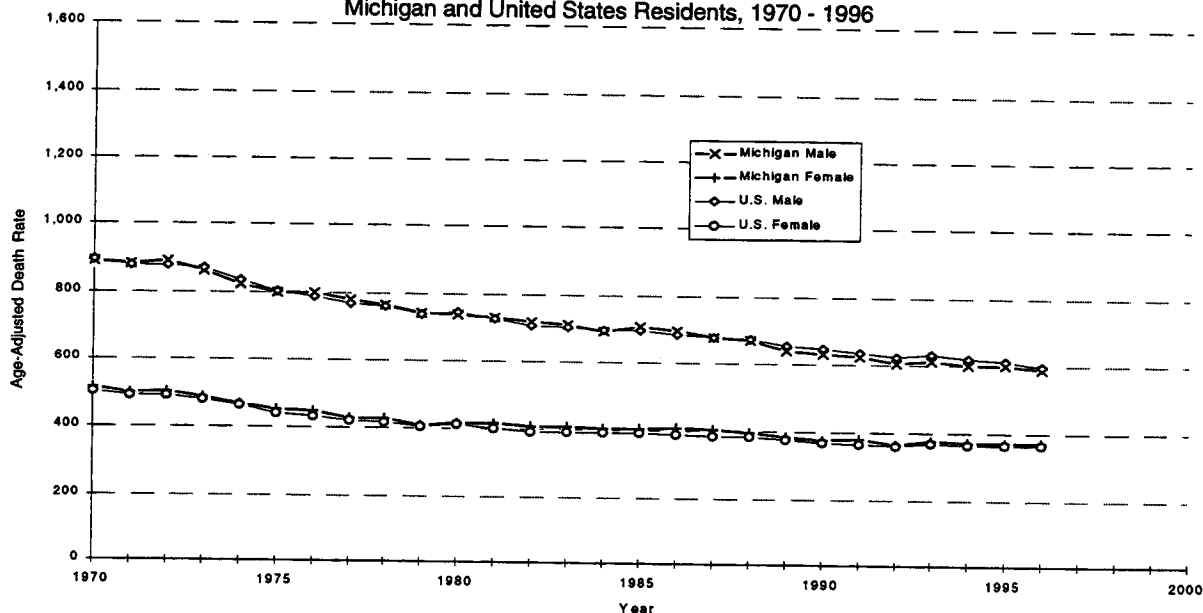
Figure 2.2
Total Age-Adjusted Death Rates by Sex
Michigan and United States Residents, 1970 - 1996



Note: Age-adjusted death rates are based on age-specific death rates per 100,000 population in specified group. 1995 estimated population is used to calculate 1996 rate. Age-adjusted death rates are 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). United States data for 1996 are provisional.

Source: 1970-1996 Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH
Monthly Vital Statistics Reports, National Center for Health Statistics

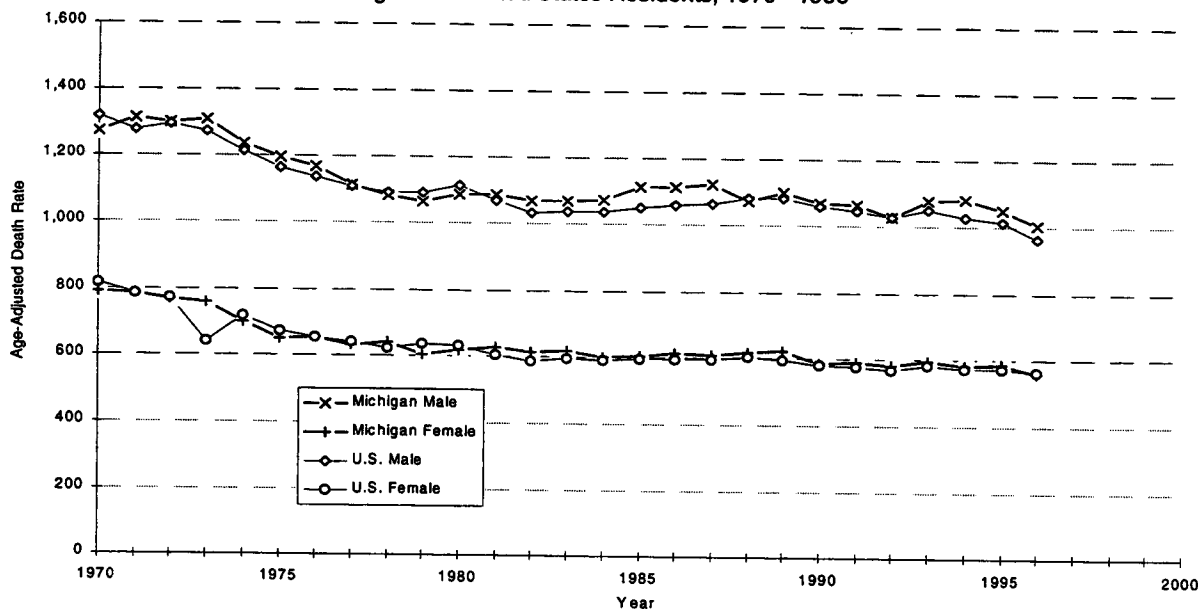
Figure 2.3
White Age-Adjusted Death Rates by Sex
 Michigan and United States Residents, 1970 - 1996



Note: Age-adjusted death rates are based on age-specific death rates per 100,000 population in specified group. 1995 estimated population is used to calculate 1996 rate. Age-adjusted death rates are 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). United States data for 1996 are provisional.

Source: 1970-1996 Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH
Monthly Vital Statistics Reports, National Center for Health Statistics

Figure 2.4
Black Age-Adjusted Death Rates by Sex
 Michigan and United States Residents, 1970 - 1996



Note: Age-adjusted death rates are based on age-specific death rates per 100,000 population in specified group. 1995 estimated population is used to calculate 1996 rate. Age-adjusted death rates are 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). United States data for 1996 are provisional.

Source: 1970-1996 Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH
Monthly Vital Statistics Reports, National Center for Health Statistics

MORTALITY BY RACE AND ANCESTRY

Table 2.2 presents data on the number of deaths by race for the period 1980-1996 and ancestry since 1989. In 1996 deaths of white persons (70,665) accounted for 84.6 percent of all deaths, while deaths of black persons (12,069) constituted 14.5 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 0.9 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-enun-

merated, 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 certificate¹.

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 and Ancestry
Michigan Residents, Selected Years, 1980 - 1996

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
1996	83,496	70,665	12,069	428	304	1	576	764

Note: Death records with race not stated are included only in the "All Races" column.

Source: 1980, 1985-1996 Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH

¹ 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**

Except for infancy and early childhood years, the numbers of deaths generally increased with age until about age 85. In Michigan, half of all deaths in 1996 occurred below or at age 76. For males half the deaths occurred below or at 72, while for females, half occurred below or at age 79. Males represented

slightly less than half the deaths (49.9 percent) in 1996. Among black persons a higher percentage of deaths (54.2 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
Michigan Residents, 1996

Age in Years	All Races			White			Black			All Other Races		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
<1	1,072	590	481	627	348	278	421	227	194	21	13	8
1 - 4	232	122	110	159	89	70	67	28	39	6	5	1
5 - 9	121	68	53	83	43	40	36	24	12	2	1	1
10 - 14	155	97	58	108	67	41	40	26	14	7	4	3
15 - 19	535	382	153	370	255	115	155	121	34	10	6	4
20 - 24	605	465	140	350	264	86	243	193	50	12	8	4
25 - 29	667	455	212	409	266	143	244	182	62	14	7	7
30 - 34	964	648	316	664	440	224	282	192	90	18	16	2
35 - 39	1,388	866	522	959	614	345	405	240	165	23	11	12
40 - 44	1,948	1,260	688	1,316	852	464	602	390	212	28	16	12
45 - 49	2,435	1,532	903	1,683	1,060	623	713	454	259	38	18	20
50 - 54	2,830	1,733	1,097	2,140	1,327	813	649	382	267	41	24	17
55 - 59	3,475	2,118	1,357	2,755	1,685	1,070	669	402	267	49	29	20
60 - 64	5,007	2,976	2,031	4,038	2,404	1,634	902	533	369	66	39	27
65 - 69	7,595	4,360	3,235	6,307	3,648	2,659	1,212	671	541	70	37	33
70 - 74	10,169	5,612	4,557	8,711	4,840	3,871	1,368	726	642	87	43	44
75 - 79	12,005	6,186	5,819	10,557	5,462	5,095	1,359	688	671	86	35	51
80 - 84	12,324	5,717	6,607	11,092	5,179	5,913	1,153	502	651	75	36	39
85 - 89	10,289	3,892	6,397	9,416	3,535	5,881	827	335	492	44	20	24
90+	9,670	2,577	7,093	8,915	2,345	6,570	718	218	500	36	14	22
Not stated	10	6	4	6	4	2	4	2	2	-	-	-
<i>All ages</i>	83,496	41,662	41,833	70,665	34,727	35,937	12,069	6,536	5,533	733	382	351

Notes: Death records with race and/or sex not stated are included only in the "Total" column.

Source: 1996 Michigan Resident Death File, Division for Vital Records and 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 55 years and highest for American Indians at 55 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 65 years of age these rates are highest for black males and females and between 55 and 84 they are 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 inaccurate identification of the race. Also since this population increased by 68 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 likely to migrate to another state or country than the less healthy people.

Table 2.4
Death Rates by Age and Race
Michigan Residents, 1996

Age in Years	Race				
	Total	White	Black	Amer. Indian	Asian/ P.I.
Crude Rate	874.4	886.3	872.9	653.8	236.4
<1	804.6	597.6	1,748.8	1,371.6	409.7
1 - 14	25.8	22.4	40.6	36.1	28.8
15 - 24	85.2	67.4	169.8	85.2	52.7
25 - 34	112.7	89.3	251.9	167.9	55.5
35 - 44	212.5	171.2	480.7	262.2	108.6
45 - 54	458.0	386.6	979.2	611.8	244.9
55 - 64	1,111.0	1,017.3	1,853.3	1,873.8	567.0
65 - 74	2,652.5	2,544.1	3,510.6	4,247.7	1,479.3
75 - 84	6,243.0	6,199.2	6,583.2	8,044.9	5,891.7
85+	16,307.7	16,730.9	12,494.9	19,907.4	15,163.9
Age-Adjusted Rate	505.9	468.7	751.8	730.4	339.1

Note: 1995 estimated population is used to calculate 1996 rates. 1996 live births are used to calculate rates for less than one year of age. Death 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. Death records with all other races stated are included only in the "Total" column. Rates are based on age-specific death rates per 100,000 population in specified group. Age-adjusted death rates are 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.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 2.5
Death Rates by Age and Race
 Michigan Male Residents, 1996

Age in Years	Race				
	Total	White	Black	Amer. Indian	Asian/P.I.
<i>Crude Rate</i>	896.8	889.2	1,014.5	634.6	278.0
<1	865.0	645.7	1,867.1	2,255.6	*
1 - 14	28.5	24.8	43.9	*	44.3
15 - 24	125.9	96.3	270.0	133.3	52.5
25 - 34	155.0	117.9	395.7	227.3	86.6
35 - 44	274.6	220.1	680.5	271.3	123.5
45 - 54	579.9	486.3	1,346.6	601.1	322.4
55 - 64	1,391.9	1,264.7	2,512.7	2,123.4	750.6
65 - 74	3,328.5	3,188.8	4,521.0	4,701.6	1,984.4
75 - 84	7,926.0	7,884.5	8,315.3	8,629.4	7,240.7
85+	19,159.5	19,586.9	15,503.2	15,942.0	21,296.3
<i>Age-Adjusted Rate</i>	636.9	586.5	1,006.6	800.9	436.2

Note: 1995 estimated population is used to calculate 1996 rates. 1996 live births are used to calculate rates for less than one year of age. Death 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. Death records with all other races stated are included only in the "Total" column. Rates are based on age-specific death rates per 100,000 population in specified group. Age-adjusted death rates are 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. Asterisk (*) indicates that data do not meet standards of reliability or precision.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 2.6
Death Rates by Age and Race
 Michigan Female Residents, 1996

Age in Years	Race				
	Total	White	Black	Amer. Indian	Asian/P.I.
<i>Crude Rate</i>	853.1	883.5	749.4	672.5	195.7
<1	739.8	544.9	1,628.5	*	501.3
1 - 14	23.0	19.8	37.2	*	*
15 - 24	44.1	38.0	71.1	*	52.9
25 - 34	71.8	60.8	133.0	110.3	*
35 - 44	152.0	122.1	322.5	253.7	93.9
45 - 54	341.0	288.4	683.1	621.5	177.8
55 - 64	852.3	785.0	1,337.3	1,635.4	380.8
65 - 74	2,105.3	2,014.6	2,777.5	3,897.9	1,116.2
75 - 84	5,187.7	5,137.7	5,544.1	7,715.1	4,959.8
85+	15,221.3	15,653.2	11,275.3	21,621.6	10,219.0
<i>Age-Adjusted Rate</i>	399.5	373.4	557.3	662.3	260.4

Note: 1995 estimated population is used to calculate 1996 rates. 1996 live births are used to calculate rates for less than one year of age. Death 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. Death records with all other races stated are included only in the "Total" column. Rates are based on age-specific death rates per 100,000 population in specified group. Age-adjusted death rates are 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. Asterisk (*) indicates that data do not meet standards of reliability or precision.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

LIFE EXPECTANCY

In 1996 the life expectancy at birth was 72.8 years for males and 78.5 years for females based on 1996 mortality and 1995 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 19.4 years for males and by 23.4 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 5.7 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 1980 and 1996 both males and females in Michigan had lower life expectancy than corresponding sex groups in the nation. By 1996 the life expectancies of males and females in Michigan were 0.2 and 0.5 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 8.8 years greater than black males in 1996 compared to a differential of 5.8 years in 1950. The life expectancy for white males increased slowly after 1951, while the life expectancy of black males fluctuated over the period from 1950 to 1996. The black male life expectancy rose from 63.6 to 65.3 years from 1980 to 1996, while life expectancy for white males rose from 71.0 in 1980 to 74.1 years in 1996.

Table 2.7
Life Expectancy at Birth by Sex
Michigan and United States Residents
Selected Years, 1901 - 1996

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
70.0	77.4	1980	70.0	76.9
71.8	78.8	1990	71.8	78.1
72.0	78.9	1991	71.8	78.0
72.3	79.1	1992	72.2	78.4
72.2	78.8	1993	72.1	78.2
72.4	79.0	1994	72.3	78.3
72.5	78.9	1995	72.5	78.3
73.0Pr	79.0Pr	1996	72.8	78.5

Note: 1995 estimated population is used to calculate 1996 Michigan life expectancy. Michigan data for years 1920, 1930 and 1940 are for white persons only.

Source: 1901-1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH
Monthly Vital Statistics Report, National Center for Health Statistics

In 1950, Michigan resident white females had an average longevity 8.5 years greater than black females. This disparity declined to 5.3 years by 1980 and decreased to 5.2 years by 1996. Life expectancy generally increased for white females between 1950 and 1996. For black females, life expectancy generally rose from 1950 through 1990, then fluctuated until 1996 when black females could be expected to live 74.1 years.

Table 2.8
Life Expectancy at Birth by Sex and Race
 Michigan Residents, Selected Years, 1950 - 1996

Population Subgroup	Year of Death										
	1950	1960	1970	1980	1990	1991	1992	1993	1994	1995	1996
White											
Male	66.2	67.5	68.2	71.0	73.1	73.2	73.5	73.5	73.7	73.8	74.1
Female	71.9	74.0	75.3	77.6	79.0	78.9	79.4	79.1	79.2	79.2	79.3
Black											
Male	60.4	63.6	59.9	63.6	63.9	63.6	64.4	63.8	63.8	64.4	65.3
Female	63.4	67.7	68.3	72.3	73.3	73.1	73.2	73.1	73.5	73.5	74.1

Note: 1995 estimated population is used to calculate 1996 life expectancy. Data for 1950 and 1960 are for persons of white and other than white race.

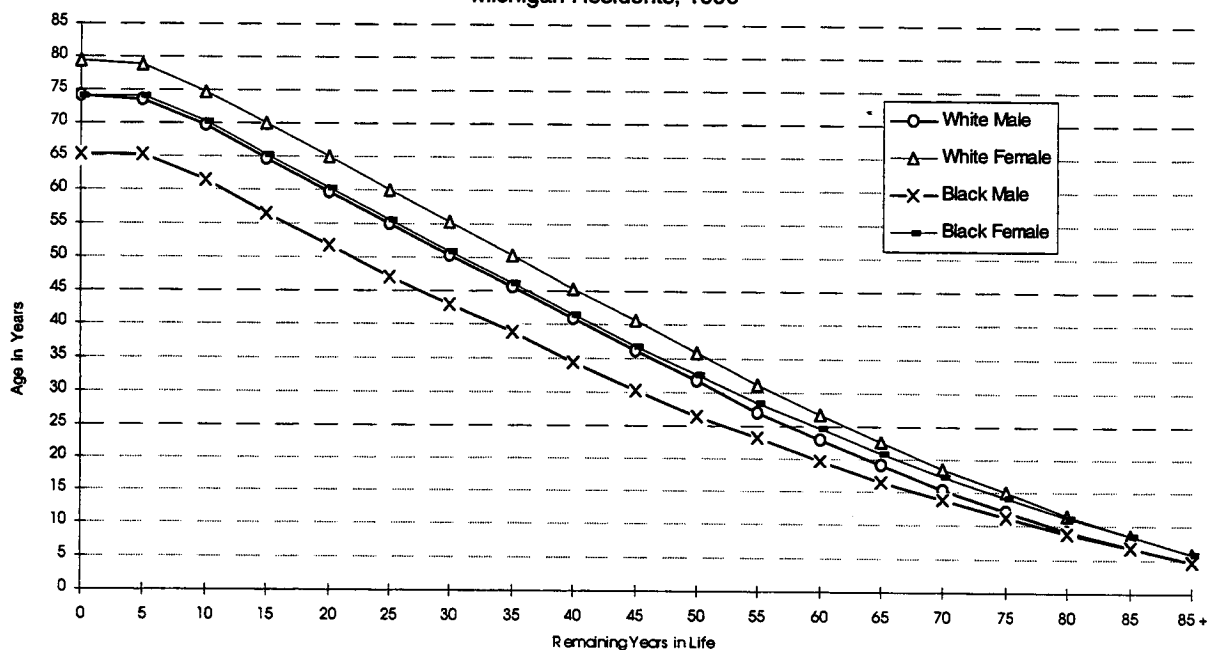
Source: 1950-1996 Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH

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, 1996



Source: 1996 Michigan Resident Death File, Division for Vital Records and 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 (56 percent compared to 26 percent). Conversely, women were over three times as likely to be widows at the time of death as men were to be widowers (56 percent compared to 18 percent).

Table 2.9
Deaths by Sex and Marital Status
Michigan Residents, 1996

Marital Status	Males		Females	
	Number	Percent	Number	Percent
<i>Total</i>	41,662	100.0	41,833	100.0
Married	23,300	55.9	10,696	25.6
Widowed	7,700	18.5	23,492	56.2
Never married	5,817	14.0	3,647	8.7
Divorced	4,700	11.3	3,912	9.4
Unknown	145	0.3	86	0.2

Note: Divorced includes legally separated.

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

PLACE OF OCCURRENCE

There were 2,102 Michigan resident deaths in 1996 that occurred outside the state (Table 2.10). This represents 2.5 percent of all resident deaths. The states with the highest number of Michigan resident deaths were Florida and Ohio. The surrounding areas of Illinois, Indiana, Ohio, Wisconsin and Canada accounted for almost half of all resident deaths occurring outside Michigan.

Of the 1,094 non-residents who died in Michigan in 1996, 41 percent were from the surrounding areas while 24 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, 1996

Geographic Area	Residents Dying Outside Michigan		Non-Residents Dying in Michigan	
	Number	Percent	Number	Percent
<i>Total</i>	2,102	100.0	1,094	100.0
Florida	463	22.0	258	23.6
Ohio	449	21.4	143	13.1
Wisconsin	260	12.4	125	11.4
Indiana	220	10.5	78	7.1
Illinois	96	4.6	73	6.7
Arizona	86	4.1	27	2.5
Texas	56	2.7	32	2.9
Minnesota	49	2.3	18	1.6
Tennessee	37	1.8	16	1.5
California	34	1.6	31	2.8
Nevada	30	1.4	8	0.7
Alabama	29	1.4	14	1.3
Pennsylvania	27	1.3	16	1.5
Georgia	22	1.0	15	1.4
Kentucky	21	1.0	14	1.3
All other states	218	10.4	163	14.9
Canada	1	*	34	3.1
All other areas	4	*	24	2.2
Unknown	-	-	5	*

Note: Asterisk (*) indicates that data do not meet standards of reliability or precision.

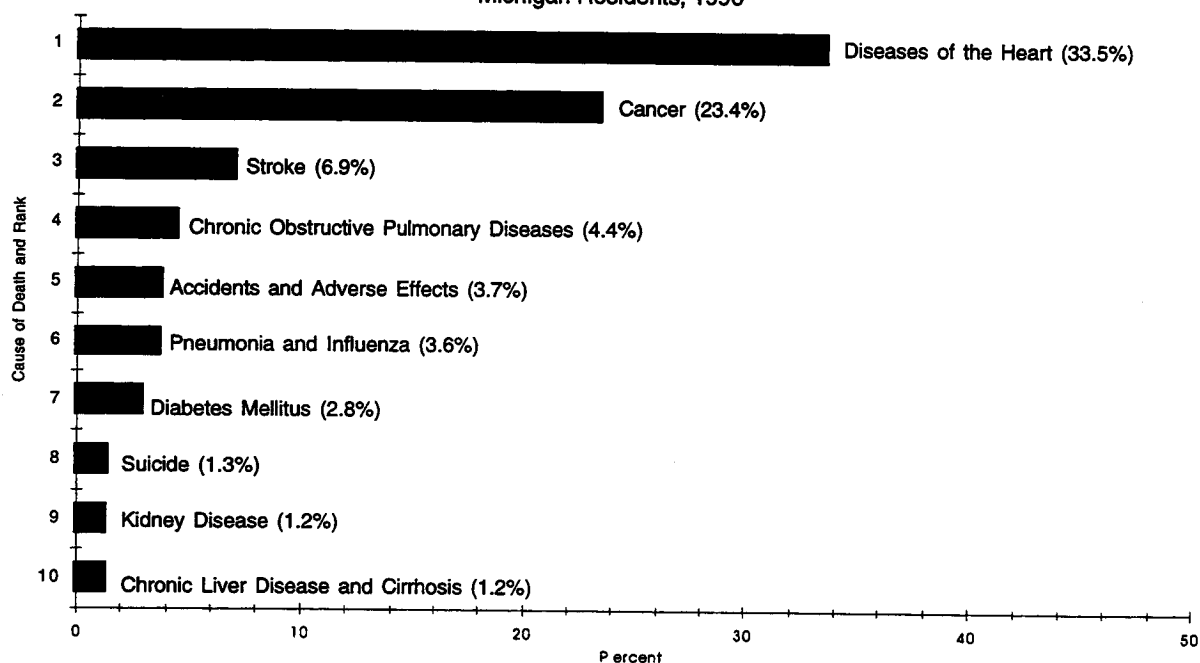
Source: 1996 Resident and Occurrence Death Files, Division for Vital Records and Health Statistics, MDCH

LEADING CAUSES OF DEATH

Ten Leading Causes of Death Deaths due to the 10 leading causes accounted for more than 80 percent of all Michigan resident deaths in 1996. Diseases of the heart was the leading cause of death with 34 percent of all deaths. Another 23 percent of the deaths were due to cancer. Together these two causes of death were responsible for 57 percent of all Michigan resident deaths. The third leading cause of death was stroke with 7 percent of all deaths. The percentage of total deaths resulting from each of the 10 leading causes of death in 1996 is illustrated in Figure 2.6.

The ranking of leading causes changed in 1996 with suicide moving to the eighth from the ninth leading cause of death. For the first time, nephritis, nephrotic syndrome and nephrosis (kidney disease) was one of the ten leading causes of death, ranking ninth. Homicide was not one of the leading causes of death in Michigan in 1996 for the first time since 1988. The numbers of deaths and the death rates for the 10 leading causes in 1996 are shown in Table 2.11.

Figure 2.6
Leading Causes of Death
Michigan Residents, 1996



Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Cause-Specific Crude Death Rates Rates in Michigan were higher in 1996 than in 1995 for five of the ten leading causes: cancer, chronic obstructive pulmonary diseases and allied conditions, diabetes mellitus, suicide, and kidney disease. The rates were lower in 1996 for diseases of the heart, stroke, chronic liver disease and cirrhosis, accidents and adverse effects, and pneumonia and influenza.

The order of the leading causes of death for Michigan and the United States were somewhat different in 1996 (Table 2.11). Human immunodeficiency virus infection (AIDS) was the eighth leading cause of death in the United States, but

ranked as the thirteenth leading cause of death in Michigan. Suicide, the eighth leading cause of death in Michigan was the ninth in the United States.

Michigan's mortality rates for heart disease, diabetes mellitus, kidney disease and chronic liver disease and cirrhosis were higher than the comparable national rates. The Michigan death rates for chronic obstructive pulmonary disease and accidents were lower than the national rates. The Michigan and national rates for suicide were identical, while the rates for cancer, stroke, and pneumonia and influenza were almost identical.

Table 2.11
Leading Causes of Death and Cause-Specific Rates
Michigan and United States Residents, 1996

Michigan Rank	Cause of Death	Number of Deaths		Rate	
		Michigan	U.S.	Michigan	U.S.
1	Diseases of the Heart	27,980	733,834	293.0	276.6
2	Cancer	19,563	544,278	204.9	205.2
3	Stroke	5,748	160,431	60.2	60.5
4	Chronic Obstructive Pulmonary Diseases and Allied Conditions	3,677	106,146	38.5	40.0
5	Accidents and Adverse Effects	3,062	93,874	32.1	35.4
6	Pneumonia and Influenza	3,010	82,579	31.5	31.1
7	Diabetes Mellitus	2,348	61,559	24.6	23.2
8	Suicide	1,107	30,862	11.6	11.6
9	Kidney Disease	1,000	24,392	10.5	9.2
10	Chronic Liver Disease and Cirrhosis	968	25,135	10.1	9.5
<i>Subtotal</i>		68,463	1,863,090	716.9	702.3
<i>All other causes</i>		15,033	447,910	157.4	176.8
<i>Total</i>		83,496	2,311,000	874.4	879.1

Note: Rates are per 100,000 population. 1995 estimated population is used to calculate 1996 rates. United States data are provisional.

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH
Monthly Vital Statistics Report, National Center for Health Statistics

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 eighth leading cause of death, was the eleventh leading cause for white females. Accidents, the fifth leading cause of death

overall, was the seventh leading cause for white females. Homicide was the third and eighth leading cause of death for black males and females, respectively, but not one of the ten leading causes of death overall. Finally, diabetes, the seventh leading cause overall, was the fourth leading cause for black females.

Table 2.12
Leading Causes of Death by Race and Sex
Michigan Residents, 1996

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	27,980	13,696	14,284	24,124	11,749	12,375	3,636	1,837	1,799	212	105	107
Cancer	19,563	10,172	9,391	16,753	8,677	8,076	2,642	1,409	1,233	162	83	79
Stroke	5,748	2,321	3,427	4,934	1,925	3,009	758	366	392	55	29	26
Chronic Obstructive Pulmonary Diseases and Allied Conditions	3,677	1,894	1,783	3,362	1,718	1,644	289	165	124	25	11	14
Accidents and Adverse Effects	3,062	1,923	1,139	2,551	1,571	980	450	313	137	58	36	22
Pneumonia/Influenza	3,010	1,410	1,600	2,581	1,171	1,410	402	224	178	27	15	12
Diabetes Mellitus	2,348	1,005	1,343	1,949	857	1,092	372	137	235	27	11	16
Suicide	1,107	911	196	973	802	171	112	92	20	22	17	5
Kidney Disease	1,000	474	526	807	385	422	181	82	99	12	7	5
Chronic Liver Disease and Cirrhosis	968	627	341	763	480	283	191	139	52	14	8	6
All other causes	15,033	7,229	7,803	11,868	5,392	6,475	3,036	1,772	1,264	119	60	59
Total	83,496	41,662	41,833	70,665	34,727	35,937	12,069	6,536	5,533	733	382	351

Note: Death records with race/sex not stated are included only in the "Total" column.

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 2.13
Leading Causes of Death and Crude Death Rates by Race and Sex
Michigan Residents, 1996

Cause of Death	All Races			White			Black		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Diseases of the Heart	293.0	294.8	291.3	302.6	300.9	304.2	263.0	285.1	243.7
Cancer	204.9	219.0	191.5	210.1	222.2	198.6	191.1	218.7	167.0
Stroke	60.2	50.0	69.9	61.9	49.3	74.0	54.8	56.8	53.1
Chronic Obstructive Pulmonary Diseases and Allied Conditions	38.5	40.8	36.4	42.2	44.0	40.4	20.9	25.6	16.8
Accidents and Adverse Effects	32.1	41.4	23.2	32.0	40.2	24.1	32.5	48.6	18.6
Pneumonia/Influenza	31.5	30.4	32.6	32.4	30.0	34.7	29.1	34.8	24.1
Diabetes Mellitus	24.6	21.6	27.4	24.4	21.9	26.8	26.9	21.3	31.8
Suicide	11.6	19.6	4.0	12.2	20.5	4.2	8.1	14.3	*
Kidney Disease	10.5	10.2	10.7	10.1	9.9	10.4	13.1	12.7	*
Chronic Liver Disease and Cirrhosis	10.1	13.5	7.0	9.6	12.3	7.0	13.8	21.6	7.0
All other causes	157.4	155.6	159.1	148.9	138.1	159.2	219.6	275.0	171.2
Total	874.4	896.8	853.1	886.3	889.2	883.5	872.9	1,014.5	749.4

Note: Rates are per 100,000 population. 1995 estimated population is used to calculate 1996 rates. Asterisk (*) indicates that data do not meet standards of reliability or precision.

Source: 1996 Michigan Resident Death File, Division for Vital Records and 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 heart disease, stroke, pneumonia and influenza, kidney disease 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 seven of the ten leading causes of death. For deaths due to heart disease, the rates for white males, black males and black females were 83, 179 and 63 percent higher, respectively than for white females.

For cancer deaths these differentials were 38, 104 and 26 percent. The greatest differentials between black and white female rates occurred for diabetes, chronic liver disease and cirrhosis, and kidney disease where the black female rates were 99 percent, 62 percent and 144 percent 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 kidney disease and chronic liver disease and cirrhosis, where black male rates were 109 percent and 145 percent times higher.

Table 2.14
Leading Causes of Death and Age-Adjusted Death Rates by Race and Sex
Michigan Residents, 1996

Cause of Death	All Races			White			Black		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Diseases of the Heart	148.5	196.5	109.7	139.5	186.1	101.5	215.6	283.1	165.4
Cancer	132.6	159.0	113.3	127.4	151.6	109.8	173.6	223.9	138.3
Stroke	27.6	30.6	25.3	25.4	27.6	23.8	42.5	53.8	34.4
Chronic Obstructive Pulmonary Diseases and Allied Conditions	21.2	26.2	18.0	21.4	26.2	18.4	18.0	24.6	13.5
Accidents and Adverse Effects	27.0	37.5	17.3	26.2	35.8	17.2	31.2	48.7	16.8
Pneumonia/Influenza	14.0	17.9	11.3	12.8	16.2	10.5	21.9	31.3	15.6
Diabetes Mellitus	14.4	15.2	13.9	13.2	14.4	12.3	23.1	21.2	24.5
Suicide	10.8	18.3	3.8	11.1	18.7	4.0	8.3	15.3	2.5
Kidney Disease	4.9	6.3	4.0	4.2	5.5	3.4	9.7	11.5	8.3
Chronic Liver Disease and Cirrhosis	8.1	11.6	4.9	7.2	10.0	4.5	14.8	24.5	7.3
All Other Causes	96.8	117.8	78.0	80.3	94.4	67.9	193.1	268.8	130.8
Total	505.9	636.9	399.5	468.7	586.5	373.4	751.8	1,006.6	557.3

Note: Age-adjusted death rates are based on age-specific death rates per 100,000 population in specified group. 1995 estimated population is used to calculate 1996 rate. Age-adjusted death rates are 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).

Source: 1996 Michigan Resident Death File, Division for Vital Records and 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 males and females ages 1-14 years.

Homicide was the second leading cause of death for ages 15-34 years and the third leading cause for ages 1-4 overall; however, it was the leading cause of death for black males and black females ages 15-34 years. More than half of the homicides among Michigan residents occurred among black males 15-49 years of age. Compared to homicide rates in 1995, the rates for black males ages 15-24 decreased 20 percent in 1996.

Suicide was the third leading cause of death overall for ages 15-34 and second among white males 15-34. Suicide was the third leading cause among black males 15-24 and the second leading cause for white females ages 15-24 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 35-64 years.

Diseases of the heart was the leading cause of death for all males ages 35 years or over, black females ages 50 years or over, and white females 65 years of age or over.

AIDS The number of deaths due to AIDS decreased 36 percent in Michigan, from 795 deaths in 1995 to 510 deaths in 1996. Decreases were observed in both the white and black populations as well as in both males and females. Overall, AIDS was the fifth leading cause of death for people 25-49 years of age in Michigan in 1996. Among white males it was the fifth leading cause of death for ages 25-34 years. It was the second leading cause for black males ages 25-34 years of age. For black females, AIDS was the fifth leading cause for ages 25-34, down from second in 1995.

Table 2.15
Leading Causes of Death and Cause-Specific Rates by Age
 Michigan Residents, 1996

Age	Rank and Cause of Death	Number	Rate
All ages	1. Diseases of the Heart	27,980	293.0
	2. Cancer	19,563	204.9
	3. Stroke	5,748	60.2
	4. Chronic Obstructive Pulmonary Diseases & Allied Conditions	3,677	38.5
	5. Accidents	3,062	32.1
	<i>All causes</i>	83,496	874.4
<1 year	1. Certain Conditions Originating in the Perinatal Period	534	36.9
	2. Congenital Anomalies	189	13.1
	3. Sudden Infant Death Syndrome	149	10.3
	4. Accidents	36	2.5
	5. Diseases of the Heart	18	1.2
	<i>All causes</i>	1,072	74.1
1 - 4 years	1. Accidents	87	15.9
	2. Congenital Anomalies	32	5.8
	3. Homicide	19	3.5
	4. Cancer	17	3.1
	5. Pneumonia & Influenza	11	2.0
	<i>All causes</i>	232	42.3
5 - 14 years	1. Accidents	121	8.5
	2. Cancer	29	2.0
	3. Congenital Anomalies	20	1.4
	4. Homicide	19	1.3
	5. Diseases of the Heart	11	0.8
	<i>All causes</i>	276	19.5
15 - 24 years	1. Accidents	456	34.1
	2. Homicide	243	18.2
	3. Suicide	156	11.7
	4. Cancer	68	5.1
	5. Diseases of the Heart	28	2.1
	<i>All causes</i>	1,140	85.2
25 - 34 years	1. Accidents	381	26.3
	2. Homicide	242	16.7
	3. Suicide	199	13.8
	4. Cancer	157	10.9
	5. AIDS	136	9.4
	<i>All causes</i>	1,631	112.7
35 - 49 years	1. Cancer	1,335	60.3
	2. Diseases of the Heart	1,164	52.6
	3. Accidents	566	25.6
	4. Suicide	337	15.2
	5. AIDS	307	13.9
	<i>All causes</i>	5,771	260.7
50 - 64 years	1. Cancer	4,181	329.4
	2. Diseases of the Heart	3,393	267.3
	3. Stroke	449	35.4
	4. Chronic Obstructive Pulmonary Diseases & Allied Conditions	401	31.6
	5. Diabetes Mellitus	371	29.2
	<i>All causes</i>	11,312	891.3
65 and over	1. Diseases of the Heart	23,228	1,965.5
	2. Cancer	13,769	1,165.1
	3. Stroke	5,034	426.0
	4. Chronic Obstructive Pulmonary Diseases & Allied Conditions	3,154	266.9
	5. Pneumonia and Influenza	2,634	222.9
	<i>All causes</i>	62,052	5,250.7

Note: Age groups do not add to respective totals because records with age not stated are included only in the "All Ages" row. 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. Cause-specific rates are per 100,000 population. 1995 estimated population is used to calculate 1996 rates.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 2.16
**Leading Causes of Death and Cause-Specific Rates by Age,
 Michigan Resident White Males, 1996**

Age	Rank and Cause of Death	Number	Rate
All ages	1. Diseases of the Heart	11,749	300.9
	2. Cancer	8,677	222.2
	3. Stroke	1,925	49.3
	4. Chronic Obstructive Pulmonary Diseases & Allied Conditions	1,718	44.0
	5. Accidents	1,571	40.2
	<i>All causes</i>	34,727	889.2
<1 year	1. Certain Conditions Originating in the Perinatal Period	154	295.7
	2. Congenital Anomalies	70	134.4
	3. Sudden Infant Death Syndrome	49	94.1
	4. Accidents	18	34.6
	5. Stroke	6	11.5
	<i>All causes</i>	348	668.1
1 - 4 years	1. Accidents	39	17.6
	2. Congenital Anomalies	14	6.3
	3. Cancer	8	3.6
	4. Homicide	4	*
	5. Diseases of the Heart	2	*
	<i>All causes</i>	89	40.2
5 - 14 years	1. Accidents	48	8.2
	2. Cancer	10	1.7
	3. Congenital Anomalies	8	1.4
	4-5. Pneumonia & Influenza - Suicide	6	1.0
	<i>All causes</i>	110	18.9
	15 - 24 years	1. Accidents	265
2. Suicide		106	19.7
3. Cancer		36	6.7
4. Homicide		29	5.4
5. Diseases of the Heart		9	1.7
<i>All causes</i>		519	96.3
25 - 34 years	1. Accidents	222	37.1
	2. Suicide	137	22.9
	3-4. Cancer-Diseases of the Heart	58	9.7
	5. AIDS	57	9.5
	<i>All causes</i>	706	117.9
	35 - 49 years	1. Diseases of the Heart	590
2. Cancer		489	52.0
3. Accidents		304	32.3
4. Suicide		224	23.8
5. Chronic Liver Disease & Cirrhosis		146	15.5
<i>All causes</i>		2,526	268.5
50 - 64 years	1. Diseases of the Heart	1,853	343.7
	2. Cancer	1,852	343.5
	3. Accidents	191	35.4
	4. Chronic Obstructive Pulmonary Disease & Allied Conditions	185	34.3
	5. Diabetes Mellitus	162	30.0
	<i>All causes</i>	5,416	1,004.6
65 and over	1. Diseases of the Heart	9,228	2,140.3
	2. Cancer	6,223	1,443.3
	3. Stroke	1,686	391.0
	4. Chronic Obstructive Pulmonary Diseases & Allied Conditions	1,504	348.8
	5. Pneumonia and Influenza	1,032	239.4
	<i>All causes</i>	25,009	5,800.4

Note: Subtotals by sex and race do not add to the grand total as the race was not stated on records for 17 males and 12 females. Age groups do not add to respective totals because records with age not stated are included only in the "All Ages" row. 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. Cause-specific rates are per 100,000 population. 1995 estimated population is used to calculate 1996 rates. Asterisk (*) indicates that data do not meet standards of reliability or precision.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 2.17
Leading Causes of Death and Cause-Specific Rates by Age
Michigan Resident Black Males, 1996

Age	Rank and Cause of Death	Number	Rate
All ages	1. Diseases of the Heart	1,837	285.1
	2. Cancer	1,409	218.7
	3. Homicide	466	72.3
	4. Stroke	366	56.8
	5. Accidents	313	48.6
	All causes	6,536	1,014.5
<1 year	1. Certain Conditions Originating in the Perinatal Period	116	766.0
	2. Sudden Infant Death Syndrome	40	264.1
	3. Congenital Anomalies	23	151.9
	4-5. Accidents-Kidney Disease	9	59.4
	All causes	227	1,498.9
1 - 4 years	1. Accidents	8	15.0
	2. Pneumonia & Influenza	4	*
	3. Homicide	3	*
	4. Congenital Anomalies	2	*
	5-10. Diseases of the Heart-AIDS-Chronic Obstructive Pulmonary & Allied Conditions-Septicemia-Benign Neoplasms-Certain Conditions Originating in the Perinatal Period	1	*
	All causes	28	52.6
5 - 14 years	1. Accidents	23	18.5
	2. Homicide	9	7.2
	3-4. Congenital Anomalies-Cancer	3	*
	5-7. Diseases of the Heart-AIDS-Chronic Obstructive Pulmonary Diseases & Allied Conditions	2	*
	All causes	50	40.2
15 - 24 years	1. Homicide	180	154.8
	2. Accidents	57	49.0
	3. Suicide	25	21.5
	4. Cancer	9	7.7
	5-6. Chronic Obstructive Pulmonary Diseases & Allied Conditions-Diseases of the Heart	6	5.2
	All causes	314	270.0
25 - 34 years	1. Homicide	156	165.1
	2. AIDS	58	61.4
	3. Accidents	39	41.3
	4-5. Suicide-Diseases of the Heart	21	22.2
	All causes	374	395.7
35 - 49 years	1. Diseases of the Heart	228	177.3
	2. Cancer	127	98.8
	3. AIDS	124	96.4
	4-5. Homicide-Accidents	79	61.4
	All causes	1,084	843.1
50 - 64 years	1. Diseases of the Heart	447	706.1
	2. Cancer	392	619.2
	3. Stroke	73	115.3
	4. Chronic Liver Disease & Cirrhosis	45	71.1
	5. Accidents	37	58.4
	All causes	1,317	2,080.4
65 and over	1. Diseases of the Heart	1,128	2,312.5
	2. Cancer	864	1,771.3
	3. Stroke	243	498.2
	4. Pneumonia and Influenza	146	299.3
	5. Chronic Obstructive Pulmonary Diseases & Allied Conditions	107	219.4
	All causes	3,140	6,437.3

Note: Subtotals by sex and race do not add to the grand total as the race was not stated on records for 17 males and 12 females. Age groups do not add to respective totals because records with age not stated are included only in the "All Ages" row. 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. Cause-specific rates are per 100,000 population. 1995 estimated population is used to calculate 1996 rates. Asterisk (*) indicates that data do not meet standards of reliability or precision.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 2.18
Leading Causes of Death and Cause-Specific Rates by Age
 Michigan Resident White Females, 1996

Age	Rank and Cause of Death	Number	Rate
All ages	1. Diseases of the Heart	12,375	304.2
	2. Cancer	8,076	198.6
	3. Stroke	3,009	74.0
	4. Chronic Obstructive Pulmonary Diseases & Allied Conditions	1,644	40.4
	5. Pneumonia & Influenza	1,410	34.7
	<i>All causes</i>	35,937	883.5
<1 year	1. Certain Conditions Originating in the Perinatal Period	135	272.4
	2. Congenital Anomalies	66	133.2
	3. Sudden Infant Death Syndrome	29	58.5
	4. Diseases of the Heart	10	20.2
	5-6. Pneumonia & Influenza-Accidents	6	12.1
	<i>All causes</i>	278	561.0
1 - 4 years	1. Accidents	25	11.9
	2. Congenital Anomalies	7	3.3
	3. Cancer	6	2.9
	4. Pneumonia & Influenza	4	*
	5. Homicide	3	*
	<i>All causes</i>	70	33.3
5 - 14 years	1. Accidents	38	6.9
	2. Cancer	12	2.2
	3. Congenital Anomalies	7	1.3
	4-6. Diseases of the Heart-Suicide-Pneumonia and Influenza	2	*
	<i>All causes</i>	81	14.7
15 - 24 years	1. Accidents	106	20.0
	2. Suicide	18	3.4
	3. Homicide	13	2.5
	4. Cancer	11	2.1
	5. Diseases of the Heart	9	1.7
	<i>All causes</i>	201	38.0
25 - 34 years	1. Accidents	89	14.8
	2. Cancer	69	11.4
	3. Suicide	33	5.5
	4. Diseases of the Heart	31	5.1
	5. Homicide	17	2.8
	<i>All causes</i>	367	60.8
35 - 49 years	1. Cancer	548	58.4
	2. Diseases of the Heart	202	21.5
	3. Accidents	138	14.7
	4. Stroke	68	7.2
	5. Suicide	66	7.0
	<i>All causes</i>	1,432	152.7
50 - 64 years	1. Cancer	1,594	281.1
	2. Diseases of the Heart	753	132.8
	3. Chronic Obstructive Pulmonary Diseases & Allied Conditions	160	28.2
	4. Stroke	153	27.0
	5. Diabetes Mellitus	126	22.2
	<i>All causes</i>	3,517	620.1
65 and over	1. Diseases of the Heart	11,366	1,839.4
	2. Cancer	5,832	943.8
	3. Stroke	2,775	449.1
	4. Chronic Obstructive Pulmonary Diseases & Allied Conditions	1,312	212.3
	5. Pneumonia & Influenza	1,448	234.3
	<i>All causes</i>	29,989	4,853.1

Note: Subtotals by sex and race do not add to the grand total as the race was not stated on records for 17 males and 12 females. Age groups do not add to respective totals because records with age not stated are included only in the "All Ages" row. 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. Cause-specific rates are per 100,000 population. 1995 estimated population is used to calculate 1996 rates. Asterisk (*) indicates that data do not meet standards of reliability or precision.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 2.19
Leading Causes of Death and Cause-Specific Rates by Age
 Michigan Resident Black Females, 1996

Age	Rank and Cause of Death	Number	Rate
All ages	1. Diseases of the Heart	1,799	243.7
	2. Cancer	1,233	167.0
	3. Stroke	392	53.1
	4. Diabetes Mellitus	235	31.8
	5. Pneumonia & Influenza	178	24.1
	<i>All causes</i>	5,533	749.4
<1 year	1. Certain Conditions Originating in the Perinatal Period	115	779.0
	2. Sudden Infant Death Syndrome	29	196.4
	3. Congenital Anomalies	26	176.1
	4. Pneumonia & Influenza	4	*
	5. Accidents	3	*
	<i>All causes</i>	194	1,314.1
1 - 4 years	1. Accidents	12	22.8
	2. Homicide	9	17.1
	3. Congenital Anomalies	8	15.2
	4. Cancer	3	*
	5. Pneumonia & Influenza	2	*
	<i>All causes</i>	39	74.1
5 - 14 years	1. Accidents	8	6.6
	2. Homicide	4	*
	3-4. Chronic Obstructive Pulmonary Disease & Allied Conditions-Cancer	3	*
	5-9. Congenital Anomalies-Diseases of the Heart-AIDS-Stroke-Benign Neoplasms	1	*
	<i>All causes</i>	26	21.3
	15 - 24 years	1. Homicide	18
2. Accidents		17	14.4
3. Cancer		11	9.3
4-6. Diseases of the Heart-Chronic Obstructive Pulmonary Disease & Allied Conditions-Pneumonia & Influenza		4	*
<i>All causes</i>		84	71.1
25 - 34 years		1. Homicide	34
	2. Accidents	18	15.8
	3-4. Cancer-Diseases of the Heart	16	14.0
	5. AIDS	9	7.9
	<i>All causes</i>	152	133.0
	35 - 49 years	1. Cancer	151
2. Diseases of the Heart		127	78.4
3. Stroke		38	23.5
4. Homicide		34	21.0
5. Accidents		29	17.9
<i>All causes</i>		636	392.7
50 - 64 years	1. Diseases of the Heart	291	366.0
	2. Cancer	290	364.7
	3. Stroke	49	61.6
	4. Diabetes Mellitus	46	57.9
	5. Chronic Liver Disease & Cirrhosis	25	31.4
	<i>All causes</i>	903	1,135.7
65 and over	1. Diseases of the Heart	1,357	1,803.7
	2. Cancer	759	1,008.8
	3. Stroke	294	390.8
	4. Diabetes Mellitus	168	223.3
	5. Pneumonia & Influenza	126	167.5
	<i>All causes</i>	3,497	4,648.1

Note: Subtotals by sex and race do not add to the grand total as the race was not stated on records for 17 males and 12 females. Age groups do not add to respective totals because records with age not stated are included only in the "All Ages" row. 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. Cause-specific rates are per 100,000 population. 1995 estimated population is used to calculate 1996 rates. Asterisk (*) indicates that data do not meet standards of reliability or precision.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

YEARS OF POTENTIAL LIFE LOST BELOW AGE 75

The years of potential life lost below age 75 is a measure of mortality designed to emphasize mortality which is prevalent among people under age 75. The number of years of potential life lost is calculated as the number of years between the age at death and 75 years of age for persons dying before their 75th year.

Table 2.20 displays the rates of years of potential life lost to the Michigan population in 1996 for selected causes of death, 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 2.13. Diseases of the heart was the leading cause of death but was

the second leading cause of years of potential life lost below age 75. Cancer was the leading cause of years of potential life lost below age 75 in Michigan but was the second leading cause of death. Accidents and adverse effects, which was the fifth leading cause of death, was the third leading cause of years of potential life lost. Chronic obstructive pulmonary disease, diabetes mellitus and pneumonia and influenza which were among the 10 leading causes of death, were not among the 10 leading causes of years of potential life lost below age 75.

Rankings of the leading causes of potential life lost were similar for Michigan and the United States, with the exception of deaths due to AIDS which ranked fourth nationally but was ranked seventh in Michigan.

Table 2.20
Rates of Years of Potential Life Lost Below Age 75
Due to the Ten Leading Causes of Death and Selected Other Causes
Michigan Residents, 1996

Michigan Rank	Cause of Death	Rates of Years of Potential Life Lost			1995 U.S. Rank
		Total	Male	Female	
1	Cancer	1,729.3	1,827.1	1,633.8	1
2	Diseases of the Heart	1,459.9	1,984.2	948.6	2
3	Accidents and Adverse Effects	942.3	1,309.2	584.6	3
4	Homicide	379.8	600.4	164.6	5
5	Suicide	364.8	598.7	136.8	6
6	Stroke	238.2	251.8	224.9	7
7	AIDS	201.0	345.7	60.0	4
8	Chronic Obstructive Pulmonary Diseases and Allied Conditions	186.6	193.9	179.4	8
9	Chronic Liver Disease and Cirrhosis	179.2	260.0	100.4	10
10	Diabetes Mellitus	165.8	169.9	161.9	9
11	Pneumonia and Influenza	146.2	165.6	127.2	11

Note: Rates are per 100,000 population. Records with sex unspecified are included only in the total column. The U.S. rank is based on a 10 percent sample of provisional data.

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH Health, United States 1996-1997, Table 32.

INFANT DEATHS

Trends Of the 83,496 deaths occurring to Michigan residents in 1996, 1,072 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 infant deaths for every 1,000 live births (Figure 2.7). This rate fell below 100 by 1914 (96.8), to less than 70 by 1927 (67.7), to less than 50 by 1935 (47.7).

During the 1940's the Michigan infant death rate declined from 40.6 in the 1940s to 28.9 in 1949. Relative declines in the infant death rate slowed considerably in the 1950s and 1960s (Table 2.21). It was not until 1971 that the rate dropped below 20 (to 19.5). The rate of decline since 1970 compares favorably with the rate of decline observed before 1950. By 1993 the rate had fallen below 10 (to 9.5) and continued to decline to 8.0 in 1996. In the six years since 1990, the infant death rate has fallen 25 percent.

Michigan and United States Comparison During the period 1915-1928, the infant mortality rate for Michigan was above that for the United States for 9 of these 14 years. From 1929 through 1969, Michigan's infant death rate was consistently below the national rate. From 1970 through 1975 the infant mortality rate in Michigan was slightly higher than the rate for the nation. From 1976 through 1980 the rates for the state and nation were similar. Since

Table 2.21
Infant Deaths and Infant Death Rates
 Michigan and United States Residents
 Selected Years, 1950 - 1996

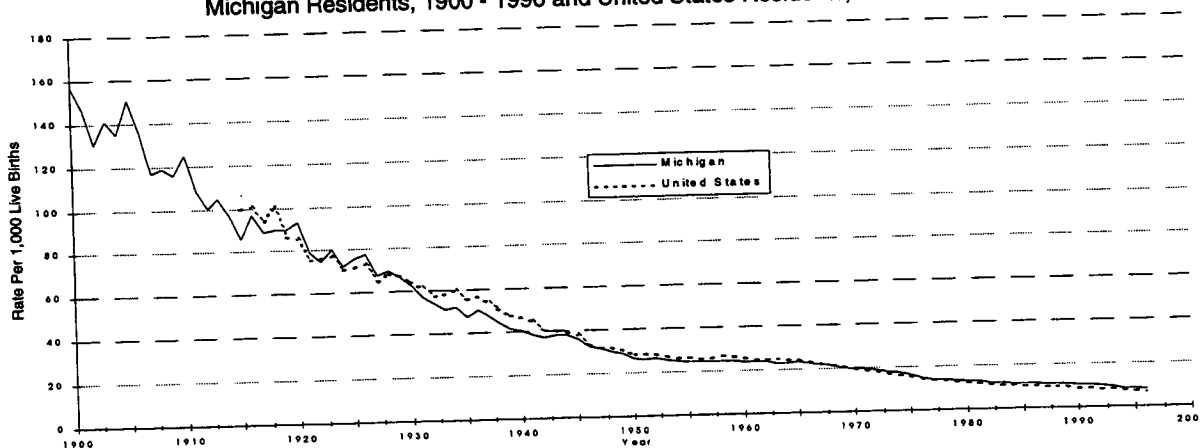
United States		Year	Michigan	
Number	Rate		Number	Rate
103,825	28.6	1950	4,230	26.4
110,873	26.0	1960	4,704	24.1
74,667	20.0	1970	3,492	20.3
45,526	12.6	1980	1,851	12.8
38,351	9.2	1990	1,638	10.7
36,766	8.9	1991	1,554	10.4
34,628	8.5	1992	1,460	10.2
33,466	8.4	1993	1,319	9.5
31,710	8.0	1994	1,184	8.6
29,203	7.6	1995	1,110	8.3
28,237Pr	7.2Pr	1996	1,072	8.0

Note: Rates are per 1,000 live births.

Source: 1950-1996 Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH
 Monthly Vital Statistics Report, National Center for Health Statistics

1980 the rate for Michigan has been 5 to 20 percent above the national rate. The provisional rate for the United States in 1996 was 7.2 infant deaths per 1,000 live births. The Michigan rate of 8.0 was 11 percent higher than the national provisional rate in 1996 (Table 2.21).

Figure 2.7
Infant Mortality Rates
 Michigan Residents, 1900 - 1996 and United States Residents, 1915 - 1996



Note: Rates are per 1,000 live births. United States data for 1996 is provisional.

Source: 1900-1996 Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH
 Monthly Vital Statistics Report, National Center for Health Statistics

Early Infant Deaths Table 2.22 shows the numbers of infant deaths and infant death rates for Michigan by age at death for the period 1970-1996. The number of infants who died during the first week of life in 1996 (570) is greater than the number of deaths of infants aged 7-364 days (502). In 1996, 66 percent of all Michigan infant deaths occurred

within the first four weeks of life and 41 percent occurred to infants less than one day old.

A review of Table 2.22 reveals that the 38 percent decline in the infant mortality rate since 1980 stems largely from reductions in the rate of death for those under one week of age.

Table 2.22
Infant Deaths and Infant Death Rates by Age at Death
 Michigan Residents, Selected Years, 1970 - 1996

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
1980	1,851	12.8	790	5.4	310	2.1	184	1.3	567	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
1996	1,072	8.0	444	3.3	126	0.9	133	1.0	369	2.8

Note: Infant death rates are per 1,000 live births.

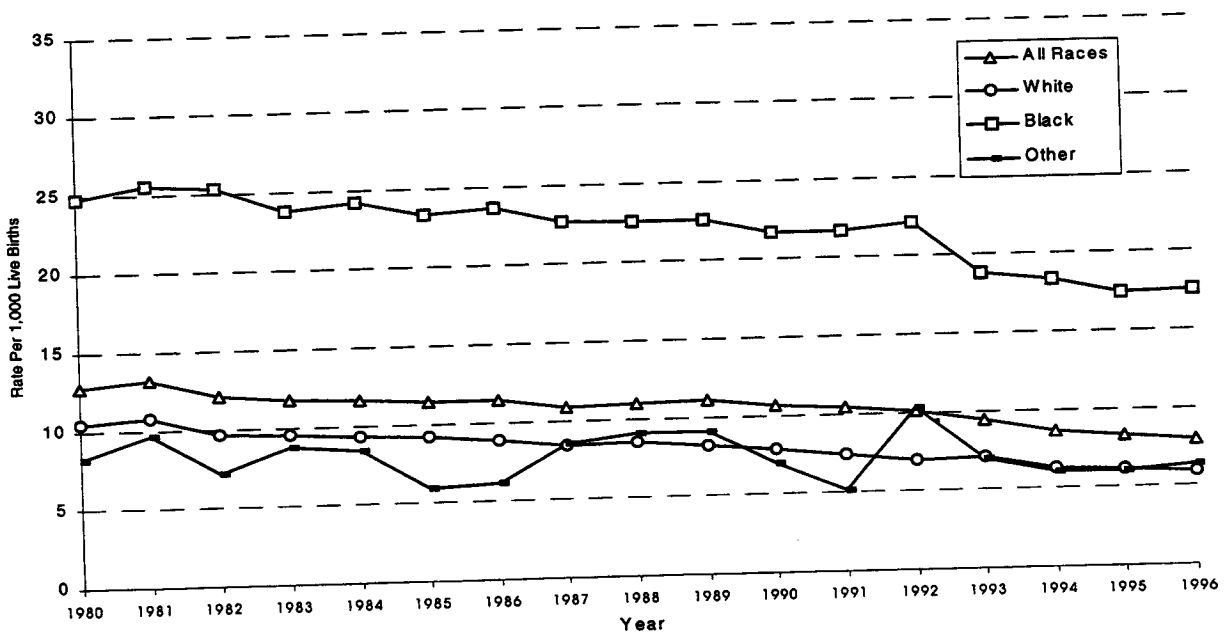
Source: 1970-1996 Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH

Trends in Infant Deaths by Race Infant death rates by race for the years 1980 through 1996 are displayed in Figure 2.8. The rates were calculated using the race of the infant on the death certificate as the numerator and the race of the mother as indicated on the infant's birth record as the denominator.

Black infant death rates were higher than rates for other racial groups throughout the period. The white infant mortality rate dropped 42 percent between

1980 and 1996, while for black infants the decline was 29 percent. The decline in black infant death rates was 21 percent from 1992 to 1996. The white infant death rate fell 14 percent from 1992 to 1996. The rate for black infants of 24.8 in 1980 was 2.4 times higher than that for white infants (10.4). By 1996 the mortality rate for black infants (17.5) was 2.9 times higher than the rate for white infants (6.0) due to the slower decline in the mortality rates experienced by black infants than white infants during the 17-year period.

Figure 2.8
Infant Death Rates by Race
 Michigan Residents, 1980 - 1996



Note: Rates are per 1,000 live births.

Source: 1980-1996 Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH

Infant Death Rates In Table 2.23 infant, hebdomadal, fetal and perinatal deaths are presented by race and ancestry. The infant mortality rates for black infants was 2.9 times higher than the rate for white infants. Rates for black and American Indian infants and infants of Arab and Hispanic ancestry were higher than the white rate.

Hebdomadal Death Rates The death rate during the first week of life was also 2.9 times higher for black infants than white infants. It was somewhat

higher for Arab, Hispanic and races other than white or black.

Fetal Death Rates The fetal death rates were higher for births to black mothers than white mothers. Fetal death rates were lowest for births to Hispanic, Arab and races other than white or black mothers.

Perinatal Death Rates Perinatal deaths are fetal deaths plus hebdomadal deaths. Perinatal death rates were 2.3 times higher for fetuses and infants born to black mothers than white mothers.

Table 2.23
Infant, Hebdomadal, Fetal and Perinatal Death Rates by Specified Race and Ancestry
Michigan Residents, 1996

Race/Ancestry	Live Births	Infant Deaths		Hebdomadal Deaths		Fetal Deaths		Perinatal Deaths	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate
<i>All races</i>	133,231	1,072	8.0	570	4.3	759	5.7	1,329	9.9
White	104,922	627	6.0	337	3.2	506	4.8	843	8.0
Black	24,073	421	17.5	221	9.2	224	9.2	445	18.3
Races other than white or black	3,307	21	6.4	12	3.6	12	3.6	24	7.3
Unknown	929	3	*	-	-	17	18.0	17	18.0
Arab	2,784	17	6.1	10	3.6	13	4.6	23	8.2
Hispanic	5,035	39	7.7	19	3.8	23	4.5	42	8.3

Note: Infant death and hebdomadal rates are per 1,000 live births. Fetal death and perinatal death rates are per 1,000 live births plus fetal deaths. Rates are calculated using live births by race/ancestry of mother as denominator. Live births are by the race/ancestry of the mother on the birth certificate. Hebdomadal deaths are deaths to infants ages zero to six days. Infant and hebdomadal deaths are by the race on the death certificate. Fetal deaths are by the race of the mother on the fetal death certificate. Perinatal deaths are hebdomadal plus fetal deaths. Perinatal deaths are by mother's race/ancestry on the fetal death certificate or the infant's race/ancestry on the death certificate. Asterisk (*) indicates that data do not meet the standards of precision or reliability.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Death File, Fetal Death File and Birth File, Division for Vital Records and Health Statistics, MDCH

Causes of Infant Deaths Michigan resident infant deaths in 1996 are listed by cause of death classification and age at death in Table 2.24. Disorders relating to short gestation and unspecified low birthweight was listed as the cause of 202 deaths and was the specific disease category most frequently reported. Congenital anomalies was the second leading cause of death to infants, accounting for 189 deaths. Sudden infant death syndrome was responsible for 149 infant deaths in 1996. Over half of all infant deaths were attributed to these three conditions in 1996.

Causes of Neonatal Deaths 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.

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 38 percent of the deaths to infants from 1-5 months of age. Sudden infant death syndrome was also the leading cause from 6-11 months of age, accounting for 30 percent of these deaths.

Causes of Death by Race The cause specific infant death rates were higher for blacks in all cause categories than for whites. Disorders relating to short gestation, congenital anomalies and sudden infant death syndrome were the causes of over 50 percent of the black and white infant deaths (Table 2.25). The rate of infant deaths due to sudden infant death syndrome for black infants was 286 percent or almost 4 times higher than the rate for white infants.

Causes of Death for Male and Female Infants The death rate for male infants was 17 percent greater than that for female infants (Table 2.26). Death rates for males were higher in all cause categories, except for disorders relating to short gestation and unspecified low birthweight, where the rate for females were 15 percent higher than the male rate.

Table 2.24
Infant Deaths by Age at Death and Underlying Cause
 Michigan Residents, 1996

Cause of Death (ICD-9 Codes)	Age at Death					
	Total <1 Year	<1 Day	1 - 6 Days	7 - 27 Days	1 - 5 Months	6 - 11 Months
Disorders relating to short gestation and unspecified low birthweight (765)	202	190	7	2	3	-
Congenital anomalies (740-759)	189	79	25	29	50	6
Sudden infant death syndrome (798.0)	149	-	1	12	118	18
Respiratory distress syndrome (769)	74	19	25	18	12	-
Other respiratory conditions of newborn (770)	71	36	11	11	11	2
Accidents and adverse effects (E800-E949)	36	-	1	2	19	14
Homicide (E960-E969)	10	1	-	-	7	2
All other causes	341	119	56	59	89	18
Total	1,072	444	126	133	309	60

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 2.25
Infant Deaths and Infant Death Rates by Race and Underlying Cause
 Michigan Residents, 1996

Cause of Death (ICD-9 Code)	Race							
	All Races		White		Black		All Other Races	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Disorders relating to short gestation and unspecified low birthweight (765)	202	151.6	99	94.4	96	398.8	7	211.7
Congenital anomalies (740-759)	189	141.9	136	129.6	49	203.5	4	*
Sudden infant death syndrome (798.0)	149	111.8	78	74.3	69	286.6	2	*
Respiratory distress syndrome (769)	74	55.5	44	41.9	26	108.0	2	*
Other respiratory conditions of newborn (770)	71	53.3	36	34.3	34	141.2	1	*
Accidents and adverse effects (E800-E949)	36	27.0	24	22.9	12	49.8	-	-
Homicide (E960-E969)	10	7.5	6	5.7	4	*	-	-
All other causes	341	255.9	204	194.4	131	544.2	5	*
<i>Total</i>	1,072	804.6	627	597.6	421	1,748.8	21	635.0

Note: Rates are per 100,000 live births. Numbers of infant deaths are by race of infant; rates are calculated using live births by race of mother as the denominator. Records with race not stated are included only in the "All Races" column. Asterisk (*) indicates that data do not meet the standards of precision or reliability.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 2.26
Infant Deaths and Infant Death Rates by Sex of Infant and Underlying Cause
 Michigan Residents, 1996

Cause of Death (ICD-9 Code)	Sex of Infant					
	Total		Male		Female	
	Number	Rate	Number	Rate	Number	Rate
Disorders relating to short gestation and unspecified low birthweight (765)	202	151.6	96	140.7	105	161.5
Congenital anomalies (740-759)	189	141.9	97	142.2	92	141.5
Sudden infant death syndrome (798.0)	149	111.8	91	133.4	58	89.2
Respiratory distress syndrome (769)	74	55.5	48	70.4	26	40.0
Other respiratory conditions of newborn (770)	71	53.3	38	55.7	33	50.8
Accidents and adverse effects (E800-E949)	36	27.0	27	39.6	9	13.8
Homicide (E960-E969)	10	7.5	7	10.3	3	*
All other causes	341	255.9	186	272.7	155	238.4
<i>Total</i>	1,072	804.6	590	865.0	481	739.8

Note: Rates are per 100,000 live births. Numbers of infant deaths are by sex of infant; rates are calculated using live births by sex as the denominator. Records with sex not stated are included only in the "Total" column. Asterisk (*) indicates that data do not meet the standards of precision or reliability.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Infant Deaths by Birth Characteristics Infants that died in 1996 were born in 1995 or 1996. These infants can be characterized by the information on their birth certificates. Death rates are calculated using birth characteristics of 1996 live births and 1996 infant deaths.

Infant Deaths by Mother's Age In 1996, the mortality rates were lower for infants born to white women over 19 years of age, than for infants born to white women under 20 years of age. The mortality rates for infants born to black women between 20 and 29 years of age were lower than the rates for infants born to black women less than 20 and over 29 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 2.27
Infant Deaths, Live Births and Infant Death Rates by Age and Race of Mother
Michigan Residents, 1996

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	1,072	133,231	8.0	627	104,922	6.0	421	24,073	17.5	21	3,307	6.4
<15	6	330	18.2	3	122	*	3	201	*	-	6	-
15 - 19	192	15,899	12.1	89	10,166	8.8	95	5,376	17.7	7	298	23.5
20 - 24	281	31,231	9.0	146	22,699	6.4	128	7,683	16.7	6	706	8.5
25 - 29	281	39,286	7.2	191	32,420	5.9	87	5,523	15.8	3	1,053	*
30 - 39	291	44,202	6.6	183	37,632	4.9	102	4,981	20.5	5	1,179	*
40+	11	2,256	4.9	7	1,864	3.8	4	303	*	-	65	-

Note: Rates are per 1,000 live births. Records with age of mother not stated are included only in "All Ages" row. Records with race not stated are included only in the "All Races" column. Numbers of infant deaths are by race of infant; rates are calculated using live births by race of mother as the denominator. Asterisk (*) indicates that data do not meet the standards of precision or reliability.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Birth and Infant Death Matched Files, Division for Vital Records and Health Statistics, MDCH

Infant Deaths by Adequacy of Prenatal Care
 Infant death rates increased when the pregnant women received less than adequate prenatal care as measured by the Kessner Index (Table 2.28). The infant death rate was 3 times greater for pregnant women with inadequate care (19.1 deaths per 1,000 live births) than for pregnant women with adequate care (6.3 deaths per 1,000 live births) in 1996.

The pattern was similar for both white and black infants. When the pregnant women 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 (14.1) was still 2.8 times greater than for infants born to white pregnant women (5.1 deaths per 1,000 live births).

Table 2.28
Infant Deaths, Live Births and Infant Death Rates by Level of Prenatal Care and Race
 Michigan Residents, 1996

Level of Care (Kessner Index)	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	1,072	133,231	8.0	627	104,922	6.0	421	24,073	17.5	21	3,307	6.4
Adequate	635	100,566	6.3	427	83,771	5.1	196	13,877	14.1	11	2,321	4.7
Intermediate	188	20,160	9.3	99	14,210	7.0	83	5,204	15.9	5	608	*
Inadequate	225	11,792	19.1	82	6,562	12.5	137	4,692	29.2	5	358	*

Note: Rates are per 1,000 live births. 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. Numbers of infant deaths are by race of infant; rates are calculated using live births by race of mother as the denominator. 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. Asterisk (*) indicates that data do not meet the standards of precision or reliability.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Birth and Infant Death Matched Files, Division for Vital Records and Health Statistics, MDCH

Infant Deaths by Birthweight Infant death rates by race, birthweight and age at death are displayed in Table 2.29. While the overall infant death rate for black infants was 2.9 times that of white infants, the rate for black infants born weighing less than 750 grams was only 1.2 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 2.9 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 women were born at weights below 2,500 grams (13.6 percent for infants born to black women compared to 6.4 percent for infants born to white women).

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 1.2 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 more than 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 2.29
Live Births, Infant Deaths and Infant Death Rates by Birthweight, Age at Death and Race
Michigan Residents, 1996

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	133,231	1,072	8.0	703	5.3	369	2.8
	White	104,922	627	6.0	410	3.9	217	2.1
	Black	24,073	421	17.5	279	11.6	142	5.9
	All Other	3,307	21	6.4	14	4.2	7	2.1
<750 grams	All Races	703	448	637.3	409	581.8	39	55.5
	White	381	226	593.2	204	535.4	22	57.7
	Black	296	211	712.8	194	655.4	17	57.4
	All Other	15	11	733.3	11	733.3	-	-
750 - 1,499 grams	All Races	1,332	136	102.1	91	68.3	45	33.8
	White	839	86	102.5	62	73.9	24	28.6
	Black	465	43	92.5	28	60.2	15	32.3
	All Other	20	4	*	1	*	3	*
1,500 - 2,499 grams	All Races	8,193	134	16.4	70	8.5	64	7.8
	White	5,453	90	16.5	53	9.7	37	6.8
	Black	2,519	40	15.9	15	6.0	25	9.9
	All Other	162	4	*	2	*	2	*
2,500+ grams	All Races	122,671	321	2.6	105	0.9	216	1.8
	White	98,045	200	2.0	70	0.7	130	1.3
	Black	20,695	119	5.8	35	1.7	84	4.1
	All Other	3,101	2	*	-	-	2	*

Note: Infant death rates are per 1,000 live births. Records with birthweight not stated are included only in the "Total" row. Records with race not stated are included only in the "All races" rows. Numbers of infant deaths are by race of infant; rates are calculated using live births by race of mother as the denominator. Asterisk (*) indicates that data do not meet the standards of precision or reliability.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Birth and Infant Death Matched Files, Division for Vital Records and Health Statistics, MDCH

Causes of Death by Maternal Smoking Status and Race The infant mortality rate for infants born to white women who reportedly smoked or used tobacco products during their pregnancy was 80 percent higher than the rate for infants born to white women who reportedly did not smoke during their pregnancy. Similarly, the rate for infants born to black women who reportedly smoked was 79 percent higher (Table 2.30).

Death rates were higher for most causes if the woman smoked during her pregnancy. The rate of death due to disorders relating to short gestation/low birthweight were 1.5 times higher for black women who did not smoke but the SIDS rates were 4.3 times higher for women who smoked. Infants born to black women who smoked had death rates 2.6 times higher for deaths due to congenital anomalies and 4.1 times higher for deaths due to SIDS than rates for infants born to non-smoking black women. SIDS rates for white infants were 3.6 times greater to women who smoked while pregnant than for women who did not smoke.

Table 2.30
**Infant Deaths and Infant Death Rates by Race of Mother,
 Smoking Status During Pregnancy and Underlying Cause of Death
 Michigan Residents, 1996**

Cause of Death (ICD-9 Code)	All Races				White				Black			
	Smokers		Non-smokers		Smokers		Non-smokers		Smokers		Non-smokers	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Sudden infant death syndrome (798.0)	63	2.7	84	0.8	35	1.8	43	0.5	28	7.7	39	1.9
Congenital anomalies (740-759)	44	1.9	135	1.2	28	1.5	100	1.2	15	4.1	32	1.6
Disorders relating to short gestation and unspecified low birthweight (765)	31	1.3	155	1.4	20	1.1	71	0.8	10	2.8	78	3.8
Respiratory distress syndrome (769)	12	0.5	61	0.6	8	0.4	35	0.4	3	*	23	1.1
Other respiratory conditions of newborn (770)	19	0.8	46	0.4	11	0.6	21	0.2	8	2.2	24	1.2
Other Perinatal Conditions (760-764, 766-768, 771-779)	9	0.4	42	0.4	6	0.3	22	0.3	3	*	20	1.0
Accidents and adverse effects (E800-E949)	10	0.4	26	0.2	9	0.5	15	0.2	1	*	11	0.5
All other causes	82	3.6	200	1.8	51	2.7	117	1.4	29	8.0	79	3.9
<i>Total</i>	270	11.7	749	6.8	168	8.8	424	4.9	97	26.8	306	15.0

Note: Infant death rates per 1,000 live births. Numbers of infant deaths are by race of infant; rates are calculated using live births by race of mother as denominator. Records with cause of death pending are included only in the "Total" row. Records for other races or with race not stated are included only in the "All Races" column. Asterisk (*) indicates that data do not meet the standards of precision or reliability. Records with mother's smoking status not stated are not included on this table.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Birth File and Infant Death Matched File. Division for Vital Records and 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 1996, Michigan resident perinatal deaths numbered 1,329 and the perinatal death rate was 9.9 per 1,000 total births (Table 2.31). As with infant death rates, perinatal death rates vary considerably with race and age of woman. The overall perinatal mortality rate for black fetuses and infants was 2.3 times the rate for white fetuses and infants.

There was an increased risk of a perinatal death for women under 20 years of age and over 40 years. These rates are lowest for white women ages 20-24

years. Rates for black women increased with woman's age.

Perinatal Deaths by Adequacy of Prenatal Care
The perinatal death rates increased for women with less than adequate prenatal care (Table 2.32). The death rate was 3.4 times higher for women with inadequate care than for women with adequate care (23.3 vs. 6.9 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 born to white women.

Table 2.31
Perinatal Deaths, Total Births and Perinatal Death Rates by Age and Race of Mother
Michigan Residents, 1996

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	1,329	133,990	9.9	843	105,428	8.0	445	24,297	18.3	24	3,319	7.2
<15	4	331	*	2	122	*	2	202	*	-	6	-
15 - 19	169	15,981	10.6	84	10,209	8.2	81	5,415	15.0	4	298	*
20 - 24	285	31,371	9.1	158	22,787	6.9	118	7,731	15.3	6	707	8.5
25 - 29	358	39,478	9.1	258	32,562	7.9	90	5,565	16.2	8	1,059	7.6
30 - 39	395	44,442	8.9	263	37,798	7.0	124	5,048	24.6	4	1,182	*
40+	27	2,277	11.9	22	1,881	11.7	3	305	*	1	66	*

Note: Records with age of mother not stated are included only in "All Ages" row. Records with race not stated are included only in the "All Races" column. 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. Asterisk (*) indicates that data do not meet the standards of precision or reliability.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Infant Death Matched File, Fetal Death File and Birth File, Division for Vital Records and Health Statistics, MDCH

Table 2.32
Perinatal Deaths, Total Births and Perinatal Death Rates by Level of Prenatal Care and Race of Mother
Michigan Residents, 1996

Level of Care (Kessner Index)	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	1,329	133,990	9.9	722	105,428	6.8	337	24,297	13.9	18	3,319	5.4
Adequate	695	100,926	6.9	502	84,057	6.0	177	13,941	12.7	13	2,328	5.6
Intermediate	231	20,309	11.4	155	14,316	10.8	71	5,244	13.5	3	609	*
Inadequate	278	11,934	23.3	119	6,621	18.0	146	4,766	30.6	7	361	19.4

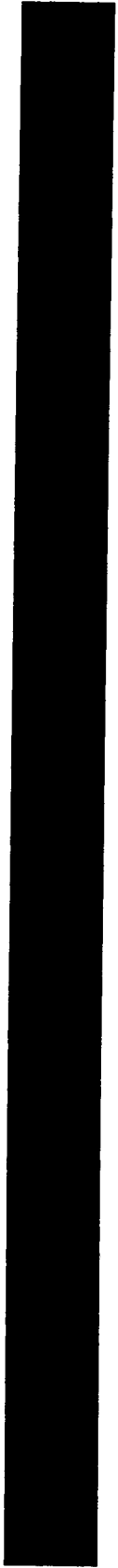
Note: Records with race not stated are included only in the "All Races" column. Records with unknown level of care are included only in the "Total" row. Numbers of infant deaths are by race of infant; rates are calculated using the sum of live births and fetal deaths by race of mother as the denominator. 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). Asterisk (*) indicates that data do not meet the standards of precision or reliability.

Care should be taken in drawing inferences from rates based on small numbers of events or a small population base. These rates tend to exhibit considerable variation which may negate their usefulness for comparative purposes.

Source: 1996 Michigan Resident Infant Death Matched File, Fetal Death and Birth File, Division for Vital Records and Health Statistics, MDCH

MARRIAGE & DIVORCE

SECTION III



MARRIAGE AND DIVORCE

KEY TRENDS

An Overview, 1996

Total Marriages	68,598
Total Divorces and Annulments	38,169
Marriage Rate (persons involved per 1,000 population)	14.4
Divorce Rate (persons involved per 1,000 population)	8.0
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
Estimated Number of Children Involved in Divorce	37,102

Source: 1996 Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and 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 1996 there were 68,598 marriages, the lowest number since 1968. The marriage rate in 1996 was 14.4 per 1,000 population, a three percent decline from the 1995 rate of 14.9.

The number of divorces and annulments increased from a low of 2,435 in 1900 to a high of 45,047 in 1980. In 1996 the number of divorces and annulments was 38,169. The divorce rate was 8.0 per 1,000 population, an 18 percent decrease since 1980. An estimated 37,102 children less than 18 years of age were involved in a divorce in 1996.

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 1930s.

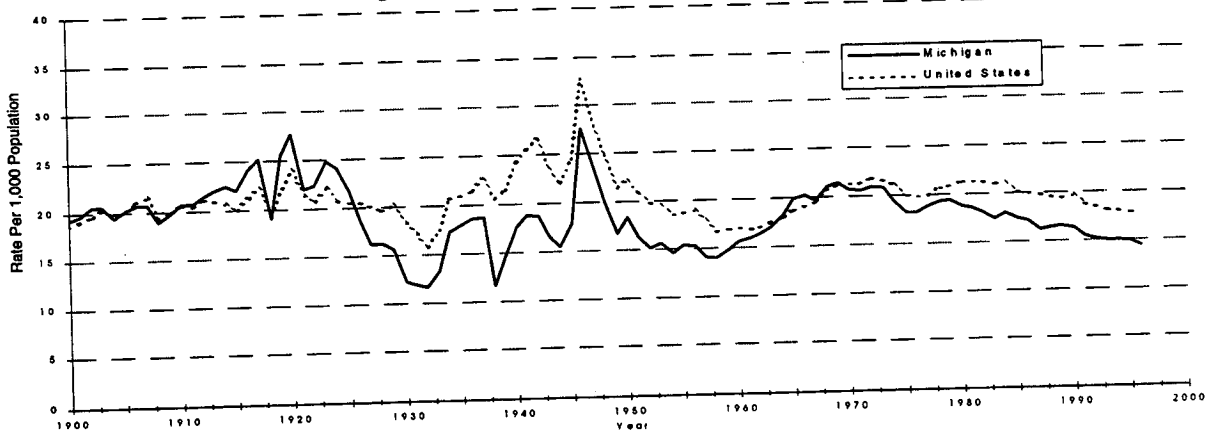
The number of persons married each year per 1,000 population was higher in Michigan than in the country for 19 of the 26 years from 1900 through 1925. Since 1926, Michigan's marriage rate has been lower than the national rate, except during 1964 through 1969.

RESIDENCE OF COUPLES MARRYING IN MICHIGAN

When presenting birth and death statistics, it is possible to provide total resident figures due to an interstate agreement for exchange of nonresident event information. 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 1996, 95 percent of the brides were residents of Michigan, while 93 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.

Figure 3.1
Marriage Rates
Michigan and United States Occurrences, 1900-1996



Note: Rates are the number of persons married per 1,000 population. United States data for 1991-1996 are provisional.

Source: 1900-1996 Michigan Occurrence Marriage Files, Division for Vital Records and Health Statistics, MDCH
Monthly Vital Statistics Report, National Center for Health Statistics

MONTH OF MARRIAGE

The number of marriages occurring in Michigan varies with the seasons (Figure 3.2). The most popular months for marriages in 1996 were August, June and September, with 9,723, 9,298 and 7,857 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 22 percent of the number which occurred in August.

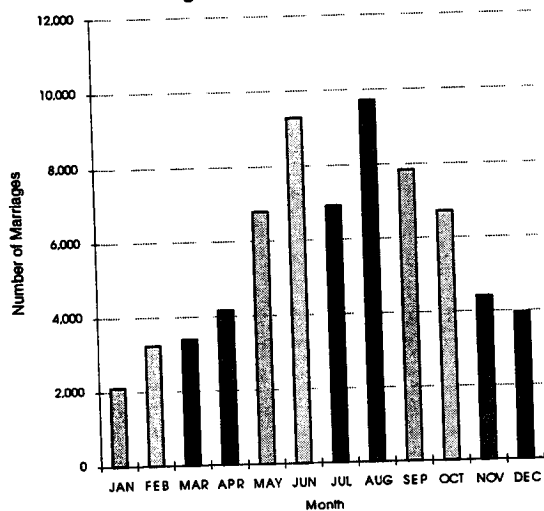
Table 3.1
Marriages and Marriage Rates
Michigan and United States Occurrences
Selected Years, 1900 - 1996

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
2,443,489	19.6	1990	76,099	16.3
2,371,000Pr	18.8Pr	1991	72,747	15.5
2,362,000Pr	18.5Pr	1992	71,322	15.1
2,334,000Pr	18.1Pr	1993	70,771	15.0
2,362,000Pr	18.1Pr	1994	70,966	15.0
2,336,000Pr	17.8Pr	1995	71,042	14.9
2,344,000Pr	17.7Pr	1996	68,598	14.4

Note: Rates are the number of persons married per 1,000 population. Beginning with 1978, marriage data for the U.S. 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: 1900-1996 Michigan Occurrence Marriage Files, Division for Vital Records and Health Statistics, MDCH
Monthly Vital Statistics Report, National Center for Health Statistics

Figure 3.2
Marriages by Month
Michigan Occurrences, 1996



Source: 1996 Michigan Occurrence Marriage File, Division for Vital Records and Health Statistics, MDCH

AGE AT MARRIAGE

Females generally marry at a younger age than do males (Table 3.2). The number of females who marry before the age of 20 was 2.7 times the corresponding number of males in 1996. Between ages 20 and 24, 32 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 1976, 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 nearly 80 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.

Table 3.2
Number of Marriages and Marriage Rates by Age and Sex
Michigan Occurrences, 1976, 1986 and 1996

Age in Years	Males				Females			
	1976 Rate	1986 Rate	1996		1976 Rate	1986 Rate	1996	
			Number	Rate			Number	Rate
<20	21.4	8.9	1,586	4.6	50.0	25.2	4,229	12.6
20 - 24	81.3	60.5	14,635	45.0	73.8	70.5	19,367	58.7
25 - 34	36.1	41.6	31,030	43.6	24.9	33.8	27,650	37.6
35 - 44	15.6	17.8	12,576	16.2	11.2	13.4	11,201	14.1
45+	6.4	6.0	8,770	6.2	3.7	3.1	6,150	3.7
<i>Total</i>	18.6	17.6	68,598	14.8	17.8	16.6	68,598	14.0
Median age at last birthday	29				27			

Note: Rates are the number of persons married per 1,000 population. The 15-19 population age group is used to calculate the rates for the marriages to persons under 20 years of age.

Source: 1976, 1986 and 1996 Michigan Occurrence Marriage Files, Division for Vital Records and Health Statistics, MDCH

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 1986 and 1996. The number of first marriages dropped 14 percent for women and 12 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 1986 and 1996. 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 1986 and 1996 the percentages of marriages which were first marriages increased for each age group.

Table 3.3
Number of Marriages of Brides by Age and Order of Marriage
Michigan Occurrences, 1986 and 1996

Age in Years	1986					1996				
	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	77,815	52,312	67.2	19,586	5,909	68,598	44,914	65.5	17,512	6,169
<20	9,470	9,388	99.1	78	2	4,229	4,203	99.4	25	1
20 - 24	27,974	25,938	92.7	1,967	68	19,367	18,408	95.0	931	27
25 - 29	18,018	12,416	68.9	4,976	626	17,727	14,258	80.4	3,182	286
30 - 34	9,205	3,286	35.7	4,721	1,197	9,923	4,932	49.7	4,165	826
35 - 39	5,472	856	15.6	3,202	1,412	6,729	2,029	30.2	3,373	1,327
40 - 44	3,037	218	7.2	1,789	1,029	4,472	739	16.5	2,307	1,425
45+	4,634	208	4.5	2,851	1,574	6,150	345	5.6	3,528	2,277
Not stated	5	2	40.0	2	1	1	-	-	1	-
Median age at last birthday	25	23	000	32	---	27	24	000	35	42

Source: 1986 and 1996 Michigan Occurrence Marriage Files, Division for Vital Records and Health Statistics, MDCH

Table 3.4
Number of Marriages of Grooms by Age and Order of Marriage
Michigan Occurrences, 1986 and 1996

Age in Years	1986					1996				
	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	77,815	51,372	66.0	20,214	6,221	68,598	45,138	65.8	17,649	5,810
<20	3,460	3,454	99.8	5	-	1,586	1,584	99.9	2	-
20 - 24	23,477	22,700	96.7	761	14	14,635	14,253	97.4	366	16
25 - 29	21,262	17,298	81.4	3,720	242	19,311	16,939	87.7	2,267	104
30 - 34	11,351	5,658	49.8	4,788	904	11,719	7,660	65.4	3,603	456
35 - 39	6,917	1,504	21.7	4,034	1,379	7,596	2,993	39.4	3,700	903
40 - 44	3,954	393	9.9	2,343	1,218	4,980	1,097	22.0	2,683	1,200
45+	7,390	363	4.9	4,561	2,464	8,770	611	7.0	5,028	3,131
Not stated	4	2	50.0	2	-	1	1	100.0	-	-
Median age at last birthday	27	25	000	36	---	29	26	000	38	45

Source: 1986 and 1996 Michigan Occurrence Marriage Files, Division for Vital Records and 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 1996.

The median age at first marriage in 1996 was 24 years 11 months for brides and 26 years 7 months for grooms.

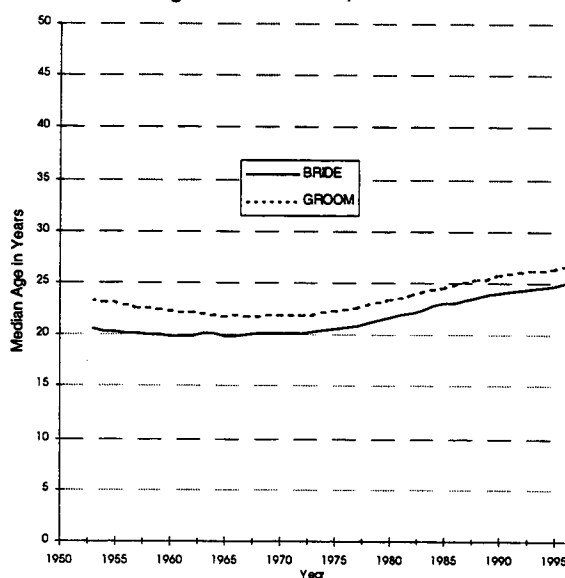
REMARRIAGES

The proportion of all marriages which were remarriages is displayed graphically in Figure 3.4 for the period 1960-1996. Between 1960 and 1965, the proportion of remarriages dropped. Since 1965, this proportion has increased.

The number of remarriages among brides decreased by 7 percent between 1986 and 1996, while the number of brides who had been married at least three times previously increased by 4 percent. Total remarriages for grooms decreased by 11 percent, while the number of third or higher order marriages decreased (7 percent).

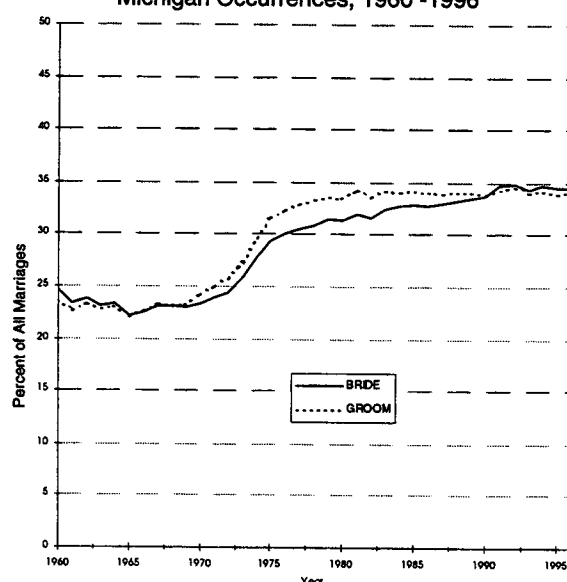
The median age at second and later marriages increased between 1986 and 1996 (Tables 3.3 and 3.4).

Figure 3.3
Median Age at First Marriage by Sex
Michigan Occurrences, 1953-1996



Source: 1953 through 1996 Michigan Occurrence Marriage Files, Division for Vital Records and Health Statistics, MDCH

Figure 3.4
Percent of All Marriages that are Remarriages
Michigan Occurrences, 1960-1996



Source: 1960 through 1996 Michigan Occurrence Marriage Files, Division for Vital Records and 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 38,169 in 1996. The 1996 frequency was 15 percent below the 1980 frequency. Nationally, the provisional number of divorces in 1996 was 1,150,000.

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 fluctuated between 8.3 and 8.7 from 1982 until 1995. The 1996 rate of 8.0 is the lowest since 1972.

The national rates generally followed the same pattern, reaching a provisional rate of 8.6 in 1996. Michigan's divorce rate was higher than that for the United States each year from 1900 through 1947. In the following 49 years the Michigan divorce rate has been at or below the national rate 42 times, including each of the past 26 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).

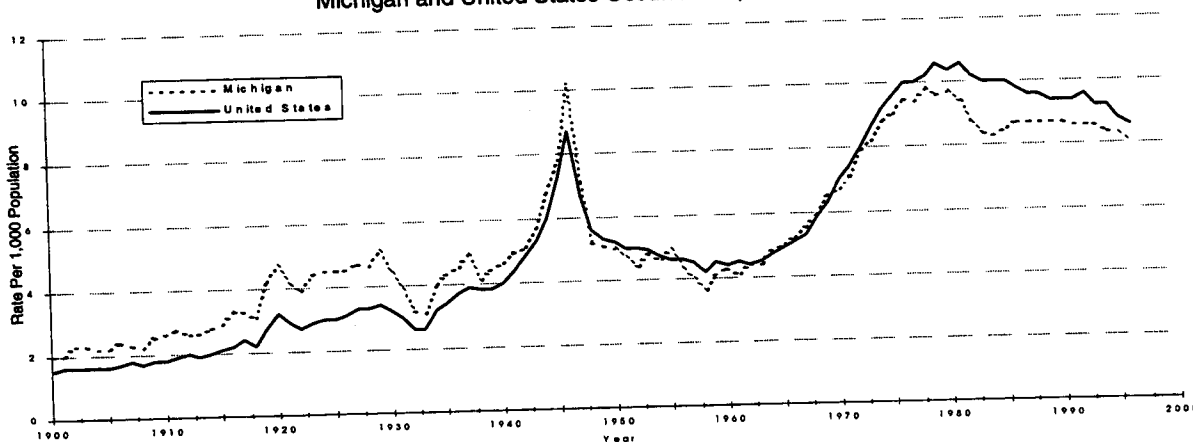
Table 3.5
Number of Divorces and Annulments
Divorce and Annulment Rates
 Michigan and United States Occurrences
 Selected Years, 1900 - 1996

United States		Year	Michigan	
Number	Rate		Number	Rate
56,000	1.5	1900	2,435	2.0
83,000	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
1,182,000	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
1,150,000Pr	8.6Pr	1996	38,169	8.0

Note: Rates are the number of persons whose marriage ended in divorce or annulment per 1,000 population.

Source: 1900-1996 Michigan Occurrence Divorce Files, Division for Vital Records and Health Statistics, MDCH
 Monthly Vital Statistics Report, National Center for Health Statistics

Figure 3.5
Divorce Rates
 Michigan and United States Occurrences, 1900-1996



Note: United States data for 1991-1996 are provisional.

Source: 1900-1996 Michigan Occurrence Divorce Files, Division for Vital Records and Health Statistics, MDCH
 Monthly Vital Statistics Report, National Center for Health Statistics

The number of children under 18 of couples dissolving marriages in 1996 was at least 37,102 (Table 3.6). This is 25 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 fluctuated between 15.0 and 16.3 per 1,000 children

until 1996 when it declined to 14.7. The average number of children per divorce has dropped from a high of 1.37 children in 1971 to 0.97 in 1996.

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 - 1996

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	---	---	---
37,102	0.97	14.7	1996	---	---	---

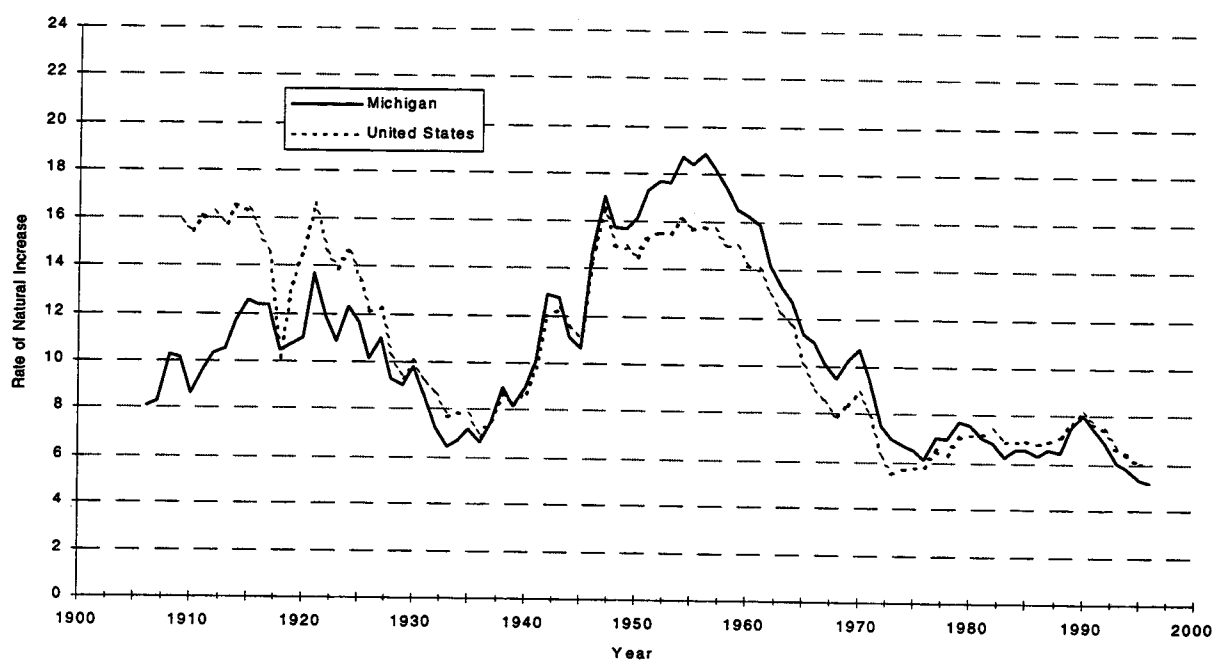
Source: 1960-1996 Michigan Occurrence Divorce Files, Division for Vital Records and Health Statistics, MDCH
Monthly Vital Statistics Report, National Center for Health Statistics

REFERENCE APPENDIX

SECTION IV



Figure 4.1
Rate of Natural Increase
 Michigan, 1906 - 1996 and the United States, 1909 - 1996



Note: The rate of natural increase is the excess of live births over deaths per 1,000 population. 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. 1995-1996 United States data are provisional.

Source: Michigan Resident Birth and Death Files, Division for Vital Records and Health Statistics, MDCH

Table 4.1
Population, Live Births, Deaths, Marriages and Divorces
Michigan, 1900 - 1996

Year	Population	Live Births	Deaths						Marriages	Divorces	
			All Ages	<1 Year	<28 Days	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	49,788	9,400
1925	4,255,347	98,983	49,417	7,498	4,022	3,476	6,667	3,670	629	46,276	9,650
1926	4,372,734	98,289	54,080	7,620	4,054	3,566	6,773	3,816	631	39,788	9,795
1927	4,490,121	99,940	50,600	6,766	3,915	2,851	6,794	3,834	667	36,276	10,617
1928	4,607,508	97,462	54,755	6,806	3,739	3,067	6,594	3,701	603	37,300	10,615
1929	4,724,895	98,695	56,117	6,605	3,777	2,828	6,613	3,710	617	36,816	12,094
1930	4,842,325	98,882	51,561	6,213	3,624	2,589	6,518	3,714	597	29,482	10,639
1931	4,883,703	90,547	49,068	5,187	3,084	2,103	5,643	3,220	539	28,856	9,507
1932	4,925,081	85,254	49,569	4,630	2,798	1,832	5,210	2,980	493	28,552	7,889
1933	4,966,459	80,482	48,507	4,094	2,591	1,503	4,906	2,776	447	33,132	7,671
1934	5,007,837	83,944	50,440	4,377	2,717	1,660	4,781	2,607	450	43,241	10,124
1935	5,049,216	87,403	51,051	4,170	2,550	1,620	4,832	2,717	438	45,313	10,844
1936	5,090,594	88,457	54,777	4,479	2,647	1,832	4,726	2,625	425	47,023	11,419
1937	5,131,972	91,566	53,468	4,374	2,700	1,674	4,919	2,707	326	47,954	12,472
1938	5,173,350	96,962	50,678	4,319	2,734	1,585	4,984	2,732	345	30,105	10,646
1939	5,214,728	94,432	52,017	3,952	2,594	1,358	4,706	2,572	280	37,725	11,589
1940	5,256,106	99,106	52,092	4,022	2,629	1,393	4,749	2,602	292	46,342	12,054
1941	5,437,546	107,498	52,671	4,166	2,687	1,479	4,991	2,769	298	50,989	13,317
1942	5,538,856	124,068	52,738	4,606	3,091	1,515	5,581	3,067	260	51,582	14,085
1943	5,377,329	125,441	56,774	4,804	2,979	1,825	5,563	3,213	237	44,385	15,259
1944	5,377,329	113,586	54,016	4,326	2,784	1,542	5,140	2,874	198	41,678	18,356
1945	5,435,092	111,557	53,641	4,008	2,670	1,338	4,906	2,703	166	48,329	21,133
1946	5,708,415	138,572	54,856	4,541	3,323	1,218	5,978	3,168	163	78,808	29,158
1947	6,069,000	160,275	56,807	5,055	3,677	1,378	6,583	3,422	173	71,319	21,386
1948	6,195,000	153,726	56,520	4,617	3,352	1,265	5,968	3,132	120	61,986	16,017
1949	6,352,000	156,469	57,107	4,520	3,232	1,288	5,746	2,994	105	53,109	16,274

Note: Deaths are exclusive of fetal deaths. Perinatal deaths include deaths under 1 week and fetal deaths. Divorces include annulments. 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. For years prior to 1950 deaths under 1 month of age are included in deaths under 28 days. 1974 divorce data is estimated.

Source: Michigan Resident Birth, Death and Fetal Death Files and Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Table 4.1 (continued)
Population, Live Births, Deaths, Marriages and Divorces
Michigan, 1900 - 1996

Year	Population	Live Births	Deaths							Marriages	Divorces
			All Ages	<1 Year	<28 Days	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	9,549,353	134,169	83,405	1,110	725	385	1,363	767	11	71,042	39,449
1996	9,549,353	133,231	83,496	1,072	703	369	1,329	759	5	68,598	38,169

Note: Deaths are exclusive of fetal deaths. Perinatal deaths include deaths under 1 week and fetal deaths. Divorces include annulments. 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. For years prior to 1950 deaths under 1 month of age are included in deaths under 28 days. 1974 divorce data is estimated.

Source: Michigan Resident Birth, Death and Fetal Death Files and Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Table 4.2
Live Birth Rates, Death Rates, Fetal Death Ratios, Marriage and Divorce Rates
 Michigan, 1900 - 1996

Year	Live Births	Deaths						Marriages	Divorces	
		All Ages	<1 Year	<28 Days	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

Note: Birth rate, death rate for all ages, rate of persons married and rate of persons divorced per 1,000 population. 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. 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. For years prior to 1950 deaths under 1 month of age are included in deaths under 28 days. 1974 divorce data is estimated. Asterisk (*) indicates that data do not meet the standards of precision or reliability.

Source: Michigan Resident Birth, Death and Fetal Death Files and Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Table 4.2 (continued)
 Live Birth Rates, Death Rates, Fetal Death Ratios, Marriage and Divorce Rates
 Michigan, 1900 - 1996

Year	Live Births	Deaths							Marriages	Divorces
		All Ages	<1 Year	<28 Days	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
1996	14.0	8.7	8.0	5.3	2.8	9.9	5.7	*	14.4	8.0

Note: Birth rate, death rate for all ages, rate of persons married and rate of persons divorced per 1,000 population. 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. 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. For years prior to 1950 deaths under 1 month of age are included in deaths under 28 days. 1974 divorce data is estimated. Asterisk (*) indicates that data do not meet the standards of precision or reliability.

Source: Michigan Resident Birth, Death and Fetal Death Files and Michigan Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Table 4.3
Number of Live Births by Age of Mother
 Michigan Residents, 1920 - 1996

Year	All Ages	Age of Mother								Not Stated
		10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45+	
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

Note: 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: Michigan Resident Birth Files, Division for Vital Records and Health Statistics, MDCH

Table 4.3 (continued)
 Number of Live Births by Age of Mother
 Michigan Residents, 1920 - 1996

Year	All Ages	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
1996	133,231	330	15,899	31,231	39,286	31,472	12,730	2,168	88	27

Note: 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: Michigan Resident Birth Files, Division for Vital Records and Health Statistics, MDCH

Table 4.4
Live Birth Rates by Age of Mother
Michigan Residents, 1920 - 1996

Year	Age of Mother								Total Fertility Rate
	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45+	
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

Note: 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. 1995 estimated population is used to calculate 1996 rates. Rates of live births to women aged 45 and over are per 1,000 women 45-49 years of age. Asterisk (*) indicates that data do not meet the standards of precision or reliability.

Source: Michigan Resident Birth Files, Division for Vital Records and Health Statistics, MDCH. Population figures used for 1920-1970 rates are from *General Population Characteristics, Michigan*, USBC, 1971, with arithmetic extrapolation between census years.

Table 4.4 (continued)
Live Birth Rates by Age of Mother
Michigan Residents, 1920 - 1996

Year	Age of Mother								Total Fertility Rate
	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45+	
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	58.7	110.1	123.0	77.4	27.2	4.1	0.1	2,009.0
1992	1.1	56.6	105.1	119.4	76.8	28.0	4.5	0.2	1,958.5
1993	1.1	53.1	102.2	116.7	78.8	28.7	4.5	0.2	1,926.5
1994	1.2	52.0	101.2	115.9	80.5	29.4	5.0	0.2	1,927.0
1995	1.1	49.1	98.0	113.0	80.6	30.0	5.3	0.2	1,886.5
1996	1.0	47.5	94.6	114.8	80.0	30.7	5.7	0.3	1,873.0

Note: 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. 1995 estimated population is used to calculate 1996 rates. Rates of live births to women aged 45 and over are per 1,000 women 45-49 years of age. Asterisk (*) indicates that data do not meet the standards of precision or reliability.

Source: Michigan Resident Birth Files, Division for Vital Records and Health Statistics, MDCH. Population figures used for 1920-1970 rates are from *General Population Characteristics, Michigan*, USBC, 1971, with arithmetic extrapolation between census years.

Table 4.5
Cases of Certain Reported Communicable Diseases
Michigan Residents, 1900 - 1996

Year	Diphtheria	Smallpox	Typhoid Fever	Whooping Cough	Measles	Hepatitis (all types)	TB (all forms)	Meningo- coccal Infections	Polio	Syphilis	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	5,077	7,910	
1919	7,896	2,381	1,254	1,829	8,885		4,231	75	155			
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	

Note: 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. Meningococcal infections prior to 1952 data were for meningococcal meningitis. Starting with 1992 data, syphilis counts represent only primary and secondary cases. Prior to 1992, syphilis counts included early latent cases.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDCH

Table 4.5 (continued)
Cases of Certain Reported Communicable Diseases
Michigan Residents, 1900 - 1996

Year	Diphtheria	Smallpox	Typhoid Fever	Whooping Cough	Measles	Hepatitis (all types)	TB (all forms)	Meningo- coccal Infections	Polio	Syphilis	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
1996	-	-	10	59	3	1,282	443	51	-	203	15,267	969

Note: 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. Meningococcal infections prior to 1952 data were for meningococcal meningitis. Starting with 1992 data, syphilis counts represent only primary and secondary cases. Prior to 1992, syphilis counts included early latent cases.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDCH

Table 4.6
Case Rates of Certain Reported Communicable Diseases
Michigan Residents, 1900 - 1996

Year	Diphtheria	Smallpox	Typhoid Fever	Whooping Cough	Measles	Hepatitis (all types)	TB (all forms)	Meningo- coccal Infections	Polio	Syphilis	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	

Note: Rates are per 100,000 population. 1995 estimated population is used to calculate 1996 rates. 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. Meningococcal infections prior to 1952 data were for meningococcal meningitis. Starting with 1992 data, syphilis counts represent only primary and secondary cases. Prior to 1992 syphilis counts included early latent cases. Asterisk (*) indicates that data do not meet the standards of precision or reliability.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDCH.

Table 4.6 (continued)
Case Rates of Certain Reported Communicable Diseases
Michigan Residents, 1900 - 1996

Year	Diphtheria	Smallpox	Typhoid Fever	Whooping Cough	Measles	Hepatitis (all types)	TB (all forms)	Meningo- coccal Infections	Polio	Syphilis	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	288.4	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	189.0	19.1
1994	-	-	*	1.0	0.3	10.5	4.7	0.6	-	3.4	190.7	11.8
1995	-	-	*	1.1	*	10.6	4.1	0.8	-	3.5	189.7	11.4
1996	-	-	0.1	0.6	*	13.4	4.6	0.5	-	2.1	159.9	10.1

Note: Rates are per 100,000 population. 1995 estimated population is used to calculate 1996 rates. 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. Meningococcal infections prior to 1952 data were for meningococcal meningitis. Starting with 1992 data, syphilis counts represent only primary and secondary cases. Prior to 1992 syphilis counts included early latent cases. Asterisk (*) indicates that data do not meet the standards of precision or reliability.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDCH.

Table 4.7
 Number of Deaths and Death Rates for Certain Communicable Diseases
 Michigan Residents, 1900 - 1996

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

Note: Rates are per 100,000 population. 1995 estimated population is used to calculate 1996 rates. Effective January 1975, a new diagnostic classification system for tuberculosis was adopted. As a result, tuberculosis deaths and rates prior to 1975 are not directly comparable to the figures in 1975 and later years. Starting with 1992 data, syphilis counts represent only primary and secondary cases. Prior to 1992 syphilis counts included early latent cases. Asterisk (*) indicates that data do not meet the standards of precision or reliability.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDCH

Table 4.7 (continued)
 Number of Deaths and Death Rates for Certain Communicable Diseases
 Michigan Residents, 1900 - 1996

Year	TB of the Respiratory System		Tuberculosis (all forms)		Poliomyelitis		Syphilis		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								
1902	2,088	83.6	2,462	98.5			88	3.6				
1903	2,155	84.9	2,562	101.0			114	4.6				
1904	2,306	89.5	2,761	107.2			130	5.2				
1905	2,288	87.5	2,732	104.5			101	4.0				
1906	2,303	86.8	2,737	103.1			89	3.5				
1907	2,338	86.8	2,728	101.3			89	3.4				
1908	2,249	82.3	2,706	99.0			94	3.6				
1909	2,237	80.7	2,629	94.9			118	4.5				
							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	-	-		

Note: Rates are per 100,000 population. 1995 estimated population is used to calculate 1996 rates. Effective January 1975, a new diagnostic classification system for tuberculosis was adopted. As a result, tuberculosis deaths and rates prior to 1975 are not directly comparable to the figures in 1975 and later years. Starting with 1992 data, syphilis counts represent only primary and secondary cases. Prior to 1992 syphilis counts included early latent cases. Asterisk (*) indicates that data do not meet the standards of precision or reliability.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDCH

Table 4.7 (continued)
 Number of Deaths and Death Rates for Certain Communicable Diseases
 Michigan Residents, 1900 - 1996

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	*	-	-	-	-	1	*
1978	-	-	-	-	-	-	1	*	-	-
1979	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	1	*	-	-	1	*
1982	-	-	-	-	-	-	-	-	1	*
1983	-	-	1	*	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	1	*	-	-
1988	-	-	1	*	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-	-
1990	-	-	1	*	-	-	-	-	-	-
1991	-	-	-	-	-	-	-	-	-	-
1992	-	-	-	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-	-	-
1994	-	-	-	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-

Note: Rates are per 100,000 population. 1995 estimated population is used to calculate 1996 rates. Effective January 1975, a new diagnostic classification system for tuberculosis was adopted. As a result, tuberculosis deaths and rates prior to 1975 are not directly comparable to the figures in 1975 and later years. Starting with 1992 data, syphilis counts represent only primary and secondary cases. Prior to 1992 syphilis counts included early latent cases. Asterisk (*) indicates that data do not meet the standards of precision or reliability.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDCH

Table 4.7 (continued)
 Number of Deaths and Death Rates for Certain Communicable Diseases
 Michigan Residents, 1900 - 1996

Year	TB of the Respiratory System		Tuberculosis ² (all forms)		Poliomyelitis		Syphilis ³		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	8.3
1996	26	0.3	29	0.3	-	-	-	-	-	-	510	5.3

Note: Rates are per 100,000 population. 1995 estimated population is used to calculate 1996 rates. Effective January 1975, a new diagnostic classification system for tuberculosis was adopted. As a result, tuberculosis deaths and rates prior to 1975 are not directly comparable to the figures in 1975 and later years. Starting with 1992 data, syphilis counts represent only primary and secondary cases. Prior to 1992 syphilis counts included early latent cases. Asterisk (*) indicates that data do not meet the standards of precision or reliability.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDCH

Table 4.8
Number of Deaths and Death Rates by Specified Causes
 Michigan Residents, 1900 - 1996

Year	Heart Disease		Cancer (all forms)		Stroke		Accidents (all forms)		Motor Vehicle Accidents	
	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

Note: Rates are per 100,000 population. 1995 estimated population is used to calculate 1996 rates. Cancer includes leukemias, aleukemias, and Hodgkin's disease beginning with 1921. Stroke was called Cerebrovascular disease between 1969-1995 and Vascular Lesions Affecting-Central Nervous System prior to 1968. Accidents includes Motor Vehicle accidents. Accidents exclude injuries undetermined whether accidentally or purposely inflicted since 1968. Motor vehicle accidents do not include collision with heavier vehicles from 1910 through 1922. Motorcycle accidents are included beginning 1923. Chronic liver disease and cirrhosis was called Cirrhosis of the Liver prior to 1979. Atherosclerosis was called General Arteriosclerosis prior to 1968 and was called Arteriosclerosis from 1968-1978.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH

Table 4.8 (continued)
 Number of Deaths and Death Rates by Specified Causes
 Michigan Residents, 1900 - 1996

Year	Diabetes		Pneumonia & Influenza		Chronic Liver Disease & Cirrhosis		Atherosclerosis	
	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

Note: Rates are per 100,000 population. 1995 estimated population is used to calculate 1996 rates. Cancer includes leukemias, aleukemias, and Hodgkin's disease beginning with 1921. Stroke was called Cerebrovascular disease between 1969-1995 and Vascular Lesions Affecting-Central Nervous System prior to 1968. Accidents includes Motor Vehicle accidents. Accidents exclude injuries undetermined whether accidentally or purposely inflicted since 1968. Motor vehicle accidents do not include collision with heavier vehicles from 1910 through 1922. Motorcycle accidents are included beginning 1923. Chronic liver disease and cirrhosis was called Cirrhosis of the Liver prior to 1979. Atherosclerosis was called General Arteriosclerosis prior to 1968 and was called Arteriosclerosis from 1968-1978.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH

Table 4.8 (continued)
 Number of Deaths and Death Rates by Specified Causes
 Michigan Residents, 1900 - 1996

Year	Heart Disease		Cancer (all forms)		Stroke		Accidents (all forms)		Motor Vehicle Accidents	
	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	301.5	19,187	202.9	5,299	56.0	2,830	29.9	1,438	15.2
1994	28,195	297.0	19,410	204.5	5,680	59.8	2,928	30.8	1,445	15.2
1995	28,007	293.3	19,442	203.6	5,857	61.3	3,137	32.9	1,601	16.8
1996	27,980	293.0	19,563	204.9	5,748	60.2	3,062	32.1	1,577	16.5

Note: Rates are per 100,000 population. 1995 estimated population is used to calculate 1996 rates. Cancer includes leukemias, aleukemias, and Hodgkin's disease beginning with 1921. Stroke was called Cerebrovascular disease between 1969-1995 and Vascular Lesions Affecting-Central Nervous System prior to 1968. Accidents includes Motor Vehicle accidents and Accidents excluding Injuries of Undetermined Whether Accidentally or Purposely Inflicted since 1968. Motor vehicle accidents do not include collision with heavier vehicles from 1910 through 1922. Motorcycle accidents are included beginning 1923. Chronic liver disease and cirrhosis was called Cirrhosis of the Liver prior to 1979. Atherosclerosis was called General Arteriosclerosis prior to 1968 and was called Arteriosclerosis from 1968-1978.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH

Table 4.8 (continued)
 Number of Deaths and Death Rates by Specified Causes
 Michigan Residents, 1900 - 1996

Year	Diabetes		Pneumonia & Influenza		Chronic Liver Disease & Cirrhosis		Atherosclerosis	
	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	23.5	3,002	31.4	1,002	10.5	754	7.9
1996	2,348	24.6	3,010	31.5	968	10.1	760	8.0

Note: Rates are per 100,000 population. 1995 estimated population is used to calculate 1996 rates. Cancer includes leukemias, aleukemias, and Hodgkin's disease beginning with 1921. Stroke was called Cerebrovascular disease between 1969-1995 and Vascular Lesions Affecting-Central Nervous System prior to 1968. Accidents includes Motor Vehicle accidents. Accidents exclude injuries undetermined whether accidentally or purposely inflicted since 1968. Motor vehicle accidents do not include collision with heavier vehicles from 1910 through 1922. Motorcycle accidents are included beginning 1923. Chronic liver disease and cirrhosis was called Cirrhosis of the Liver prior to 1979. Atherosclerosis was called General Arteriosclerosis prior to 1968 and was called Arteriosclerosis from 1968-1978.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH

Table 4.9
Selected Vital Statistics by County
Michigan Residents, 1996

Area	Population Estimate	Deaths	Live Births	Low Weight Live Births	Infant Deaths	Neonatal Deaths	Perinatal Deaths	Fetal Deaths	Marriages	Divorces
Michigan	9,549,353	83,496	133,231	10,228	1,072	703	1,329	759	68,598	38,169
Alcona	10,590	172	93	5	-	-	-	-	64	46
Alger	9,847	111	93	6	1	1	1	-	63	37
Allegan	97,691	790	1,413	87	9	6	8	3	708	437
Alpena	30,845	352	293	13	3	2	1	-	244	135
Antrim	20,256	220	223	18	3	2	2	-	151	111
Arenac	16,151	177	172	19	2	-	-	-	106	68
Baraga	8,493	112	82	5	-	-	1	1	55	25
Bary	52,639	395	714	50	2	2	5	3	443	289
Bay	111,524	1,013	1,347	95	13	9	13	5	845	425
Benzie	13,657	159	135	4	-	-	-	-	115	70
Berrien	162,621	1,513	2,262	213	18	13	29	18	1,325	6261
Branch	42,742	394	525	40	5	5	6	2	326	228
Calhoun	140,688	1,391	1,834	131	10	2	9	7	1,207	702
Cass	49,604	445	578	43	1	1	2	2	315	215
Charlevoix	23,055	236	345	13	1	1	6	6	232	115
Cheboygan	22,851	275	255	13	2	1	2	2	198	104
Chippewa	36,859	292	459	21	2	2	4	2	267	112
Clare	28,080	333	361	16	2	1	2	1	219	127
Clinton	61,660	429	789	56	1	-	1	1	421	263
Crawford	13,521	128	170	12	2	1	1	-	107	62
Delta	38,653	367	404	27	1	-	3	3	310	149
Dickinson	27,179	332	304	11	1	1	1	1	213	105
Eaton	98,087	759	1,243	106	7	6	17	12	726	459
Emmet	27,353	236	372	26	1	1	2	1	241	123
Genesee	436,382	3,755	6,434	624	78	51	72	31	3,409	1,820
Gladwin	24,306	300	285	17	3	2	5	3	182	107
Gogebic	17,896	252	159	10	-	-	2	2	115	59
Grand Traverse	70,866	598	877	44	7	4	6	3	677	387
Gratiot	39,976	413	470	24	6	5	9	5	277	139
Hillsdale	45,224	406	562	34	3	2	6	5	324	245
Houghton	36,141	468	379	22	3	2	5	4	224	171
Huron	35,221	437	394	24	6	2	7	5	241	93
Ingham	277,890	1,951	3,952	307	32	22	48	31	2,209	1,099
Ionia	59,845	413	820	48	5	4	6	2	489	263
Iosco	24,478	341	270	19	1	-	-	-	193	154
Iron	13,184	212	97	10	-	-	1	1	79	37
Isabella	56,213	339	614	39	4	1	5	4	401	217
Jackson	154,012	1,498	2,058	160	16	11	17	8	1,212	782
Kalamazoo	227,978	1,823	3,125	237	28	19	27	11	1,821	1,036
Kalkaska	14,694	119	196	8	1	-	1	1	130	66

Note: 1995 estimated population is used.

Source: 1996 Michigan Resident Death, Birth and Fetal Death Files and Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Table 4.9 (continued)
Selected Vital Statistics by County
Michigan Residents, 1996

Area	Population Estimate	Deaths	Live Births	Low Weight Live Births	Infant Deaths	Neonatal Deaths	Perinatal Deaths	Fetal Deaths	Marriages	Divorces
Kent	525,352	3,939	8,972	633	81	51	92	51	4,593	2,191
Keweenaw	1,968	30	17	1	-	-	-	-	22	2
Lake	9,662	144	108	6	3	2	4	2	58	23
Lapeer	83,856	535	1,097	81	9	6	10	5	592	370
Leelanau	18,500	175	215	13	1	1	5	4	139	63
Lenawee	96,707	833	1,143	61	4	2	7	5	551	380
Livingston	133,601	858	1,811	100	15	11	16	10	920	640
Luce	5,602	79	68	4	-	-	-	-	46	27
Mackinac	10,980	133	127	7	2	2	2	-	222	73
Macomb	733,602	6,566	9,885	601	59	36	82	56	5,767	2,536
Manistee	22,912	284	208	14	3	1	4	3	152	95
Marquette	65,440	540	650	33	4	3	5	2	461	269
Mason	27,487	291	281	21	1	1	1	-	240	161
Mecosta	37,724	316	448	17	2	2	6	4	275	164
Menominee	24,573	264	292	15	1	-	2	2	189	76
Midland	79,747	508	1,036	74	8	6	8	4	647	347
Missaukee	13,522	126	160	13	2	1	1	-	110	49
Monroe	139,553	1,181	1,798	127	13	7	8	3	898	696
Montcalm	57,867	515	787	43	4	3	7	4	485	304
Montmorency	9,681	144	107	9	-	-	-	-	65	31
Muskegon	164,460	1,491	2,350	180	18	12	26	18	1,380	874
Newaygo	43,586	373	637	43	4	2	6	4	339	213
Oakland	1,153,459	8,617	16,088	1,079	84	52	126	82	8,568	4,641
Oceana	23,871	244	355	13	1	-	3	3	202	112
Ogemaw	20,562	234	221	12	2	2	3	1	160	68
Ontonagon	8,642	107	72	2	-	-	-	-	57	1
Osceola	21,755	204	276	18	2	2	2	1	150	81
Oscoda	8,683	103	89	5	-	-	1	1	70	34
Otsego	20,762	193	263	20	5	5	7	2	210	129
Ottawa	210,393	1,404	3,367	225	26	23	33	14	1,688	-
Presque Isle	14,241	169	143	5	-	-	1	1	91	34
Roscommon	22,595	322	208	11	1	1	1	-	136	99
Saginaw	212,294	1,888	2,782	279	23	17	35	20	1,487	798
St Clair	154,236	1,371	2,064	131	14	9	18	12	1,165	709
St Joseph	60,680	590	873	57	7	6	7	2	500	363
Sanilac	42,198	472	514	42	3	2	6	5	306	220
Schoolcraft	8,698	121	88	6	3	1	1	-	63	35
Shiawassee	72,077	557	885	58	3	2	6	4	553	266
Tuscola	57,488	472	700	60	6	4	5	4	399	220
Van Buren	74,590	661	1,027	73	5	3	9	6	560	415
Washtenaw	292,610	1,610	3,749	209	21	14	24	11	2,133	1,060
Wayne	2,055,504	20,670	31,685	3,140	349	226	409	222	10,790	7,419
Wexford	28,690	261	378	25	1	1	4	4	275	173
Unknown	-	8	49	5	2	2	3	1	-	-

Note: 1995 estimated population is used.

Source: 1996 Michigan Resident Death, Birth and Fetal Death Files and Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Table 4.10
Selected Vital Statistics Rates by County
Michigan Residents, 1996

Area	Deaths	Live Births	Low Weight Live Births	Infant Deaths	Neonatal Deaths	Perinatal Deaths	Fetal Deaths	Marriages	Divorces
Michigan	8.7	14.0	76.8	8.0	5.3	9.9	5.7	14.4	8.0
Alcona	16.2	8.8	*	-	-	-	-	12.1	8.7
Alger	11.3	9.4	64.5	*	*	*	*	12.8	7.5
Allegan	8.1	14.5	61.6	6.4	4.2	5.6	*	14.5	8.9
Alpena	11.4	9.5	44.4	*	*	*	-	15.8	8.8
Antrim	10.9	11.0	80.7	*	*	*	-	14.9	11.0
Arenac	11.0	10.6	110.5	*	-	-	-	13.1	8.4
Baraga	13.2	9.7	*	-	-	*	*	13.0	5.9
Barry	7.5	13.6	70.0	*	*	*	*	16.8	11.0
Bay	9.1	12.1	70.5	9.7	6.7	9.6	*	15.2	7.6
Benzie	11.6	9.9	*	-	-	-	-	16.8	10.3
Berrien	9.3	13.9	94.2	8.0	5.7	12.7	7.9	16.3	7.7
Branch	9.2	12.3	76.2	*	*	11.4	*	15.3	10.7
Calhoun	9.9	13.0	71.4	5.5	*	4.9	3.8	17.2	10.0
Cass	9.0	11.7	74.4	*	*	*	*	12.7	8.7
Charlevoix	10.2	15.0	37.7	*	*	17.1	17.1	20.1	10.0
Cheboygan	12.0	11.2	51.0	*	*	*	*	17.3	9.1
Chippewa	7.9	12.5	45.8	*	*	*	*	14.5	6.1
Clare	11.9	12.9	44.3	*	*	*	*	15.6	9.0
Clinton	7.0	12.8	71.0	*	-	*	*	13.7	8.5
Crawford	9.5	12.6	70.6	*	*	*	-	15.8	9.2
Delta	9.5	10.5	66.8	*	-	*	*	16.0	7.7
Dickinson	12.2	11.2	36.2	*	*	*	*	15.7	7.7
Eaton	7.7	12.7	85.3	5.6	4.8	13.5	9.6	14.8	9.4
Emmet	8.6	13.6	69.9	*	*	*	*	17.6	9.0
Genesee	8.6	14.7	97.0	12.1	7.9	11.1	4.8	15.6	8.3
Gladwin	12.3	11.7	59.6	*	*	*	*	15.0	8.8
Gogebic	14.1	8.9	62.9	-	-	*	*	12.9	6.6
Grand Traverse	8.4	12.4	50.2	8.0	*	6.8	*	19.1	10.9
Gratiot	10.3	11.8	51.1	12.8	*	18.9	*	13.9	7.0
Hillsdale	9.0	12.4	60.5	*	*	10.6	*	14.3	10.8
Houghton	12.9	10.5	58.0	*	*	*	*	12.4	9.5
Huron	12.4	11.2	60.9	15.2	*	17.5	*	13.7	5.3
Ingham	7.0	14.2	77.7	8.1	5.6	12.1	7.8	15.9	7.9
Ionia	6.9	13.7	58.5	*	*	7.3	*	16.3	8.8
Iosco	13.9	11.0	70.4	*	-	-	-	15.8	12.6
Iron	16.1	7.4	103.1	-	-	*	*	12.0	5.6
Isabella	6.0	10.9	63.5	*	*	*	*	14.3	7.7
Jackson	9.7	13.4	77.7	7.8	5.3	8.2	3.9	15.7	10.2
Kalamazoo	8.0	13.7	75.8	9.0	6.1	8.6	3.5	16.0	9.1
Kalkaska	8.1	13.3	40.8	*	-	*	*	17.7	9.0

Note: 1995 estimated population is used to calculate rates. Birth and death rates are per 1,000 population. Infant and fetal death rates are per 1,000 live births. Marriage and divorce rates are persons per 1,000 population rather than events per population. Asterisk (*) indicates that data do not meet the standards of reliability or precision.

Source: 1996 Michigan Resident Death, Birth and Fetal Death Files and Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Table 4.10 (continued)
Selected Vital Statistics Rates by County
Michigan Residents, 1996

Area	Deaths	Live Births	Low Weight Live Births	Infant Deaths	Neonatal Deaths	Perinatal Deaths	Fetal Deaths	Marriages	Divorces
Kent	7.5	17.1	70.6	9.0	5.7	10.2	5.7	17.5	8.3
Keweenaw	15.2	8.6	*	-	-	-	-	22.4	*
Lake	14.9	11.2	55.6	*	*	*	*	12.0	4.8
Lapeer	6.4	13.1	73.8	8.2	5.5	9.1	*	14.1	8.8
Leelanau	9.5	11.6	60.5	*	*	*	*	15.0	6.8
Lenawee	8.6	11.8	53.4	*	*	6.1	*	11.4	7.9
Livingston	6.4	13.6	55.2	8.3	6.1	8.8	5.5	13.8	9.6
Luce	14.1	12.1	*	-	-	-	-	16.4	9.6
Mackinac	12.1	11.6	55.1	*	*	*	-	40.4	13.3
Macomb	9.0	13.5	60.8	6.0	3.6	8.2	5.6	15.7	6.9
Manistee	12.4	9.1	67.3	*	*	*	*	13.3	8.3
Marquette	8.3	9.9	50.8	*	*	*	*	14.1	8.2
Mason	10.6	10.2	74.7	*	*	*	-	17.5	11.7
Mecosta	8.4	11.9	37.9	*	*	13.3	*	14.6	8.7
Menominee	10.7	11.9	51.4	*	-	*	*	15.4	6.2
Midland	6.4	13.0	71.4	7.7	5.8	7.7	*	16.2	8.7
Missaukee	9.3	11.8	81.3	*	*	*	-	16.3	7.2
Monroe	8.5	12.9	70.6	7.2	3.9	4.4	*	12.9	10.0
Montcalm	8.9	13.6	54.6	*	*	8.8	*	16.8	10.5
Montmorency	14.9	11.1	84.1	-	-	-	-	13.4	6.4
Muskegon	9.1	14.3	76.6	7.7	5.1	11.0	7.6	16.8	10.6
Newaygo	8.6	14.6	67.5	*	*	9.4	*	15.6	9.8
Oakland	7.5	13.9	67.1	5.2	3.2	7.8	5.1	14.9	8.0
Oceana	10.2	14.9	36.6	*	-	*	*	16.9	9.4
Ogemaw	11.4	10.7	54.3	*	*	*	*	15.6	6.6
Ontonagon	12.4	8.3	*	-	-	-	-	13.2	*
Osceola	9.4	12.7	65.2	*	*	*	*	13.8	7.4
Oscoda	11.9	10.2	*	-	-	-	*	16.1	7.8
Otsego	9.3	12.7	76.0	*	*	26.4	*	20.2	12.4
Ottawa	6.7	16.0	66.8	7.7	6.8	9.8	4.1	16.0	-
Presque Isle	11.9	10.0	*	-	-	*	*	12.8	4.8
Roscommon	14.3	9.2	52.9	*	*	*	-	12.0	8.8
Saginaw	8.9	13.1	100.3	8.3	6.1	12.5	7.1	14.0	7.5
St Clair	8.9	13.4	63.5	6.8	4.4	8.7	5.8	15.1	9.2
St Joseph	9.7	14.4	65.3	8.0	6.9	8.0	*	16.5	12.0
Sanilac	11.2	12.2	81.7	*	*	11.6	*	14.5	10.4
Schoolcraft	13.9	10.1	68.2	*	*	*	-	14.5	8.0
Shiawassee	7.7	12.3	65.5	*	*	6.7	*	15.3	7.4
Tuscola	8.2	12.2	85.7	8.6	*	*	*	13.9	7.7
Van Buren	8.9	13.8	71.1	*	*	8.7	5.8	15.0	11.1
Washtenaw	5.5	12.8	55.7	5.6	3.7	6.4	2.9	14.6	7.2
Wayne	10.1	15.4	99.1	11.0	7.1	12.8	7.0	10.5	7.2
Wexford	9.1	13.2	66.1	*	*	*	*	19.2	12.1

Note: 1995 estimated population is used to calculate rates. Birth and death rates are per 1,000 population. Infant and fetal death rates are per 1,000 live births. Marriage and divorce rates are persons per 1,000 population rather than events per population. Asterisk (*) indicates that data do not meet the standards of reliability or precision.

Source: 1996 Michigan Resident Death, Birth and Fetal Death Files and Occurrence Marriage and Divorce Files, Division for Vital Records and Health Statistics, MDCH

Table 4.11
Live Births with Selected Risk Factors by County
Michigan Residents, 1996

Area	Medical Risk Factor Present		Complications of Labor/Delivery		Abnormal Conditions of Newborn		Mother Smoked While Pregnant		Mother Drank Alcohol While Pregnant	
	Number	%	Number	%	Number	%	Number	%	Number	%
Michigan	23,930	18.0	34,432	25.8	13,895	10.4	23,047	17.3	2,009	1.5
Alcona	24	25.8	36	38.7	14	15.1	30	32.3	1	*
Alger	8	8.6	23	24.7	1	*	16	17.2	1	*
Allegan	214	15.1	339	24.0	147	10.4	294	20.8	21	1.5
Alpena	62	21.2	71	24.2	30	10.2	76	25.9	1	*
Antrim	39	17.5	56	25.1	9	4.0	61	27.4	6	2.7
Arenac	38	22.1	52	30.2	8	4.7	56	32.6	-	-
Baraga	25	30.5	26	31.7	5	*	28	34.1	2	*
Barry	154	21.6	235	32.9	76	10.6	155	21.7	5	*
Bay	203	15.1	356	26.4	61	4.5	299	22.2	22	1.6
Benzie	32	23.7	26	19.3	4	*	37	27.4	5	*
Berrien	530	23.4	431	19.1	113	5.0	415	18.3	42	1.9
Branch	105	20.0	164	31.2	25	4.8	105	20.0	1	*
Calhoun	297	16.2	456	24.9	67	3.7	398	21.7	39	2.1
Cass	218	37.7	148	25.6	50	8.7	183	31.7	12	2.1
Charlevoix	60	17.4	87	25.2	10	2.9	75	21.7	1	*
Cheboygan	51	20.0	89	34.9	16	6.3	84	32.9	2	*
Chippewa	64	13.9	122	26.6	24	5.2	122	26.6	5	*
Clare	39	10.8	79	21.9	7	1.9	56	15.5	3	*
Clinton	127	16.1	224	28.4	45	5.7	68	8.6	12	1.5
Crawford	42	24.7	46	27.1	9	5.3	63	37.1	3	*
Delta	77	19.1	70	17.3	19	4.7	91	22.5	2	*
Dickinson	24	7.9	59	19.4	11	3.6	66	21.7	10	3.3
Eaton	205	16.5	372	29.9	115	9.3	164	13.2	23	1.9
Emmet	81	21.8	120	32.3	19	5.1	91	24.5	1	*
Genesee	628	9.8	864	13.4	153	2.4	981	15.2	53	0.8
Gladwin	48	16.8	74	26.0	16	5.6	49	17.2	2	*
Gogebic	36	22.6	62	39.0	8	5.0	21	13.2	3	*
Grand Traverse	145	16.5	241	27.5	37	4.2	191	21.8	43	4.9
Gratiot	45	9.6	133	28.3	24	5.1	73	15.5	1	*
Hillsdale	112	19.9	154	27.4	46	8.2	155	27.6	12	2.1
Houghton	116	30.6	145	38.3	12	3.2	79	20.8	13	3.4
Huron	94	23.9	111	28.2	18	4.6	92	23.4	8	2.0
Ingham	808	20.4	1,239	31.4	318	8.0	413	10.5	86	2.2
Ionia	139	17.0	191	23.3	116	14.1	183	22.3	8	1.0
Iosco	71	26.3	111	41.1	7	2.6	75	27.8	3	*
Iron	10	10.3	13	13.4	6	6.2	27	27.8	8	8.2
Isabella	85	13.8	186	30.3	41	6.7	131	21.3	4	*
Jackson	194	9.4	725	35.2	16	0.8	309	15.0	5	*
Kalamazoo	600	19.2	1,084	34.7	273	8.7	535	17.1	36	1.2
Kalkaska	49	25.0	50	25.5	6	3.1	68	34.7	7	3.6

Note: Examples of medical risk factors include: anemia, diabetes, hypertension, eclampsia, renal disease, maternal drug use. Examples of complications of labor and/or delivery include: abruptio placenta, seizures during labor, dysfunctional labor, fetal distress, breech/malpresentation, cord prolapse. Examples of abnormal conditions of the newborn include: anemia, birth injury, fetal alcohol syndrome, hyaline membrane disease, seizures. Congenital anomalies reported have increased due to a change in reporting procedure. 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. Asterisk (*) indicates that data do not meet the standards of reliability or precision.

Source: 1996 Michigan Resident Birth File, Division for Vital Records and Health Statistics, MDCH

Table 4.11 (continued)
Live Births with Selected Risk Factors by County
Michigan Residents, 1996

Area	Medical Risk Factor Present		Complications of Labor/Delivery		Abnormal Conditions of Newborn		Mother Smoked While Pregnant		Mother Drank Alcohol While Pregnant	
	Number	%	Number	%	Number	%	Number	%	Number	%
Kent	1,248	13.9	2,164	24.1	2,629	29.3	1,142	12.7	118	1.3
Keweenaw	8	47.1	6	35.3	2	*	7	41.2	-	-
Lake	14	13.0	26	24.1	11	10.2	42	38.9	-	-
Lapeer	168	15.3	232	21.1	75	6.8	224	20.4	11	1.0
Leelanau	45	20.9	57	26.5	12	5.6	45	20.9	15	7.0
Lenawee	240	21.0	337	29.5	85	7.4	220	19.2	13	1.1
Livingston	302	16.7	545	30.1	85	4.7	252	13.9	67	3.7
Luce	14	20.6	19	27.9	4	*	23	33.8	2	*
Mackinac	22	17.3	45	35.4	11	8.7	37	29.1	2	*
Macomb	2,217	22.4	2,819	28.5	1,976	20.0	1,890	19.1	103	1.0
Manistee	43	20.7	66	31.7	11	5.3	67	32.2	5	2.4
Marquette	81	12.5	136	20.9	21	3.2	138	21.2	8	1.2
Mason	78	27.8	83	29.5	18	6.4	59	21.0	3	*
Mecosta	84	18.8	105	23.4	25	5.6	124	27.7	1	*
Menominee	110	37.7	131	44.9	11	3.8	87	29.8	7	2.4
Midland	191	18.4	285	27.5	76	7.3	186	18.0	3	*
Missaukee	52	32.5	25	15.6	12	7.5	40	25.0	2	*
Monroe	455	25.3	581	32.3	186	10.3	391	21.7	19	1.1
Montcalm	94	11.9	141	17.9	102	13.0	193	24.5	9	1.1
Montmorency	33	30.8	29	27.1	15	14.0	38	35.5	3	*
Muskegon	100	4.3	226	9.6	101	4.3	527	22.4	8	0.3
Newaygo	105	16.5	130	20.4	87	13.7	142	22.3	9	1.4
Oakland	3,788	23.5	5,051	31.4	2,427	15.1	2,116	13.2	275	1.7
Oceana	60	16.9	84	23.7	17	4.8	73	20.6	7	2.0
Ogemaw	48	21.7	76	34.4	7	3.2	83	37.6	2	*
Ontonagon	17	23.6	15	20.8	7	9.7	11	15.3	-	-
Osceola	71	25.7	62	22.5	19	6.9	82	29.7	2	*
Oscoda	16	18.0	21	23.6	8	9.0	25	28.1	-	-
Otsego	47	17.9	68	25.9	20	7.6	55	20.9	-	-
Ottawa	356	10.6	660	19.6	508	15.1	340	10.1	23	0.7
Presque Isle	27	18.9	44	30.8	13	9.1	42	29.4	5	*
Roscommon	50	24.0	57	27.4	12	5.8	76	36.5	4	*
Saginaw	604	21.7	762	27.4	63	2.3	552	19.8	52	1.9
St Clair	332	16.1	410	19.9	172	8.3	528	25.6	41	2.0
St Joseph	201	23.0	239	27.4	68	7.8	218	25.0	7	0.8
Sanilac	105	20.4	105	20.4	23	4.5	129	25.1	5	*
Schoolcraft	16	18.2	12	13.6	2	*	28	31.8	3	*
Shiawassee	118	13.3	166	18.8	39	4.4	149	16.8	15	1.7
Tuscola	100	14.3	172	24.6	25	3.6	164	23.4	3	*
Van Buren	175	17.0	262	25.5	60	5.8	211	20.5	16	1.6
Washtenaw	581	15.5	1,366	36.4	37	1.0	257	6.9	25	0.7
Wayne	5,459	17.2	7,463	23.6	2,807	8.9	5,509	17.4	596	1.9
Wexford	115	30.4	77	20.4	20	5.3	104	27.5	8	2.1
Unknown	41	83.7	2	*	4	*	6	12.2	-	-

Note: Examples of medical risk factors include: anemia, diabetes, hypertension, eclampsia, renal disease, maternal drug use. Examples of complications of labor and/or delivery include: abruptio placenta, seizures during labor, dysfunctional labor, fetal distress, breech/malpresentation, cord prolapse. Examples of abnormal conditions of the newborn include: anemia, birth injury, fetal alcohol syndrome, hyaline membrane disease, seizures. Congenital anomalies reported have increased due to a change in reporting procedure. 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. Asterisk (*) indicates that data do not meet the standards of reliability or precision.

Source: 1996 Michigan Resident Birth File, Division for Vital Records and Health Statistics, MDCH

Table 4.11 (continued)
Live Births with Selected Risk Factors by County
Michigan Residents, 1996

Area	Congenital Anomalies Reported		Inadequate Prenatal Care		Mother's Education <12 Grade		Mother <18 Years of Age	
	Number	%	Number	%	Number	%	Number	%
Michigan	1,001	0.8	11,792	8.9	23,489	17.6	6,241	4.7
Alcona	-	-	1	*	23	24.7	4	*
Alger	2	*	2	*	11	11.8	1	*
Allegan	10	0.7	61	4.3	245	17.3	66	4.7
Alpena	1	*	3	*	47	16.0	16	5.5
Antrim	1	*	6	2.7	41	18.4	11	4.9
Arenac	-	-	13	7.6	38	22.1	9	5.2
Baraga	5	*	4	*	12	14.6	6	7.3
Barry	5	*	18	2.5	92	12.9	36	5.0
Bay	12	0.9	44	3.3	207	15.4	62	4.6
Benzie	1	*	4	*	24	17.8	5	*
Berrien	12	0.5	219	9.7	604	26.7	198	8.8
Branch	6	1.1	42	8.0	120	22.9	25	4.8
Calhoun	21	1.1	75	4.1	405	22.1	137	7.5
Cass	29	5.0	42	7.3	184	31.8	50	8.7
Charlevoix	11	3.2	9	2.6	51	14.8	15	4.3
Cheboygan	5	*	6	2.4	59	23.1	18	7.1
Chippewa	5	*	14	3.1	75	16.3	22	4.8
Clare	3	*	22	6.1	78	21.6	14	3.9
Clinton	3	*	53	6.7	68	8.6	18	2.3
Crawford	1	*	6	3.5	41	24.1	6	3.5
Delta	2	*	13	3.2	46	11.4	9	2.2
Dickinson	1	*	12	3.9	40	13.2	12	3.9
Eaton	7	0.6	95	7.6	136	10.9	44	3.5
Emmet	2	*	15	4.0	33	8.9	8	2.2
Genesee	18	0.3	217	3.4	1,188	18.5	422	6.6
Gladwin	5	*	31	10.9	62	21.8	10	3.5
Gogebic	6	3.8	6	3.8	24	15.1	8	5.0
Grand Traverse	3	*	31	3.5	106	12.1	30	3.4
Gratiot	7	1.5	12	2.6	75	16.0	27	5.7
Hillsdale	4	*	51	9.1	132	23.5	30	5.3
Houghton	6	1.6	6	1.6	22	5.8	7	1.8
Huron	8	2.0	39	9.9	47	11.9	9	2.3
Ingham	27	0.7	339	8.6	723	18.3	209	5.3
Ionia	5	*	44	5.4	138	16.8	46	5.6
Iosco	1	*	10	3.7	50	18.5	10	3.7
Iron	1	*	6	6.2	13	13.4	4	*
Isabella	8	1.3	18	2.9	74	12.1	25	4.1
Jackson	2	*	365	17.7	269	13.1	119	5.8
Kalamazoo	17	0.5	126	4.0	508	16.3	143	4.6
Kalkaska	3	*	9	4.6	53	27.0	14	7.1

Note: Examples of medical risk factors include: anemia, diabetes, hypertension, eclampsia, renal disease, maternal drug use. Examples of complications of labor and/or delivery include: abruptio placenta, seizures during labor, dysfunctional labor, fetal distress, breech/malpresentation, cord prolapse. Examples of abnormal conditions of the newborn include: anemia, birth injury, fetal alcohol syndrome, hyaline membrane disease, seizures. Congenital anomalies reported have increased due to a change in reporting procedure. 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. Asterisk (*) indicates that data do not meet the standards of reliability or precision.

Source: 1996 Michigan Resident Birth File, Division for Vital Records and Health Statistics, MDCH

Table 4.11 (continued)
Live Births with Selected Risk Factors by County
Michigan Residents, 1996

Area	Congenital Anomalies Reported		Inadequate Prenatal Care		Mother's Education <12 Grade		Mother <18 Years of Age	
	Number	%	Number	%	Number	%	Number	%
Kent	31	0.3	391	4.4	1,626	18.1	410	4.6
Keweenaw	1	*	-	-	1	*	-	-
Lake	2	*	8	7.4	29	26.9	10	9.3
Lapeer	9	0.8	44	4.0	137	12.5	36	3.3
Leelanau	1	*	3	*	32	14.9	6	2.8
Lenawee	13	1.1	69	6.0	217	19.0	48	4.2
Livingston	12	0.7	143	7.9	99	5.5	26	1.4
Luce	3	*	3	*	15	22.1	8	11.8
Mackinac	1	*	5	*	19	15.0	5	*
Macomb	110	1.1	820	8.3	1,034	10.5	195	2.0
Manistee	2	*	12	5.8	36	17.3	7	3.4
Marquette	1	*	20	3.1	66	10.2	26	4.0
Mason	3	*	11	3.9	59	21.0	25	8.9
Mecosta	4	*	54	12.1	86	19.2	22	4.9
Menominee	2	*	11	3.8	43	14.7	11	3.8
Midland	12	1.2	27	2.6	91	8.8	26	2.5
Missaukee	-	-	6	3.8	28	17.5	9	5.6
Monroe	16	0.9	70	3.9	293	16.3	80	4.4
Montcalm	10	1.3	75	9.5	177	22.5	51	6.5
Montmorency	-	-	3	*	16	15.0	5	*
Muskegon	8	0.3	229	9.7	532	22.6	169	7.2
Newaygo	2	*	19	3.0	159	25.0	44	6.9
Oakland	143	0.9	780	4.8	1,447	9.0	369	2.3
Oceana	3	*	28	7.9	104	29.3	20	5.6
Ogemaw	2	*	8	3.6	40	18.1	9	4.1
Ontonagon	1	*	4	*	9	12.5	4	*
Osceola	5	*	17	6.2	69	25.0	19	6.9
Oscoda	2	*	7	7.9	28	31.5	9	10.1
Otsego	2	*	8	3.0	32	12.2	6	2.3
Ottawa	17	0.5	129	3.8	420	12.5	107	3.2
Presque Isle	1	*	4	*	19	13.3	5	*
Roscommon	2	*	6	2.9	43	20.7	5	*
Saginaw	22	0.8	238	8.6	621	22.3	200	7.2
St Clair	16	0.8	203	9.8	345	16.7	97	4.7
St Joseph	12	1.4	43	4.9	207	23.7	42	4.8
Sanilac	6	1.2	56	10.9	90	17.5	19	3.7
Schoolcraft	2	*	3	*	16	18.2	6	6.8
Shiawassee	2	*	26	2.9	134	15.1	36	4.1
Tuscola	5	*	44	6.3	107	15.3	34	4.9
Van Buren	6	0.6	64	6.2	271	26.4	63	6.1
Washtenaw	18	0.5	731	19.5	372	9.9	103	2.7
Wayne	224	0.7	5,260	16.6	8,079	25.5	1,946	6.1
Wexford	1	*	18	4.8	72	19.0	17	4.5
Unknown	-	-	3	*	5	*	1	*

Note: Examples of medical risk factors include: anemia, diabetes, hypertension, eclampsia, renal disease, maternal drug use. Examples of complications of labor and/or delivery include: abruptio placenta, seizures during labor, dysfunctional labor, fetal distress, breech/malpresentation, cord prolapse. Examples of abnormal conditions of the newborn include: anemia, birth injury, fetal alcohol syndrome, hyaline membrane disease, seizures. Congenital anomalies reported have increased due to a change in reporting procedure. 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. Asterisk (*) indicates that data do not meet the standards of reliability or precision.

Source: 1996 Michigan Resident Birth File, Division for Vital Records and Health Statistics, MDCH

Table 4.12
Live Births by Age of Mother and County
 Michigan Residents, 1996

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	133,231	330	838	1,873	3,200	4,484	5,504	15,899	31,231	39,286	31,472	12,730	2,256	27
Alcona	93	-	1	2	1	3	3	10	32	25	15	9	2	-
Alger	93	-	-	-	1	7	6	14	22	29	15	13	-	-
Allegan	1,413	2	10	27	27	62	47	173	337	444	315	115	27	-
Alpena	293	-	2	3	11	11	20	47	73	73	68	28	3	1
Antrim	223	-	3	2	6	8	14	33	55	64	43	24	4	-
Arenac	172	-	1	4	4	8	4	21	47	52	31	12	7	2
Baraga	82	-	1	1	4	6	3	15	20	25	18	2	2	-
Barry	714	-	2	11	23	21	27	84	158	252	155	56	8	1
Bay	1,347	2	11	16	33	41	47	148	325	428	319	113	12	-
Benzie	135	-	1	2	2	5	11	21	29	45	28	7	5	-
Berrien	2,262	20	35	63	80	114	145	437	599	572	423	180	31	-
Branch	525	-	3	8	14	23	27	75	146	162	91	43	6	2
Calhoun	1,834	5	18	49	65	89	83	304	536	510	324	124	27	4
Cass	578	-	7	18	25	35	35	120	184	146	87	36	5	-
Charlevoix	345	-	1	7	7	9	22	46	95	97	63	31	13	-
Cheboygan	255	2	1	4	11	16	16	48	77	72	36	18	2	-
Chippewa	459	1	2	5	14	13	23	57	143	134	81	36	7	-
Clare	361	1	3	-	10	10	20	43	124	115	52	20	6	-
Clinton	789	2	-	1	15	29	18	63	150	248	235	79	12	-
Crawford	170	-	4	2	-	16	7	29	43	50	32	12	4	-
Delta	404	-	-	1	8	15	16	40	103	141	88	26	5	1
Dickinson	304	-	2	2	8	12	13	37	59	107	64	32	5	-
Eaton	1,243	-	7	12	25	39	39	122	321	374	273	132	21	-
Emmet	372	1	-	1	6	9	19	35	86	111	84	47	8	-
Genesee	6,434	31	64	142	185	273	340	1,004	1,806	1,812	1,220	478	82	1
Gladwin	285	-	-	5	5	7	16	33	79	93	56	21	3	-
Gogebic	159	1	2	-	5	7	7	21	48	39	34	13	3	-
Grd Traverse	877	1	2	10	17	25	45	99	183	256	218	106	14	-
Gratiot	470	-	1	8	18	21	29	77	120	170	70	32	1	-
Hillsdale	562	-	6	7	17	35	42	107	158	164	82	29	22	-
Houghton	379	-	1	2	4	7	9	23	91	110	93	44	18	-
Huron	394	-	-	4	5	11	18	38	90	128	93	39	6	-
Ingham	3,952	15	26	63	105	128	163	485	975	1,132	903	364	76	2
Ionia	820	1	4	11	30	27	41	113	229	268	149	55	5	-
Iosco	270	-	1	3	6	13	27	50	81	73	46	17	3	-
Iron	97	-	1	1	2	5	8	17	28	28	18	4	2	-
Isabella	614	2	3	8	12	9	22	54	182	189	137	41	8	1
Jackson	2,058	2	19	40	58	102	98	317	548	608	386	164	33	-
Kalamazoo	3,125	4	18	48	73	104	143	386	704	956	701	327	47	-
Kalkaska	196	-	3	2	9	9	13	36	59	51	28	21	1	-

Source: 1996 Michigan Resident Birth File, Division for Vital Records and Health Statistics, MDCH

Table 4.12 (continued)
Live Births by Age of Mother and County
Michigan Residents, 1996

Area	Age of Mother													Not Stated
	Total	<15	15	16	17	18	19	15-19	20-24	25-29	30-34	35-39	40+	
Kent	8,972	26	57	130	197	290	344	1,018	2,003	2,727	2,207	851	140	-
Keweenaw	17	-	-	-	-	-	-	-	4	9	4	-	-	-
Lake	108	-	-	3	7	6	5	21	37	28	12	7	3	-
Lapeer	1,097	-	3	13	20	34	26	96	264	344	270	101	22	-
Leelanau	215	2	-	1	3	4	7	15	48	66	50	27	7	-
Lenawee	1,143	-	7	17	24	33	52	133	303	374	225	88	20	-
Livingston	1,811	1	5	5	15	15	34	74	222	563	648	255	48	-
Luce	68	-	1	3	4	2	6	16	21	15	9	4	3	-
Mackinac	127	-	1	-	4	5	11	21	44	23	32	3	4	-
Macomb	9,885	6	13	58	118	170	241	600	1,727	3,289	3,018	1,079	166	-
Manistee	208	-	-	1	6	9	8	24	55	62	41	22	3	1
Marquette	650	1	4	8	13	24	27	76	159	215	139	52	8	-
Mason	281	-	3	9	13	11	16	52	73	90	43	20	3	-
Mecosta	448	-	4	8	10	14	34	70	146	121	86	21	4	-
Menominee	292	-	1	2	8	14	13	38	85	72	69	26	1	1
Midland	1,036	2	4	5	15	14	32	70	205	355	284	94	26	-
Missaukee	160	1	1	4	3	7	6	21	42	58	28	8	2	-
Monroe	1,798	6	10	18	46	60	69	203	427	564	430	142	25	1
Montcalm	787	1	10	15	25	43	44	137	233	230	123	53	9	1
Montmorency	107	1	1	-	3	4	7	15	30	33	22	6	-	-
Muskegon	2,350	12	19	44	94	109	132	398	698	642	402	175	23	-
Newaygo	637	2	7	17	18	30	28	100	198	178	100	51	8	-
Oakland	16,088	17	49	100	203	272	331	955	2,393	4,672	5,381	2,306	363	1
Oceana	355	-	2	7	11	18	32	70	103	97	57	24	4	-
Ogemaw	221	1	1	3	4	7	5	20	82	65	41	9	3	-
Ontonagon	72	-	-	-	4	3	4	11	24	19	10	8	-	-
Osceola	276	-	2	3	14	11	22	52	86	78	43	16	1	-
Oscoda	89	1	1	1	6	3	1	12	35	18	18	3	2	-
Otsego	263	-	1	1	4	13	19	38	61	86	58	16	4	-
Ottawa	3,367	2	16	33	56	78	86	269	644	1,201	907	295	49	-
Presque Isle	143	-	-	3	2	6	6	17	37	40	35	12	2	-
Roscommon	208	-	-	-	5	9	12	26	64	60	40	10	8	-
Saginaw	2,782	17	21	68	94	124	145	452	686	813	563	216	35	-
St Clair	2,064	5	9	23	60	70	90	252	531	636	445	168	27	-
St Joseph	873	2	3	18	19	33	53	126	275	239	148	67	16	-
Sanilac	514	2	1	3	13	15	33	65	148	154	106	34	5	-
Schoolcraft	88	-	1	3	2	4	1	11	30	27	15	5	-	-
Shiawassee	885	2	4	9	21	32	49	115	227	272	188	72	9	-
Tuscola	700	2	1	9	22	26	40	98	187	215	143	46	9	-
Van Buren	1,027	2	9	14	38	53	57	171	298	263	185	89	19	-
Washtenaw	3,749	5	22	32	44	81	106	285	604	1,136	1,103	500	116	-
Wayne	31,685	117	275	582	972	1,324	1,568	4,721	8,428	8,669	6,476	2,762	506	6
Wexford	378	1	3	4	9	19	13	48	109	100	81	32	7	-
Unknown	49	-	-	1	-	1	3	5	10	15	13	5	-	1

Source: 1996 Michigan Resident Birth File, Division for Vital Records and Health Statistics, MDCH

Table 4.13
Vital Statistics for Residents of Selected Michigan Cities and Townships
Michigan Residents, 1996

City/Township	Live Births	Deaths	Infant Deaths		Fetal Deaths	
			Number	Rate	Number	Rate
Allen Park	327	379	5	.	2	.
Ann Arbor	1,344	484	7	5.2	4	.
Battle Creek	1,064	625	6	5.6	3	.
Bay City	588	409	6	10.2	3	.
Bloomfield Twp.	206	231	-	-	-	-
Burton City	350	250	2	.	-	-
Canton Twp.	1,080	276	5	.	2	.
Chesterfield Twp	387	115	2	.	-	-
Clinton Twp	1,228	712	8	6.5	5	.
Commerce Twp	350	116	-	-	2	.
Dearborn	1,739	930	6	3.5	9	5.1
Dearborn Heights	694	668	4	.	7	10.0
Delta Twp	300	178	2	.	1	.
Detroit	16,586	10,465	248	15.0	125	7.5
East Detroit	462	437	1	-	2	.
East Lansing	326	212	-	-	1	.
Farmington Hills	934	602	8	8.6	-	-
Ferndale	379	247	1	.	4	.
Flint	2,973	1,349	47	15.8	19	6.4
Flint Twp	398	334	1	.	1	.
Garden City	376	254	2	.	1	.
Georgetown Twp	474	191	6	12.7	2	.
Grand Blanc Twp	290	158	3	.	-	-
Grand Rapids	4,110	1,895	47	11.4	28	6.8
Highland Park	307	248	6	19.5	3	.
Holland	710	327	5	.	2	.
Inkster	479	299	3	.	3	.
Jackson	959	448	10	10.4	7	7.2
Kalamazoo	1,394	696	12	8.6	6	4.3
Kentwood	661	186	4	.	4	.
Lansing	2,386	1,029	22	9.2	25	10.4
Lincoln Park	572	415	2	.	1	.
Livonia	1,167	928	6	5.1	3	.
Madison Heights	445	292	3	.	-	-
Meridian Twp	411	205	3	.	1	.
Midland	518	294	6	11.6	2	.
Mount Morris Twp	212	201	4	.	1	.
Muskegon	830	478	6	7.2	7	8.4
Novi City	583	251	1	.	2	.
Oak Park	457	261	4	.	-	-
Pontiac	1,405	576	17	12.1	13	9.2
Portage	535	265	3	.	-	-
Port Huron	480	360	2	.	3	.
Redford Twp	734	594	5	.	-	-
Rochester Hills City	837	430	2	.	-	-
Roseville	739	477	10	13.5	8	10.7
Royal Oak	800	589	3	.	4	.
Saginaw	1,257	656	17	13.5	14	11.0
Saginaw Twp	394	358	-	-	1	.
St. Clair Shores	697	820	3	.	1	.
Shelby Twp	572	341	1	.	1	.
Southfield	970	857	7	7.2	4	.
Southgate	328	290	1	.	4	.
Sterling Heights	1,540	885	9	5.8	15	9.6
Taylor	977	529	9	9.2	4	.
Troy	874	432	3	.	4	.
Warren	1,840	1,505	15	8.2	10	5.4
Waterford Twp	1,015	468	3	.	12	11.7
West Bloomfield Twp	743	375	2	.	3	.
Westland	1,261	858	5	.	2	.
Wyandotte	383	358	2	.	2	.
Wyoming	1,029	359	4	.	4	.
Ypsilanti Twp	559	213	4	.	-	-

Note: Cities and townships are selected with 25,000 population or over according to the 1980 or 1990 Census.

Source: 1996 Michigan Resident Birth, Death and Fetal Death Files, Division for Vital Records and Health Statistics, MDCH

Table 4.14
Number of Deaths by Underlying Cause and County
Michigan Residents, 1996

Area	All Causes	T.B. (all forms)	All Other Infectious & Parasitic Diseases	Cancer							
				Total	Digestive Organs & Peritoneum	Respiratory & Intrathoracic Organs	Breast	Genital Organs	Urinary Organs	Leukemia	Other
Michigan	83,496	29	1,424	19,563	4,519	5,830	1,607	2,106	872	741	3,888
Alcona	172	-	1	39	4	17	3	1	2	4	8
Alger	111	-	-	23	7	7	2	3	2	-	2
Allegan	790	-	12	196	48	52	19	22	7	8	40
Alpena	352	-	3	72	20	20	3	10	4	2	13
Antrim	220	1	1	69	12	21	3	12	2	-	19
Arenac	177	-	2	38	11	12	4	4	1	1	5
Baraga	112	-	-	20	6	7	-	2	1	-	4
Barry	395	-	2	93	18	27	8	9	5	8	18
Bay	1,013	-	6	256	64	78	19	25	12	10	48
Benzie	159	-	2	40	12	14	4	2	-	2	6
Berrien	1,513	-	21	370	73	125	25	43	22	14	68
Branch	394	-	7	93	18	33	8	10	6	2	16
Calhoun	1,391	-	26	285	60	87	25	23	13	7	70
Cass	445	-	6	104	24	34	5	9	9	4	19
Charlevoix	236	-	1	58	8	18	5	11	3	4	9
Cheboygan	275	-	2	74	10	30	7	9	2	1	15
Chippewa	292	-	2	62	21	24	2	6	3	1	5
Clare	333	-	3	80	16	29	7	6	3	4	15
Clinton	429	-	6	107	24	29	7	11	8	3	25
Crawford	128	-	1	33	9	12	2	1	-	2	7
Delta	367	-	6	92	31	24	10	8	2	2	15
Dickinson	332	-	4	86	20	26	7	11	1	3	18
Eaton	759	-	13	168	42	53	11	17	6	5	34
Emmet	236	-	1	61	14	23	3	6	1	2	12
Genesee	3,755	-	49	826	206	254	62	81	36	31	156
Gladwin	300	-	3	81	14	31	7	13	4	2	10
Gogebic	252	-	1	65	11	23	6	9	4	2	10
Grd Traverse	598	-	6	172	40	52	9	23	8	6	34
Gratiot	413	-	3	93	21	27	9	17	4	1	14
Hillsdale	406	-	7	93	19	30	7	5	6	8	18
Houghton	468	-	4	109	36	28	8	12	6	1	18
Huron	437	-	2	94	24	27	9	10	7	6	11
Ingham	1,951	-	44	433	78	130	41	49	18	15	102
Ionia	413	-	6	98	20	28	13	13	6	3	15
Iosco	341	-	3	86	16	36	3	10	6	1	14
Iron	212	-	4	52	14	15	3	6	3	-	11
Isabella	339	-	1	86	18	19	8	11	5	6	19
Jackson	1,498	-	34	370	69	109	37	48	18	9	80
Kalamazoo	1,823	-	28	418	102	112	35	36	18	24	91
Kalkaska	119	-	-	26	8	7	-	2	2	1	6

Note: Genital organs cancer includes prostate cancer.

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 4.14 (continued)
 Number of Deaths by Underlying Cause and County
 Michigan Residents, 1996

Area	All Causes	T.B. (all forms)	All Other Infectious & Parasitic Diseases	Cancer							
				Total	Digestive Organs & Peritoneum	Respiratory & Intrathoracic Organs	Breast	Genital Organs	Urinary Organs	Leukemia	Other
Kent	3,939	5	57	880	223	225	71	105	43	41	172
Keweenaw	30	-	-	7	4	1	1	1	-	-	-
Lake	144	-	-	36	6	11	2	2	4	3	8
Lapeer	535	-	6	143	27	39	7	17	5	8	40
Leelanau	175	-	1	38	9	11	3	3	2	-	10
Lenawee	833	-	11	186	33	62	15	21	6	3	46
Livingston	858	-	11	224	53	54	19	25	15	11	47
Luce	79	-	1	20	4	7	-	1	2	1	5
Mackinac	133	-	3	34	8	7	1	4	4	-	10
Macomb	6,566	-	89	1,600	362	480	124	171	75	70	318
Manistee	284	-	-	77	19	22	6	13	1	2	14
Marquette	540	-	9	109	21	47	9	6	4	5	17
Mason	291	-	1	66	16	22	4	7	3	2	12
Mecosta	316	1	2	66	11	22	3	7	4	4	15
Menominee	264	-	1	47	15	10	6	5	2	-	9
Midland	508	-	4	136	22	45	14	6	5	9	35
Missaukee	126	-	1	38	10	8	2	3	1	1	13
Monroe	1,181	2	17	281	55	84	20	34	16	14	58
Montcalm	515	-	7	114	28	33	9	10	1	7	26
Montmorency	144	-	1	44	8	21	2	3	3	1	6
Muskegon	1,491	-	31	312	64	86	33	30	20	13	66
Newaygo	373	-	10	93	19	32	2	12	5	6	17
Oakland	8,617	2	146	2,114	492	568	176	217	91	71	499
Oceana	244	-	2	57	13	18	6	4	-	5	11
Ogemaw	234	-	3	48	15	12	6	5	-	4	6
Ontonagon	107	-	1	28	5	9	-	4	2	-	8
Osceola	204	-	3	55	11	17	1	8	2	3	13
Oscoda	103	-	1	30	8	8	2	4	-	-	8
Otsego	193	-	2	55	13	9	3	10	4	2	14
Ottawa	1,404	-	15	302	63	73	25	45	16	16	64
Presque Isle	169	-	2	43	14	15	1	5	1	-	7
Roscommon	322	-	4	68	14	27	5	6	1	2	13
Saginaw	1,888	-	22	488	119	133	44	56	26	21	89
St. Clair	1,371	-	7	321	74	99	25	22	16	13	72
St. Joseph	590	-	2	139	33	36	9	15	8	6	32
Sanilac	472	-	2	113	22	32	6	18	3	8	24
Schoolcraft	121	-	1	21	4	9	1	1	1	2	3
Shiawassee	557	-	5	137	24	44	8	18	6	5	32
Tuscola	472	-	3	123	22	33	11	11	6	9	31
Van Buren	661	-	9	157	34	54	8	27	3	6	25
Washtenaw	1,610	-	31	376	92	103	30	35	22	11	83
Wayne	20,607	18	576	4,653	1,151	1,443	438	497	171	151	802
Wexford	261	-	1	63	11	29	3	6	6	-	8
Unknown	8	-	-	-	-	-	-	-	-	-	-

Note: Genital organs cancer includes prostate cancer.

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 4.14 (continued)
Number of Deaths by Underlying Cause and County
Michigan Residents, 1996

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	Stroke	Atherosclerosis	Other Diseases of Arteries, Arterioles, Capillaries				
Michigan	2,348	159	35,899	27,980	414	5,748	760	997	3,010	3,677	197	968
Alcona	5	-	73	51	-	20	2	-	11	11	-	-
Alger	4	-	60	47	-	12	-	1	1	4	1	1
Allegan	17	1	315	250	-	54	4	7	45	25	-	6
Alpena	13	1	160	138	-	21	-	1	9	25	1	4
Antrim	5	-	91	78	-	7	2	4	2	8	2	1
Arenac	6	-	88	68	-	16	4	-	4	4	-	6
Baraga	3	-	63	50	-	11	-	2	6	2	1	-
Barry	9	-	162	133	1	23	1	4	23	21	3	3
Bay	35	1	453	358	10	57	19	9	26	63	3	8
Benzie	5	-	84	65	2	14	2	1	3	7	-	-
Berrien	65	5	607	452	9	114	19	13	45	55	6	20
Branch	20	-	174	146	2	20	2	4	13	19	-	1
Calhoun	54	3	593	444	9	111	16	13	63	82	7	11
Cass	15	-	184	145	6	26	3	4	17	20	2	3
Charlevoix	7	-	102	77	2	18	1	4	6	12	-	-
Cheboygan	2	-	112	92	1	17	-	2	9	20	1	3
Chippewa	11	-	132	101	1	24	-	6	8	14	1	1
Clare	10	-	147	130	1	12	-	4	15	17	1	3
Clinton	24	1	172	121	3	42	-	6	25	20	-	3
Crawford	5	2	46	32	2	5	6	1	2	7	1	1
Delta	13	-	167	130	3	27	2	5	18	8	1	1
Dickinson	9	1	158	122	1	21	10	4	22	5	-	4
Eaton	19	1	319	224	2	65	16	12	29	32	3	7
Emmet	7	-	97	75	-	16	4	2	10	16	1	2
Genesee	128	15	1,600	1,279	24	247	14	36	95	201	8	54
Gladwin	2	-	145	117	1	18	2	7	7	15	-	1
Gogebic	6	1	104	74	-	24	-	6	11	15	2	3
Grd Traverse	11	1	220	168	1	36	4	11	21	30	1	6
Gratiot	9	1	182	147	4	29	-	2	42	14	3	1
Hillsdale	6	2	159	125	1	25	3	5	23	21	1	3
Houghton	11	-	212	157	1	45	4	5	21	27	2	3
Huron	9	-	221	154	4	56	2	5	14	15	1	2
Ingham	49	3	798	603	9	137	26	23	65	91	4	18
Ionia	17	-	159	117	1	30	5	6	15	21	2	4
Iosco	12	-	150	108	1	22	12	7	23	18	1	6
Iron	6	1	93	71	2	15	1	4	3	12	1	2
Isabella	12	-	145	105	2	31	2	5	15	15	-	4
Jackson	29	-	611	446	7	130	14	14	70	103	-	17
Kalamazoo	54	7	684	520	11	116	11	26	99	83	3	19
Kalkaska	4	1	54	36	1	7	9	1	4	5	1	3

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 4.14 (continued)
Number of Deaths by Underlying Cause and County
Michigan Residents, 1996

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	Stroke	Atherosclerosis	Other Diseases of Arteries Arterioles Capillaries				
Kent	80	9	1,635	1,261	15	277	18	64	180	195	18	42
Keweenaw	2	-	15	12	-	3	-	-	2	1	-	-
Lake	4	1	66	51	-	9	2	4	5	10	-	2
Lapeer	16	-	243	178	1	51	1	12	14	18	3	3
Leelanau	4	-	79	57	1	16	2	3	3	10	-	1
Lenawee	27	1	379	272	5	67	28	7	23	50	1	4
Livingston	31	6	345	274	2	50	5	14	20	41	1	6
Luce	2	-	31	18	-	11	-	2	1	3	-	1
Mackinac	2	1	53	45	1	5	1	1	7	7	1	1
Macomb	196	12	2,985	2,387	25	394	112	67	209	294	8	64
Manistee	10	-	130	91	2	18	11	8	7	8	1	4
Marquette	15	-	229	157	2	54	4	12	26	27	-	7
Mason	15	-	116	84	1	21	2	8	14	16	1	1
Mecosta	10	-	149	121	1	21	1	5	16	18	2	1
Menominee	15	-	144	111	-	16	13	4	8	14	-	2
Midland	11	2	193	140	4	35	8	6	17	36	-	5
Missaukee	3	-	54	40	1	11	-	2	5	4	-	-
Monroe	39	1	540	425	5	89	11	10	23	45	5	17
Montcalm	11	1	222	170	3	41	2	6	17	40	1	2
Montmorency	2	-	59	49	2	5	2	1	4	10	-	1
Muskegon	41	-	677	517	11	101	31	17	63	67	2	16
Newaygo	13	1	146	120	-	18	4	4	7	18	1	4
Oakland	220	17	3,712	2,838	27	672	66	109	294	376	18	120
Oceana	6	-	97	76	1	15	4	1	12	12	-	3
Ogemaw	5	-	116	85	-	17	11	3	7	7	1	3
Ontonagon	3	-	55	42	1	7	2	3	2	5	-	1
Osceola	3	-	81	67	-	6	1	7	6	7	-	2
Oscoda	1	-	46	35	-	10	-	1	5	2	-	2
Otsego	5	1	69	56	1	10	-	2	2	6	-	-
Ottawa	25	3	594	453	13	95	6	27	91	66	1	13
Presque Isle	4	-	79	65	1	11	-	2	6	8	1	-
Roscommon	3	-	161	133	-	17	6	5	16	21	2	4
Saginaw	46	3	789	619	4	126	18	22	57	89	4	22
St. Clair	60	3	601	469	9	91	11	21	37	82	3	16
St. Joseph	25	1	241	196	4	33	3	5	18	27	-	3
Sanilac	27	1	211	168	1	37	1	4	18	21	-	2
Schoolcraft	6	-	55	46	-	9	-	-	13	5	-	-
Shiawassee	8	-	256	163	3	61	20	9	20	28	2	3
Tuscola	7	2	206	162	1	33	2	8	9	17	1	2
Van Buren	25	2	281	213	7	41	10	10	25	26	1	4
Washtenaw	50	2	667	504	4	128	16	15	51	70	10	15
Wayne	535	40	8,875	7,159	129	1,272	102	213	700	677	43	329
Wexford	7	1	118	92	1	23	1	1	10	10	-	5
Unknown	-	-	3	3	-	-	-	-	-	-	-	-

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 4.14 (continued)
 Number of Deaths by Underlying Cause and County
 Michigan Residents, 1996

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			
Michigan	1,000	5	408	539	363	8,796	3,062	1,577	1,485	1,107	804	138
Alcona	2	-	-	-	-	19	9	5	4	2	-	-
Alger	-	-	-	1	1	9	3	1	2	2	-	1
Allegan	11	-	5	4	3	95	39	22	17	15	-	1
Alpena	3	-	3	-	-	37	16	4	12	4	-	1
Antrim	4	-	2	1	1	25	6	3	3	1	-	-
Arenac	2	-	-	-	1	15	8	6	2	3	-	-
Baraga	1	-	-	-	1	6	5	1	4	4	-	-
Barry	3	-	5	2	-	40	23	13	10	4	1	1
Bay	12	-	4	5	1	91	36	27	9	10	2	1
Benzie	3	-	-	-	-	11	2	2	-	2	-	-
Berrien	14	-	11	8	8	178	61	24	37	17	20	2
Branch	3	-	2	3	1	36	14	7	7	6	1	1
Calhoun	22	-	3	3	6	145	60	37	23	18	10	-
Cass	2	-	3	-	1	55	26	15	11	5	2	-
Charlevoix	1	-	4	-	1	29	12	5	7	3	-	-
Cheboygan	8	-	1	1	3	30	8	2	6	1	-	-
Chippewa	3	-	2	2	-	36	15	9	6	3	-	-
Clare	10	-	1	1	3	27	14	9	5	-	1	-
Clinton	5	-	2	-	2	35	21	16	5	6	-	-
Crawford	1	-	-	1	2	17	6	4	2	3	-	-
Delta	6	-	-	-	3	36	14	5	9	2	-	-
Dickinson	2	-	1	-	1	32	4	-	4	3	-	-
Eaton	9	-	2	4	5	86	47	26	21	13	2	-
Emmet	6	-	-	1	-	23	7	3	4	4	-	-
Genesee	50	1	23	40	19	379	154	88	66	57	51	5
Gladwin	4	-	1	2	-	24	9	6	3	5	1	-
Gogebic	2	-	-	-	-	29	7	4	3	6	-	-
Grd Traverse	3	-	3	4	4	83	22	11	11	9	1	1
Gratiot	3	-	2	3	3	38	13	5	8	3	-	-
Hillsdale	8	-	2	1	-	44	25	15	10	9	2	-
Houghton	2	-	2	1	1	53	16	7	9	2	2	-
Huron	6	-	1	3	4	42	19	11	8	4	-	-
Ingham	22	-	12	17	10	262	77	39	38	30	15	1
Ionia	5	-	3	3	1	50	17	14	3	9	1	2
Iosco	1	-	1	-	1	21	13	3	10	5	-	-
Iron	4	-	-	-	-	21	9	6	3	3	-	1
Isabella	5	-	3	2	1	32	14	9	5	4	-	-
Jackson	18	-	6	11	2	142	57	30	27	17	7	4
Kalamazoo	22	-	9	13	6	262	78	29	49	29	9	-
Kalkaska	1	-	-	-	1	5	11	5	6	1	1	1

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 4.14 (continued)
 Number of Deaths by Underlying Cause and County
 Michigan Residents, 1996

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	55	1	22	40	13	466	168	89	79	44	26	3
Keweenaw	-	-	-	-	-	1	2	1	1	-	-	-
Lake	3	-	2	1	-	8	5	-	5	1	-	-
Lapeer	8	-	3	4	1	34	24	17	7	14	1	-
Leelanau	2	-	2	-	-	25	9	2	7	1	-	-
Lenawee	10	-	2	2	1	91	35	24	11	7	3	-
Livingston	12	-	6	3	2	93	45	34	11	11	1	-
Luce	1	-	-	-	1	11	7	-	7	-	-	-
Mackinac	2	-	3	2	-	10	3	1	2	4	-	-
Macomb	72	-	29	29	23	644	189	92	97	84	28	11
Manistee	1	-	2	2	1	24	12	4	8	5	-	-
Marquette	4	-	1	2	1	72	28	8	20	6	1	3
Mason	2	-	1	2	-	34	15	6	9	7	-	-
Mecosta	3	-	3	1	-	32	10	5	5	2	-	-
Menominee	2	-	-	-	1	16	11	3	8	2	1	-
Midland	1	-	5	1	-	63	28	15	13	5	1	-
Missaukee	2	-	-	1	-	10	6	3	3	1	1	-
Monroe	14	-	5	7	5	106	47	27	20	20	5	2
Montcalm	7	-	-	3	-	52	28	12	16	7	3	-
Montmorency	1	-	-	-	-	19	1	1	-	1	1	-
Muskegon	10	-	15	6	4	134	72	37	35	27	13	1
Newaygo	6	-	4	-	2	39	24	17	7	4	-	1
Oakland	123	-	35	41	35	950	214	105	109	120	49	31
Oceana	5	-	2	-	3	28	13	5	8	3	1	-
Ogemaw	2	-	-	2	2	21	12	6	6	5	-	-
Ontonagon	1	-	-	-	-	5	5	4	1	1	-	-
Osceola	1	-	1	1	-	27	14	10	4	3	-	-
Oscoda	-	-	-	-	-	9	4	2	2	3	-	-
Otsego	5	-	-	5	2	25	8	4	4	5	3	-
Ottawa	21	-	10	15	6	161	65	33	32	14	1	1
Presque Isle	1	-	-	-	-	17	5	3	2	3	-	-
Roscommon	2	-	1	-	1	22	13	5	8	4	-	-
Saginaw	20	-	7	15	9	190	73	29	44	31	19	4
St. Clair	15	-	9	4	5	111	67	41	26	26	2	2
St. Joseph	7	-	1	5	1	72	34	18	16	11	3	-
Sanilac	6	-	3	2	-	44	18	12	6	4	-	-
Schoolcraft	1	-	1	1	2	11	3	2	1	1	-	-
Shiawassee	5	-	2	2	2	62	18	11	7	5	2	-
Tuscola	6	-	2	2	2	54	28	21	7	7	1	-
Van Buren	3	-	1	2	2	76	33	21	12	9	3	2
Washtenaw	10	-	9	12	10	207	53	23	30	27	10	-
Wayne	257	3	100	184	127	2,089	605	288	317	246	496	54
Wexford	2	-	-	1	2	29	10	8	2	2	-	-
Unknown	-	-	-	2	-	2	1	-	1	-	-	-

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 4.15
Cases of Certain Reported Communicable Diseases by County
 Michigan Residents, 1996

Area	Total	Gonor- rhea	Chicken Pox	Hepatitis (all types)	Salmo- nella Infections	Tubercu- losis	Syphilis	Mumps	Dysentery Bacillary	Measles	Rubella	Meningo- coccal Infections	Whoop- ing Cough
Michigan	40,681	15,267	22,270	1,282	1,012	443	203	48	41	3	2	51	59
Alcona	-	-	-	-	-	-	-	-	-	-	-	-	-
Alger	-	-	-	-	-	-	-	-	-	-	-	-	-
Allegan	396	12	359	9	8	4	1	-	-	-	-	-	3
Alpena	131	-	124	3	3	1	-	-	-	-	-	-	-
Antrim	80	-	78	-	1	-	-	1	-	-	-	-	-
Arenac	83	-	79	2	-	2	-	-	-	-	-	-	-
Baraga	30	-	30	-	-	-	-	-	-	-	-	-	-
Barry	100	5	89	-	4	1	-	-	-	-	-	-	1
Bay	524	35	478	4	4	-	-	2	-	-	-	-	1
Benzie	9	-	6	-	3	-	-	-	-	-	-	-	-
Berrien	1,034	567	341	72	28	8	12	-	2	-	-	2	2
Branch	105	3	95	4	3	-	-	-	-	-	-	-	-
Calhoun	469	445	-	12	7	3	-	-	1	-	-	1	-
Cass	93	21	56	5	7	3	-	-	-	-	1	-	-
Charlevoix	36	-	33	-	1	-	-	1	-	-	-	-	1
Cheboygan	45	-	41	1	3	-	-	-	-	-	-	-	-
Chippewa	107	2	98	-	6	-	-	-	-	-	-	-	1
Clare	20	1	17	-	-	1	-	-	-	-	-	-	1
Clinton	12	3	-	1	5	1	-	1	-	-	-	-	1
Crawford	42	-	39	-	2	1	-	-	-	-	-	-	-
Delta	98	1	89	3	5	-	-	-	-	-	-	-	-
Dickinson	128	-	122	2	4	-	-	-	-	-	-	-	-
Eaton	232	16	198	6	9	2	-	-	-	-	-	-	1
Emmet	17	-	14	-	2	-	-	-	-	-	-	-	1
Genesee	2,586	1,848	652	36	32	10	-	-	-	-	-	-	2
Gladwin	184	1	177	1	3	2	-	-	-	-	-	-	-
Gogebic	32	-	32	-	-	-	-	-	-	-	-	-	-
Grd Traverse	463	2	449	3	6	1	-	-	-	-	-	-	2
Gratiot	8	6	-	1	-	1	-	-	-	-	-	-	-
Hillsdale	108	2	78	19	9	-	-	-	-	-	-	-	-
Houghton	21	1	17	-	-	2	1	-	-	-	-	-	-
Huron	-	-	-	-	-	-	-	-	-	-	-	-	-
Ingham	684	533	77	21	32	12	1	-	3	-	-	-	5
Ionia	64	9	52	-	2	-	1	-	-	-	-	-	-
Iosco	12	3	8	1	-	-	-	-	-	-	-	-	-
Iron	90	-	90	-	-	-	-	-	-	-	-	-	-
Isabella	196	13	164	-	14	2	-	1	2	-	-	-	-
Jackson	493	154	300	11	14	9	2	1	2	-	-	-	-
Kalamazoo	1,164	324	699	100	30	3	4	-	-	-	-	3	1
Kalkaska	119	2	114	1	1	-	-	-	1	-	-	-	-

Source: Bureau of Infectious Disease Control, Disease Control Division, MDCH

Table 4.15 (continued)
Cases of Certain Reported Communicable Diseases by County
Michigan Residents, 1996

Area	Total	Gonorrhea	Chicken Pox	Hepatitis (all types)	Salmonella Infections	Tuberculosis	Syphilis	Mumps	Dysentery Bacillary	Measles	Rubella	Meningococcal Infections	Whooping Cough
Kent	2,554	1,128	1,297	26	60	23	12	-	-	1	-	2	5
Keweenaw	-	-	-	-	-	-	-	-	-	-	-	-	-
Lake	3	1	-	2	-	-	-	-	-	-	-	-	1
Lapeer	444	4	426	7	5	-	-	1	-	-	-	-	1
Leelanau	6	1	-	-	-	4	-	-	-	-	-	-	-
Lenawee	206	15	168	5	15	1	1	-	-	-	-	-	1
Livingston	229	6	191	6	18	4	-	2	-	-	-	2	-
Luce	-	-	-	-	-	-	-	-	-	-	-	-	-
Mackinac	4	4	-	-	-	-	-	-	-	-	-	-	-
Macomb	1,972	176	1,659	42	66	23	-	2	2	-	-	1	1
Manistee	-	-	-	-	-	-	-	-	-	-	-	-	-
Marquette	66	4	42	-	15	1	-	1	2	-	-	1	-
Mason	113	4	104	1	4	-	-	-	-	-	-	-	-
Mecosta	101	17	75	3	4	1	-	1	-	-	-	-	-
Menominee	32	-	26	1	5	-	-	-	-	-	-	-	-
Midland	191	6	176	4	3	2	-	-	-	-	-	-	-
Missaukee	6	-	4	-	2	-	-	-	-	-	-	-	-
Monroe	389	11	358	6	10	-	-	2	2	-	-	-	-
Montcalm	21	10	-	9	-	1	-	-	1	-	-	-	-
Montmorency	12	-	12	-	-	-	-	-	-	-	-	-	-
Muskegon	871	413	421	11	11	3	2	3	3	-	-	-	4
Newaygo	76	-	72	1	1	2	-	-	-	-	-	-	-
Oakland	5,207	878	4,035	100	110	33	16	12	6	1	1	8	7
Oceana	4	1	-	1	1	1	-	-	1	-	-	-	-
Ogemaw	1	-	-	-	-	-	-	-	-	-	-	-	-
Ontonagon	19	-	19	-	-	-	-	-	-	-	-	-	-
Osceola	26	2	14	1	9	-	-	-	-	-	-	-	-
Oscoda	13	-	11	-	-	1	-	1	-	-	-	-	-
Otsego	38	-	36	-	2	-	-	-	-	-	-	-	-
Ottawa	478	47	380	11	30	5	1	1	2	-	-	1	-
Presquele	47	-	47	-	-	-	-	-	-	-	-	-	-
Roscommon	84	1	78	2	1	-	-	-	2	-	-	-	-
Saginaw	1,341	734	521	47	9	6	21	1	1	-	-	-	1
St. Clair	1,111	30	1,045	9	16	5	1	3	-	-	-	-	2
St. Joseph	174	9	148	13	4	-	-	-	-	-	-	-	-
Sanilac	7	1	-	3	3	-	-	-	-	-	-	-	-
Schoolcraft	-	-	-	-	-	-	-	-	-	-	-	-	-
Shiawassee	106	5	88	3	5	1	-	-	-	-	-	2	2
Tuscola	145	1	134	5	4	-	1	-	-	-	-	-	-
Van Buren	155	24	115	7	7	-	2	-	-	-	-	-	-
Washtenaw	389	291	5	38	34	8	2	-	-	-	-	5	6
Wayne	13,898	7,434	5,156	599	298	249	116	11	7	1	-	23	4
Wexford	127	-	112	1	12	-	-	-	1	-	-	-	1

Source: Bureau of Infectious Disease Control, Disease Control Division, MDCH

Table 4.16
Number of Deaths by Cause
Michigan Residents, 1996

ICD List Number	Cause of Death	Number
I. INFECTIOUS AND PARASITIC DISEASES (001-139)		
3	Other salmonella infections	2
8	Intestinal infections due to other organisms	10
9	Ill-defined intestinal infections	13
11	Pulmonary tuberculosis	26
17	Tuberculosis of other organs	2
18	Miliary tuberculosis	1
27	Other zoonotic bacterial diseases	1
31	Diseases due to other mycobacteria	10
36	Meningococcal infection	3
38	Septicemia	578
39	Actinomycotic infections	1
40	Other bacterial diseases	3
41	Bacterial infection in conditions classified elsewhere and of unspecified site	14
42	Human immunodeficiency virus infection [AIDS] with specified conditions	483
43	Human immunodeficiency virus infection [AIDS] causing other specified conditions	8
44	Other human immunodeficiency virus infection [AIDS]	19
46	Slow virus infection of central nervous system	9
48	Other enterovirus diseases of central nervous system	1
49	Other non-arthropod-borne viral diseases of central nervous system	2
52	Chickenpox	3
53	Herpes zoster	3
54	Herpes simplex	6
70	Viral hepatitis	98
78	Other diseases due to viruses and Chlamydiae	9
79	Viral infection in conditions classified elsewhere and of unspecified site	9
93	Cardiovascular syphilis	2
112	Candidiasis	16
115	Histoplasmosis	3
116	Blastomycotic infection	1
117	Other mycoses	48
133	Acariasis	1
135	Sarcoidosis	39
136	Other and unspecified infections and parasitic diseases	18
137	Late effects of tuberculosis	3
138	Late effects of acute poliomyelitis	6
139	Late effects of other infectious and parasitic diseases	2
II. CANCER (140-239)		
140	Cancer of lip	3
141	Cancer of tongue	52
142	Cancer of major salivary glands	24
143	Cancer of gum	5
144	Cancer of floor of mouth	9
145	Cancer of other and unspecified parts of mouth	52
146	Cancer of oropharynx	39
147	Cancer of nasopharynx	24

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 4.16 (continued)
 Number of Deaths by Cause
 Michigan Residents, 1996

ICD List Number	Cause of Death	Number
		19
148	Cancer of hypopharynx	49
149	Cancer of other and ill-defined sites within the lip, oral cavity and pharynx	442
150	Cancer of esophagus	429
151	Cancer of stomach	39
152	Cancer of small intestine, including duodenum	1,748
153	Cancer of colon	282
154	Cancer of rectum, rectosigmoid junction and anus	389
155	Cancer of liver and intrahepatic bile ducts	140
156	Cancer of gallbladder and extrahepatic bile ducts	967
157	Cancer of pancreas	24
158	Cancer of retroperitoneum and peritoneum	59
159	Cancer of other and ill-defined sites within the digestive organs and peritoneum	23
160	Cancer of nasal cavities, middle ear and accessory sinuses	133
161	Cancer of larynx	5,656
162	Cancer of trachea, bronchus and lung	5
163	Cancer of pleura	13
164	Cancer of thymus, heart and mediastinum	36
170	Cancer of bone and articular cartilage	142
171	Cancer of connective and other soft tissue	201
172	Cancer of skin	61
173	Other cancer of skin	1,593
174	Cancer of female breast	14
175	Cancer of male breast	117
179	Cancer of uterus, part unspecified	146
180	Cancer of cervix uteri	115
182	Cancer of body of uterus	474
183	Cancer of ovary and other uterine adnexa	33
184	Cancer of other and unspecified female genital organs	1,195
185	Cancer of prostate	17
186	Cancer of testis	9
187	Cancer of penis and other male genital organs	448
188	Cancer of bladder	424
189	Cancer of kidney and other and unspecified urinary organs	11
190	Cancer of eye	494
191	Cancer of brain	11
192	Cancer of other and unspecified parts of nervous system	29
193	Cancer of thyroid gland	30
194	Cancer of other endocrine glands and related structures	156
195	Cancer of other and ill-defined sites	1,122
199	Cancer without specification of site	39
200	Lymphosarcoma and reticulosarcoma	49
201	Hodgkin's disease	812
202	Other cancer of lymphoid and histiocytic tissue	419
203	Multiple myeloma and immunoproliferative neoplasms	191
204	Lymphoid leukemia	331
205	Myeloid leukemia	5
206	Monocytic leukemia	5
207	Other specified leukemia	209
208	Leukemia of unspecified cell type	4
211	Benign neoplasm of other parts of digestive system	

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 4.16 (continued)
 Number of Deaths by Cause
 Michigan Residents, 1996

ICD List Number	Cause of Death	Number
212	Benign neoplasm of respiratory and intrathoracic organs	4
216	Benign neoplasm of skin	2
218	Uterine leiomyoma	1
219	Other benign neoplasm of uterus	1
220	Benign neoplasm of ovary	1
223	Benign neoplasm of kidney and other urinary organs	1
225	Benign neoplasm of brain and other parts of nervous system	34
226	Benign neoplasm of thyroid gland	1
227	Benign neoplasm of other endocrine glands and related structures	7
228	Hemangioma and lymphangioma, any site	4
229	Benign neoplasm of other and unspecified sites	1
230	Carcinoma in situ of digestive organs	2
234	Carcinoma in situ of other and unspecified sites	1
235	Neoplasm of uncertain behavior of digestive and respiratory systems	6
236	Neoplasm of uncertain behavior of genitourinary organs	1
237	Neoplasm of uncertain behavior of endocrine glands and nervous system	8
238	Neoplasm of uncertain behavior of other and unspecified sites and tissues	58
239	Neoplasm of unspecified nature	107
III. ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES AND IMMUNITY DISORDERS (240-279)		
240	Simple and unspecified goitre	1
242	Thyrotoxicosis with or without goiter	7
244	Acquired hypothyroidism	48
245	Thyroidism	1
250	Diabetes mellitus	2,348
251	Other disorders of pancreatic internal secretion	10
252	Disorders of parathyroid gland	1
253	Disorders of the pituitary gland and its hypothalamic control	9
255	Disorders of adrenal glands	1
259	Other endocrine disorders	5
260	Kwashiorkor	8
261	Nutritional marasmus	7
262	Other severe protein-calorie malnutrition	1
263	Other and unspecified protein-calorie malnutrition	140
269	Other nutritional deficiencies	3
270	Disorders of amino-acid transport and metabolism	2
271	Disorders of carbohydrate transport and metabolism	3
272	Disorders of lipid metabolism	120
273	Disorders of plasma protein metabolism	18
274	Gout	3
275	Disorders of mineral metabolism	13
276	Disorders of fluid, electrolyte and acid-base balance	275
277	Other and unspecified disorders of metabolism	79
278	Obesity and other hyperalimentation	67
279	Disorders involving the immune mechanism	27

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 4.16 (continued)
 Number of Deaths by Cause
 Michigan Residents, 1996

ICD List Number	Cause of Death	Number
IV. DISEASES OF BLOOD AND BLOOD-FORMING ORGANS (280-289)		
280	Iron deficiency anemias	5
281	Other deficiency anemias	7
282	Hereditary hemolytic anemias	28
283	Acquired hemolytic anemias	5
284	Aplastic anemias	34
285	Other and unspecified anemia	72
286	Coagulation defects	57
287	Purpura and other hemorrhagic conditions	29
288	Diseases of white blood cells	14
289	Other diseases of blood and blood-forming organs	135
V. MENTAL DISORDERS (290-319)		
290	Senile and presenile organic psychotic conditions	636
291	Alcoholic psychoses	8
294	Other organic psychotic conditions (chronic)	3
295	Schizophrenic disorders	13
296	Affective psychoses	5
298	Other nonorganic psychoses	254
300	Neurotic disorders	3
303	Alcohol dependence syndrome	175
304	Drug dependence	4
305	Nondependent abuse of drugs	237
307	Special symptoms or syndromes, not elsewhere classified	12
308	Acute reaction to stress	1
310	Specific nonpsychotic mental disorders following organic brain damage	48
311	Depressive disorder, not elsewhere classified	16
318	Other specified mental retardation	4
319	Unspecified mental retardation	10
VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS (320-389)		
320	Bacterial meningitis	13
322	Meningitis of unspecified cause	11
323	Encephalitis, myelitis and encephalomyelitis	6
324	Intracranial and intraspinal abscess	10
325	Phlebitis and thrombophlebitis of intracranial venous sinuses	3
326	Late effects of intracranial abscess or pyogenic infection	2
330	Cerebral degenerations usually manifest in childhood	11
331	Other cerebral degenerations	635
332	Parkinson's disease	384
333	Other extrapyramidal disease and abnormal movement disorders	39
334	Spinocerebellar disease	10
335	Anterior horn cell disease	185
336	Other diseases of spinal cord	5
337	Disorders of the autonomic nervous system	1
340	Multiple sclerosis	112
341	Other demyelinating diseases of central nervous system	2
342	Hemiplegia	5

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 4.16 (continued)
 Number of Deaths by Cause
 Michigan Residents, 1996

ICD List Number	Cause of Death	Number
343	Infantile cerebral palsy	39
344	Other paralytic syndromes	27
345	Epilepsy	108
348	Other conditions of brain	147
349	Other and unspecified disorders of the nervous system	14
353	Nerve root and plexus disorders	1
354	Monneuritis of upper limb	1
355	Monneuritis of lower limb	2
356	Hereditary and idiopathic peripheral neuropathy	17
357	Inflammatory and toxic neuropathy	10
358	Myoneural disorders	22
359	Muscular dystrophies and other myopathies	39
362	Other retinal disorders	1
365	Glaucoma	1
376	Disorders of the orbit	2
382	Suppurative and unspecified otitis media	2
VII. DISEASES OF THE CIRCULATORY SYSTEM (390-459)		
390	Rheumatic fever with heart involvement	1
391	Rheumatic fever with heart involvement	3
394	Diseases of mitral valve	73
395	Diseases of aortic valve	7
396	Diseases of mitral and aortic valves	34
397	Diseases of other endocardial structures	17
398	Other rheumatic heart disease	33
401	Essential hypertension	211
402	Hypertensive heart disease	1,015
403	Hypertensive renal disease	203
404	Hypertensive heart and renal disease	91
410	Acute myocardial infarction	8,515
411	Other acute and subacute forms of ischemic heart disease	14
412	Old myocardial infarction	23
413	Angina pectoris	33
414	Other forms of chronic ischemic heart disease	9,459
415	Acute pulmonary heart disease	237
416	Chronic pulmonary heart disease	119
417	Other diseases of pulmonary circulation	2
420	Acute pericarditis	1
421	Acute and subacute endocarditis	32
422	Acute myocarditis	8
423	Other diseases of pericardium	19
424	Other diseases of endocardium	561
425	Cardiomyopathy	1,143
426	Conduction disorders	23
427	Cardiac dysrhythmias	854
428	Heart failure	1,874
429	Ill-defined descriptions and complications of heart disease	3,789
430	Subarachnoid hemorrhage	259
431	Intracerebral hemorrhage	635

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 4.16 (continued)
 Number of Deaths by Cause
 Michigan Residents, 1996

ICD List Number	Cause of Death	Number
432	Other and unspecified intracranial hemorrhage	199
433	Occlusion and stenosis of precerebral arteries	43
434	Occlusion of cerebral arteries	774
435	Transient cerebral ischemia	13
436	Acute but ill-defined cerebrovascular disease	2,946
437	Other and ill-defined cerebrovascular disease	409
438	Late effects of cerebrovascular disease	470
440	Atherosclerosis	760
441	Aortic aneurysm	616
442	Other aneurysm	23
443	Other peripheral vascular disease	225
444	Arterial embolism and thrombosis	54
446	Polyarteritis nodosa and allied conditions	35
447	Other disorders of arteries and arterioles	41
448	Diseases of capillaries	3
451	Phlebitis and thrombophlebitis	93
452	Portal vein thrombosis	6
453	Other venous embolism and thrombosis	23
454	Varicose veins of lower extremities	5
456	Varicose veins of other sites	12
457	Noninfective disorders of lymphatic channels	1
458	Hypotension	30
459	Other disorders of circulatory system	44
VIII. DISEASES OF THE RESPIRATORY SYSTEM (460-519)		
461	Acute sinusitis	1
464	Acute laryngitis and tracheitis	1
465	Acute upper respiratory infections of multiple or unspecified sites	4
466	Acute bronchitis and bronchiolitis	19
471	Nasal polyps	1
473	Chronic sinusitis	3
475	Peritonsillar abscess	1
478	Other diseases of upper respiratory tract	4
480	Viral pneumonia	16
481	Pneumococcal pneumonia	82
482	Other bacterial pneumonia	108
483	Pneumonia due to other specified organism	5
485	Bronchopneumonia, organism unspecified	88
486	Pneumonia, organism unspecified	2,685
487	Influenza	26
490	Bronchitis, not specified as acute or chronic	15
491	Chronic bronchitis	79
492	Emphysema	797
493	Asthma	190
494	Bronchiectasis	26
495	Extrinsic allergic alveolitis	2
496	Chronic airways obstruction, not elsewhere classified	2,568
500	Coal workers' pneumoconiosis	3
501	Asbestosis	9

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 4.16 (continued)
Number of Deaths by Cause
Michigan Residents, 1996

ICD List Number	Cause of Death	Number
502	Pneumoconiosis due to other silica or silicates	6
505	Pneumoconiosis, unspecified	4
506	Respiratory conditions due to chemical fumes and vapours	2
507	Pneumonitis due to solids and liquids	290
508	Respiratory conditions due to other and unspecified external agents	1
510	Empyema	3
511	Pleurisy	30
512	Pneumothorax	14
513	Abscess of lung and mediastinum	14
514	Pulmonary congestion and hypostasis	19
515	Postinflammatory pulmonary fibrosis	341
516	Other alveolar and parietoalveolar pneumopathy	20
518	Other diseases of lung	150
519	Other diseases of respiratory system	41
IX. DISEASES OF THE DIGESTIVE SYSTEM (520-579)		
522	Diseases of pulp and periapical tissues	1
527	Diseases of the salivary glands	3
528	Diseases of the oral soft tissues, excluding lesions specific for gingiva and tongue	2
530	Diseases of esophagus	57
531	Gastric ulcer	56
532	Duodenal ulcer	69
533	Peptic ulcer, site unspecified	72
534	Gastrojejunal ulcer	1
535	Gastritis and duodenitis	16
536	Disorders of function of stomach	4
537	Other disorders of stomach and duodenum	23
540	Acute appendicitis	12
541	Appendicitis, unqualified	4
550	Inguinal hernia	9
551	Other hernia of abdominal cavity, with gangrene	8
552	Other hernia of abdominal cavity with obstruction, without mention of gangrene	17
553	Other hernia of abdominal cavity without mention of obstruction or gangrene	29
555	Regional enteritis	25
556	Idiopathic proctocolitis	17
557	Vascular insufficiency of intestine	323
558	Other noninfective gastroenteritis and colitis	37
560	Intestinal obstruction without mention of hernia	219
562	Diverticula of intestine	127
564	Functional digestive disorders, not elsewhere classified	7
565	Anal fissure and fistula	1
566	Abscess of anal and rectal regions	4
567	Peritonitis	69
568	Other disorders of peritoneum	8
569	Other disorders of intestine	89
570	Acute and subacute necrosis of liver	14
571	Chronic liver disease and cirrhosis	968
572	Liver abscess and sequelae of chronic liver disease	134
573	Other disorders of liver	83

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 4.16 (continued)
 Number of Deaths by Cause
 Michigan Residents, 1996

ICD List Number	Cause of Death	Number
574	Cholelithiasis	31
575	Other disorders of gallbladder	57
576	Other disorders of biliary tract	41
577	Diseases of pancreas	105
578	Gastrointestinal hemorrhage	258
579	Intestinal malabsorption	7
X. DISEASES OF THE GENITOURINARY SYSTEM (580-629)		
580	Acute glomerulonephritis	5
581	Nephrotic syndrome	13
582	Chronic glomerulonephritis	30
583	Nephritis and nephropathy, not specified as acute or chronic	13
584	Acute renal failure	174
585	Chronic renal failure	241
586	Renal failure, unspecified	521
587	Renal sclerosis, unspecified	1
588	Disorders resulting from impaired renal function	2
590	Infections of kidney	28
591	Hydronephrosis	5
592	Calculus of kidney and ureter	8
593	Other disorders of kidney and ureter	150
594	Calculus of lower urinary tract	1
595	Cystitis	2
596	Other disorders of bladder	8
597	Urethritis, not sexually transmitted, and urethral syndrome	1
599	Other disorders of urethra and urinary tract	457
600	Hyperplasia of prostate	11
602	Other disorders of prostate	2
604	Orchitis and epididymitis	1
607	Disorders of the penis	1
608	Other disorders of male genital organs	3
611	Other disorders of breast	4
614	Inflammatory disease of ovary, fallopian tube, pelvic cellular tissue and peritoneum	6
620	Noninflammatory disorders of ovary, fallopian tube and broad ligament	2
XI. COMPLICATIONS OF PREGNANCY, CHILDBIRTH, AND THE PUERPERIUM (630-676)		
642	Hypertension complicating pregnancy, childbirth and the puerperium	1
658	Other problems associated with amniotic cavity and membranes	1
671	Venous complications in pregnancy and the puerperium	1
673	Obstetrical pulmonary embolism	1
674	Other and unspecified complications of the puerperium, not elsewhere classified	1
XII. DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE (680-709)		
682	Other cellulitis and abscess	30
686	Other local infections of skin and subcutaneous tissue	7
694	Bullous dermatoses	6
695	Erythematous conditions	9
696	Psoriasis and similar disorders	3

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 4.16 (continued)
Number of Deaths by Cause
Michigan Residents, 1996

ICD List Number	Cause of Death	Number
707	Chronic ulcer of skin	68
709	Other disorders of skin and subcutaneous tissue	3
XIII. DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE (710-739)		
710	Diffuse diseases of connective tissue	111
711	Arthropathy associated with infections	7
714	Rheumatoid arthritis and other inflammatory polyarthropathies	73
715	Osteoarthritis and allied disorders	15
716	Other and unspecified arthropathies	4
718	Other derangement of joint	2
719	Other and unspecified disorder of joint	1
720	Ankylosing spondylitis and other inflammatory spondylopathies	2
721	Spondylosis and allied disorders	3
722	Invertebral disc disorders	2
723	Other disorders of cervical region	2
724	Other and unspecified disorders of back	5
725	Polymyalgia rheumatica	2
728	Disorders of muscle, ligament and fascia	12
729	Other disorders of soft tissues	12
730	Osteomyelitis, periostitis and other infections involving bone	22
731	Osteitis deformans and osteopathies associated with other disorders classified elsewhere	3
732	Osteochondropathies	2
733	Other disorders of bone and cartilage	41
737	Curvature of spine	6
XIV. CONGENITAL ANOMALIES (740-759)		
740	Anencephalus and similar anomalies	6
741	Spina bifida	3
742	Other congenital anomalies of nervous system	75
745	Bulbus cordis anomalies and anomalies of cardiac septal closure	39
746	Other congenital anomalies of heart	86
747	Other congenital anomalies of circulatory system	35
748	Congenital anomalies of respiratory system	37
751	Other congenital anomalies of digestive system	9
753	Congenital anomalies of urinary system	18
755	Other congenital anomalies of limbs	1
756	Other congenital musculoskeletal anomalies	23
758	Chromosomal anomalies	47
759	Other and unspecified congenital anomalies	29
XV. CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD (760-779)		
760	Fetus or newborn affected by maternal conditions which may be unrelated to present pregnancy	3
761	Fetus or newborn affected by maternal complications of pregnancy	34
762	Fetus or newborn affected by complications of placenta, cord and membranes	45
763	Fetus or newborn affected by other complications of labor and delivery	5
764	Slow fetal growth and fetal malnutrition	1

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 4.16 (continued)
Number of Deaths by Cause
 Michigan Residents, 1996

ICD List Number	Cause of Death	Number
	Disorders relating to short gestation and unspecified low birthweight	202
765	Birth trauma	7
767	Intrauterine hypoxia and birth asphyxia	16
768	Respiratory distress syndrome	74
769	Other respiratory conditions of fetus and newborn	73
770	Infections specific to the perinatal period	27
771	Fetal and neonatal hemorrhage	6
772	Hematological disorders of fetus and newborn	4
776	Perinatal disorders of digestive system	19
777	Conditions involving the integument and temperature regulation of fetus and newborn	8
778	Other and ill-defined conditions originating in the perinatal period	15
779		
XVI. SYMPTOMS, SIGNS AND ILL-DEFINED CONDITIONS (780-799)		
	General symptoms	15
780	Symptoms involving nervous and musculoskeletal systems	1
781	Symptoms involving skin and other integumentary tissue	2
782	Symptoms involving head and neck	1
784	Symptoms involving cardiovascular system	29
785	Symptoms involving respiratory system and other chest symptoms	5
786	Symptoms involving digestive system	1
787	Nonspecific findings on examination of blood	3
790	Senility without mention of psychosis	15
797	Sudden death, cause unknown	132
798	Other ill-defined and unknown causes of morbidity and mortality	
799		
XVII. EXTERNAL CAUSES OF INJURY AND POISONING (E800-E999)		
	Hit by rolling stock [railway]	12
E805	Motor vehicle traffic accident involving collision with train	15
E810	Other motor vehicle traffic accident involving collision with another motor vehicle	652
E812	Motor vehicle traffic accident involving collision with other vehicle	32
E813	Motor vehicle traffic accident involving collision with pedestrian	207
E814	Other motor vehicle traffic accident involving collision on the highway	155
E815	Motor vehicle traffic accident due to loss of control, without collision on the highway	165
E816	Other noncollision motor vehicle traffic accident	28
E818	Motor vehicle traffic accident of unspecified nature	271
E819	Nontraffic accident involving motor-driven snow vehicle	25
E820	Nontraffic accident involving other off-road motor vehicle	6
E821	Other motor vehicle nontraffic accident involving collision with moving object	11
E822	Other motor vehicle nontraffic accident involving collision with stationary object	5
E823	Other motor vehicle nontraffic accident of other and unspecified nature	5
E825	Animal-drawn vehicle accident	1
E827	Accident involving animal being ridden	1
E828	Accident to watercraft causing submersion	3
E830	Accident to watercraft causing other injury	1
E831	Other accidental submersion or drowning in water transport accident	7
E832	Other and unspecified water transport accident	2
E838	Accident to powered aircraft, other and unspecified	24
E841	Accident to unpowered aircraft	1
E842	Other specified air transport accidents	3
E844		

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 4.16 (continued)
Number of Deaths by Cause
Michigan Residents, 1996

ICD List Number	Cause of Death	Number
E850	Accidental poisoning by analgesics, antipyretics, antirheumatics	24
E853	Accidental poisoning by tranquilizers	1
E854	Accidental poisoning by other psychotropic agents	2
E855	Accidental poisoning by other drugs acting on central and autonomic nervous systems	14
E856	Accidental poisoning by antibiotics	1
E857	Accidental poisoning by anti-infectives	1
E858	Accidental poisoning by other drugs	66
E860	Accidental poisoning by alcohol, not elsewhere classified	4
E861	Accidental poisoning by cleansing and polishing agents, disinfectants, paints and varnishes	1
E866	Accidental poisoning by other and unspecified solid and liquid substances	1
E868	Accidental poisoning by other utility gas and other carbon monoxide	32
E869	Accidental poisoning by other gases and vapors	6
E870	Accidental cut, puncture, perforation or hemorrhage during medical care	6
E876	Other and unspecified misadventures during medical care	1
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	59
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	31
E880	Fall on or from stairs or steps	49
E881	Fall on or from ladders or scaffolding	11
E882	Fall from or out of building or other structure	18
E883	Fall into hole or other opening in surface	1
E884	Other fall from level to another	30
E885	Fall on same level from slipping, tripping or stumbling	26
E887	Fracture, cause unspecified	142
E888	Other and unspecified fall	226
E890	Conflagration in private dwelling	107
E891	Conflagration in other and unspecified building or structure	1
E892	Conflagration not in building or structure	3
E893	Accident caused by ignition of clothing	3
E895	Accident caused by controlled fire in private dwelling	3
E897	Accident caused by controlled fire not in building or structure	1
E898	Accident caused by other specified fire and flames	2
E899	Accident caused by unspecified fire	8
E900	Excessive heat	1
E901	Excessive cold	28
E902	High and low air pressure & changes in air pressure	1
E904	Hunger, thirst, exposure, neglect	8
E905	Venomous animals and plants as the cause of poisoning and toxic reactions	1
E906	Other injury caused by animals	1
E907	Lightning	2
E908	Cataclysmic storms, and floods resulting from storms	2
E910	Accidental drowning and submersion	108
E911	Inhalation and ingestion of food causing obstruction of respiratory tract or suffocation	45
E912	Inhalation and ingestion of other object causing obstruction of respiratory tract or suffocation	49
E913	Accidental mechanical suffocation	49
E916	Struck accidentally by falling object	20
E917	Striking against or struck accidentally by objects or persons	2
E918	Caught accidentally in or between objects	5

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 4.16 (continued)
Number of Deaths by Cause
 Michigan Residents, 1996

ICD List Number	Cause of Death	Number
E919	Accidents caused by machinery	21
E920	Accidents caused by cutting and piercing instruments or objects	4
E921	Accidents caused by explosions of pressure vessel	1
E922	Accident caused by firearm missile	25
E923	Accident caused by explosive material	5
E924	Accident caused by hot substance or object, caustic or corrosive material and steam	3
E925	Accident caused by electric current	11
E928	Other and unspecified environmental and accidental causes	112
E929	Late effects of accidental injury	31
E930	Adverse effects in therapeutic use of antibiotics	2
E935	Analgesics, antipyretics and antirheumatics	1
E938	Adverse effects in therapeutic use of other central nervous system depressants	1
E942	Adverse effects in therapeutic use of agents primarily affecting the cardiovascular system	2
E947	Adverse effects in therapeutic use of other and unspecified drugs and medicaments [medicinal substances]	8
E950	Suicide and self-inflicted poisoning by solid or liquid substance	102
E951	Suicide and self-inflicted poisoning by gases in domestic use	1
E952	Suicide and self-inflicted poisoning by other gases and vapors	110
E953	Suicide and self-inflicted injury by hanging, strangulation and suffocation	203
E954	Suicide and self-inflicted injury by submersion [drowning]	16
E955	Suicide and self-inflicted injury by firearms and explosives	629
E956	Suicide and self-inflicted injury by cutting and piercing instrument	20
E957	Suicide and self-inflicted injuries by jumping from high place	9
E958	Suicide and self-inflicted injury by other and unspecified means	17
E960	Homicide by fight, brawl, rape	4
E962	Homicide by poisoning	1
E963	Homicide by hanging and strangulation	42
E964	Homicide by submersion [drowning]	4
E965	Homicide by firearms and explosives	563
E966	Homicide by cutting and piercing instrument	78
E967	Homicide by child battering and other maltreatment	13
E968	Homicide by other and unspecified means	87
E969	Homicide by late effects of injury purposely inflicted by other persons	3
E970	Injury due to legal intervention by firearms	9
E980	Poisoning by solid or liquid substances, undetermined whether accidentally or purposely inflicted	73
E982	Poisoning by other gases, undetermined whether accidentally or purposely inflicted	10
E983	Hanging, strangulation or suffocation, undetermined whether accidentally or purposely inflicted	5
E984	Submersion [drowning], undetermined whether accidentally or purposely inflicted	10
E985	Injury by firearms and explosives, undetermined whether accidentally or purposely inflicted	10
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	27
E989	Late effects of injury, undetermined whether accidentally or purposely inflicted	1

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 4.17
Population Changes by County
Michigan, 1985 and 1995

Area	Population Estimate July 1, 1985	Population Estimate July 1, 1995	Net Change	Percent Change	Natural Increase	Estimated Net Migration
Michigan	9,076,287	9,549,353	473,066	5.2	624,436	-151,370
Alcona	10,012	10,587	575	5.7	-460	1,035
Alger	8,944	9,846	902	10.1	-151	1,053
Allegan	84,528	97,692	13,164	15.6	7,117	6,047
Alpena	30,973	30,841	-132	-0.4	634	-502
Antrim	16,964	20,257	3,293	19.4	382	2,911
Arenac	14,536	16,151	1,615	11.1	314	1,301
Baraga	8,196	8,493	297	3.6	-10	307
Barry	47,695	52,643	4,948	10.4	3,121	1,827
Bay	115,017	111,529	-3,488	-3.0	5,737	-2,249
Benzie	11,475	13,660	2,185	19.0	315	1,870
Berrien	162,945	162,623	-322	-0.2	9,057	-8,735
Branch	39,071	42,738	3,667	9.4	2,021	1,646
Calhoun	134,523	140,689	6,166	4.6	6,881	-715
Cass	48,945	49,603	658	1.3	1,443	-785
Charlevoix	19,837	23,052	3,215	16.2	1,137	2,078
Cheboygan	20,620	22,854	2,234	10.8	439	1,795
Chippewa	29,950	36,859	6,909	23.1	1,100	5,809
Clare	23,972	28,078	4,106	17.1	569	3,537
Clinton	55,647	61,657	6,010	10.8	4,523	1,487
Crawford	10,628	13,523	2,895	27.2	471	2,424
Delta	38,642	38,655	13	0.0	910	-897
Dickinson	26,564	27,176	612	2.3	318	294
Eaton	88,247	98,087	9,840	11.2	5,605	4,235
Emmet	23,621	27,352	3,731	15.8	1,221	2,510
Genesee	431,268	436,381	5,113	1.2	34,480	-29,367
Gladwin	20,841	24,304	3,463	16.6	449	3,014
Gogebic	19,246	17,894	-1,352	-7.0	-841	2,193
Grand Traverse	58,601	70,869	12,268	20.9	4,267	8,001
Gratiot	39,123	39,973	850	2.2	1,482	-632
Hillsdale	41,972	45,224	3,252	7.7	2,270	982
Houghton	36,826	36,140	-686	-1.9	207	479
Huron	36,076	35,224	-852	-2.4	594	258
Ingham	271,718	277,889	6,171	2.3	25,756	-19,585
Ionia	53,073	59,846	6,773	12.8	4,126	2,647
Iosco	30,104	24,482	-5,622	-18.7	1,645	3,977
Iron	13,820	13,177	-643	-4.7	-830	1,473
Isabella	53,419	56,213	2,794	5.2	3,495	-701
Jackson	144,602	154,010	9,408	6.5	8,538	870
Kalamazoo	214,247	227,973	13,726	6.4	16,736	-3,010

Source: Michigan Resident Birth and Death Files, Division for Vital Records and Health Statistics, MDCH

Table 4.17 (continued)
Population Changes by County
 Michigan, 1985 and 1995

Area	Population Estimate July 1, 1985	Population Estimate July 1, 1995	Net Change	Percent Change	Natural Increase	Estimated Net Migration
Kalkaska	12,229	14,696	2,467	20.2	879	1,588
Kent	465,007	525,355	60,348	13.0	53,869	6,479
Keweenaw	2,045	1,967	-78	-3.8	-149	227
Lake	8,192	9,664	1,472	18.0	-222	1,694
Lapeer	69,362	83,854	14,492	20.9	5,659	8,833
Leelanau	15,115	18,502	3,387	22.4	743	2,644
Lenawee	88,203	96,706	8,503	9.6	4,948	3,555
Livingston	101,723	133,601	31,878	31.3	9,086	22,792
Luce	5,830	5,599	-231	-4.0	40	191
Mackinac	10,289	10,978	689	6.7	122	567
Macomb	693,630	733,607	39,977	5.8	40,067	-90
Manistee	21,890	22,915	1,025	4.7	-278	1,303
Marquette	72,088	65,442	-6,646	-9.2	4,365	2,281
Mason	25,857	27,487	1,630	6.3	546	1,084
Mecosta	36,442	37,725	1,283	3.5	1,621	-338
Menominee	26,057	24,569	-1,488	-5.7	186	1,302
Midland	72,492	79,748	7,256	10.0	6,252	1,004
Missaukee	11,001	13,522	2,521	22.9	574	1,947
Monroe	130,386	139,550	9,164	7.0	8,083	1,081
Montcalm	50,097	57,866	7,769	15.5	3,469	4,300
Montmorency	7,961	9,683	1,722	21.6	-416	2,138
Muskegon	155,654	164,459	8,805	5.7	10,897	-2,092
Newaygo	36,041	43,587	7,546	20.9	2,747	4,799
Oakland	1,020,273	1,153,461	133,188	13.1	79,832	53,356
Oceana	21,981	23,875	1,894	8.6	1,367	527
Ogemaw	17,245	20,559	3,314	19.2	161	3,153
Ontonagon	9,194	8,639	-555	-6.0	-234	789
Osceola	19,714	21,756	2,042	10.4	1,001	1,041
Oscoda	7,178	8,682	1,504	21.0	-13	1,517
Otsego	15,773	20,762	4,989	31.6	1,069	3,920
Ottawa	167,965	210,389	42,424	25.3	19,639	22,785
Presque Isle	13,806	14,242	436	3.2	-161	597
Roscommon	17,818	22,593	4,775	26.8	-611	5,386
Saginaw	215,040	212,295	-2,745	-1.3	15,470	-12,725
St Clair	138,207	154,231	16,024	11.6	7,994	8,030
St Joseph	58,120	60,684	2,564	4.4	3,412	-848
Sanilac	39,544	42,203	2,659	6.7	1,134	1,525
Schoolcraft	8,397	8,700	303	3.6	-17	320
Shiawassee	69,050	72,079	3,029	4.4	4,490	-1,461
Tuscola	55,151	57,491	2,340	4.2	2,976	-636
Van Buren	66,428	74,591	8,163	12.3	4,588	3,575
Washtenaw	262,568	292,609	30,041	11.4	24,733	5,308
Wayne	2,172,791	2,055,500	-117,291	-5.4	147,967	-30,676
Wexford	25,965	28,686	2,721	10.5	1,490	1,231

Source: Michigan Resident Birth and Death Files, Division for Vital Records and Health Statistics, MDCH

Table 4.18
Population by Age, Race and Sex
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	134,056	68,553	65,503	101,644	52,085	49,558	29,907	15,144	14,763	800	427	373
1-4	548,641	280,376	268,265	431,966	221,571	210,396	105,804	53,206	52,599	3,186	1,652	1,536
5-9	711,924	364,742	347,182	561,094	288,336	272,758	131,557	66,667	64,890	6,996	3,559	3,436
10-14	705,346	360,807	344,539	572,738	294,009	278,729	114,855	57,792	57,064	6,461	3,352	3,110
15-19	681,895	347,325	334,570	550,420	280,862	269,556	114,351	57,834	56,518	6,238	3,263	2,976
20-24	655,634	325,474	330,160	518,226	258,199	260,027	120,023	58,467	61,556	5,499	2,737	2,761
25-29	674,630	332,533	342,097	552,790	275,499	277,291	104,632	48,318	56,315	5,082	2,493	2,589
30-34	772,316	378,877	393,439	649,447	323,423	326,025	104,154	46,187	57,967	5,637	2,786	2,850
35-39	818,886	404,146	414,740	691,993	346,702	345,291	109,489	48,658	60,831	5,685	2,806	2,879
40-44	751,100	370,039	381,061	636,668	319,212	317,453	99,976	43,921	56,054	4,992	2,354	2,639
45-49	643,977	316,764	327,213	550,360	275,025	275,335	81,045	35,990	45,054	4,066	1,939	2,128
50-54	505,672	246,305	259,367	438,474	215,809	222,663	58,045	26,093	31,951	2,962	1,388	1,573
55-59	403,858	194,109	209,749	353,020	171,249	181,772	44,352	19,544	24,808	2,269	1,110	1,160
60-64	359,625	171,859	187,766	314,760	152,066	162,692	40,417	17,667	22,749	1,787	868	919
65-69	358,315	164,631	193,684	315,209	146,404	168,808	39,654	16,768	22,887	1,459	641	817
70-74	311,385	134,960	176,425	275,100	119,775	155,325	33,837	14,132	19,705	1,060	465	594
75-79	236,727	95,143	141,584	211,962	85,464	126,499	23,265	9,091	14,172	679	256	423
80-84	152,976	55,034	97,942	137,258	49,497	87,760	14,893	5,220	9,673	390	138	251
85+	122,390	33,764	88,626	109,564	30,020	79,543	12,365	3,567	8,798	216	69	148
All Ages	9,549,353	4,645,441	4,903,912	7,972,693	3,905,207	4,067,481	1,382,621	644,266	738,354	65,464	32,303	33,162

Source: Michigan Resident Birth and Death Files, Division for Vital Records and Health Statistics, MDCH

Table 4.19
Abridged Life Table
Michigan Residents, 1996

Age	nx(1)	lx(2)	ndx(3)	nLx(4)	Tx(5)	ex(6)
0-1	0.00800	100,000	800	99,293	7,570,554	75.7
1-5	0.00169	99,200	168	396,382	7,471,260	75.3
5-10	0.00085	99,033	84	494,932	7,074,878	71.4
10-15	0.00110	98,948	109	494,534	6,579,946	66.5
15-20	0.00392	98,840	387	493,303	6,085,413	61.6
20-25	0.00461	98,453	453	491,150	5,592,110	56.8
25-30	0.00494	97,999	483	488,821	5,100,959	52.1
30-35	0.00623	97,516	607	486,133	4,612,138	47.3
35-40	0.00845	96,909	818	482,632	4,126,005	42.6
40-45	0.01290	96,091	1,239	477,558	3,643,373	37.9
45-50	0.01875	94,852	1,778	470,095	3,165,815	33.4
50-55	0.02763	93,075	2,571	459,370	2,695,720	29.0
55-60	0.04219	90,503	3,818	443,654	2,236,349	24.7
60-65	0.06743	86,686	5,844	419,721	1,792,695	20.7
65-70	0.10093	80,841	8,159	384,884	1,372,974	17.0
70-75	0.15148	72,682	11,010	337,087	988,090	13.6
75-80	0.22582	61,672	13,927	274,586	651,002	10.6
80-85	0.33529	47,746	16,009	198,688	376,416	7.9
85+	1.00000	31,737	31,737	177,728	177,728	5.6

Note: Definitions of life table values are contained in the Technical Notes.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH

Table 4.20
Abridged Life Table for Males
Michigan Residents, 1996

Age	qx(1)	lx(2)	ndx(3)	nLx(4)	Tx(5)	ex(6)
0-1	0.00861	100,000	861	99,241	7,283,774	72.8
1-5	0.00174	99,139	172	396,132	7,184,534	72.5
5-10	0.00094	98,967	92	494,581	6,788,402	68.6
10-15	0.00135	98,875	133	494,135	6,293,821	63.7
15-20	0.00549	98,742	542	492,472	5,799,687	58.7
20-25	0.00712	98,200	699	489,278	5,307,214	54.0
25-30	0.00682	97,501	665	485,868	4,817,936	49.4
30-35	0.00852	96,836	825	482,193	4,332,068	44.7
35-40	0.01067	96,011	1,024	477,659	3,849,875	40.1
40-45	0.01690	94,988	1,605	471,178	3,372,216	35.5
45-50	0.02392	93,383	2,233	461,655	2,901,038	31.1
50-55	0.03462	91,150	3,155	448,371	2,439,383	26.8
55-60	0.05322	87,995	4,682	429,054	1,991,012	22.6
60-65	0.08321	83,312	6,932	400,240	1,561,957	18.7
65-70	0.12460	76,381	9,517	359,300	1,161,717	15.2
70-75	0.18903	66,864	12,639	303,906	802,418	12.0
75-80	0.28041	54,225	15,205	233,820	498,511	9.2
80-85	0.41109	39,020	16,040	154,390	264,691	6.8
85+	1.00000	22,980	22,980	110,302	110,302	4.8

Note: Definitions of life table values are contained in the Technical Notes.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH

Table 4.21
Abridged Life Table for Females
Michigan Residents, 1996

Age	qx(1)	lx(2)	ndx(3)	nLx(4)	Tx(5)	ex(6)
0-1	0.00734	100,000	734	99,350	7,845,768	78.5
1-5	0.00164	99,266	163	396,650	7,746,418	78.0
5-10	0.00077	99,103	76	495,307	7,349,768	74.2
10-15	0.00085	99,027	83	494,960	6,854,461	69.2
15-20	0.00229	98,944	226	494,181	6,359,501	64.3
20-25	0.00212	98,718	209	493,084	5,865,320	59.4
25-30	0.00310	98,509	305	491,821	5,372,236	54.5
30-35	0.00401	98,204	394	490,101	4,880,415	49.7
35-40	0.00628	97,810	614	487,618	4,390,315	44.9
40-45	0.00900	97,197	874	483,946	3,902,697	40.2
45-50	0.01372	96,323	1,321	478,544	3,418,752	35.5
50-55	0.02095	95,002	1,990	470,378	2,940,207	30.9
55-60	0.03188	93,012	2,965	458,225	2,469,829	26.6
60-65	0.05276	90,048	4,751	439,171	2,011,604	22.3
65-70	0.08037	85,297	6,854	410,347	1,572,433	18.4
70-75	0.12172	78,442	9,548	369,600	1,162,086	14.8
75-80	0.18712	68,895	12,891	313,629	792,486	11.5
80-85	0.28909	56,004	16,190	239,975	478,857	8.6
85+	1.00000	39,814	39,814	238,882	238,882	6.0

Note: Definitions of life table values are contained in the Technical Notes.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH

Table 4.22
Abridged Life Table for Whites
Michigan Residents, 1996

Age	qx(1)	lx(2)	ndx(3)	nLx(4)	Tx(5)	ex(6)
0-1	0.00617	100,000	617	99,456	7,674,162	76.7
1-5	0.00148	99,383	146	397,167	7,574,706	76.2
5-10	0.00074	99,237	73	495,983	7,177,539	72.3
10-15	0.00095	99,164	93	495,638	6,681,556	67.4
15-20	0.00336	99,070	332	494,569	6,185,918	62.4
20-25	0.00338	98,738	333	492,862	5,691,349	57.6
25-30	0.00370	98,405	363	491,150	5,198,487	52.8
30-35	0.00511	98,041	500	489,021	4,707,338	48.0
35-40	0.00691	97,541	674	486,125	4,218,317	43.2
40-45	0.01029	96,867	996	482,009	3,732,192	38.5
45-50	0.01519	95,871	1,456	475,983	3,250,183	33.9
50-55	0.02414	94,415	2,279	466,813	2,774,199	29.4
55-60	0.03834	92,137	3,532	452,530	2,307,386	25.0
60-65	0.06229	88,605	5,519	430,146	1,854,857	20.9
65-70	0.09556	83,086	7,939	396,739	1,424,710	17.1
70-75	0.14724	75,147	11,064	349,389	1,027,971	13.7
75-80	0.22230	64,083	14,245	285,988	678,582	10.6
80-85	0.33623	49,838	16,757	207,341	392,594	7.9
85+	1.00000	33,081	33,081	185,253	185,253	5.6

Note: Definitions of life table values are contained in the Technical Notes.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH

Table 4.23
Abridged Life Table for White Males
Michigan Residents, 1996

Age	qx(1)	lx(2)	ndx(3)	nLx(4)	Tx(5)	ex(6)
0-1	0.00668	100,000	668	99,410	7,409,155	74.1
01-05	0.00161	99,332	159	396,923	7,309,744	73.6
05-10	0.00075	99,172	74	495,658	6,912,822	69.7
10-15	0.00114	99,098	113	495,288	6,417,163	64.8
15-20	0.00454	98,986	448	493,888	5,921,875	59.8
20-25	0.00510	98,537	503	491,434	5,427,988	55.1
25-30	0.00482	98,035	472	489,025	4,936,554	50.4
30-35	0.00679	97,562	662	486,237	4,447,529	45.6
35-40	0.00882	96,901	855	482,495	3,961,291	40.9
40-45	0.01327	96,046	1,274	477,245	3,478,797	36.2
45-50	0.01911	94,772	1,810	469,657	3,001,552	31.7
50-55	0.03032	92,962	2,818	458,290	2,531,895	27.2
55-60	0.04811	90,144	4,336	440,652	2,073,605	23.0
60-65	0.07624	85,807	6,541	413,723	1,632,953	19.0
65-70	0.11769	79,266	9,328	374,330	1,219,230	15.4
70-75	0.18424	69,938	12,885	318,818	844,899	12.1
75-80	0.27640	57,053	15,769	246,714	526,081	9.2
80-85	0.41358	41,284	17,074	163,160	279,367	6.8
85+	1.00000	24,210	24,210	116,207	116,207	4.8

Note: Definitions of life table values are contained in the Technical Notes.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH

Table 4.24
Abridged Life Table for White Females
Michigan Residents, 1996

Age	qx(1)	lx(2)	ndx(3)	nLx(4)	Tx(5)	ex(6)
0-1	0.00561	100,000	561	99,507	7,926,964	79.3
1-5	0.00133	99,439	132	397,432	7,827,458	78.7
5-10	0.00074	99,307	73	496,334	7,430,026	74.8
10-15	0.00074	99,234	73	496,016	6,933,692	69.9
15-20	0.00214	99,161	211	495,296	6,437,675	64.9
20-25	0.00166	98,950	164	494,349	5,942,380	60.1
25-30	0.00258	98,786	254	493,331	5,448,031	55.2
30-35	0.00343	98,532	338	491,863	4,954,700	50.3
35-40	0.00499	98,194	489	489,823	4,462,837	45.4
40-45	0.00729	97,704	712	486,868	3,973,014	40.7
45-50	0.01126	96,993	1,092	482,448	3,486,146	35.9
50-55	0.01811	95,901	1,736	475,507	3,003,698	31.3
55-60	0.02905	94,165	2,735	464,560	2,528,191	26.8
60-65	0.04908	91,430	4,487	446,738	2,063,631	22.6
65-70	0.07596	86,943	6,604	419,239	1,616,893	18.6
70-75	0.11770	80,339	9,456	379,392	1,197,654	14.9
75-80	0.18376	70,883	13,025	323,365	818,262	11.5
80-85	0.28884	57,858	16,712	248,017	494,897	8.6
85+	1.00000	41,147	41,147	246,880	246,880	6.0

Note: Definitions of life table values are contained in the Technical Notes.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH

Table 4.25
Abridged Life Table for Blacks
Michigan Residents, 1996

Age	qx(1)	lx(2)	ndx(3)	nLx(4)	Tx(5)	ex(6)
0-1	0.01408	100,000	1,408	98,752	6,980,250	69.8
1-5	0.00253	98,592	249	393,754	6,881,499	69.8
5-10	0.00137	98,342	134	491,342	6,487,745	66.0
10-15	0.00175	98,208	171	490,722	5,996,403	61.1
15-20	0.00676	98,037	663	488,697	5,505,681	56.2
20-25	0.01008	97,374	981	484,513	5,016,984	51.5
25-30	0.01160	96,393	1,118	479,233	4,532,471	47.0
30-35	0.01346	95,275	1,282	473,297	4,053,238	42.5
35-40	0.01835	93,993	1,724	465,960	3,579,940	38.1
40-45	0.02970	92,269	2,740	454,939	3,113,981	33.7
45-50	0.04310	89,529	3,858	438,400	2,659,042	29.7
50-55	0.05446	85,671	4,665	417,115	2,220,642	25.9
55-60	0.07283	81,005	5,899	390,964	1,803,527	22.3
60-65	0.10594	75,106	7,957	356,400	1,412,563	18.8
65-70	0.14225	67,150	9,552	312,418	1,056,163	15.7
70-75	0.18397	57,598	10,596	262,005	743,745	12.9
75-80	0.25510	47,001	11,990	205,186	481,740	10.2
80-85	0.32364	35,012	11,331	146,309	276,554	7.9
85+	1.00000	23,681	23,681	130,245	130,245	5.5

Note: Definitions of life table values are contained in the Technical Notes.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH

Table 4.26
Abridged Life Table for Black Males
Michigan Residents, 1996

Age	nx(1)	lx(2)	ndx(3)	nLx(4)	Tx(5)	ex(6)
0-1	0.01499	100,000	1,499	98,676	6,533,068	65.3
1-5	0.00211	98,501	207	393,558	6,434,392	65.3
5-10	0.00180	98,293	177	490,981	6,040,835	61.5
10-15	0.00225	98,117	221	490,207	5,549,854	56.6
15-20	0.01042	97,896	1,020	487,216	5,059,647	51.7
20-25	0.01639	96,876	1,587	480,573	4,572,431	47.2
25-30	0.01867	95,289	1,779	472,071	4,091,858	42.9
30-35	0.02059	93,511	1,925	462,837	3,619,787	38.7
35-40	0.02440	91,586	2,234	452,755	3,156,950	34.5
40-45	0.04351	89,352	3,887	437,668	2,704,195	30.3
45-50	0.06122	85,465	5,232	414,617	2,266,527	26.5
50-55	0.07072	80,233	5,673	387,414	1,851,911	23.1
55-60	0.09806	74,560	7,311	355,309	1,464,496	19.6
60-65	0.14059	67,249	9,454	313,279	1,109,187	16.5
65-70	0.18212	57,795	10,525	262,936	795,908	13.8
70-75	0.22791	47,270	10,773	209,640	532,973	11.3
75-80	0.31785	36,497	11,600	153,236	323,333	8.9
80-85	0.38519	24,896	9,590	99,687	170,097	6.8
85+	1.00000	15,307	15,307	70,410	70,410	4.6

Note: Definitions of life table values are contained in the Technical Notes.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH

Table 4.27
Abridged Life Table for Black Females
Michigan Residents, 1996

Age	nx(1)	lx(2)	ndx(3)	nLx(4)	Tx(5)	ex(6)
0-1	0.01315	100,000	1,315	98,829	7,405,548	74.1
1-5	0.00297	98,685	292	393,956	7,306,719	74.0
5-10	0.00093	98,393	91	491,716	6,912,763	70.3
10-15	0.00123	98,302	121	491,252	6,421,047	65.3
15-20	0.00301	98,182	295	490,228	5,929,794	60.4
20-25	0.00406	97,887	397	488,491	5,439,566	55.6
25-30	0.00550	97,490	535	486,184	4,951,075	50.8
30-35	0.00774	96,954	750	483,054	4,464,891	46.1
35-40	0.01349	96,204	1,297	477,992	3,981,837	41.4
40-45	0.01876	94,907	1,780	470,366	3,503,845	36.9
45-50	0.02838	93,127	2,642	459,434	3,033,478	32.6
50-55	0.04098	90,485	3,708	443,555	2,574,045	28.4
55-60	0.05250	86,777	4,555	423,065	2,130,489	24.6
60-65	0.07813	82,222	6,424	395,871	1,707,424	20.8
65-70	0.11187	75,799	8,479	358,577	1,311,553	17.3
70-75	0.15103	67,320	10,167	311,942	952,976	14.2
75-80	0.21219	57,153	12,127	256,032	641,034	11.2
80-85	0.28810	45,026	12,972	192,676	385,002	8.6
85+	1.00000	32,054	32,054	192,326	192,326	6.0

Note: Definitions of life table values are contained in the Technical Notes.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH

Table 4.28
Age-Adjusted Death Rates by Race and Sex
 Michigan and United States Residents, 1980 - 1996

Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Michigan	1980	586.2	771.9	437.1	555.9	734.2	413.8	824.0	1,084.9	610.8
	1981	584.6	767.5	438.3	553.7	729.7	414.0	831.7	1,086.5	624.6
	1982	574.3	755.5	430.1	543.4	717.3	406.3	814.4	1,066.2	610.2
	1983	573.9	749.9	433.7	541.9	709.8	409.5	818.3	1,071.0	614.8
	1984	563.0	733.2	428.4	531.0	691.6	405.1	808.5	1,074.1	598.5
	1985	570.5	751.0	427.0	536.8	706.4	403.4	829.7	1,113.4	602.5
	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	674.5	405.2	835.6	1,124.0	608.1
	1988	551.2	713.4	421.9	515.2	668.1	394.4	818.1	1,073.7	615.5
	1989	538.5	692.8	415.0	496.1	637.6	384.1	832.4	1,102.1	619.2
	1990	525.6	677.9	403.7	486.0	628.2	375.6	792.9	1,062.3	581.5
	1991	526.4	675.4	406.8	486.1	621.4	379.2	798.6	1,064.0	588.7
	1992	511.4	656.4	394.5	471.2	604.4	364.4	776.3	1,026.8	582.1
	1993	522.1	666.1	405.5	479.3	608.9	375.1	807.3	1,078.2	596.1
	1994	516.5	656.8	401.8	474.1	598.5	372.7	800.3	1,084.3	580.8
	1995	511.2	645.3	401.6	470.2	589.6	373.0	787.8	1,062.6	576.4
1996	505.9	636.9	399.5	469.0	586.9	373.6	751.9	1,006.8	557.3	
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
	1995	503.9	646.3	385.2	476.9	610.5	364.9	765.7	1,016.7	571.0
1996Pr.	493.6	626.7	382.3	469.2	594.8	363.4	737.8	966.6	560.5	

Note: Rates are 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). Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Qualifications & Limitations of Data & Calculations.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH
 United States data: Table 10, NCHS *Monthly Vital Statistics Report*, Vol. 46, No. 1, Supplement 2, September 11, 1997

Table 4.29
Age-Adjusted Diseases of the Heart Death Rates by Race and Sex
Michigan and United States Residents, 1980 - 1996

Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Michigan	1980	214.0	294.5	149.8	209.3	291.5	143.8	256.1	324.6	201.4
	1981	213.3	297.1	146.3	207.9	294.1	139.2	261.5	328.5	207.0
	1982	208.6	288.1	145.7	203.1	284.8	138.5	256.3	320.4	205.5
	1983	207.2	281.2	148.3	201.5	277.5	140.9	258.0	316.5	211.6
	1984	199.9	270.3	144.3	193.2	264.2	137.4	257.8	327.7	202.0
	1985	200.1	273.9	141.6	193.8	267.6	135.4	255.6	334.4	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	331.7	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	243.4	310.4	192.0
	1990	162.8	217.9	119.1	154.0	208.3	110.9	231.6	299.6	179.8
	1991	159.5	212.6	117.0	151.1	203.6	109.2	225.4	289.5	176.8
	1992	152.5	203.4	112.2	144.5	194.5	104.5	213.5	274.2	168.0
	1993	158.9	210.8	117.4	149.3	200.7	107.9	232.2	296.8	183.8
	1994	155.0	205.3	114.1	145.3	194.0	105.3	228.6	299.9	176.0
	1995	149.9	198.3	110.6	140.1	186.9	101.8	225.1	295.3	172.8
	1996	148.5	196.5	109.7	139.6	186.2	101.5	215.6	283.1	165.4
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
	1995	138.3	184.9	100.4	133.1	179.7	94.9	198.8	255.9	156.3
	1996Pr.	134.6	---	---	---	---	---	---	---	---

Note: Rates are 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). Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Qualifications & Limitations of Data & Calculations.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH
United States data: Table 10, NCHS *Monthly Vital Statistics Report*, Vol. 46, No. 1, Supplement 2, September 11, 1997

Table 4.30
Age-Adjusted Cancer Death Rates by Race and Sex
 Michigan and United States Residents, 1980 - 1996

Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Michigan	1980	134.1	167.4	109.5	130.5	161.5	107.9	169.0	224.3	125.2
	1981	135.5	164.1	114.9	130.9	156.7	112.7	181.1	235.8	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	162.0	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	133.5	161.5	114.0	174.7	226.9	137.3
	1988	136.8	166.9	115.2	132.0	160.5	111.8	179.3	227.6	143.8
	1989	137.3	166.3	116.7	132.5	158.7	114.2	175.8	229.5	136.2
	1990	136.3	167.5	114.2	131.2	160.0	110.9	176.9	231.0	138.2
	1991	139.6	168.6	119.5	134.9	161.5	116.6	178.4	229.6	142.1
	1992	136.9	168.2	114.4	131.3	159.9	110.7	181.7	239.4	141.0
	1993	134.5	162.1	115.1	129.3	153.7	112.3	176.0	232.6	136.2
	1994	134.3	162.5	113.9	128.9	153.7	111.1	177.2	237.4	134.2
	1995	132.1	158.0	113.5	127.5	150.9	110.7	168.6	222.2	131.1
1996	132.6	159.0	113.3	127.4	151.7	109.9	173.6	223.9	138.3	
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
	1995	129.9	156.8	110.4	127.0	151.8	108.9	171.6	226.8	134.1
1996Pr.	129.1	---	---	---	---	---	---	---	---	

Note: Rates are 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). Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Qualifications & Limitations of Data & Calculations.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH
 United States data: Table 10, NCHS *Monthly Vital Statistics Report*, Vol. 46, No. 1, Supplement 2, September 11, 1997

Table 4.31
Age-Adjusted Stroke Death Rates by Race and Sex
Michigan and United States Residents, 1980 - 1996

Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Michigan	1980	40.4	44.7	37.2	37.9	42.2	34.8	60.6	65.4	56.6
	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	46.3	52.3	41.8
	1985	33.3	36.8	30.6	31.1	34.7	28.4	50.7	54.2	47.2
	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	27.6	29.7	25.9	26.1	28.0	24.5	38.7	42.6	35.4
	1991	27.5	29.3	26.0	25.5	27.0	24.4	42.0	47.6	37.1
	1992	26.3	28.2	24.9	24.8	26.4	23.5	37.0	42.3	33.0
	1993	26.7	30.1	24.0	24.7	27.6	22.4	42.2	51.7	34.8
	1994	28.2	29.9	26.7	25.7	27.2	24.3	46.4	51.4	42.4
	1995	28.4	30.1	27.2	26.1	27.5	25.1	45.6	51.4	41.2
	1996	27.6	30.6	25.3	25.4	27.6	23.8	42.5	53.8	34.4
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
	1995	26.7	28.9	24.8	24.7	26.5	23.1	45.0	52.2	39.6
	1996Pr.	26.5	---	---	---	---	---	---	---	---

Note: Rates are 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). Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Qualifications & Limitations of Data & Calculations.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH
United States data: Table 10, NCHS *Monthly Vital Statistics Report*, Vol. 46, No. 1, Supplement 2, September 11, 1997

Table 4.32
Age-Adjusted Chronic Obstructive Pulmonary Disease Death Rates by Race and Sex
 Michigan and United States Residents, 1980 - 1996

Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Michigan	1980	15.7	25.4	8.9	15.8	25.6	9.1	13.7	23.1	6.3
	1981	16.3	26.5	9.3	16.5	26.9	9.4	14.3	23.1	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	19.3	26.2	14.7	19.6	26.5	15.1	16.1	24.0	10.6
	1991	19.5	25.9	15.3	19.7	26.1	15.7	16.9	24.5	11.6
	1992	18.9	25.6	14.5	19.0	25.8	14.6	17.0	23.9	12.4
	1993	20.7	27.1	16.5	20.7	26.7	16.8	19.4	28.3	13.4
	1994	20.2	25.4	16.9	20.3	25.3	17.2	18.3	25.5	13.6
	1995	20.8	26.1	17.5	21.0	26.3	17.7	18.0	23.6	14.3
1996	21.2	26.2	18.0	21.4	26.2	18.4	18.0	24.6	13.5	
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
	1995	20.8	26.3	17.1	21.3	26.6	17.8	17.6	25.4	12.5
1996Pr.	21.0	---	---	---	---	---	---	---	---	

Note: Rates are 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). Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Qualifications & Limitations of Data & Calculations.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH
 United States data: Table 10, NCHS *Monthly Vital Statistics Report*, Vol. 46, No. 1, Supplement 2, September 11, 1997

Table 4.33
Age-Adjusted Accidents and Adverse Effects Death Rates by Race and Sex
Michigan and United States Residents, 1980 - 1996

Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Michigan	1980	36.4	53.4	20.6	36.4	52.4	21.3	38.1	64.5	15.6
	1981	33.9	51.0	17.8	34.0	51.0	17.9	34.8	55.1	17.4
	1982	31.3	46.1	17.4	30.9	45.4	17.1	34.0	52.3	18.3
	1983	29.2	44.2	15.2	29.2	44.1	14.9	30.8	46.3	17.8
	1984	30.2	44.7	16.5	30.0	44.0	16.6	33.1	52.7	16.5
	1985	32.1	47.3	17.8	31.7	46.3	17.9	35.9	58.3	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	30.9	44.6	17.8	34.1	50.7	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	29.3	42.7	16.9	29.1	42.2	16.8	30.6	48.1	16.2
	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	46.4	17.9
	1993	26.1	36.5	16.1	25.0	34.5	15.8	32.0	49.0	17.7
	1994	26.4	36.8	16.6	25.8	35.9	16.0	28.8	41.8	18.1
	1995	27.9	38.5	18.1	27.1	37.2	17.4	33.0	49.1	20.1
	1996	27.0	37.5	17.3	26.2	35.9	17.2	31.2	48.7	16.8
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
	1995	30.5	44.1	17.5	29.9	43.0	17.2	37.4	57.6	20.2
	1996Pr.	30.1	---	---	---	---	---	---	---	---

Note: Rates are 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). Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Qualifications & Limitations of Data & Calculations.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH
 United States data: Table 10, NCHS *Monthly Vital Statistics Report*, Vol. 46, No. 1, Supplement 2, September 11, 1997

Table 4.34
Age-Adjusted Pneumonia and Influenza Death Rates by Race and Sex
 Michigan and United States Residents, 1980 - 1996

Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Michigan	1980	11.7	16.0	8.5	10.7	14.5	8.1	19.5	29.5	11.6
	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	14.1	19.2	10.7	13.2	18.2	10.0	19.6	27.4	14.3
	1991	13.9	18.7	10.7	13.0	17.5	10.1	19.5	26.2	14.5
	1992	13.1	17.5	10.2	12.2	16.1	9.7	19.3	28.1	12.9
	1993	14.1	18.8	10.7	12.9	17.3	9.9	21.2	30.6	14.4
	1994	13.5	18.0	10.5	12.4	16.5	9.6	21.3	30.4	15.0
	1995	13.8	17.7	11.1	12.8	16.0	10.7	20.8	31.7	13.3
1996	14.0	17.9	11.3	12.8	16.2	10.5	21.9	31.3	15.6	
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
	1995	12.9	16.5	10.4	12.4	15.7	10.1	17.8	24.5	13.2
1996Pr.	12.6	---	---	---	---	---	---	---	---	

Note: Rates are 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). Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Qualifications & Limitations of Data & Calculations.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH
 United States data: Table 10, NCHS *Monthly Vital Statistics Report*, Vol. 46, No. 1, Supplement 2, September 11, 1997

Table 4.35
Age-Adjusted Diabetes Mellitus Death Rates by Race and Sex
 Michigan and United States Residents, 1980 - 1996

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	17.1	14.9	18.7
	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	13.4	14.5	12.6	11.9	12.9	11.1	25.5	27.0	24.3
	1991	13.8	15.5	12.4	12.2	14.0	10.8	26.4	28.5	24.6
	1992	13.9	14.6	13.3	12.3	13.1	11.5	26.6	26.7	26.3
	1993	13.5	14.5	12.8	12.4	13.5	11.5	22.3	22.9	21.9
	1994	13.9	14.9	12.9	12.5	13.5	11.7	23.6	26.2	21.3
	1995	14.2	16.0	12.7	12.6	14.5	11.1	25.6	28.2	23.3
	1996	14.4	15.2	13.9	13.2	14.4	12.3	23.1	21.2	24.5
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
	1995	13.3	14.4	12.4	11.7	13.1	10.6	28.5	28.4	28.3
	1996Pr.	13.6	---	---	---	---	---	---	---	---

Note: Rates are 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). Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Qualifications & Limitations of Data & Calculations.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH
 United States data: Table 10, NCHS *Monthly Vital Statistics Report*, Vol. 46, No. 1, Supplement 2, September 11, 1997

Table 4.36
Age-Adjusted Chronic Liver Disease and Cirrhosis Death Rates by Race and Sex
 Michigan and United States Residents, 1980 - 1996

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	37.0	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	14.3	6.7	8.4	11.7	5.5	22.9	34.6	13.5
	1991	9.5	13.7	5.7	8.2	11.9	4.9	18.6	28.5	10.7
	1992	8.4	12.0	5.1	7.0	10.2	4.1	17.7	25.6	11.5
	1993	8.8	12.3	5.6	7.5	10.3	4.9	17.8	28.1	9.7
	1994	8.9	12.7	5.4	7.6	11.1	4.3	18.3	26.1	12.0
	1995	8.5	12.8	4.5	7.3	10.9	4.0	16.6	28.0	7.8
	1996	8.1	11.6	4.9	7.2	10.0	4.5	14.8	24.5	7.3
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
1995	7.6	11.0	4.6	7.4	10.7	4.3	9.9	14.7	6.0	
1996Pr.	7.5	---	---	---	---	---	---	---	---	

Note: Rates are 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). Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Qualifications & Limitations of Data & Calculations.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH
 United States data: Table 10, NCHS *Monthly Vital Statistics Report*, Vol. 46, No. 1, Supplement 2, September 11, 1997

Table 4.37
Age-Adjusted Suicide Death Rates by Race and Sex
Michigan and United States Residents, 1980 - 1996

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	8.2	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	19.6	5.9	7.7	13.8	*
	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	18.0	3.9	11.0	18.4	4.1	8.3	15.3	*
	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	18.3	4.2	8.0	14.8	*
	1993	10.7	18.6	3.3	11.0	18.8	3.6	8.7	16.9	*
	1994	10.2	17.5	3.4	10.6	18.0	3.5	8.3	15.0	*
	1995	9.5	16.3	3.2	9.7	16.6	3.2	8.2	14.6	2.9
1996	10.8	18.3	3.8	11.1	18.7	4.0	8.3	15.3	2.5	
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
	1995	11.2	18.6	4.1	11.9	19.7	4.4	6.9	12.4	2.0
1996Pr.	10.8	---	---	---	---	---	---	---	---	

Note: Rates are 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). Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Qualifications & Limitations of Data & Calculations.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH
United States data: Table 10, NCHS *Monthly Vital Statistics Report*, Vol. 46, No. 1, Supplement 2, September 11, 1997

Table 4.38
Age-Adjusted Homicide Death Rates by Race and Sex
 Michigan and United States Residents, 1980 - 1996

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	55.8	95.9	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	19.0	5.1	3.9	5.3	2.6	58.8	104.4	19.2
	1991	12.8	20.5	5.2	4.3	5.7	2.9	61.0	111.2	17.2
	1992	11.8	18.7	4.9	4.1	6.2	2.2	54.8	95.1	19.8
	1993	11.7	18.4	5.1	3.5	4.4	2.6	57.4	101.0	18.9
	1994	11.6	18.8	4.5	3.7	5.0	2.3	55.6	99.8	16.3
	1995	10.6	16.7	4.5	3.5	4.8	2.2	49.1	86.1	16.4
1996	9.0	14.1	3.9	2.8	3.7	1.8	43.5	76.0	14.8	
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
	1995	9.4	14.7	4.0	5.5	8.2	2.8	33.4	57.6	11.0
1996Pr.	8.4	---	---	---	---	---	---	---	---	---

Note: Rates are 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). Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Qualifications & Limitations of Data & Calculations.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH
 United States data: Table 10, NCHS *Monthly Vital Statistics Report*, Vol. 46, No. 1, Supplement 2, September 11, 1997

Table 4.39
Age-Adjusted AIDS Death Rates by Race and Sex
 Michigan and United States Residents, 1987 - 1996

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	6.9	0.9	2.4	4.6	*	13.7	24.7	4.7
	1991	4.8	8.7	1.1	3.1	5.9	*	16.7	29.8	5.9
	1992	5.9	10.6	1.3	3.6	6.8	*	21.1	38.8	6.7
	1993	7.0	12.4	1.8	4.2	7.8	0.6	25.9	46.5	9.1
	1994	7.6	13.7	1.8	4.2	8.0	*	30.4	55.7	9.9
	1995	8.0	14.1	2.1	4.2	7.6	0.8	33.2	62.3	9.7
	1996	5.0	8.7	1.5	2.9	5.2	0.6	19.5	35.6	6.4
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
	1995	15.6	26.2	5.2	11.1	19.6	2.5	51.8	84.3	24.0
	1996Pr.	11.6	---	---	---	---	---	---	---	---

Note: Rates are 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). Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Qualifications & Limitations of Data & Calculations.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH
 United States data: Table 10, NCHS *Monthly Vital Statistics Report*, Vol. 46, No. 1, Supplement 2, September 11, 1997

Table 4.40
Age-Adjusted Kidney Disease Death Rates by Race and Sex
 Michigan and United States Residents, 1980 - 1996

Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Michigan	1980	4.5	5.5	3.9	3.8	4.9	3.2	10.6	11.6	10.1
	1981	4.7	5.5	4.1	3.9	4.8	3.3	11.1	11.8	10.8
	1982	4.8	6.3	3.8	4.1	5.6	3.2	9.8	11.8	8.3
	1983	4.8	5.8	4.3	4.3	5.3	3.8	8.5	9.9	7.5
	1984	4.6	6.1	3.5	3.9	5.3	3.0	9.8	12.9	7.6
	1985	4.8	6.1	3.9	4.0	5.4	3.2	11.1	12.9	9.9
	1986	5.3	6.6	4.4	4.3	5.6	3.6	12.4	14.5	11.1
	1987	5.0	6.1	4.4	4.1	5.1	3.6	12.0	14.1	10.4
	1988	5.2	6.3	4.4	4.3	5.3	3.7	11.9	14.4	9.9
	1989	4.6	6.3	3.4	3.8	5.1	2.9	10.8	16.1	7.0
	1990	4.5	5.6	3.9	3.9	5.0	3.2	9.1	9.8	8.9
	1991	4.5	5.8	3.6	3.9	5.1	3.2	8.7	11.5	6.5
	1992	4.8	5.8	4.1	4.0	5.1	3.3	10.2	11.4	9.5
	1993	5.2	6.1	4.7	4.5	5.5	3.9	10.8	11.0	10.6
	1994	4.8	5.7	4.3	4.1	4.9	3.6	10.2	11.8	9.2
	1995	4.7	5.6	4.1	4.2	5.0	3.7	8.5	10.9	7.0
1996	4.9	6.3	4.0	4.2	5.5	3.4	9.7	11.5	8.3	
United States	1980	4.5	5.7	3.6	3.7	4.9	2.9	11.9	14.2	10.3
	1981	4.5	5.6	3.6	3.8	4.9	3.1	11.1	13.2	9.6
	1982	4.5	5.8	3.7	3.9	5.1	3.0	11.2	13.2	9.8
	1983	4.6	5.7	3.9	4.0	5.0	3.3	10.8	12.6	9.6
	1984	4.7	6.0	3.9	4.1	5.3	3.3	11.2	13.0	10.0
	1985	4.9	6.1	4.0	4.2	5.4	3.4	12.0	14.1	10.5
	1986	4.9	6.2	4.0	4.2	5.4	3.3	11.7	14.2	9.9
	1987	4.8	6.0	3.9	4.1	5.3	3.3	11.3	13.4	9.8
	1988	4.8	6.0	4.0	4.1	5.2	3.3	11.6	13.3	10.3
	1989	4.4	5.6	3.6	3.7	4.7	3.0	11.4	13.9	9.6
	1990	4.3	5.4	3.6	3.6	4.6	3.0	10.8	12.9	9.4
	1991	4.3	5.4	3.5	3.7	4.7	3.0	10.3	12.8	8.6
	1992	4.3	5.5	3.6	3.7	4.8	3.0	10.2	12.5	8.7
	1993	4.5	5.5	3.8	3.8	4.9	3.2	10.5	12.4	9.2
	1994	4.3	5.2	3.6	3.7	4.6	3.1	10.1	11.7	8.8
	1995	4.3	5.4	3.6	3.7	4.7	3.1	10.2	12.0	8.8
1996Pr.	4.3	---	---	---	---	---	---	---	---	

Note: Rates are 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). Michigan rates for 1980-1994 have been revised based upon revisions to population estimates; see Qualifications & Limitations of Data & Calculations.

Source: Michigan Resident Death Files, Division for Vital Records and Health Statistics, MDCH
 United States data: Table 10, NCHS *Monthly Vital Statistics Report*, Vol. 46, No. 1, Supplement 2, September 11, 1997

Table 4.41
Population by Age and County of Residence
Michigan Residents, 1995

County	All Ages	Age									
		Under 1	1 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75 - 84	85+
Michigan	9,549,353	134,056	1,965,911	1,337,529	1,446,946	1,569,986	1,149,649	763,483	669,700	389,703	122,390
Alcona	10,590	98	1,610	1,046	940	1,428	1,229	1,551	1,605	882	201
Alger	9,847	103	1,663	1,434	1,187	1,668	1,107	910	911	667	197
Allegan	97,691	1,279	22,845	12,999	14,128	16,690	11,393	7,324	6,068	3,883	1,082
Alpena	30,845	352	5,884	4,183	3,605	4,941	3,644	3,168	2,842	1,679	547
Antrim	20,256	222	3,824	2,342	2,324	3,032	2,237	2,274	2,405	1,217	379
Arenac	16,151	194	3,061	2,192	2,000	2,362	1,831	1,848	1,565	814	284
Baraga	8,493	93	1,623	1,162	1,003	1,262	1,029	694	763	690	174
Barry	52,639	619	11,123	6,882	6,788	9,100	6,864	4,855	3,649	2,067	692
Bay	111,524	1,390	21,799	14,938	15,260	18,176	14,395	9,608	8,739	5,563	1,656
Benzie	13,657	153	2,488	1,438	1,577	2,118	1,666	1,589	1,623	752	253
Berrien	162,621	2,435	33,944	22,338	22,375	24,888	19,712	13,775	13,037	7,849	2,268
Branch	42,742	583	9,387	5,722	5,839	6,839	4,885	3,848	3,205	1,908	526
Calhoun	140,688	2,040	28,828	19,722	19,321	22,283	17,131	12,294	10,831	6,207	2,031
Cass	49,604	596	10,200	6,580	6,456	7,905	6,422	4,609	4,025	2,184	627
Charlevoix	23,055	315	4,683	2,781	3,004	3,864	2,664	2,240	1,951	1,194	359
Cheboygan	22,851	256	4,315	2,796	2,416	3,349	2,745	2,637	2,601	1,312	424
Chippewa	36,859	414	6,820	6,103	6,207	6,151	3,642	2,962	2,562	1,554	444
Clare	28,080	401	5,740	3,386	3,406	3,879	2,858	3,276	3,224	1,495	415
Clinton	61,660	735	13,087	8,493	8,916	10,632	8,532	5,159	3,502	1,929	675
Crawford	13,521	171	2,695	1,584	1,718	2,145	1,507	1,500	1,324	649	228
Delta	38,653	402	7,482	5,325	4,606	6,247	4,671	3,582	3,509	2,133	696
Dickinson	27,179	300	5,370	3,197	3,227	4,604	3,173	2,318	2,540	1,789	661
Eaton	98,087	1,113	20,546	13,945	13,540	16,742	13,811	7,987	5,744	3,399	1,260
Emmet	27,353	329	5,704	3,295	3,475	4,915	3,292	2,199	2,288	1,381	475
Genesee	436,382	6,811	94,086	61,513	64,023	71,003	54,612	36,614	28,076	14,762	4,882
Gladwin	24,306	267	4,719	2,991	2,777	3,254	2,727	2,987	2,914	1,326	344
Gogebic	17,896	169	3,122	2,198	1,827	2,544	2,012	1,718	2,095	1,713	498
Grd Traverse	70,866	765	14,605	9,081	9,807	13,292	8,529	5,465	5,076	3,125	1,121
Gratiot	39,976	506	7,852	6,666	5,524	6,056	4,708	3,221	2,815	1,857	771
Hillsdale	45,224	576	9,879	6,831	5,928	6,943	5,211	3,826	3,346	1,965	719
Houghton	36,141	375	6,087	7,868	4,826	4,483	3,607	2,843	2,742	2,553	757
Huron	35,221	464	7,212	4,279	4,156	5,410	3,759	3,251	3,617	2,352	721
Ingham	277,890	3,731	53,320	56,942	49,437	43,508	30,270	16,577	13,251	8,066	2,788
Ionia	59,845	708	12,579	10,373	9,417	9,746	6,640	4,221	3,353	2,059	749
Iosco	24,478	268	4,656	2,488	2,873	3,529	3,033	2,903	2,617	1,636	475
Iron	13,184	119	2,132	1,406	1,167	1,921	1,515	1,365	1,799	1,422	338
Isabella	56,213	678	10,047	18,052	6,909	7,267	5,059	3,403	2,826	1,566	406
Jackson	154,012	2,007	30,739	20,632	23,299	26,226	18,550	12,474	11,153	6,714	2,218
Kalamazoo	227,978	2,948	44,250	38,796	37,034	36,640	26,796	16,776	13,590	8,418	2,730
Kalkaska	14,694	192	3,081	1,904	1,946	2,407	1,612	1,487	1,271	622	172
Kent	525,352	8,363	119,317	69,839	92,062	88,757	56,858	35,429	30,501	18,653	5,573
Keweenaw	1,968	16	271	188	151	271	232	264	239	267	69

Source: Michigan Resident Birth and Death Files, Division for Vital Records and Health Statistics, MDCH

Table 4.41
Population by Age and County of Residence
Michigan Residents, 1995 (continued)

County	All Ages	Age									
		Under 1	1 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75 - 84	85+
Lake	9,662	87	1,849	1,029	952	1,238	1,070	1,289	1,362	578	208
Lapeer	83,856	1,004	18,071	12,632	11,995	14,699	11,133	6,548	4,471	2,401	902
Leelanau	18,500	200	3,781	1,950	1,980	3,482	2,330	1,773	1,838	903	263
Lenawee	96,707	1,308	20,084	15,168	13,542	15,287	12,052	7,616	6,641	3,826	1,183
Livingston	133,601	1,505	29,050	17,603	18,834	26,454	18,720	10,254	6,566	3,388	1,227
Luce	5,602	71	1,086	786	539	849	644	612	583	309	123
Mackinac	10,980	117	2,143	1,342	1,195	1,667	1,266	1,243	1,186	614	207
Macomb	733,602	8,886	134,383	87,432	119,127	121,518	91,281	64,487	58,765	36,653	11,070
Manistee	22,912	219	3,934	2,940	2,667	3,638	2,867	2,441	2,344	1,443	419
Marquette	65,440	680	12,947	10,423	9,352	11,712	7,379	4,645	4,342	3,114	846
Mason	27,487	326	5,443	3,710	3,197	4,278	3,358	2,595	2,513	1,606	461
Mecosta	37,724	448	6,710	10,395	4,457	4,327	3,808	3,055	2,709	1,437	378
Menominee	24,573	219	4,615	2,995	2,839	4,184	3,023	2,262	2,318	1,622	496
Midland	79,747	1,061	16,389	10,930	12,061	13,225	10,276	6,748	5,133	2,965	959
Missaukee	13,522	152	3,030	1,658	1,681	2,087	1,438	1,398	1,244	650	184
Monroe	139,553	1,818	30,029	20,228	19,858	23,102	17,681	11,427	9,016	4,855	1,539
Montcalm	57,867	788	12,456	8,329	8,528	9,460	6,573	4,632	4,027	2,338	736
Montmorency	9,681	95	1,582	1,049	788	1,398	978	1,287	1,548	725	231
Muskegon	164,460	2,383	36,293	22,531	23,145	26,768	18,614	12,811	12,074	7,590	2,251
Newaygo	43,586	584	10,103	5,636	5,715	6,922	4,918	4,095	3,330	1,799	484
Oakland	1,153,459	14,766	220,427	136,434	188,406	210,463	158,003	93,414	76,062	41,110	14,374
Oceana	23,871	312	5,273	3,254	2,978	3,584	2,892	2,172	2,065	1,050	291
Ogemaw	20,562	282	3,984	2,529	2,218	2,928	2,198	2,599	2,462	1,123	239
Ontonagon	8,642	85	1,465	997	899	1,262	1,135	1,092	874	679	154
Oscoda	21,755	274	4,856	2,950	2,630	3,124	2,551	2,236	1,921	935	278
Oscoda	8,683	98	1,528	830	926	1,177	872	1,231	1,266	573	182
Otsego	20,762	236	4,402	2,515	2,691	3,433	2,274	1,862	2,006	961	382
Ottawa	210,393	2,845	49,368	31,502	32,741	35,513	23,651	14,269	11,347	6,956	2,201
Presque Isle	14,241	164	2,647	1,739	1,402	1,999	1,514	1,574	1,958	955	289
Roscommon	22,595	231	3,491	2,117	1,997	2,824	2,301	3,215	3,959	1,932	528
Saginaw	212,294	3,255	45,141	30,442	29,208	33,032	26,718	17,810	14,704	8,993	2,991
St Clair	154,236	1,959	33,084	21,244	22,260	25,429	19,074	12,269	10,684	6,240	1,993
St Joseph	60,680	799	13,323	8,091	8,313	9,668	7,377	5,004	4,482	2,667	956
Sanilac	42,198	504	8,803	5,952	5,356	6,375	4,747	3,789	3,727	2,277	668
Schoolcraft	8,698	74	1,501	1,129	967	1,372	998	940	962	550	205
Shiawassee	72,077	919	14,930	10,771	9,888	11,662	9,458	6,094	4,658	2,849	848
Tuscola	57,488	674	11,950	8,545	7,585	9,267	7,439	4,946	3,825	2,563	694
Van Buren	74,590	1,035	16,676	10,247	9,599	12,470	8,827	6,125	5,427	3,144	1,040
Washtenaw	292,610	3,802	50,042	59,430	57,753	46,005	34,711	18,162	13,123	7,319	2,263
Wayne	2,055,504	35,857	449,933	278,511	316,295	328,972	234,169	153,899	148,110	84,408	25,350
Wexford	28,690	380	6,415	3,610	3,913	4,640	3,177	2,533	2,274	1,333	415

Source: Michigan Resident Birth and Death Files, Division for Vital Records and Health Statistics, MDCH

Table 4.42
Deaths by Age and County of Residence
Michigan Residents, 1996

County	All Ages	Age at Death									
		Under 1	1 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75 - 84	85+
Michigan	83,496	1,072	508	1,140	1,631	3,336	5,265	8,482	17,764	24,329	19,959
Alcona	172	-	-	-	-	2	4	18	43	56	49
Alger	111	1	-	1	-	4	5	13	27	35	25
Allegan	790	9	4	18	12	27	47	63	168	233	209
Alpena	352	3	2	4	6	15	20	33	80	109	80
Antrim	220	3	2	1	1	2	10	21	52	73	55
Arenac	177	2	-	2	1	11	6	16	47	48	44
Baraga	112	-	-	2	3	1	8	7	15	40	36
Barry	395	2	3	4	3	15	25	50	75	121	97
Bay	1,013	13	5	7	14	28	60	105	202	336	243
Benzie	159	-	2	-	1	4	6	19	29	49	49
Berrien	1,513	18	15	22	30	56	88	152	339	447	346
Branch	394	5	3	4	8	7	18	41	83	117	108
Calhoun	1,391	10	5	22	25	46	82	141	287	405	368
Cass	445	1	6	5	7	9	28	46	105	151	87
Charlevoix	236	1	5	5	1	7	8	24	47	82	56
Cheboygan	275	2	1	-	1	10	14	39	64	76	68
Chippewa	292	2	1	7	7	9	9	24	66	95	72
Clare	333	2	1	5	6	7	11	44	86	87	84
Clinton	429	1	2	9	3	14	20	57	88	124	111
Crawford	128	2	1	1	1	4	9	15	31	33	31
Delta	367	1	-	5	-	5	21	31	75	117	112
Dickinson	332	1	2	1	1	3	11	22	73	93	125
Eaton	759	7	7	13	11	31	43	70	166	208	203
Emmet	236	1	1	1	2	9	9	19	56	74	64
Genesee	3,755	78	33	76	86	165	260	436	817	1,027	777
Gladwin	300	3	-	3	2	9	10	36	85	88	64
Gogebic	252	-	1	3	4	3	9	22	43	93	74
Grd Traverse	598	7	3	5	7	26	28	59	128	181	154
Gratiot	413	6	3	1	4	9	17	25	83	116	149
Hillsdale	406	3	1	4	3	12	26	54	86	102	115
Houghton	468	3	-	2	6	12	18	28	77	159	163
Huron	437	6	-	4	4	10	20	28	90	144	131
Ingham	1,951	32	7	23	43	91	128	167	363	574	523
Ionia	413	5	1	10	11	16	21	37	78	118	116
Iosco	341	1	-	1	6	6	10	47	84	110	76
Iron	212	-	-	3	2	3	8	21	35	80	60
Isabella	339	4	2	8	7	6	22	28	83	99	80
Jackson	1,498	16	11	16	26	72	101	144	303	424	385
Kalamazoo	1,823	28	6	17	33	76	121	169	341	527	505
Kalkaska	119	1	2	3	2	2	4	10	26	37	32
Kent	3,939	81	32	43	88	124	201	343	721	1,144	1,162
Keweenaw	30	-	1	-	1	-	2	5	3	13	5

Source: Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 4.42
Deaths by Age and County of Residence
Michigan Residents, 1996 (continued)

County	All Ages	Age at Death									
		Under 1	1 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75 - 84	85+
Lake	144	3	-	1	3	1	9	14	40	39	34
Lapeer	535	9	1	9	11	21	34	73	107	150	120
Leelanau	175	1	-	2	-	4	5	12	36	62	53
Lenawee	833	4	5	15	11	23	36	81	194	242	222
Livingston	858	15	2	16	11	29	66	83	181	252	203
Luce	79	-	2	-	3	1	1	10	17	19	26
Mackinac	133	2	1	3	-	3	6	13	30	45	30
Macomb	6,566	59	32	59	102	241	365	660	1,504	2,074	1,470
Manistee	284	3	2	2	3	7	9	24	59	87	88
Marquette	540	4	2	7	4	19	27	51	106	166	154
Mason	291	1	1	5	-	9	10	26	64	99	76
Mecosta	316	2	3	4	6	9	10	26	79	104	73
Menominee	264	1	2	1	3	3	9	31	54	86	74
Midland	508	8	5	4	9	22	32	44	119	161	104
Missaukee	126	2	1	-	-	5	3	18	37	35	25
Monroe	1,181	13	8	20	17	38	75	122	255	353	280
Montcalm	515	4	4	8	11	9	27	65	98	172	117
Montmorency	144	-	-	1	-	7	6	20	25	49	36
Muskegon	1,491	18	11	20	36	62	95	135	310	442	362
Newaygo	373	4	3	6	8	12	19	44	80	111	86
Oakland	8,617	84	35	88	155	316	501	838	1,766	2,579	2,254
Oceana	244	1	3	2	1	4	16	26	57	64	70
Ogemaw	234	2	3	5	2	7	9	23	66	66	51
Ontonagon	107	-	1	1	1	4	3	9	19	44	25
Osceola	204	2	2	1	5	9	12	23	46	59	45
Oscoda	103	-	-	1	2	4	9	12	26	22	27
Otsego	193	5	1	3	5	7	12	28	45	54	33
Ottawa	1,404	26	10	14	19	38	52	122	209	468	446
Presque Isle	169	-	-	-	5	2	8	14	39	50	51
Roscommon	322	1	1	4	2	8	11	33	62	110	90
Saginaw	1,888	23	21	21	32	73	125	203	392	522	476
St Clair	1,371	14	13	16	23	45	86	146	305	400	323
St Joseph	590	7	1	7	6	16	28	62	124	174	165
Sanilac	472	3	3	4	6	12	18	29	103	164	130
Schoolcraft	121	3	-	-	-	3	3	9	32	30	41
Shiawassee	557	3	3	7	8	20	34	46	117	166	153
Tuscola	472	6	3	13	9	15	35	38	102	155	96
Van Buren	661	5	5	10	7	20	53	70	126	194	171
Washtenaw	1,610	21	5	23	33	71	113	172	278	461	433
Wayne	20,607	349	140	374	589	1,159	1,709	2,273	4,648	5,480	3,877
Wexford	261	1	2	2	3	9	14	24	57	74	75
Unknown	8	2	-	-	1	1	2	1	-	-	1

Source: Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 4.43
Live Births by Race, Ancestry and County of Residence
Michigan Residents, 1996

County	Race						Ancestry	
	All Races	White	Black	American Indian	Asian & Pacific Islander	All Other Races	Arab	Hispanic
Michigan	133,231	104,922	24,073	802	2,441	64	2,784	5,035
Alcona	93	91	-	1	1	-	-	2
Alger	93	86	-	7	-	-	-	-
Allegan	1,413	1,383	16	4	9	-	2	107
Alpena	293	289	1	2	1	-	1	1
Antrim	223	218	-	3	1	-	-	2
Arenac	172	169	-	3	-	-	1	6
Baraga	82	63	-	19	-	-	-	-
Barry	714	704	2	2	6	-	-	11
Bay	1,347	1,302	24	4	17	-	3	66
Benzie	135	131	1	3	-	-	-	2
Berrien	2,262	1,558	655	13	34	-	3	91
Branch	525	517	1	-	4	2	7	19
Calhoun	1,834	1,544	245	5	36	-	3	63
Cass	578	513	53	4	7	-	-	22
Charlevoix	345	330	4	7	4	-	-	7
Cheboygan	255	241	2	11	1	-	-	2
Chippewa	459	341	7	110	1	-	-	8
Clare	361	354	-	6	1	-	-	3
Clinton	789	782	5	1	1	-	1	15
Crawford	170	164	2	3	1	-	2	3
Delta	404	383	-	21	-	-	1	3
Dickinson	304	295	1	4	3	1	-	3
Eaton	1,243	1,174	50	3	16	-	6	52
Emmet	372	359	-	9	4	-	-	2
Genesee	6,434	4,542	1,803	20	57	6	40	96
Gladwin	285	283	-	-	2	-	-	-
Gogebic	159	146	1	12	-	-	1	3
Grd Traverse	877	858	4	11	4	-	4	23
Gratiot	470	466	3	-	-	-	2	19
Hillsdale	562	553	1	3	3	2	1	10
Houghton	379	352	2	5	19	1	2	2
Huron	394	388	-	4	1	-	2	6
Ingham	3,952	3,118	593	21	210	2	32	308
Ionia	820	808	2	6	4	-	1	23
Iosco	270	256	3	7	4	-	1	4
Iron	97	96	-	1	-	-	2	-
Isabella	614	566	8	36	3	-	3	13
Jackson	2,058	1,823	192	10	19	-	3	48
Kalamazoo	3,125	2,582	458	15	66	-	26	107
Kalkaska	196	195	-	-	1	-	-	2

Note: Unknown race is included in the "all races" column only.

Source: 1996 Michigan Resident Live Birth File, Division for Vital Records and Health Statistics, MDCH

Table 4.43
Live Births by Race, Ancestry and County of Residence
 Michigan Residents, 1996 (continued)

County	Race						Ancestry	
	All Races	White	Black	American Indian	Asian & Pacific Islander	All Other Races	Arab	Hispanic
Kent	8,972	7,660	1,037	45	188	37	30	748
Keweenaw	17	17	-	-	-	-	-	-
Lake	108	92	13	2	-	-	-	4
Lapeer	1,097	1,089	2	1	3	-	4	40
Leelanau	215	193	-	21	1	-	-	6
Lenawee	1,143	1,092	26	5	5	-	3	89
Livingston	1,811	1,740	4	7	20	1	8	27
Luce	68	62	-	5	1	-	-	-
Mackinac	127	107	-	20	-	-	-	2
Macomb	9,885	9,267	259	40	190	1	307	170
Manistee	208	204	1	3	-	-	-	5
Marquette	650	631	3	12	2	-	1	8
Mason	281	275	3	3	-	-	-	25
Mecosta	448	418	21	4	3	1	2	9
Menominee	292	277	-	13	2	-	-	2
Midland	1,036	1,002	9	2	23	-	2	23
Missaukee	160	157	-	2	1	-	-	1
Monroe	1,798	1,738	38	4	12	-	7	38
Montcalm	787	774	1	7	4	-	-	17
Montmorency	107	106	-	1	-	-	-	-
Muskegon	2,350	1,826	492	22	9	-	4	98
Newaygo	637	620	12	1	4	-	-	54
Oakland	16,088	13,688	1,636	35	435	3	652	376
Oceana	355	348	2	3	1	-	-	87
Ogemaw	221	217	1	-	2	-	-	4
Ontonagon	72	72	-	-	-	-	1	-
Osceola	276	275	-	1	-	-	-	2
Oscoda	89	87	-	1	1	-	-	3
Otsego	263	261	1	1	-	-	1	2
Ottawa	3,367	3,258	26	13	69	-	6	321
Presque Isle	143	140	-	2	1	-	-	1
Roscommon	208	205	-	-	3	-	-	2
Saginaw	2,782	2,065	671	9	35	-	23	258
St Clair	2,064	1,999	35	14	13	-	5	61
St Joseph	873	832	32	2	5	-	-	41
Sanilac	514	511	-	2	1	-	3	12
Schoolcraft	88	83	-	5	-	-	-	1
Shiawassee	885	878	-	3	4	-	4	15
Tuscola	700	693	5	1	1	-	1	19
Van Buren	1,027	957	63	4	3	-	1	115
Washtenaw	3,749	2,743	516	10	265	3	85	94
Wayne	31,685	15,825	15,021	75	592	4	1,484	1,097
Wexford	378	370	2	5	1	-	-	3
Unknown	49	45	2	-	-	-	-	1

Note: Unknown race is included in the "all races" column only.

Source: 1996 Michigan Resident Live Birth File, Division for Vital Records and Health Statistics, MDCH

Table 4.44
Deaths by Race, Ancestry and County of Residence
Michigan Residents, 1996

County	Race						Ancestry	
	All Races	White	Black	American Indian	Asian & Pacific Islander	All Other Races	Arab	Hispanic
Michigan	83,496	70,665	12,069	428	304	1	576	764
Alcona	172	170	-	2	-	-	-	-
Alger	111	110	-	1	-	-	-	-
Allegan	790	752	32	5	-	-	-	-
Alpena	352	350	1	1	-	-	1	14
Antrim	220	218	-	2	-	-	2	-
Arenac	177	174	-	3	-	-	-	-
Baraga	112	99	2	11	-	-	1	1
Barry	395	391	2	2	-	-	-	-
Bay	1,013	999	8	6	-	-	-	3
Benzie	159	155	2	2	-	-	4	17
Berrien	1,513	1,270	230	11	2	-	-	2
Branch	394	391	2	1	-	-	-	9
Calhoun	1,391	1,223	154	9	5	-	2	-
Cass	445	398	42	4	1	-	1	8
Charlevoix	236	229	-	6	1	-	-	2
Cheboygan	275	271	-	4	-	-	-	-
Chippewa	292	266	-	25	-	-	2	-
Clare	333	328	1	3	-	-	-	1
Clinton	429	426	2	1	-	-	1	-
Crawford	128	125	-	3	-	-	-	4
Delta	367	360	-	7	-	-	-	-
Dickinson	332	331	-	1	-	-	-	1
Eaton	759	736	18	3	2	-	7	6
Emmet	236	228	1	7	-	-	-	-
Genesee	3,755	3,074	655	17	7	-	28	30
Gladwin	300	296	2	1	1	-	-	-
Gogebic	252	250	1	-	-	-	-	1
Grd Traverse	598	594	-	2	2	-	-	-
Gratiot	413	412	1	-	-	-	-	2
Hillsdale	406	404	-	1	1	-	-	7
Houghton	468	466	-	1	1	-	1	-
Huron	437	435	-	2	-	-	-	1
Ingham	1,951	1,773	156	8	14	-	9	51
Ionia	413	409	2	1	-	-	-	2
Iosco	341	337	2	-	-	-	2	1
Iron	212	210	-	1	1	-	1	-
Isabella	339	326	-	13	-	-	-	2
Jackson	1,498	1,386	104	6	1	-	1	13
Kalamazoo	1,823	1,673	134	9	6	-	3	12
Kalkaska	119	117	1	1	-	-	-	-

Note: Unknown race is included in the "all races" column only.

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Table 4.44
Deaths by Race, Ancestry and County of Residence
Michigan Residents, 1996 (continued)

County	Race						Ancestry	
	All Races	White	Black	American Indian	Asian & Pacific Islander	All Other Races	Arab	Hispanic
Kent	3,939	3,621	284	15	18	-	22	64
Keweenaw	30	30	-	-	-	-	-	-
Lake	144	115	27	2	-	-	-	-
Lapeer	535	531	2	1	1	-	1	3
Leelanau	175	169	-	6	-	-	-	1
Lenawee	833	820	8	4	1	-	4	33
Livingston	858	848	4	4	1	-	3	6
Luce	79	72	-	7	-	-	-	-
Mackinac	133	110	-	23	-	-	-	-
Macomb	6,566	6,424	96	10	35	-	90	27
Manistee	284	275	1	8	-	-	-	1
Marquette	540	536	1	3	-	-	-	-
Mason	291	289	1	1	-	-	1	1
Mecosta	316	309	5	2	-	-	-	-
Menominee	264	261	-	3	-	-	-	-
Midland	508	496	4	8	-	-	2	7
Missaukee	126	125	-	1	-	-	-	-
Monroe	1,181	1,149	25	4	2	-	2	9
Montcalm	515	510	1	4	-	-	-	1
Montmorency	144	142	-	2	-	-	-	-
Muskegon	1,491	1,293	191	6	-	-	3	16
Newaygo	373	359	10	4	-	-	-	2
Oakland	8,617	7,878	624	27	84	-	148	66
Oceana	244	242	-	-	2	-	-	5
Ogemaw	234	234	-	-	-	-	1	1
Ontonagon	107	107	-	-	-	-	-	-
Osceola	204	203	-	1	-	-	1	-
Oscoda	103	103	-	-	-	-	-	-
Otsego	193	190	-	3	-	-	-	-
Ottawa	1,404	1,388	9	3	4	-	2	23
Presque Isle	169	169	-	-	-	-	-	-
Roscommon	322	320	-	2	-	-	1	-
Saginaw	1,888	1,584	293	6	4	-	2	53
St Clair	1,371	1,331	29	7	4	-	8	12
St Joseph	590	572	13	3	1	-	-	1
Sanilac	472	468	-	2	1	-	2	2
Schoolcraft	121	115	-	6	-	-	1	-
Shiawassee	557	555	-	2	-	-	-	4
Tuscola	472	466	3	2	1	-	-	6
Van Buren	661	594	62	5	-	-	1	3
Washtenaw	1,610	1,411	181	6	10	-	11	10
Wayne	20,607	11,826	8,638	50	89	1	202	213
Wexford	261	258	-	2	1	-	-	-
Unknown	8	5	2	-	-	-	-	-

Note: Unknown race is included in the "all races" column only.

Source: 1996 Michigan Resident Death File, Division for Vital Records and Health Statistics, MDCH

Figure 4.2
Michigan Live Birth Certificate

STATE OF MICHIGAN
DEPARTMENT OF PUBLIC HEALTH 49
CERTIFICATE OF
LIVE BIRTH 121 - STATE FILE NUMBER
0416973

1 CHILD - NAME (FIRST, MIDDLE, LAST)

2 SEX 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

5a HOSPITAL NAME - (IF NOT HOSPITAL GIVE STREET AND NUMBER) 5b CITY, VILLAGE, OR TOWNSHIP OF BIRTH 5c COUNTY OF BIRTH

6a I CERTIFY THAT THE ABOVE NAMED CHILD WAS BORN ALIVE AT THE PLACE AND TIME AND ON THE DATE STATED ABOVE

7a REGISTRAR'S SIGNATURE

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 MARRIED 8f RESIDENCE (Address and Zip and specify) 8g COUNTY 8h STATE

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

CONFIDENTIAL INFORMATION FOR PUBLIC HEALTH USE ONLY

11a ANCESTRY - Mexican, Puerto Rican, Cuban, Central or South American, Chinese, other Hispanic, Afro-American, Arab, English, French, Finnish, etc. (Specify below)

11b RACE - American Indian, Black, White, etc. If Asian, give nationality, e.g. Chinese, Filipino, Asian Indian, etc. (Specify below)

11c EDUCATION (Specify only highest grade completed) (Elementary/Secondary (0-12) College (13 or 14))

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 PRENATAL VISITS

20a LIVE BIRTHS (Do not include this child) 20b OTHER TERMINATIONS (Spontaneous and induced at any time after conception) 21a MOTHER TRANSFERRED PRIOR TO DELIVERY (If yes enter name of facility transferred to) 22 ATTENDANT AT BIRTH (MD, D.O., NURSE, OTHER)

23 INFANT ADMITTED TO NICU? (YES, NO)

24 BIRTHWEIGHT (Specify unit) 25 ESTIMATED BIRTH LENGTH (Specify unit) 26 APGAR SCORE (1 MIN, 5 MIN) 27 PLACE OF BIRTH (Hospital, Birth Center, Physician's Office, Residence, Other (Specify))

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 TWP. OF _____	
MOTHER	3 ANCESTRY: (Specify race) (Specify other if not listed)		4 RACE: American Indian, Black, White, etc. (Specify if known, give tribal name if appropriate)		5 EDUCATION (Specify only highest grade completed) Elementary/Secondary (10-12) College (1-4 or 5+)	
MOTHER	6 OCCUPATION AND BUSINESS/INDUSTRY (Worked during last year)		7 AGE (At Time of Delivery)			
FATHER	3a		4a		5a	
FATHER	3b		4b		5b	
MEDICAL AND PREGNANCY HISTORY INFORMATION	8 EXPECTED SOURCE OF PAYMENT FOR MEDICAL SERVICES (Private Insurance, Medicaid, etc.)		9 MOTHER TRANSFERRED PRIOR TO DELIVERY? (Specify name of locality transferred from)			
	10 PREGNANCY HISTORY (Complete each section)		11 DATE LAST NORMAL MENSTRUATION BEGAN (Month, Day, Year)			
	12a HOW LIVING? (Specify name)		12b HOW DEAD? (Specify name)		12c DATE OF LAST LIVE BIRTH (Mo., Year)	
	13a MONTH OF PREGNANCY PRENATAL CARE BEGAN - First, Second, Third, etc. (Specify)		13b PRENATAL VISITS - Total Number (If none, so state)			
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)		
15b OTHER RISK FACTORS FOR THIS PREGNANCY (Complete all items)		17 COMPLICATIONS OF LABOR AND/OR DELIVERY (Check all that apply)		18 FURTHER DETAILS OF DELIVERY (Check all that apply)		
20 PART I: Fetal or maternal condition directly causing fetal death		IMMEDIATE CAUSE		Specify Fetal or Maternal		
20 PART II: Other significant conditions of fetus or mother contributing to fetal death but not resulting in the underlying cause given in Part I				Specify Fetal or Maternal		
PLACE	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)			

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

DECEDENT

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 _____ 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 Inpatient, 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 decedent was ever first married) _____ 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, Alaska Native, Hawaiian, Other Pacific Islander, White, Black, Other _____ 17 DECEDENT'S EDUCATION (Specify only highest grade completed) Elementary/Secondary (0-12) _____ College (1-4 or 5+) _____

PERINIS

18 FATHER'S NAME (First, Middle, Last) _____ 19 MOTHER'S NAME (First, Middle, Surname before first married) _____

INFORMANT

20a INFORMANT'S NAME (Type/Print) _____ 20b HOME ADDRESS (Street and Number or Rural Route Number, City or Village, State, ZIP Code) _____

DISPOSITION

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 _____

CAUSE OF DEATH

26 PART I Enter the disease, injury, 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) _____

Sequitentially list conditions, if any, leading to immediate cause. Enter UNDERLYING CAUSE (Disease or injury that initiated events resulting in death) LAST

a. _____ DUE TO (OR AS A CONSEQUENCE OF)

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) _____

CERTIFIER

28 ACTUAL PLACE OF DEATH (Home, Nursing Home, Hospital, Ambulance) (Specify) _____ 29 WAS CASE REFERRED TO MEDICAL EXAMINER? (Specify Yes or No) _____

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 _____

30d NAME OF ATTENDING PHYSICIAN IF OTHER THAN CERTIFIER (Type or Print) _____

31a The case reviewed and determined not to be a medical examiner's case. (Check one only) On the basis of certification and of investigation, in my opinion death occurred at the time, date and place and due to the cause(s) and manner stated. (Specify How) _____

31b DATE SIGNED (Mo., Day, Yr.) _____ 31c CASE NUMBER _____

31d PRONOUNCED DEAD (Mo., Day, Yr.) ON _____ 31e TIME OF DEATH _____

MEDICAL EXAMINER

32a NAME AND ADDRESS OF PERSON WHO COMPLETED CAUSE OF DEATH (ITEM 26) (Type or Print) _____ 32b LICENSE NUMBER _____

33a ACC. SUICIDE, HOAM, 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

STATE FILE NO. _____
LOCAL FILE NO. **0166087**

between
and

_____ FULL NAME OF MALE (FIRST, MIDDLE, LAST)		_____ FULL NAME OF FEMALE (FIRST, MIDDLE, LAST)	
_____ LAST NAME BEFORE FIRST MARRIED, IF DIFFERENT		_____ 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

Except for signature spaces left blank must be completed by typewriter or printed legibly.

By Authority of MCL 333.2813

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.

8138 (1/89)

This Space Reserved for Binding

Figure 4.6
Michigan Divorce Record

**RECORD OF
DIVORCE OR ANNULMENT**
 MICHIGAN DEPARTMENT OF PUBLIC HEALTH
 By authority of MCL 333.2813.

State File Number _____ Court Case Number _____
 County Circuit Court _____

1. Husband's Name _____
First, Middle, Last

2. Husband's Birthdate _____
Month, Day, Year

3. Husband's Residence _____
City, Village or Township County State

4. Husband's Birthplace _____
State or Foreign Country

5. Number of this Marriage _____
First, Second, etc. (Specify)

6. Wife's Name _____
First, Middle, Last

7. Wife's Birthdate _____
Month, Day, Year

8. Wife's Last Name Before First Married _____

9. Wife's Residence _____
City, Village or Township County State

10. Wife's Birthplace _____
State or Foreign Country

11. Number of this Marriage _____
First, Second, etc. (Specify)

12. Place of this Marriage _____
City, Village or Township County State or Foreign Country

13. Date of this Marriage _____
Month, Day, Year

14. Date Couple Last Resided in Same Household Check if Not Separated _____
Month, Day, Year

15. Number of Minor Children in Household at Separation Date (Filing Date if Not Separated) Check if None _____
Number

16. Plaintiff Husband Wife Other

17. Plaintiff's Attorney _____
Name (Type or Print) Bar Number

18. Attorney's Address _____
Number and Street City State ZIP Code

19. Judgement of _____
Divorce/Annulment (Specify)

20. Number of Minor Children whose Physical Custody was Awarded to: Husband _____ Wife _____ Joint _____ Other _____
Number Number Number Number Number

No Children

21. Judgement Recorded on _____
Month, Day, Year

22. I certify that this Divorce was granted on _____
Month, Day, Year

23. Certifying Official _____
Signature Title Date Signed

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



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