

**MICHIGAN DEPARTMENT OF PUBLIC
HEALTH**

***MICHIGAN
HEALTH STATISTICS***



1994

SYMBOLS USED IN TABLES

Data not available	- - -
Category not applicable . . .	000
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Figure does not meet standards of reliability or precision . .	*
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MICHIGAN HEALTH STATISTICS

1994

Office of the State Registrar and Division of Health Statistics

Michigan Department of Public Health
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Michigan Department of Public Health

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INTRODUCTION

The 1994 edition of Michigan Health Statistics is a statistical summary of vital events for calendar year 1994. 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 1994, 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, 1995, and all in-state certificates and records received prior to March 15, 1995. Although a few additional records for the calendar year 1994 were received after these filing dates, their exclusion from this report is statistically insignificant.

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

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

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

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TECHNICAL NOTES, DEFINITIONS, RATES AND RATIOS

DEFINITIONS

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

BIRTH WEIGHT - Weight of fetus or infant at time of delivery.

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.

INFANT DEATH/LIVE BIRTH MATCHED FILE COMPLETENESS RATIO - The number of matched records for infant deaths and live births for deceased Michigan resident live births divided by the number of Michigan resident or presumed resident live births known to be deceased $\times 100$.

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.

e_x = 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-WEIGHT BIRTH - Births in 1984 or later wherein the birth weight is less than 2,500 grams (approximately 5 lbs., 8 oz.) or births before 1984 wherein the birth weight 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-WEIGHT BIRTH - Births in 1984 or later wherein the birth weight is less than 1,500 grams (approximately 3 lbs., 4 oz.) or births before 1984 wherein the birth weight is 1,500 grams or less.

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

RATES AND RATIOS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

LOW-WEIGHT BIRTH RATIO - Number of resident low-weight births divided by total resident live births x 1,000.

MARRIAGE RATE - Number of 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.

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

RELIABILITY OF RATES

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 undeterminable and the record receives an unknown minor civil division code.

FETAL DEATHS

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

COMPARABILITY IN CAUSE OF DEATH STATISTICS

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

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

In 1979 the 9th Revision of the International Classification of Diseases, WHO, was introduced for coding causes of death and was employed in categorizing the data for 1979 to date.

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, 1980 and 1990 were obtained from the April 1, 1970, April 1, 1980 and April 1, 1990 census counts. Data for 1980 and 1990 include revised census data as released by the Census Bureau. The population totals used for 1971-1979 are intercensal estimates prepared by the Census Bureau utilizing the revised 1980 census figures. The breakdowns of these totals by age, race, and sex were prepared by the Office of the State Registrar and Division of Health Statistics. For 1970 and 1980 the proportion of the total population in each age, race, and sex group was computed. Estimates of the proportion of the total population in each age, race, and sex group for the years 1971-1979 were then derived by interpolating between the proportions for 1970 and 1980. These subgroup proportions were then applied to the state totals to obtain population estimates by age, race, and sex for years 1971-1979.

Population estimates for 1985 through 1989 by age and sex were obtained by adding births, removing deaths and aging the remaining population, using Census Bureau-National Cancer Institute 1984 age, race and sex population estimates. Black and other race estimates for 1984 were prepared by projecting the mean annual change in the race proportions of each age-sex group of the non-white population observed between 1970 and 1980. Revised estimates of the proportion of the total population in each age, race and sex group for the years 1981-1983 were derived by interpolating between the populations for 1980 and 1984. Revised population data from the 1990 census were used to calculate the rates presented in this report.

The age-adjusted rates for Michigan presented in this report for years 1970-1994 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.

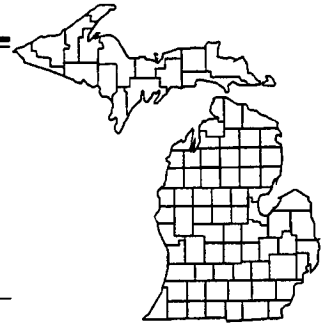
The estimated populations used for 1993 and 1994 provisional data are based on the 1990 census enumeration and therefore are comparable to those used for the 1992 and 1993 final data. Rates for 1981-1989 have been recomputed based on populations for those years that are consistent with the 1990 census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

COUNTY AND STATE HEALTH STATISTICS PROFILES

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

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

Profile of Michigan



POPULATION

As of April 1, 1992: 9,433,666
 Rank Among Counties: -
 Per Square Mile: 165.6

NATALITY

Total Live Births: 137,844
 Teenage Mothers: 17,448
 Low Weight Births: 10,765
 First Births: 54,548

MORTALITY

Total Deaths: 82,644
 Infant Deaths: 1,184
 Neonatal Deaths: 775
 Postneonatal Deaths: 409
 Perinatal Deaths: 1,388
 Fetal Deaths: 731

MARRIAGE

Marriages: 70,966
 Marriage Rate: 15.0

DIVORCE

Divorces: 39,795
 Divorce Rate: 8.4

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	137,844	14.6	106,828	13.5	27,129	20.3	3,137	17.5
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	17,448	126.6	10,509	98.4	6,591	243.0	308	98.2
Low Weight	10,765	78.1	6,580	61.6	3,902	143.8	222	70.8
Under 1,500 Grams	2,201	16.0	1,216	11.4	943	34.8	29	9.2
< 38 Weeks Gestation	24,486	177.6	16,769	157.0	7,058	260.2	551	175.6
Prenatal Care Began in 1st Trimester	110,250	799.8	89,972	842.2	17,368	640.2	2,434	775.9

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	1,184	8.6	670	6.3	495	18.2	19	6.1
Neonatal Deaths	775	5.6	428	4.0	334	12.3	13	4.1
Postneonatal Deaths	409	3.0	242	2.3	161	5.9	6	1.9
Perinatal Deaths	1,388	10.0	853	7.9	482	17.6	36	11.4
Fetal Deaths	431	5.3	496	4.6	194	7.1	24	7.6

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

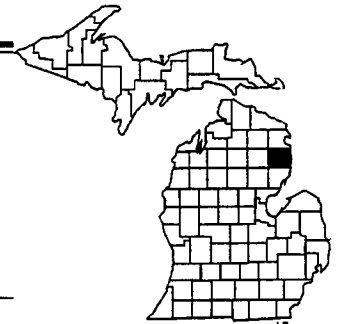
Deaths	All Races			White			Black			Other			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	82,644	41,747	40,890	69,409	34,427	34,978	12,572	6,951	5,618	631	349	282	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1,184	263	123	191	609	742	740	2,564	4,116	6,377	13,040	52,688	7
White Male	357	91	52	97	273	321	346	1,216	1,779	2,967	6,356	20,569	3
White Female	310	70	29	43	117	112	118	492	978	1,926	4,394	26,387	2
Black Male	265	51	25	29	171	241	203	548	813	847	1,220	2,537	1
Black Female	227	41	14	18	39	52	63	274	489	550	909	2,941	1
Other Male	9	5	-	2	5	8	7	18	24	52	91	128	-
Other Female	10	5	3	2	4	7	3	13	30	29	65	111	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	82,644	876.1	69,409	876.7	12,572	940.0	1,186	45.1
Diseases of the Heart	28,195	298.9	24,237	306.1	3,785	283.0	24	0.9
Malignant Neoplasms	19,410	205.8	16,600	209.7	2,643	197.6	105	4.0
Cerebrovascular Diseases	5,680	60.2	4,845	61.2	792	59.2	8	0.3
Accidents and Adverse Effects	2,928	31.0	2,451	31.0	412	30.8	488	18.6
Chronic Obstructive Pulmonary Diseases and Allied Conditions	3,447	36.5	3,126	39.5	298	22.3	10	0.4
Pneumonia and Influenza	2,877	30.5	2,477	31.3	385	28.8	15	0.6
Diabetes Mellitus	2,224	23.6	1,824	23.0	375	28.0	-	-
Chronic Liver Disease and Cirrhosis	1,035	11.0	789	10.0	232	17.3	1	-
Homicide	1,023	10.8	289	3.7	727	54.4	191	7.3
Suicide	1,022	10.8	901	11.4	111	8.3	86	3.3
Atherosclerosis	805	8.5	743	9.4	57	4.3	-	-
AIDS	757	8.0	353	4.5	402	30.1	9	0.3

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Alcona County



POPULATION			NATIVITY			MORTALITY		
As of April 1, 1992:	10,254		Total Live Births:	105		Total Deaths:	167	
Rank Among Counties:	74		Teenage Mothers:	22		Infant Deaths:	-	
Per Square Mile:	15.1		Low Weight Births:	5		Neonatal Deaths:	-	
			First Births:	44		Postneonatal Deaths:	-	
						Perinatal Deaths:	-	
						Fetal Deaths:	-	
MARRIAGE			DIVORCE					
Marriages:	76		Divorces:	44				
Marriage Rate:	14.8		Divorce Rate:	8.6				

NATIVITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	105	10.2	102	10.1	-	-	2	*
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	22	209.5	21	205.9	-	-	1	*
Low Weight	5	*	4	*	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	13	123.8	13	127.5	-	-	-	-
Prenatal Care Began in 1st Trimester	91	866.7	90	882.4	-	-	1	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

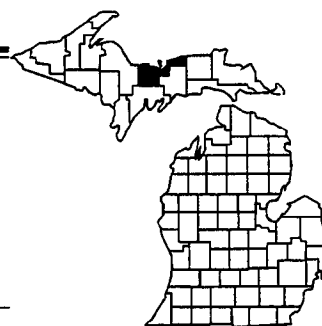
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	167	93	74	167	93	74	-	-	-	-	-	-
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	-	-	-	1	1	-	-	1	8	11	27	118
White Male	-	-	-	1	-	-	-	1	5	6	19	61
White Female	-	-	-	-	1	-	-	-	3	5	8	57
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	167	1,628.6	167	1,649.7	-	-	2	*
Diseases of the Heart	47	458.4	47	464.3	-	-	-	-
Malignant Neoplasms	43	419.4	43	424.8	-	-	1	*
Cerebrovascular Diseases	16	156.1	16	158.1	-	-	-	-
Accidents and Adverse Effects	7	68.3	7	69.1	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	8	78.0	8	79.0	-	-	-	-
Pneumonia and Influenza	11	107.3	11	108.7	-	-	-	-
Diabetes Mellitus	1	*	1	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	2	*	2	*	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Alger County



POPULATION

As of April 1, 1992: 9,349
 Rank Among Counties: 76
 Per Square Mile: 10.3

NATALITY

Total Live Births: 82
 Teenage Mothers: 13
 Low Weight Births: 3
 First Births: 34

MORTALITY

Total Deaths: 101
 Infant Deaths: 1
 Neonatal Deaths: 1
 Postneonatal Deaths: -
 Perinatal Deaths: 1
 Fetal Deaths: -

MARRIAGE

Marriages: 78
 Marriage Rate: 16.7

DIVORCE

Divorces: 31
 Divorce Rate: 6.6

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	82	8.8	78	8.9	-	-	3	*
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	13	158.5	13	166.7	-	-	-	-
Low Weight	3	*	3	*	-	-	-	-
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	8	97.6	8	102.6	-	-	-	-
Prenatal Care Began in 1st Trimester	66	804.9	62	794.9	-	-	3	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

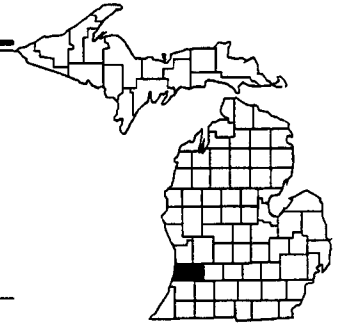
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	101	48	53	99	46	53	1	1	-	1	1	-
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	1	-	-	-	-	-	2	1	3	4	12	78
White Male	1	-	-	-	-	-	1	1	2	2	8	31
White Female	-	-	-	-	-	-	-	-	1	2	3	47
Black Male	-	-	-	-	-	-	1	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	101	1,080.3	99	1,134.7	1	*	-	-
Diseases of the Heart	36	385.1	36	412.6	-	-	-	-
Malignant Neoplasms	25	267.4	25	286.5	-	-	-	-
Cerebrovascular Diseases	9	96.3	9	103.2	-	-	-	-
Accidents and Adverse Effects	2	*	2	*	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	5	*	4	*	-	-	-	-
Pneumonia and Influenza	3	*	3	*	-	-	-	-
Diabetes Mellitus	5	*	5	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	1	*	1	*	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Allegan County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1992:	93,078	Total Live Births:	1,399	Total Deaths:	746
Rank Among Counties:	21	Teenage Mothers:	183	Infant Deaths:	7
Per Square Mile:	111.9	Low Weight Births:	89	Neonatal Deaths:	5
		First Births:	507	Postneonatal Deaths:	2
				Perinatal Deaths:	10
				Fetal Deaths:	5
MARRIAGE		DIVORCE			
Marriages:	770	Divorces:	441		
Marriage Rate:	16.5	Divorce Rate:	9.5		

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,399	15.0	1,365	15.1	23	15.5	11	10.3
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	183	130.8	175	128.2	7	304.3	1	*
Low Weight	89	63.6	84	61.5	3	*	2	*
Under 1,500 Grams	18	12.9	17	12.5	1	*	-	-
< 38 Weeks Gestation	217	155.1	205	150.2	9	391.3	3	*
Prenatal Care Began in 1st Trimester	1,113	795.6	1,089	797.8	14	608.7	10	909.1

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	7	5.0	6	4.4	-	-	1	*
Neonatal Deaths	5	*	4	*	-	-	1	*
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	10	7.1	9	6.6	-	-	1	*
Fetal Deaths	5	*	5	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

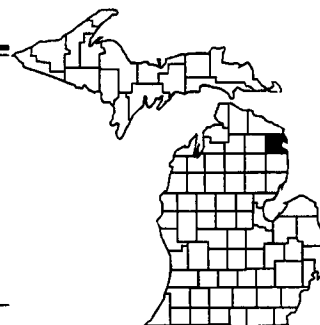
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	746	377	369	732	371	361	11	4	7	3	2	1
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	7	3	-	2	10	10	1	20	31	55	110	497
White Male	5	2	-	1	6	8	1	13	21	36	67	211
White Female	1	1	-	1	4	2	-	7	9	17	40	279
Black Male	-	-	-	-	-	-	-	-	-	1	1	2
Black Female	-	-	-	-	-	-	-	-	1	1	1	4
Other Male	-	-	-	-	-	-	-	-	-	-	1	1
Other Female	1	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	746	801.5	732	808.7	11	741.2	15	52.5
Diseases of the Heart	246	264.3	241	266.2	5	*	-	-
Malignant Neoplasms	175	188.0	173	191.1	1	*	1	*
Cerebrovascular Diseases	53	56.9	52	57.4	1	*	-	-
Accidents and Adverse Effects	44	47.3	43	47.5	1	*	12	42.0
Chronic Obstructive Pulmonary Diseases and Allied Conditions	24	25.8	24	26.5	-	-	-	-
Pneumonia and Influenza	44	47.3	43	47.5	1	*	-	-
Diabetes Mellitus	25	26.9	24	26.5	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	1	*	1	*	-	-	1	*
Suicide	12	12.9	12	13.3	-	-	-	-
Atherosclerosis	5	*	5	*	-	-	-	-
AIDS	4	*	4	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Alpena County



POPULATION

As of April 1, 1992: 31,000
 Rank Among Counties: 46
 Per Square Mile: 54.6

NATALITY

Total Live Births: 356
 Teenage Mothers: 47
 Low Weight Births: 33
 First Births: 138

MORTALITY

Total Deaths: 318
 Infant Deaths: 1
 Neonatal Deaths: -
 Postneonatal Deaths: 1
 Perinatal Deaths: 5
 Fetal Deaths: 5

MARRIAGE

Marriages: 253
 Marriage Rate: 16.3

DIVORCE

Divorces: 149
 Divorce Rate: 9.6

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	356	11.5	354	11.5	-	-	2	*
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	47	132.0	47	132.8	-	-	-	-
Low Weight	33	92.7	33	93.2	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	80	224.7	80	226.0	-	-	-	-
Prenatal Care Began in 1st Trimester	323	907.3	321	906.8	-	-	2	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	1	*	1	*	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	5	*	5	*	-	-	-	-
Fetal Deaths	5	*	5	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

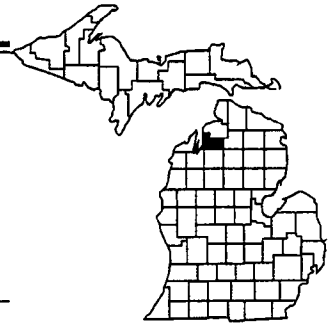
Deaths	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
	318	175	143	315	172	143	-	-	-	3	3	-
Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+ Unk
Total Deaths	1	-	-	-	1	-	3	6	13	22	46	226
White Male	1	-	-	-	1	-	2	5	8	15	25	115
White Female	-	-	-	-	-	-	1	1	5	6	20	110
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	1	1	1
Other Female	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	318	1,025.8	315	1,024.2	-	-	1	*
Diseases of the Heart	104	335.5	104	338.1	-	-	-	-
Malignant Neoplasms	80	258.1	78	253.6	-	-	-	-
Cerebrovascular Diseases	19	61.3	19	61.8	-	-	-	-
Accidents and Adverse Effects	15	48.4	15	48.8	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	17	54.8	17	55.3	-	-	-	-
Pneumonia and Influenza	15	48.4	15	48.8	-	-	-	-
Diabetes Mellitus	5	*	5	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	2	*	2	*	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Antrim County



POPULATION		NATILITY		MORTALITY	
As of April 1, 1992:	18,897	Total Live Births:	258	Total Deaths:	217
Rank Among Counties:	63	Teenage Mothers:	36	Infant Deaths:	2
Per Square Mile:	39.4	Low Weight Births:	16	Neonatal Deaths:	1
		First Births:	106	Postneonatal Deaths:	1
				Perinatal Deaths:	3
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	167	Divorces:	86		
Marriage Rate:	17.7	Divorce Rate:	9.1		

NATILITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	258	13.7	250	13.4	-	-	7	26.3
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	36	139.5	34	136.0	-	-	2	*
Low Weight	16	62.0	15	60.0	-	-	1	*
Under 1,500 Grams	2	*	2	*	-	-	-	-
< 38 Weeks Gestation	44	170.5	44	176.0	-	-	-	-
Prenatal Care Began in 1st Trimester	186	720.9	181	724.0	-	-	4	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

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

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

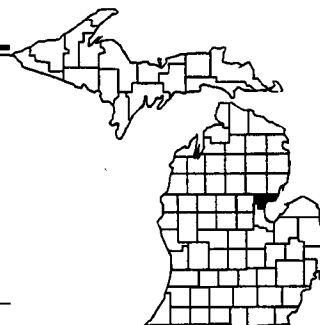
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	217	108	109	211	105	106	-	-	-	6	3	3
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	2	2	-	-	1	3	-	3	9	20	37	140
White Male	1	1	-	-	1	1	-	3	6	10	21	61
White Female	1	1	-	-	-	1	-	-	3	9	14	77
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	1	1	1
Other Female	-	-	-	-	-	1	-	-	-	-	1	1

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	217	1,148.3	211	1,134.3	-	-	3	*
Diseases of the Heart	74	391.6	71	381.7	-	-	-	-
Malignant Neoplasms	57	301.6	56	301.0	-	-	-	-
Cerebrovascular Diseases	16	84.7	16	86.0	-	-	-	-
Accidents and Adverse Effects	11	58.2	10	53.8	-	-	2	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	8	42.3	8	43.0	-	-	-	-
Pneumonia and Influenza	5	*	5	*	-	-	-	-
Diabetes Mellitus	3	*	3	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	2	*	2	*	-	-	1	*
Atherosclerosis	5	*	4	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Arenac County



POPULATION

As of April 1, 1992: 15,625
 Rank Among Counties: 66
 Per Square Mile: 42.5

NATALITY

Total Live Births: 194
 Teenage Mothers: 20
 Low Weight Births: 11
 First Births: 72

MORTALITY

Total Deaths: 188
 Infant Deaths: 2
 Neonatal Deaths: 2
 Postneonatal Deaths: -
 Perinatal Deaths: 4
 Fetal Deaths: 3

MARRIAGE

Marriages: 107
 Marriage Rate: 13.7

DIVORCE

Divorces: 61
 Divorce Rate: 7.8

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	194	12.4	193	12.5	-	-	-	-
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	20	103.1	20	103.6	-	-	-	-
Low Weight	11	56.7	11	57.0	-	-	-	-
Under 1,500 Grams	2	*	2	*	-	-	-	-
< 38 Weeks Gestation	34	175.3	34	176.2	-	-	-	-
Prenatal Care Began in 1st Trimester	158	814.4	158	818.7	-	-	-	-

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

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

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

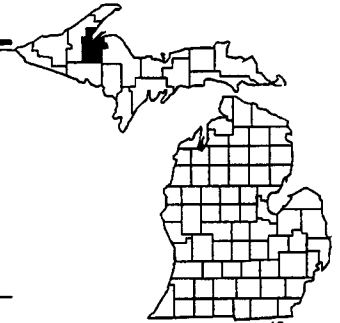
Deaths	All Races			White			Black			Other			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	188	116	72	185	114	71	-	-	-	3	2	1	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	2	-	-	-	1	-	-	9	9	7	36	124	-
White Male	2	-	-	-	-	-	-	7	6	5	24	70	-
White Female	-	-	-	-	1	-	-	1	1	2	12	54	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	1	1	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	1	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	188	1,203.2	185	1,200.8	-	-	1	*
Diseases of the Heart	66	422.4	66	428.4	-	-	-	-
Malignant Neoplasms	42	268.8	42	272.6	-	-	-	-
Cerebrovascular Diseases	14	89.6	14	90.9	-	-	-	-
Accidents and Adverse Effects	15	96.0	12	77.9	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	12	76.8	12	77.9	-	-	-	-
Pneumonia and Influenza	5	*	5	*	-	-	-	-
Diabetes Mellitus	6	38.4	6	38.9	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	1	*	1	*	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Baraga County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1992:	7,828	Total Live Births:	99	Total Deaths:	109
Rank Among Counties:	81	Teenage Mothers:	13	Infant Deaths:	1
Per Square Mile:	8.7	Low Weight Births:	6	Neonatal Deaths:	-
		First Births:	42	Postneonatal Deaths:	1
				Perinatal Deaths:	-
				Fetal Deaths:	-
MARRIAGE		DIVORCE			
Marriages:	64	Divorces:	24		
Marriage Rate:	16.4	Divorce Rate:	6.1		

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	99	12.6	81	11.9	-	-	18	18.5
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	13	131.3	8	98.8	-	-	5	*
Low Weight	6	60.6	5	*	-	-	1	*
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	13	131.3	9	111.1	-	-	4	*
Prenatal Care Began in 1st Trimester	84	848.5	69	851.9	-	-	15	833.3

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

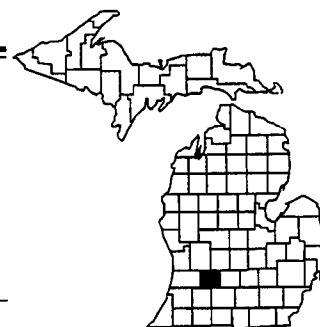
Deaths	All Races			White			Black			Other			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	109	55	54	101	50	51	-	-	-	8	5	3	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	1	-	-	-	-	1	4	5	6	18	73	-
White Male	-	1	-	-	-	-	1	2	3	3	12	28	-
White Female	1	-	-	-	-	-	-	1	1	3	3	42	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	1	-	2	2	-
Other Female	-	-	-	-	-	-	-	1	-	-	1	1	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	109	1,392.4	101	1,484.6	-	-	1	*
Diseases of the Heart	44	562.1	41	602.7	-	-	-	-
Malignant Neoplasms	20	255.5	17	249.9	-	-	-	-
Cerebrovascular Diseases	8	102.2	8	117.6	-	-	-	-
Accidents and Adverse Effects	5	*	4	*	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	4	*	4	*	-	-	-	-
Pneumonia and Influenza	6	76.6	6	88.2	-	-	-	-
Diabetes Mellitus	6	76.6	6	88.2	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	-	-	-	-	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	2	*	2	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Barry County



POPULATION

As of April 1, 1992: 51,196
 Rank Among Counties: 34
 Per Square Mile: 91.4

NATALITY

Total Live Births: 709
 Teenage Mothers: 83
 Low Weight Births: 33
 First Births: 263

MORTALITY

Total Deaths: 423
 Infant Deaths: 5
 Neonatal Deaths: 4
 Postneonatal Deaths: 1
 Perinatal Deaths: 6
 Fetal Deaths: 2

MARRIAGE

Marriages: 434
 Marriage Rate: 17.0

DIVORCE

Divorces: 237
 Divorce Rate: 9.3

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	709	13.8	703	13.9	1	*	4	*
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	83	117.1	83	118.1	-	-	-	-
Low Weight	33	46.5	33	46.9	-	-	-	-
Under 1,500 Grams	6	8.5	6	8.5	-	-	-	-
< 38 Weeks Gestation	94	132.6	93	132.3	-	-	1	*
Prenatal Care Began in 1st Trimester	602	849.1	596	847.8	1	*	4	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	5	*	5	*	-	-	-	-
Neonatal Deaths	4	*	4	*	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	6	8.4	6	8.5	-	-	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	423	234	189	422	234	188	-	-	-	1	-	1
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	5	-	-	1	4	6	6	7	17	38	73	266
White Male	3	-	-	-	1	4	5	7	11	24	44	135
White Female	2	-	-	1	3	2	1	-	6	14	28	131
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	1	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	423	826.2	422	832.2	-	-	5	*
Diseases of the Heart	130	253.9	130	256.4	-	-	-	-
Malignant Neoplasms	98	191.4	98	193.3	-	-	1	*
Cerebrovascular Diseases	35	68.4	35	69.0	-	-	-	-
Accidents and Adverse Effects	25	48.8	24	47.3	-	-	4	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	22	43.0	22	43.4	-	-	-	-
Pneumonia and Influenza	14	27.3	14	27.6	-	-	-	-
Diabetes Mellitus	15	29.3	15	29.6	-	-	-	-
Chronic Liver Disease and Cirrhosis	6	11.7	6	11.8	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	9	17.6	9	17.7	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	2	*	2	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Bay County



POPULATION		NATIVITY		MORTALITY	
As of April 1, 1992:	112,131	Total Live Births:	1,413	Total Deaths:	1,035
Rank Among Counties:	18	Teenage Mothers:	165	Infant Deaths:	6
Per Square Mile:	250.7	Low Weight Births:	105	Neonatal Deaths:	3
		First Births:	579	Postneonatal Deaths:	3
				Perinatal Deaths:	12
				Fetal Deaths:	10
MARRIAGE		DIVORCE			
Marriages:	926	Divorces:	449		
Marriage Rate:	16.5	Divorce Rate:	8.0		

NATIVITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,413	12.6	1,379	12.6	23	17.4	11	8.3
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	165	116.8	159	115.3	5	*	1	*
Low Weight	105	74.3	100	72.5	5	*	-	-
Under 1,500 Grams	12	8.5	9	6.5	3	*	-	-
< 38 Weeks Gestation	228	161.4	220	159.5	4	*	4	*
Prenatal Care Began in 1st Trimester	1,269	898.1	1,240	899.2	18	782.6	11	1,000.0

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	6	4.2	6	4.4	-	-	-	-
Neonatal Deaths	3	*	3	*	-	-	-	-
Postneonatal Deaths	3	*	3	*	-	-	-	-
Perinatal Deaths	12	8.4	11	7.9	1	*	-	-
Fetal Deaths	10	7.0	9	6.5	1	*	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

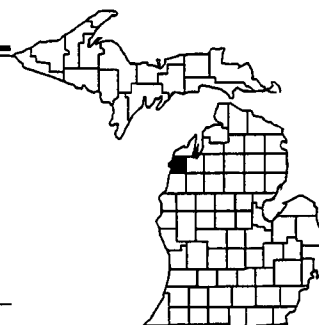
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	1,035	545	490	1,014	528	486	14	11	3	7	6	1
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	6	1	1	1	7	10	5	28	48	71	154	703
White Male	4	-	1	1	6	9	4	21	31	38	84	329
White Female	2	1	-	-	-	1	1	4	15	28	64	370
Black Male	-	-	-	-	1	-	-	2	1	3	3	1
Black Female	-	-	-	-	-	-	-	1	-	-	1	1
Other Male	-	-	-	-	-	-	-	-	1	2	2	1
Other Female	-	-	-	-	-	-	-	-	-	-	-	1

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,035	923.0	1,014	926.2	14	1,057.4	10	32.8
Diseases of the Heart	356	317.5	351	320.6	2	*	1	*
Malignant Neoplasms	269	239.9	263	240.2	5	*	1	*
Cerebrovascular Diseases	58	51.7	57	52.1	-	-	-	-
Accidents and Adverse Effects	29	25.9	29	26.5	-	-	3	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	45	40.1	43	39.3	1	*	-	-
Pneumonia and Influenza	32	28.5	32	29.2	-	-	-	-
Diabetes Mellitus	38	33.9	38	34.7	-	-	-	-
Chronic Liver Disease and Cirrhosis	7	6.2	7	6.4	-	-	-	-
Homicide	2	*	1	*	1	*	-	-
Suicide	21	18.7	20	18.3	1	*	2	*
Atherosclerosis	32	28.5	32	29.2	-	-	-	-
AIDS	4	*	3	*	1	*	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Benzie County



POPULATION

As of April 1, 1992: 12,616
 Rank Among Counties: 72
 Per Square Mile: 39.2

NATALITY

Total Live Births: 152
 Teenage Mothers: 19
 Low Weight Births: 10
 First Births: 45

MORTALITY

Total Deaths: 150
 Infant Deaths: 1
 Neonatal Deaths: -
 Postneonatal Deaths: 1
 Perinatal Deaths: 2
 Fetal Deaths: 2

MARRIAGE

Marriages: 128
 Marriage Rate: 20.3

DIVORCE

Divorces: 79
 Divorce Rate: 12.5

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	152	12.0	141	11.5	2	*	8	25.9
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	19	125.0	16	113.5	1	*	2	*
Low Weight	10	65.8	8	56.7	1	*	1	*
Under 1,500 Grams	2	*	2	*	-	-	-	-
< 38 Weeks Gestation	22	144.7	20	141.8	1	*	1	*
Prenatal Care Began in 1st Trimester	116	763.2	112	794.3	1	*	3	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

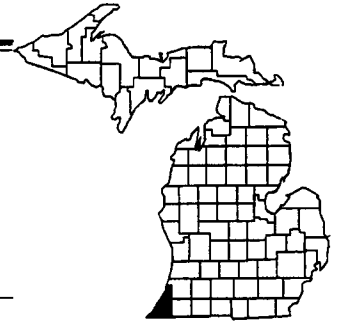
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	150	77	73	143	73	70	2	1	1	5	3	2
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	1	-	1	1	-	1	1	3	5	15	23	99
White Male	1	-	1	1	-	1	1	1	1	12	12	42
White Female	-	-	-	-	-	-	-	-	2	3	11	54
Black Male	-	-	-	-	-	-	-	1	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	1
Other Male	-	-	-	-	-	-	-	1	1	-	-	1
Other Female	-	-	-	-	-	-	-	-	1	-	-	1

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	150	1,189.0	143	1,165.4	2	*	2	*
Diseases of the Heart	61	483.5	58	472.7	-	-	-	-
Malignant Neoplasms	22	174.4	22	179.3	-	-	-	-
Cerebrovascular Diseases	15	118.9	15	122.2	-	-	-	-
Accidents and Adverse Effects	9	71.3	6	48.9	1	*	2	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	8	63.4	8	65.2	-	-	-	-
Pneumonia and Influenza	5	*	5	*	-	-	-	-
Diabetes Mellitus	5	*	5	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	3	*	3	*	-	-	-	-
Atherosclerosis	3	*	3	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Berrien County



POPULATION		NATIVITY		MORTALITY	
As of April 1, 1992:	161,466	Total Live Births:	2,228	Total Deaths:	1,549
Rank Among Counties:	12	Teenage Mothers:	416	Infant Deaths:	16
Per Square Mile:	280.3	Low Weight Births:	197	Neonatal Deaths:	9
		First Births:	902	Postneonatal Deaths:	7
				Perinatal Deaths:	18
				Fetal Deaths:	12
MARRIAGE		DIVORCE			
Marriages:	1,310	Divorces:	671		
Marriage Rate:	16.2	Divorce Rate:	8.3		

NATIVITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	2,228	13.8	1,584	11.8	611	24.1	26	11.0
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	416	186.7	207	130.7	203	332.2	4	*
Low Weight	197	88.4	109	68.8	87	142.4	1	*
Under 1,500 Grams	23	10.3	16	10.1	7	11.5	-	-
< 38 Weeks Gestation	395	177.3	242	152.8	149	243.9	4	*
Prenatal Care Began in 1st Trimester	1,537	689.9	1,214	766.4	297	486.1	21	807.7

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	16	7.2	9	5.7	7	11.5	-	-
Neonatal Deaths	9	4.0	7	4.4	2	*	-	-
Postneonatal Deaths	7	3.1	2	*	5	*	-	-
Perinatal Deaths	18	8.0	13	8.2	5	*	-	-
Fetal Deaths	12	5.4	8	5.0	4	*	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

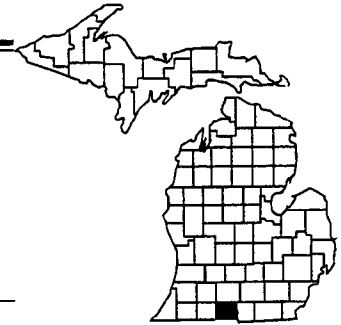
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	1,549	789	760	1,299	652	647	241	130	111	8	7	1
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	16	10	3	4	14	10	14	42	59	126	230	1,021
White Male	5	2	-	3	3	-	7	21	28	55	106	422
White Female	4	2	-	1	1	2	1	11	17	42	81	485
Black Male	3	3	2	-	7	4	5	7	10	15	20	54
Black Female	4	3	1	-	3	4	1	3	4	13	21	54
Other Male	-	-	-	-	-	-	-	-	-	1	2	4
Other Female	-	-	-	-	-	-	-	-	-	-	-	1

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,549	959.3	1,299	971.6	241	948.9	31	68.1
Diseases of the Heart	488	302.2	418	312.7	67	263.8	1	*
Malignant Neoplasms	368	227.9	313	234.1	53	208.7	1	*
Cerebrovascular Diseases	111	68.7	99	74.0	11	43.3	1	*
Accidents and Adverse Effects	76	47.1	55	41.1	21	82.7	15	33.0
Chronic Obstructive Pulmonary Diseases and Allied Conditions	62	38.4	55	41.1	6	23.6	-	-
Pneumonia and Influenza	51	31.6	42	31.4	9	35.4	3	*
Diabetes Mellitus	51	31.6	44	32.9	6	23.6	-	-
Chronic Liver Disease and Cirrhosis	19	11.8	16	12.0	3	*	-	-
Homicide	20	12.4	1	*	19	74.8	6	13.2
Suicide	11	6.8	11	8.2	-	-	-	-
Atherosclerosis	32	19.8	27	20.2	5	*	-	-
AIDS	8	5.0	3	*	5	*	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Branch County



POPULATION		NATIVITY		MORTALITY	
As of April 1, 1992:	41,871	Total Live Births:	507	Total Deaths:	371
Rank Among Counties:	37	Teenage Mothers:	63	Infant Deaths:	5
Per Square Mile:	82.4	Low Weight Births:	23	Neonatal Deaths:	1
		First Births:	187	Postneonatal Deaths:	4
				Perinatal Deaths:	5
				Fetal Deaths:	4
MARRIAGE		DIVORCE			
Marriages:	332	Divorces:	237		
Marriage Rate:	15.9	Divorce Rate:	11.3		

NATIVITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	507	12.1	501	12.3	1	*	4	*
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	63	124.3	62	123.8	-	-	1	*
Low Weight	23	45.4	22	43.9	-	-	1	*
Under 1,500 Grams	8	15.8	8	16.0	-	-	-	-
< 38 Weeks Gestation	61	120.3	60	119.8	-	-	1	*
Prenatal Care Began in 1st Trimester	380	749.5	374	746.5	1	*	4	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

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

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

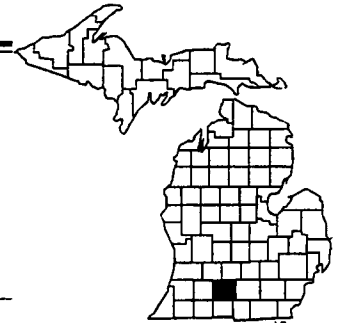
Deaths	All Races			White			Black			Other			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	371	188	183	366	184	182	2	2	-	3	2	1	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	5	-	3	-	1	4	2	12	15	30	68	231	-
White Male	4	-	3	-	-	2	2	6	13	19	38	97	-
White Female	1	-	-	-	1	2	-	6	2	11	26	133	-
Black Male	-	-	-	-	-	-	-	-	-	-	1	1	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	2	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	1	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	371	886.1	366	901.9	2	*	4	*
Diseases of the Heart	131	312.9	131	322.8	-	-	-	-
Malignant Neoplasms	80	191.1	77	189.7	1	*	-	-
Cerebrovascular Diseases	22	52.5	22	54.2	-	-	-	-
Accidents and Adverse Effects	18	43.0	18	44.4	-	-	2	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	20	47.8	20	49.3	-	-	-	-
Pneumonia and Influenza	14	33.4	14	34.5	-	-	-	-
Diabetes Mellitus	7	16.7	7	17.2	-	-	-	-
Chronic Liver Disease and Cirrhosis	5	*	5	*	-	-	-	-
Homicide	2	*	2	*	-	-	-	-
Suicide	9	21.5	9	22.2	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	2	*	2	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Calhoun County



POPULATION		NATIVITY		MORTALITY	
As of April 1, 1992:	138,381	Total Live Births:	1,969	Total Deaths:	1,348
Rank Among Counties:	15	Teenage Mothers:	356	Infant Deaths:	14
Per Square Mile:	194.5	Low Weight Births:	149	Neonatal Deaths:	8
		First Births:	832	Postneonatal Deaths:	6
				Perinatal Deaths:	13
				Fetal Deaths:	6
MARRIAGE		DIVORCE			
Marriages:	1,177	Divorces:	727		
Marriage Rate:	17.0	Divorce Rate:	10.5		

NATIVITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,969	14.2	1,647	13.6	287	19.1	34	17.1
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	356	180.8	263	159.7	88	306.6	5	*
Low Weight	149	75.7	108	65.6	38	132.4	3	*
Under 1,500 Grams	22	11.2	16	9.7	6	20.9	-	-
< 38 Weeks Gestation	350	177.8	269	163.3	73	254.4	8	235.3
Prenatal Care Began in 1st Trimester	1,491	757.2	1,295	786.3	169	588.9	27	794.1

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	14	7.1	11	6.7	2	*	1	*
Neonatal Deaths	8	4.1	6	3.6	1	*	1	*
Postneonatal Deaths	6	3.0	5	*	1	*	-	-
Perinatal Deaths	13	6.6	10	6.1	3	*	-	-
Fetal Deaths	6	3.0	4	*	2	*	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

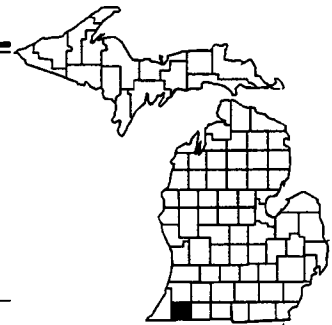
Deaths	All Races			White			Black			Other			
	Total 1,348	Male 631	Female 717	Total 1,169	Male 548	Female 621	Total 164	Male 77	Female 87	Total 14	Male 6	Female 8	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	14	3	3	1	9	11	10	31	54	99	205	908	-
White Male	4	1	1	-	5	6	7	14	28	47	103	332	-
White Female	7	-	1	-	-	-	3	4	11	34	70	491	-
Black Male	1	-	-	-	3	5	-	6	8	7	16	31	-
Black Female	1	2	1	1	1	-	-	6	6	8	14	47	-
Other Male	1	-	-	-	-	-	-	-	-	2	1	2	-
Other Female	-	-	-	-	-	-	-	1	1	1	1	4	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,348	974.1	1,169	963.3	164	1,090.4	16	41.1
Diseases of the Heart	451	325.9	395	325.5	49	325.8	-	-
Malignant Neoplasms	324	234.1	281	231.6	39	259.3	1	*
Cerebrovascular Diseases	86	62.1	79	65.1	6	39.9	-	-
Accidents and Adverse Effects	58	41.9	49	40.4	8	53.2	7	18.0
Chronic Obstructive Pulmonary Diseases and Allied Conditions	64	46.2	61	50.3	2	*	-	-
Pneumonia and Influenza	61	44.1	54	44.5	6	39.9	-	-
Diabetes Mellitus	41	29.6	25	20.6	16	106.4	-	-
Chronic Liver Disease and Cirrhosis	11	7.9	9	7.4	2	*	-	-
Homicide	11	7.9	3	*	8	53.2	4	*
Suicide	16	11.6	16	13.2	-	-	2	*
Atherosclerosis	18	13.0	17	14.0	1	*	-	-
AIDS	6	4.3	5	*	1	*	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Cass County



POPULATION

As of April 1, 1992: 49,112
 Rank Among Counties: 35
 Per Square Mile: 99.0

NATALITY

Total Live Births: 554
 Teenage Mothers: 114
 Low Weight Births: 37
 First Births: 231

MORTALITY

Total Deaths: 446
 Infant Deaths: 8
 Neonatal Deaths: 5
 Postneonatal Deaths: 3
 Perinatal Deaths: 7
 Fetal Deaths: 5

MARRIAGE

Marriages: 395
 Marriage Rate: 16.1

DIVORCE

Divorces: 233
 Divorce Rate: 9.5

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	554	11.3	499	11.2	51	14.0	4	*
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	114	205.8	104	208.4	9	176.5	1	*
Low Weight	37	66.8	31	62.1	6	117.6	-	-
Under 1,500 Grams	10	18.1	7	14.0	3	*	-	-
< 38 Weeks Gestation	83	149.8	70	140.3	12	235.3	1	*
Prenatal Care Began in 1st Trimester	421	759.9	386	773.5	34	666.7	1	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	8	14.4	6	12.0	2	*	-	-
Neonatal Deaths	5	*	4	*	1	*	-	-
Postneonatal Deaths	3	*	2	*	1	*	-	-
Perinatal Deaths	7	12.5	4	*	2	*	1	*
Fetal Deaths	5	*	3	*	1	*	1	*

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

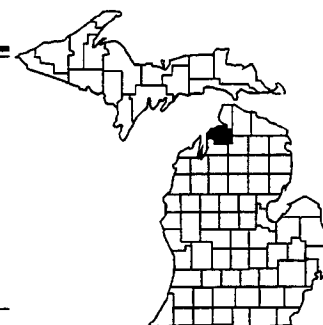
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	446	222	224	387	192	195	49	24	25	10	6	4
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	8	-	-	4	7	1	-	10	10	35	76	295
White Male	6	-	-	1	5	1	-	4	3	20	39	113
White Female	-	-	-	3	1	-	-	3	5	14	27	142
Black Male	1	-	-	-	1	-	-	1	1	1	4	15
Black Female	1	-	-	-	-	-	-	1	1	-	3	19
Other Male	-	-	-	-	-	-	-	-	-	-	2	4
Other Female	-	-	-	-	-	-	-	1	-	-	1	2

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	446	908.1	387	865.1	49	1,345.4	11	78.9
Diseases of the Heart	139	283.0	119	266.0	15	411.9	-	-
Malignant Neoplasms	113	230.1	93	207.9	16	439.3	1	*
Cerebrovascular Diseases	36	73.3	31	69.3	5	*	-	-
Accidents and Adverse Effects	23	46.8	21	46.9	2	*	6	43.0
Chronic Obstructive Pulmonary Diseases and Allied Conditions	25	50.9	25	55.9	-	-	-	-
Pneumonia and Influenza	20	40.7	17	38.0	3	*	-	-
Diabetes Mellitus	11	22.4	10	22.4	1	*	-	-
Chronic Liver Disease and Cirrhosis	3	*	2	*	-	-	-	-
Homicide	2	*	1	*	1	*	1	*
Suicide	7	14.3	7	15.6	-	-	2	*
Atherosclerosis	3	*	2	*	1	*	-	-
AIDS	1	*	-	-	1	*	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Charlevoix County



POPULATION

As of April 1, 1992: 22,225
 Rank Among Counties: 56
 Per Square Mile: 52.8

NATALITY

Total Live Births: 321
 Teenage Mothers: 41
 Low Weight Births: 14
 First Births: 153

MORTALITY

Total Deaths: 206
 Infant Deaths: 1
 Neonatal Deaths: 1
 Postneonatal Deaths: -
 Perinatal Deaths: 2
 Fetal Deaths: 1

MARRIAGE

Marriages: 209
 Marriage Rate: 18.8

DIVORCE

Divorces: 117
 Divorce Rate: 10.5

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	321	14.4	309	14.2	-	-	12	26.7
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	41	127.7	39	126.2	-	-	2	*
Low Weight	14	43.6	14	45.3	-	-	-	-
Under 1,500 Grams	2	*	2	*	-	-	-	-
< 38 Weeks Gestation	34	105.9	33	106.8	-	-	1	*
Prenatal Care Began in 1st Trimester	256	797.5	248	802.6	-	-	8	666.7

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

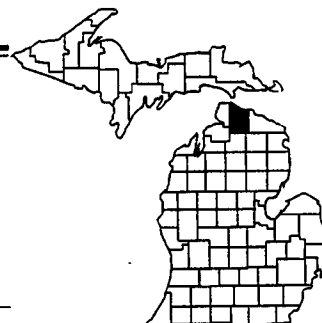
Deaths	All Races			White			Black			Other			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	206	120	86	204	119	85	-	-	-	2	1	1	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	-	-	2	3	5	1	6	10	17	24	137	-
White Male	1	-	-	1	1	5	-	4	10	15	15	67	-
White Female	-	-	-	1	2	-	1	1	-	2	9	69	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	1	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	1	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	206	926.9	204	937.7	-	-	5	*
Diseases of the Heart	78	351.0	78	358.5	-	-	-	-
Malignant Neoplasms	48	216.0	47	216.0	-	-	1	*
Cerebrovascular Diseases	14	63.0	14	64.4	-	-	-	-
Accidents and Adverse Effects	10	45.0	9	41.4	-	-	2	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	7	31.5	7	32.2	-	-	-	-
Pneumonia and Influenza	4	*	4	*	-	-	-	-
Diabetes Mellitus	3	*	3	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	2	*	2	*	-	-	-	-
Suicide	2	*	2	*	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	1	*	1	*	-	-	1	*

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Cheboygan County



POPULATION		NATIVITY		MORTALITY	
As of April 1, 1992:	21,780	Total Live Births:	254	Total Deaths:	260
Rank Among Counties:	58	Teenage Mothers:	33	Infant Deaths:	3
Per Square Mile:	30.2	Low Weight Births:	18	Neonatal Deaths:	3
		First Births:	110	Postneonatal Deaths:	-
				Perinatal Deaths:	3
				Fetal Deaths:	1
MARRIAGE		DIVORCE			
Marriages:	222	Divorces:	86		
Marriage Rate:	20.4	Divorce Rate:	7.9		

NATIVITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	254	11.7	243	11.5	2	*	9	14.9
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	33	129.9	30	123.5	-	-	3	*
Low Weight	18	70.9	15	61.7	1	*	2	*
Under 1,500 Grams	3	*	3	*	-	-	-	-
< 38 Weeks Gestation	40	157.5	37	152.3	1	*	2	*
Prenatal Care Began in 1st Trimester	214	842.5	205	843.6	-	-	9	1,000.0

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	3	*	3	*	-	-	-	-
Neonatal Deaths	3	*	3	*	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	3	*	3	*	-	-	-	-
Fetal Deaths	1	*	1	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

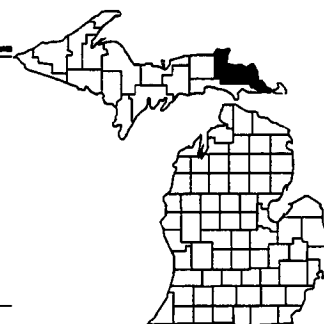
	All Races			White			Black			Other			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	260	129	131	254	125	129	-	-	-	5	3	2	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	3	-	-	1	1	3	1	4	9	18	45	175	-
White Male	1	-	-	-	1	2	1	2	4	9	17	88	-
White Female	2	-	-	1	-	-	-	2	3	9	26	86	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	1	-	1	1	-
Other Female	-	-	-	-	-	-	-	-	1	-	1	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	260	1,193.8	254	1,200.5	-	-	2	*
Diseases of the Heart	90	413.2	88	415.9	-	-	-	-
Malignant Neoplasms	73	335.2	71	335.6	-	-	-	-
Cerebrovascular Diseases	18	82.6	18	85.1	-	-	-	-
Accidents and Adverse Effects	8	36.7	7	33.1	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	11	50.5	11	52.0	-	-	-	-
Pneumonia and Influenza	8	36.7	8	37.8	-	-	-	-
Diabetes Mellitus	3	*	3	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	4	*	4	*	-	-	1	*
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Chippewa County



POPULATION		NATIVITY		MORTALITY	
As of April 1, 1992:	35,640	Total Live Births:	420	Total Deaths:	285
Rank Among Counties:	44	Teenage Mothers:	51	Infant Deaths:	4
Per Square Mile:	22.4	Low Weight Births:	22	Neonatal Deaths:	4
		First Births:	162	Postneonatal Deaths:	-
				Perinatal Deaths:	6
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	293	Divorces:	121		
Marriage Rate:	16.4	Divorce Rate:	6.8		

NATIVITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	420	11.8	323	11.2	4	*	89	20.6
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	51	121.4	31	96.0	1	*	19	213.5
Low Weight	22	52.4	21	65.0	1	*	-	-
Under 1,500 Grams	6	14.3	5	*	1	*	-	-
< 38 Weeks Gestation	54	128.6	42	130.0	1	*	11	123.6
Prenatal Care Began in 1st Trimester	332	790.5	261	808.0	3	*	67	752.8

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	4	*	3	*	-	-	1	*
Neonatal Deaths	4	*	3	*	-	-	1	*
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	6	14.2	4	*	-	-	2	*
Fetal Deaths	2	*	1	*	-	-	1	*

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

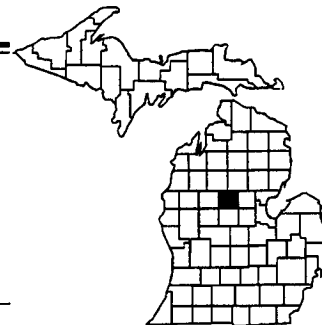
Deaths	All Races			White			Black			Other			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	285	142	143	268	132	136	-	-	-	17	10	7	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	4	1	-	-	2	1	1	6	5	17	44	204	-
White Male	-	-	-	-	2	-	-	2	1	11	26	90	-
White Female	3	1	-	-	-	1	-	4	4	6	14	103	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	1	-	-	-	3	6	-
Other Female	1	-	-	-	-	-	-	-	-	-	1	5	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	285	799.7	268	932.7	-	-	3	*
Diseases of the Heart	100	280.6	91	316.7	-	-	-	-
Malignant Neoplasms	60	168.3	56	194.9	-	-	1	*
Cerebrovascular Diseases	24	67.3	23	80.0	-	-	-	-
Accidents and Adverse Effects	9	25.3	9	31.3	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	16	44.9	16	55.7	-	-	-	-
Pneumonia and Influenza	8	22.4	8	27.8	-	-	-	-
Diabetes Mellitus	15	42.1	14	48.7	-	-	-	-
Chronic Liver Disease and Cirrhosis	5	*	5	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	2	*	2	*	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Clare County



POPULATION

As of April 1, 1992: 26,384
 Rank Among Counties: 51
 Per Square Mile: 46.3

NATALITY

Total Live Births: 369
 Teenage Mothers: 61
 Low Weight Births: 39
 First Births: 137

MORTALITY

Total Deaths: 350
 Infant Deaths: 3
 Neonatal Deaths: 3
 Postneonatal Deaths: -
 Perinatal Deaths: 6
 Fetal Deaths: 3

MARRIAGE

Marriages: 242
 Marriage Rate: 18.3

DIVORCE

Divorces: 149
 Divorce Rate: 11.3

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	369	14.0	360	13.8	1	*	8	32.8
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	61	165.3	57	158.3	-	-	4	*
Low Weight	39	105.7	37	102.8	-	-	2	*
Under 1,500 Grams	8	21.7	6	16.7	-	-	2	*
< 38 Weeks Gestation	71	192.4	67	186.1	-	-	4	*
Prenatal Care Began in 1st Trimester	297	804.9	289	802.8	1	*	7	875.0

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	3	*	3	*	-	-	-	-
Neonatal Deaths	3	*	3	*	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	6	16.1	6	16.5	-	-	-	-
Fetal Deaths	3	*	3	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

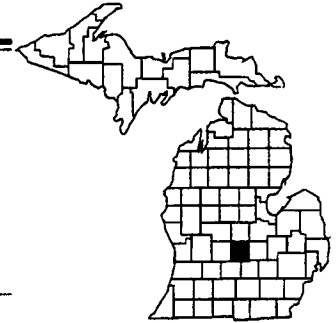
Deaths	All Races			White			Black			Other			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	350	189	161	348	188	160	-	-	-	2	1	1	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	3	1	1	1	2	2	-	6	8	36	65	225	-
White Male	1	-	1	-	2	2	-	4	7	21	37	113	-
White Female	2	1	-	1	-	-	-	2	1	14	27	112	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	-	-
Other Female	-	-	-	-	-	-	-	-	-	1	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	350	1,326.6	348	1,333.9	-	-	5	*
Diseases of the Heart	122	462.4	120	460.0	-	-	-	-
Malignant Neoplasms	97	367.6	97	371.8	-	-	-	-
Cerebrovascular Diseases	19	72.0	19	72.8	-	-	-	-
Accidents and Adverse Effects	11	41.7	11	42.2	-	-	3	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	16	60.6	16	61.3	-	-	-	-
Pneumonia and Influenza	18	68.2	18	69.0	-	-	-	-
Diabetes Mellitus	7	26.5	7	26.8	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	1	*	1	*	-	-	1	*
Suicide	5	*	5	*	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Clinton County



POPULATION

As of April 1, 1992: 59,397
 Rank Among Counties: 28
 Per Square Mile: 103.6

NATALITY

Total Live Births: 809
 Teenage Mothers: 69
 Low Weight Births: 42
 First Births: 328

MORTALITY

Total Deaths: 391
 Infant Deaths: 4
 Neonatal Deaths: 1
 Postneonatal Deaths: 3
 Perinatal Deaths: 5
 Fetal Deaths: 4

MARRIAGE

Marriages: 425
 Marriage Rate: 14.3

DIVORCE

Divorces: 276
 Divorce Rate: 9.3

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	809	13.6	798	13.6	-	-	8	14.9
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	69	85.3	68	85.2	-	-	1	-
Low Weight	42	51.9	42	52.6	-	-	-	-
Under 1,500 Grams	7	8.7	7	8.8	-	-	-	-
< 38 Weeks Gestation	110	136.0	108	135.3	-	-	2	-
Prenatal Care Began in 1st Trimester	694	857.8	686	859.6	-	-	6	750.0

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

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

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

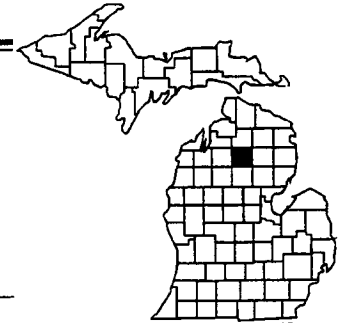
Deaths	All Races			White			Black			Other			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	391	184	207	389	183	206	-	-	-	2	1	1	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	4	-	1	2	-	2	1	12	14	25	64	266	-
White Male	2	-	-	1	-	2	1	8	8	11	29	121	-
White Female	2	-	1	1	-	-	-	4	6	14	34	144	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	1	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	391	658.3	389	663.6	-	-	3	*
Diseases of the Heart	134	225.6	133	226.9	-	-	-	-
Malignant Neoplasms	92	154.9	91	155.2	-	-	-	-
Cerebrovascular Diseases	28	47.1	28	47.8	-	-	-	-
Accidents and Adverse Effects	6	10.1	6	10.2	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	29	48.8	29	49.5	-	-	-	-
Pneumonia and Influenza	19	32.0	19	32.4	-	-	1	*
Diabetes Mellitus	6	10.1	6	10.2	-	-	-	-
Chronic Liver Disease and Cirrhosis	5	*	5	*	-	-	-	-
Homicide	3	*	3	*	-	-	-	-
Suicide	7	11.8	7	11.9	-	-	-	-
Atherosclerosis	5	*	5	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Crawford County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1992:	12,972	Total Live Births:	161	Total Deaths:	120
Rank Among Counties:	70	Teenage Mothers:	30	Infant Deaths:	1
Per Square Mile:	23.2	Low Weight Births:	16	Neonatal Deaths:	1
		First Births:	71	Postneonatal Deaths:	-
				Perinatal Deaths:	9
				Fetal Deaths:	8
MARRIAGE		DIVORCE			
Marriages:	104	Divorces:	65		
Marriage Rate:	16.0	Divorce Rate:	10.0		

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	161	12.4	158	12.7	1	*	2	*
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	30	186.3	29	183.5	1	*	-	-
Low Weight	16	99.4	16	101.3	-	-	-	-
Under 1,500 Grams	3	*	3	*	-	-	-	-
< 38 Weeks Gestation	28	173.9	28	177.2	-	-	-	-
Prenatal Care Began in 1st Trimester	125	776.4	122	772.2	1	*	2	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	1	*	1	*	-	-	-	-
Neonatal Deaths	1	*	1	*	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	9	53.3	9	54.2	-	-	-	-
Fetal Deaths	8	47.3	8	48.2	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	120	62	58	116	59	57	-	-	-	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+
Total Deaths	1	1	-	1	1	-	2	1	3	13	26	71
White Male	1	-	-	-	1	-	-	1	1	8	16	31
White Female	-	1	-	1	-	-	1	-	2	4	10	38
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	1	-	-	1	-	1
Other Female	-	-	-	-	-	-	-	-	-	-	-	1

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	120	925.1	116	932.5	-	-	3	*
Diseases of the Heart	35	269.8	35	281.4	-	-	-	-
Malignant Neoplasms	35	269.8	33	265.3	-	-	-	-
Cerebrovascular Diseases	9	69.4	8	64.3	-	-	-	-
Accidents and Adverse Effects	4	*	4	*	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	6	46.3	6	48.2	-	-	-	-
Pneumonia and Influenza	4	*	4	*	-	-	1	*
Diabetes Mellitus	3	*	3	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	4	*	3	*	-	-	1	*
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Delta County



POPULATION		NATILITY		MORTALITY	
As of April 1, 1992:	38,208	Total Live Births:	429	Total Deaths:	377
Rank Among Counties:	42	Teenage Mothers:	57	Infant Deaths:	9
Per Square Mile:	32.6	Low Weight Births:	20	Neonatal Deaths:	7
		First Births:	180	Postneonatal Deaths:	2
				Perinatal Deaths:	7
				Fetal Deaths:	1
MARRIAGE		DIVORCE			
Marriages:	347	Divorces:	176		
Marriage Rate:	18.2	Divorce Rate:	9.2		

NATILITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	429	11.2	413	11.1	1	*	15	14.7
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	57	132.9	55	133.2	-	-	2	*
Low Weight	20	46.6	20	48.4	-	-	-	-
Under 1,500 Grams	8	18.6	8	19.4	-	-	-	-
< 38 Weeks Gestation	49	114.2	46	111.4	-	-	3	*
Prenatal Care Began in 1st Trimester	272	634.0	261	632.0	-	-	11	733.3

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	9	21.0	9	21.8	-	-	-	-
Neonatal Deaths	7	16.3	7	16.9	-	-	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	7	16.3	7	16.9	-	-	-	-
Fetal Deaths	1	*	1	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

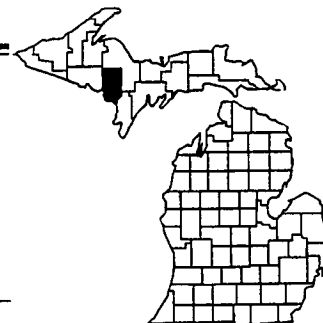
Deaths	All Races			White			Black			Other				
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female		
	377	173	204	371	170	201	1	-	1	5	3	2		
	Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk	
	Total Deaths	9	-	2	-	1	1	3	4	9	27	61	260	-
	White Male	4	-	2	-	1	-	2	1	3	15	38	104	-
	White Female	5	-	-	-	-	1	1	3	5	12	21	153	-
	Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
	Black Female	-	-	-	-	-	-	-	-	-	-	-	1	-
	Other Male	-	-	-	-	-	-	-	-	-	-	2	1	-
	Other Female	-	-	-	-	-	-	-	-	1	-	-	1	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	377	986.7	371	998.1	1	*	3	*
Diseases of the Heart	133	348.1	129	347.0	-	-	-	-
Malignant Neoplasms	95	248.6	94	252.9	1	*	-	-
Cerebrovascular Diseases	24	62.8	24	64.6	-	-	-	-
Accidents and Adverse Effects	17	44.5	16	43.0	-	-	3	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	11	28.8	11	29.6	-	-	-	-
Pneumonia and Influenza	9	23.6	9	24.2	-	-	-	-
Diabetes Mellitus	14	36.6	14	37.7	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	2	*	2	*	-	-	-	-
Suicide	5	*	5	*	-	-	-	-
Atherosclerosis	5	*	5	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Dickinson County



POPULATION

As of April 1, 1992: 27,014
 Rank Among Counties: 49
 Per Square Mile: 35.1

NATALITY

Total Live Births: 308
 Teenage Mothers: 32
 Low Weight Births: 17
 First Births: 128

MORTALITY

Total Deaths: 292
 Infant Deaths: 1
 Neonatal Deaths: -
 Postneonatal Deaths: 1
 Perinatal Deaths: -
 Fetal Deaths: -

MARRIAGE

Marriages: 215
 Marriage Rate: 15.9

DIVORCE

Divorces: 127
 Divorce Rate: 9.4

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	308	11.4	302	11.3	-	-	6	20.4
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	32	103.9	31	102.6	-	-	1	*
Low Weight	17	55.2	17	56.3	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	47	152.6	45	149.0	-	-	2	*
Prenatal Care Began in 1st Trimester	276	896.1	271	897.4	-	-	5	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

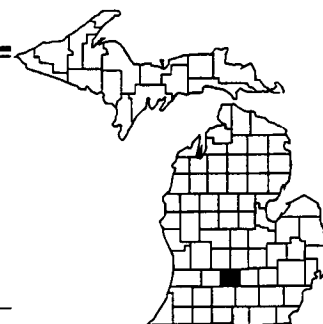
Deaths	All Races			White			Black			Other			
	Total 292	Male 150	Female 142	Total 292	Male 150	Female 142	Total -	Male -	Female -	Total -	Male -	Female -	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	2	-	-	2	-	-	3	10	20	30	224	-
White Male	-	1	-	-	1	-	-	2	5	15	16	110	-
White Female	1	1	-	-	1	-	-	1	5	5	14	114	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	292	1,080.9	292	1,094.0	-	-	4	*
Diseases of the Heart	90	333.2	90	337.2	-	-	-	-
Malignant Neoplasms	73	270.2	73	273.5	-	-	1	*
Cerebrovascular Diseases	27	99.9	27	101.2	-	-	-	-
Accidents and Adverse Effects	12	44.4	12	45.0	-	-	3	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	15	55.5	15	56.2	-	-	-	-
Pneumonia and Influenza	11	40.7	11	41.2	-	-	-	-
Diabetes Mellitus	7	25.9	7	26.2	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	6	22.2	6	22.5	-	-	-	-
Atherosclerosis	6	22.2	6	22.5	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Eaton County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1992:	95,253	Total Live Births:	1,159	Total Deaths:	696
Rank Among Counties:	19	Teenage Mothers:	120	Infant Deaths:	7
Per Square Mile:	164.4	Low Weight Births:	64	Neonatal Deaths:	3
		First Births:	471	Postneonatal Deaths:	4
				Perinatal Deaths:	6
				Fetal Deaths:	3
MARRIAGE		DIVORCE			
Marriages:	746	Divorces:	761		
Marriage Rate:	15.7	Divorce Rate:	16.0		

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,159	12.2	1,100	12.2	45	12.2	11	10.0
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	120	103.5	113	102.7	5	*	1	*
Low Weight	64	55.2	58	52.7	6	133.3	-	-
Under 1,500 Grams	12	10.4	11	10.0	1	*	-	-
< 38 Weeks Gestation	185	159.6	172	156.4	11	244.4	2	*
Prenatal Care Began in 1st Trimester	979	844.7	935	850.0	34	755.6	9	818.2

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	7	6.0	6	5.5	1	*	-	-
Neonatal Deaths	3	*	2	*	1	*	-	-
Postneonatal Deaths	4	*	4	*	-	-	-	-
Perinatal Deaths	6	5.2	5	*	1	*	-	-
Fetal Deaths	3	*	3	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

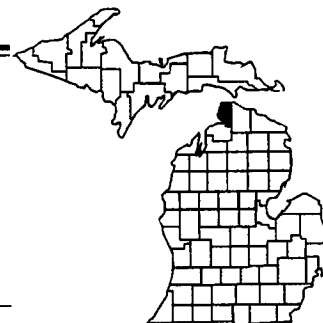
Deaths	All Races			White			Black			Other			
	Total 696	Male 342	Female 354	Total 683	Male 337	Female 346	Total 11	Male 4	Female 7	Total 1	Male -	Female 1	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	7	2	2	2	5	2	4	17	28	57	94	476	-
White Male	2	1	-	2	3	1	2	12	18	30	53	213	-
White Female	4	1	2	-	2	1	1	5	8	26	38	258	-
Black Male	1	-	-	-	-	-	-	-	2	-	1	-	-
Black Female	-	-	-	-	-	-	1	-	-	-	1	5	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	1	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	696	730.7	683	754.9	11	299.4	11	39.8
Diseases of the Heart	232	243.6	228	252.0	3	*	-	-
Malignant Neoplasms	151	158.5	150	165.8	1	*	1	*
Cerebrovascular Diseases	56	58.8	55	60.8	1	*	-	-
Accidents and Adverse Effects	30	31.5	29	32.1	1	*	7	25.3
Chronic Obstructive Pulmonary Diseases and Allied Conditions	32	33.6	32	35.4	-	-	-	-
Pneumonia and Influenza	31	32.5	30	33.2	1	*	-	-
Diabetes Mellitus	7	7.3	7	7.7	-	-	-	-
Chronic Liver Disease and Cirrhosis	4	*	4	*	-	-	-	-
Homicide	3	*	3	*	-	-	1	*
Suicide	4	*	4	*	-	-	-	-
Atherosclerosis	11	11.5	11	12.2	-	-	-	-
AIDS	4	*	4	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Emmet County



POPULATION

As of April 1, 1992: 26,057
 Rank Among Counties: 52
 Per Square Mile: 55.7

NATALITY

Total Live Births: 366
 Teenage Mothers: 36
 Low Weight Births: 22
 First Births: 133

MORTALITY

Total Deaths: 283
 Infant Deaths: -
 Neonatal Deaths: -
 Postneonatal Deaths: -
 Perinatal Deaths: 4
 Fetal Deaths: 4

MARRIAGE

Marriages: 280
 Marriage Rate: 21.5

DIVORCE

Divorces: 149
 Divorce Rate: 11.4

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	366	14.0	341	13.6	1	*	24	29.8
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	36	98.4	34	99.7	-	-	2	*
Low Weight	22	60.1	21	61.6	-	-	1	*
Under 1,500 Grams	3	*	3	*	-	-	-	-
< 38 Weeks Gestation	69	188.5	61	178.9	-	-	8	333.3
Prenatal Care Began in 1st Trimester	306	836.1	288	844.6	1	*	17	708.3

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

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

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

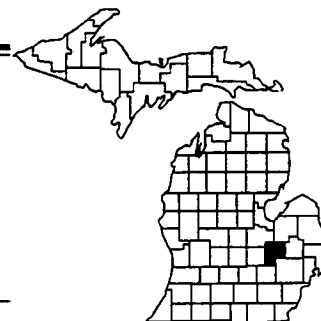
Deaths	All Races			White			Black			Other				
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female		
	283	140	143	270	134	136	2	2	-	10	4	6		
	Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk	
	Total Deaths	-	-	1	-	1	3	6	4	15	17	47	189	-
	White Male	-	-	1	-	1	-	4	1	8	9	30	80	-
	White Female	-	-	-	-	-	2	2	3	4	7	13	105	-
	Black Male	-	-	-	-	-	-	-	-	1	-	1	-	-
	Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other Male	-	-	-	-	-	1	-	-	1	-	2	-	-
	Other Female	-	-	-	-	-	-	-	-	1	1	1	3	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	283	1,086.1	270	1,075.4	2	*	2	*
Diseases of the Heart	96	368.4	93	370.4	1	*	-	-
Malignant Neoplasms	52	199.6	49	195.2	-	-	1	*
Cerebrovascular Diseases	15	57.6	15	59.7	-	-	-	-
Accidents and Adverse Effects	15	57.6	14	55.8	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	16	61.4	16	63.7	-	-	-	-
Pneumonia and Influenza	19	72.9	18	71.7	-	-	-	-
Diabetes Mellitus	4	*	3	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	2	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	5	*	5	*	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	3	*	2	*	1	*	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Genesee County



POPULATION

As of April 1, 1992: 433,508
 Rank Among Counties: 5
 Per Square Mile: 675.7

NATALITY

Total Live Births: 6,610
 Teenage Mothers: 1,138
 Low Weight Births: 631
 First Births: 2,594

MORTALITY

Total Deaths: 3,629
 Infant Deaths: 96
 Neonatal Deaths: 63
 Postneonatal Deaths: 33
 Perinatal Deaths: 83
 Fetal Deaths: 27

MARRIAGE

Marriages: 3,320
 Marriage Rate: 15.3

DIVORCE

Divorces: 1,881
 Divorce Rate: 8.7

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	6,610	15.2	4,484	13.2	2,033	23.3	87	13.3
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	1,138	172.2	583	130.0	541	266.1	12	137.9
Low Weight	631	95.5	330	73.6	296	145.6	5	*
Under 1,500 Grams	137	20.7	68	15.2	67	33.0	2	*
< 38 Weeks Gestation	1,243	188.0	755	168.4	468	230.2	18	206.9
Prenatal Care Began in 1st Trimester	5,493	831.0	3,950	880.9	1,467	721.6	71	816.1

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	96	14.5	43	9.6	51	25.1	2	*
Neonatal Deaths	63	9.5	30	6.7	31	15.2	2	*
Postneonatal Deaths	33	5.0	13	2.9	20	9.8	-	-
Perinatal Deaths	83	12.5	43	9.6	37	18.1	2	*
Fetal Deaths	27	4.1	15	3.3	11	5.4	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

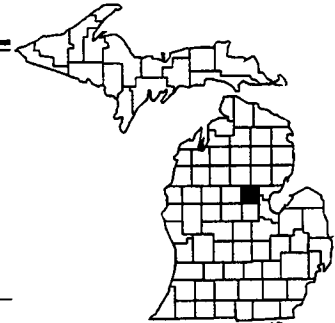
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	3,629	1,814	1,815	2,884	1,405	1,479	725	395	330	20	14	6
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	96	13	7	10	27	44	40	127	202	327	642	2,094
White Male	25	3	1	4	12	13	15	55	82	154	302	739
White Female	18	2	2	2	-	7	8	25	48	90	199	1,078
Black Male	28	4	4	4	12	19	11	26	43	47	76	121
Black Female	23	2	-	-	3	4	6	20	28	31	62	151
Other Male	-	1	-	-	-	1	-	-	1	4	2	5
Other Female	2	1	-	-	-	-	-	1	-	1	1	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	3,629	837.1	2,884	848.9	725	831.1	57	45.2
Diseases of the Heart	1,303	300.6	1,096	322.6	200	229.3	-	-
Malignant Neoplasms	792	182.7	636	187.2	151	173.1	3	*
Cerebrovascular Diseases	238	54.9	193	56.8	45	51.6	-	-
Accidents and Adverse Effects	147	33.9	105	30.9	38	43.6	22	17.4
Chronic Obstructive Pulmonary Diseases and Allied Conditions	168	38.8	144	42.4	24	27.5	2	*
Pneumonia and Influenza	84	19.4	74	21.8	9	10.3	1	*
Diabetes Mellitus	96	22.1	71	20.9	25	28.7	-	-
Chronic Liver Disease and Cirrhosis	43	9.9	29	8.5	14	16.0	-	-
Homicide	64	14.8	15	4.4	49	56.2	13	10.3
Suicide	46	10.6	39	11.5	7	8.0	1	*
Atherosclerosis	23	5.3	22	6.5	1	*	-	-
AIDS	21	4.8	14	4.1	7	8.0	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Gladwin County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1992:	23,007	Total Live Births:	270	Total Deaths:	291
Rank Among Counties:	54	Teenage Mothers:	47	Infant Deaths:	1
Per Square Mile:	45.5	Low Weight Births:	19	Neonatal Deaths:	1
		First Births:	101	Postneonatal Deaths:	-
				Perinatal Deaths:	1
				Fetal Deaths:	1
MARRIAGE		DIVORCE			
Marriages:	177	Divorces:	105		
Marriage Rate:	15.4	Divorce Rate:	9.1		

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	270	11.7	268	11.8	-	-	2	*
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	47	174.1	47	175.4	-	-	-	-
Low Weight	19	70.4	19	70.9	-	-	-	-
Under 1,500 Grams	6	22.2	6	22.4	-	-	-	-
< 38 Weeks Gestation	49	181.5	49	182.8	-	-	-	-
Prenatal Care Began in 1st Trimester	213	788.9	212	791.0	-	-	1	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

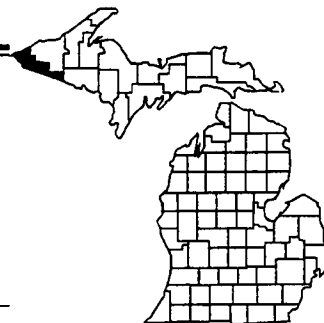
	All Races			White			Black			Other				
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female		
Deaths	291	157	134	291	157	134	-	-	-	-	-	-		
	Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk	
	Total Deaths	1	-	1	-	2	-	1	6	5	27	50	198	-
	White Male	1	-	1	-	2	-	1	4	4	17	33	94	-
	White Female	-	-	-	-	-	-	-	2	1	10	17	104	-
	Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
	Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	291	1,264.8	291	1,276.0	-	-	3	*
Diseases of the Heart	107	465.1	107	469.2	-	-	-	-
Malignant Neoplasms	68	295.6	68	298.2	-	-	-	-
Cerebrovascular Diseases	22	95.6	22	96.5	-	-	-	-
Accidents and Adverse Effects	7	30.4	7	30.7	-	-	2	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	13	56.5	13	57.0	-	-	-	-
Pneumonia and Influenza	11	47.8	11	48.2	-	-	-	-
Diabetes Mellitus	7	30.4	7	30.7	-	-	-	-
Chronic Liver Disease and Cirrhosis	5	*	5	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	4	*	4	*	-	-	1	*
Atherosclerosis	5	*	5	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Gogebic County

**POPULATION**

As of April 1, 1992: 17,891
 Rank Among Counties: 64
 Per Square Mile: 16.2

NATALITY

Total Live Births: 167
 Teenage Mothers: 16
 Low Weight Births: 12
 First Births: 70

MORTALITY

Total Deaths: 228
 Infant Deaths: 1
 Neonatal Deaths: 1
 Postneonatal Deaths: -
 Perinatal Deaths: 3
 Fetal Deaths: 2

MARRIAGE

Marriages: 134
 Marriage Rate: 15.0

DIVORCE

Divorces: 65
 Divorce Rate: 7.3

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	167	9.3	157	9.1	-	-	10	30.0
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	16	95.8	14	89.2	-	-	2	*
Low Weight	12	71.9	12	76.4	-	-	-	-
Under 1,500 Grams	3	*	3	*	-	-	-	-
< 38 Weeks Gestation	34	203.6	33	210.2	-	-	1	*
Prenatal Care Began in 1st Trimester	139	832.3	134	853.5	-	-	5	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

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

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

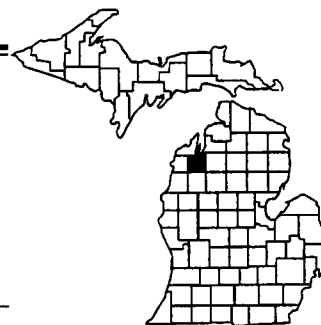
Deaths	All Races			White			Black			Other			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	228	116	112	226	115	111	-	-	-	2	1	1	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	-	-	-	1	3	1	3	1	10	37	171	-
White Male	-	-	-	-	1	3	1	2	1	5	22	80	-
White Female	1	-	-	-	-	-	-	1	-	4	15	90	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	1	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	1	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	228	1,274.4	226	1,307.2	-	-	1	*
Diseases of the Heart	81	452.7	80	462.7	-	-	-	-
Malignant Neoplasms	54	301.8	53	306.6	-	-	-	-
Cerebrovascular Diseases	13	72.7	13	75.2	-	-	-	-
Accidents and Adverse Effects	9	50.3	9	52.1	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	9	50.3	9	52.1	-	-	-	-
Pneumonia and Influenza	15	83.8	15	86.8	-	-	-	-
Diabetes Mellitus	4	*	4	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	4	*	4	*	-	-	1	*
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Grand Traverse County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1992:	67,290	Total Live Births:	903	Total Deaths:	551
Rank Among Counties:	27	Teenage Mothers:	73	Infant Deaths:	3
Per Square Mile:	144.3	Low Weight Births:	40	Neonatal Deaths:	-
		First Births:	334	Postneonatal Deaths:	3
				Perinatal Deaths:	3
				Fetal Deaths:	3
MARRIAGE		DIVORCE			
Marriages:	653	Divorces:	386		
Marriage Rate:	19.4	Divorce Rate:	11.5		

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	903	13.4	880	13.3	3	*	19	19.7
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	73	80.8	69	78.4	1	*	3	*
Low Weight	40	44.3	38	43.2	1	*	1	*
Under 1,500 Grams	7	7.8	7	8.0	-	-	-	-
< 38 Weeks Gestation	142	157.3	140	159.1	-	-	2	*
Prenatal Care Began in 1st Trimester	735	814.0	723	821.6	2	*	10	526.3

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	3	*	3	*	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	3	*	3	*	-	-	-	-
Perinatal Deaths	3	*	3	*	-	-	-	-
Fetal Deaths	3	*	3	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

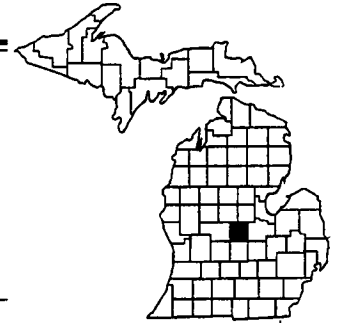
	All Races			White			Black			Other			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	551	268	283	544	265	279	1	-	1	5	3	2	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	3	2	-	-	4	3	2	8	24	46	70	389	-
White Male	1	1	-	-	4	2	2	6	14	31	37	167	-
White Female	2	-	-	-	-	1	-	2	10	14	33	217	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	1	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	1	-	2	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	2	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	551	818.8	544	823.8	1	*	6	31.1
Diseases of the Heart	174	258.6	173	262.0	-	-	-	-
Malignant Neoplasms	143	212.5	141	213.5	-	-	-	-
Cerebrovascular Diseases	43	63.9	43	65.1	-	-	-	-
Accidents and Adverse Effects	24	35.7	24	36.3	-	-	4	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	28	41.6	27	40.9	-	-	-	-
Pneumonia and Influenza	16	23.8	16	24.2	-	-	-	-
Diabetes Mellitus	9	13.4	8	12.1	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	9	13.4	9	13.6	-	-	1	*
Atherosclerosis	6	8.9	6	9.1	-	-	-	-
AIDS	2	*	2	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Gratiot County



POPULATION		NATIVITY		MORTALITY	
As of April 1, 1992:	39,450	Total Live Births:	515	Total Deaths:	394
Rank Among Counties:	40	Teenage Mothers:	76	Infant Deaths:	4
Per Square Mile:	69.2	Low Weight Births:	33	Neonatal Deaths:	2
		First Births:	209	Postneonatal Deaths:	2
				Perinatal Deaths:	6
				Fetal Deaths:	4
MARRIAGE		DIVORCE			
Marriages:	288	Divorces:	176		
Marriage Rate:	14.6	Divorce Rate:	8.9		

NATIVITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	515	13.1	511	13.2	1	*	3	*
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	76	147.6	76	148.7	-	-	-	-
Low Weight	33	64.1	31	60.7	-	-	2	*
Under 1,500 Grams	6	11.7	6	11.7	-	-	-	-
< 38 Weeks Gestation	83	161.2	83	162.4	-	-	-	-
Prenatal Care Began in 1st Trimester	413	801.9	410	802.3	1	*	2	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	4	*	4	*	-	-	-	-
Neonatal Deaths	2	*	2	*	-	-	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	6	11.6	5	*	1	*	-	-
Fetal Deaths	4	*	3	*	1	*	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

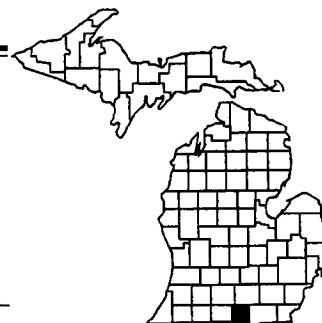
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	394	214	180	393	214	179	1	-	1	-	-	-
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	4	-	-	-	7	2	-	6	7	21	60	287
White Male	1	-	-	-	5	2	-	5	5	15	38	143
White Female	3	-	-	-	2	-	-	1	2	6	22	143
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	1
Other Male	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	394	998.7	393	1,013.9	1	*	7	61.1
Diseases of the Heart	141	357.4	141	363.8	-	-	-	-
Malignant Neoplasms	80	202.8	80	206.4	-	-	-	-
Cerebrovascular Diseases	38	96.3	38	98.0	-	-	-	-
Accidents and Adverse Effects	15	38.0	15	38.7	-	-	5	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	17	43.1	17	43.9	-	-	-	-
Pneumonia and Influenza	36	91.3	36	92.9	-	-	1	*
Diabetes Mellitus	7	17.7	7	18.1	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	3	*	3	*	-	-	1	*
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Hillsdale County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1992:	44,407	Total Live Births:	582	Total Deaths:	403
Rank Among Counties:	36	Teenage Mothers:	107	Infant Deaths:	9
Per Square Mile:	73.7	Low Weight Births:	34	Neonatal Deaths:	4
		First Births:	242	Postneonatal Deaths:	5
				Perinatal Deaths:	9
				Fetal Deaths:	6
MARRIAGE		DIVORCE			
Marriages:	337	Divorces:	248		
Marriage Rate:	15.2	Divorce Rate:	11.2		

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	582	13.1	575	13.1	-	-	7	23.8
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	107	183.8	104	180.9	-	-	3	*
Low Weight	34	58.4	33	57.4	-	-	1	*
Under 1,500 Grams	5	*	5	*	-	-	-	-
< 38 Weeks Gestation	98	168.4	93	161.7	-	-	5	*
Prenatal Care Began in 1st Trimester	428	735.4	422	733.9	-	-	6	857.1

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	9	15.5	9	15.7	-	-	-	-
Neonatal Deaths	4	*	4	*	-	-	-	-
Postneonatal Deaths	5	*	5	*	-	-	-	-
Perinatal Deaths	9	15.3	9	15.5	-	-	-	-
Fetal Deaths	6	10.2	6	10.3	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

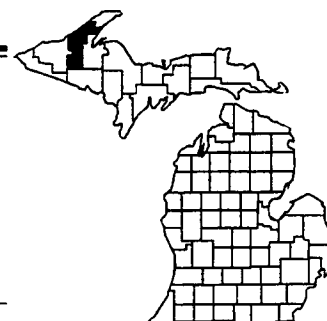
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	403	208	195	402	207	195	-	-	-	1	1	-
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	9	4	-	2	4	4	2	8	21	29	50	270
White Male	7	1	-	2	2	2	-	4	14	18	35	122
White Female	2	3	-	-	2	2	2	4	7	11	15	147
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1
Other Female	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	403	907.5	402	913.9	-	-	10	74.5
Diseases of the Heart	119	268.0	119	270.5	-	-	-	-
Malignant Neoplasms	88	198.2	88	200.1	-	-	3	*
Cerebrovascular Diseases	28	63.1	28	63.7	-	-	-	-
Accidents and Adverse Effects	22	49.5	22	50.0	-	-	4	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	20	45.0	20	45.5	-	-	-	-
Pneumonia and Influenza	14	31.5	13	29.6	-	-	-	-
Diabetes Mellitus	9	20.3	9	20.5	-	-	-	-
Chronic Liver Disease and Cirrhosis	5	*	5	*	-	-	-	-
Homicide	2	*	2	*	-	-	-	-
Suicide	2	*	2	*	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Houghton County



POPULATION

As of April 1, 1992: 35,831
 Rank Among Counties: 43
 Per Square Mile: 35.4

NATALITY

Total Live Births: 395
 Teenage Mothers: 35
 Low Weight Births: 12
 First Births: 124

MORTALITY

Total Deaths: 401
 Infant Deaths: 1
 Neonatal Deaths: 1
 Postneonatal Deaths: -
 Perinatal Deaths: 4
 Fetal Deaths: 3

MARRIAGE

Marriages: 232
 Marriage Rate: 12.9

DIVORCE

Divorces: 117
 Divorce Rate: 6.5

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	395	11.0	378	10.9	3	-	14	15.9
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	35	88.6	34	89.9	1	-	-	-
Low Weight	12	30.4	12	31.7	-	-	-	-
Under 1,500 Grams	1	-	1	-	-	-	-	-
< 38 Weeks Gestation	50	126.6	47	124.3	1	-	2	-
Prenatal Care Began in 1st Trimester	311	787.3	298	788.4	-	-	13	928.6

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	1	-	1	-	-	-	-	-
Neonatal Deaths	1	-	1	-	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	4	-	4	-	-	-	-	-
Fetal Deaths	3	-	3	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

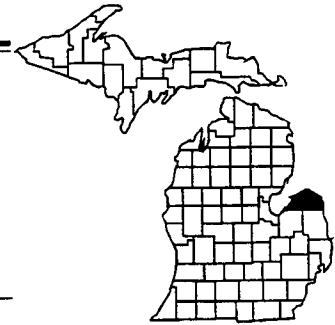
Deaths	All Races			White			Black			Other			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	401	212	189	399	211	188	-	-	-	2	1	1	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	1	-	-	3	2	-	5	12	26	41	310	-
White Male	1	1	-	-	2	1	-	4	9	18	29	146	-
White Female	-	-	-	-	1	-	-	1	3	8	12	163	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	1	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	401	1,119.1	399	1,147.2	-	-	4	-
Diseases of the Heart	163	454.9	163	468.7	-	-	-	-
Malignant Neoplasms	79	220.5	79	227.1	-	-	-	-
Cerebrovascular Diseases	35	97.7	34	97.8	-	-	-	-
Accidents and Adverse Effects	12	33.5	11	31.6	-	-	4	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	15	41.9	15	43.1	-	-	-	-
Pneumonia and Influenza	18	50.2	18	51.8	-	-	-	-
Diabetes Mellitus	7	19.5	7	20.1	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	-	2	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	2	-	2	-	-	-	-	-
Atherosclerosis	4	-	4	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Huron County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1992:	34,977	Total Live Births:	448	Total Deaths:	424
Rank Among Counties:	45	Teenage Mothers:	37	Infant Deaths:	2
Per Square Mile:	42.2	Low Weight Births:	21	Neonatal Deaths:	1
		First Births:	164	Postneonatal Deaths:	1
				Perinatal Deaths:	3
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	235	Divorces:	131		
Marriage Rate:	13.4	Divorce Rate:	7.5		

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	448	12.8	442	12.7	-	-	3	*
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	37	82.6	37	83.7	-	-	-	-
Low Weight	21	46.9	21	47.5	-	-	-	-
Under 1,500 Grams	2	*	2	*	-	-	-	-
< 38 Weeks Gestation	60	133.9	60	135.7	-	-	-	-
Prenatal Care Began in 1st Trimester	377	841.5	372	841.6	-	-	3	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

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

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

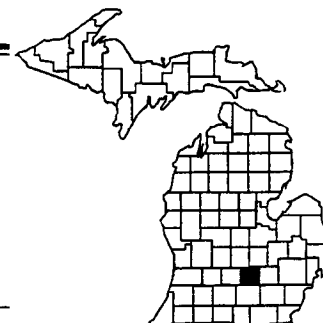
Deaths	All Races			White			Black			Other			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	424	211	213	419	207	212	1	1	-	4	3	1	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	2	2	-	-	3	2	1	9	9	15	60	321	-
White Male	1	2	-	-	3	2	1	5	7	8	34	144	-
White Female	1	-	-	-	-	-	-	4	2	6	26	173	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Black Female	-	-	-	-	-	-	-	-	-	1	-	2	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	424	1,212.2	419	1,204.8	1	*	5	*
Diseases of the Heart	161	460.3	159	457.2	-	-	-	-
Malignant Neoplasms	89	254.5	87	250.2	1	*	-	-
Cerebrovascular Diseases	44	125.8	44	126.5	-	-	-	-
Accidents and Adverse Effects	12	34.3	11	31.6	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	18	51.5	18	51.8	-	-	1	*
Pneumonia and Influenza	17	48.6	17	48.9	-	-	1	*
Diabetes Mellitus	11	31.4	11	31.6	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	1	*	1	*	-	-	1	*
Suicide	8	22.9	8	23.0	-	-	1	*
Atherosclerosis	3	*	3	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Ingham County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1992:	281,798	Total Live Births:	4,051	Total Deaths:	1,859
Rank Among Counties:	7	Teenage Mothers:	529	Infant Deaths:	39
Per Square Mile:	503.5	Low Weight Births:	304	Neonatal Deaths:	23
		First Births:	1,787	Postneonatal Deaths:	16
				Perinatal Deaths:	26
				Fetal Deaths:	7
MARRIAGE		DIVORCE			
Marriages:	2,334	Divorces:	1,165		
Marriage Rate:	16.6	Divorce Rate:	8.3		

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	4,051	14.4	3,222	13.4	600	20.2	223	20.4
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	529	130.6	351	108.9	162	270.0	16	71.7
Low Weight	304	75.0	216	67.0	72	120.0	15	67.3
Under 1,500 Grams	58	14.3	40	12.4	16	26.7	1	*
< 38 Weeks Gestation	674	166.4	497	154.3	133	221.7	42	188.3
Prenatal Care Began in 1st Trimester	3,353	827.7	2,768	859.1	416	693.3	166	744.4

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	39	9.6	29	9.0	9	15.0	1	*
Neonatal Deaths	23	5.7	17	5.3	6	10.0	-	-
Postneonatal Deaths	16	3.9	12	3.7	3	*	1	*
Perinatal Deaths	26	6.4	19	5.9	7	11.6	-	-
Fetal Deaths	7	1.7	6	1.9	1	*	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

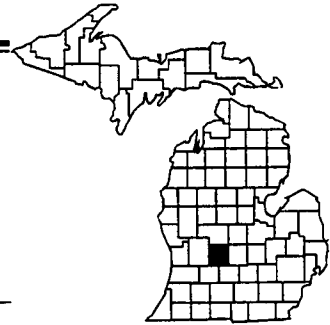
Deaths	All Races			White			Black			Other			
	Total 1,859	Male 892	Female 967	Total 1,663	Male 781	Female 882	Total 174	Male 97	Female 77	Total 22	Male 14	Female 8	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	39	9	4	6	10	16	17	67	95	145	272	1179	-
White Male	17	1	-	5	8	7	12	37	51	72	139	432	-
White Female	12	5	1	1	-	7	3	16	22	48	101	666	-
Black Male	4	-	2	-	1	2	2	10	15	16	16	29	-
Black Female	5	1	1	-	1	-	-	2	7	8	11	41	-
Other Male	1	1	-	-	-	-	-	1	-	1	5	5	-
Other Female	-	1	-	-	-	-	-	1	-	-	-	6	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,859	659.7	1,663	689.7	174	585.1	29	35.9
Diseases of the Heart	597	211.9	546	226.4	49	164.8	2	*
Malignant Neoplasms	423	150.1	384	159.3	33	111.0	3	*
Cerebrovascular Diseases	124	44.0	110	45.6	10	33.6	-	-
Accidents and Adverse Effects	82	29.1	73	30.3	8	26.9	14	17.3
Chronic Obstructive Pulmonary Diseases and Allied Conditions	81	28.7	80	33.2	1	*	1	*
Pneumonia and Influenza	64	22.7	59	24.5	5	*	-	-
Diabetes Mellitus	52	18.5	42	17.4	8	26.9	-	-
Chronic Liver Disease and Cirrhosis	14	5.0	12	5.0	1	*	-	-
Homicide	10	3.5	4	*	6	20.2	2	*
Suicide	29	10.3	26	10.8	2	*	3	*
Atherosclerosis	15	5.3	13	5.4	2	*	-	-
AIDS	15	5.3	10	4.1	5	*	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Ionia County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1992:	57,986	Total Live Births:	818	Total Deaths:	433
Rank Among Counties:	30	Teenage Mothers:	109	Infant Deaths:	5
Per Square Mile:	100.5	Low Weight Births:	56	Neonatal Deaths:	2
		First Births:	333	Postneonatal Deaths:	3
				Perinatal Deaths:	8
				Fetal Deaths:	6
MARRIAGE		DIVORCE			
Marriages:	426	Divorces:	288		
Marriage Rate:	14.7	Divorce Rate:	9.9		

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	818	14.1	797	14.7	3	*	16	42.2
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	109	133.3	104	130.5	1	*	4	*
Low Weight	56	68.5	53	66.5	-	-	3	*
Under 1,500 Grams	8	9.8	8	10.0	-	-	-	-
< 38 Weeks Gestation	134	163.8	132	165.6	-	-	2	*
Prenatal Care Began in 1st Trimester	657	803.2	644	808.0	2	*	9	562.5

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	5	*	5	*	-	-	-	-
Neonatal Deaths	2	*	2	*	-	-	-	-
Postneonatal Deaths	3	*	3	*	-	-	-	-
Perinatal Deaths	8	9.7	8	10.0	-	-	-	-
Fetal Deaths	6	7.3	6	7.5	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

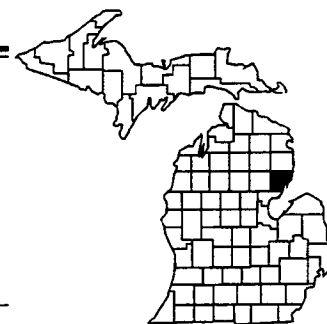
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	433	223	210	427	219	208	3	3	-	3	1	2
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	5	3	-	1	2	2	1	8	18	32	65	296
White Male	3	1	-	1	-	2	1	7	10	15	41	138
White Female	2	1	-	-	2	-	-	1	8	16	24	154
Black Male	-	-	-	-	-	-	-	-	-	-	-	3
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	1	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	1	-	1

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	433	746.7	427	786.3	3	*	6	34.2
Diseases of the Heart	134	231.1	131	241.2	1	*	-	-
Malignant Neoplasms	105	181.1	103	189.7	2	*	-	-
Cerebrovascular Diseases	35	60.4	34	62.6	-	-	1	*
Accidents and Adverse Effects	21	36.2	21	38.7	-	-	4	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	28	48.3	28	51.6	-	-	-	-
Pneumonia and Influenza	16	27.6	16	29.5	-	-	-	-
Diabetes Mellitus	10	17.2	10	18.4	-	-	-	-
Chronic Liver Disease and Cirrhosis	8	13.8	8	14.7	-	-	-	-
Homicide	2	*	2	*	-	-	-	-
Suicide	9	15.5	9	16.6	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Iosco County



POPULATION		NATIVITY		MORTALITY	
As of April 1, 1992:	30,211	Total Live Births:	268	Total Deaths:	378
Rank Among Counties:	47	Teenage Mothers:	35	Infant Deaths:	6
Per Square Mile:	55.3	Low Weight Births:	24	Neonatal Deaths:	4
		First Births:	94	Postneonatal Deaths:	2
				Perinatal Deaths:	5
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	182	Divorces:	96		
Marriage Rate:	12.0	Divorce Rate:	6.4		

NATIVITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	268	8.9	260	9.0	1	*	6	11.0
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	35	130.6	35	134.6	-	-	-	-
Low Weight	24	89.6	22	84.6	-	-	1	*
Under 1,500 Grams	6	22.4	5	*	-	-	-	-
< 38 Weeks Gestation	50	186.6	48	184.6	-	-	1	*
Prenatal Care Began in 1st Trimester	212	791.0	207	796.2	1	*	4	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	6	22.4	6	23.1	-	-	-	-
Neonatal Deaths	4	*	4	*	-	-	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	5	*	5	*	-	-	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

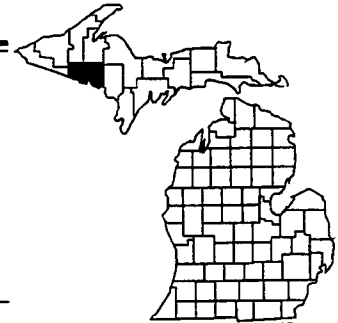
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	378	200	178	375	198	177	-	-	-	3	2	1
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	6	-	-	-	2	1	1	2	7	23	81	255
White Male	4	-	-	-	1	1	1	1	6	13	48	123
White Female	2	-	-	-	1	-	-	1	1	9	32	131
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	1	-	1
Other Female	-	-	-	-	-	-	-	-	-	-	1	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	378	1,251.2	375	1,291.1	-	-	2	*
Diseases of the Heart	124	410.4	123	423.5	-	-	-	-
Malignant Neoplasms	77	254.9	77	265.1	-	-	-	-
Cerebrovascular Diseases	25	82.8	25	86.1	-	-	-	-
Accidents and Adverse Effects	11	36.4	11	37.9	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	20	66.2	20	68.9	-	-	-	-
Pneumonia and Influenza	21	69.5	20	68.9	-	-	-	-
Diabetes Mellitus	7	23.2	7	24.1	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	1	*	1	*	-	-	1	*
Suicide	4	*	4	*	-	-	-	-
Atherosclerosis	17	56.3	17	58.5	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Iron County



POPULATION

As of April 1, 1992: 13,136
 Rank Among Counties: 69
 Per Square Mile: 11.3

NATALITY

Total Live Births: 121
 Teenage Mothers: 23
 Low Weight Births: 7
 First Births: 51

MORTALITY

Total Deaths: 240
 Infant Deaths: -
 Neonatal Deaths: -
 Postneonatal Deaths: -
 Perinatal Deaths: -
 Fetal Deaths: -

MARRIAGE

Marriages: 93
 Marriage Rate: 14.2

DIVORCE

Divorces: 59
 Divorce Rate: 9.0

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	121	9.2	118	9.1	-	-	3	-
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	23	190.1	22	186.4	-	-	1	-
Low Weight	7	57.9	7	59.3	-	-	-	-
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	20	165.3	20	169.5	-	-	-	-
Prenatal Care Began in 1st Trimester	96	793.4	94	796.6	-	-	2	-

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

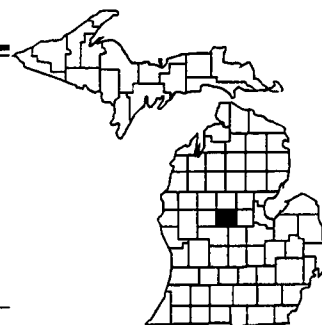
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	240	111	129	238	111	127	-	-	-	2	-	2
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	-	-	-	-	-	1	-	1	3	8	20	207
White Male	-	-	-	-	-	-	-	1	3	2	12	93
White Female	-	-	-	-	-	-	-	-	-	6	8	113
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	1	-	-	-	-	-	1

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	240	1,827.0	238	1,834.3	-	-	-	-
Diseases of the Heart	86	654.7	86	662.8	-	-	-	-
Malignant Neoplasms	53	403.5	53	408.5	-	-	-	-
Cerebrovascular Diseases	34	258.8	33	254.3	-	-	-	-
Accidents and Adverse Effects	4	-	4	-	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	6	45.7	6	46.2	-	-	-	-
Pneumonia and Influenza	14	106.6	14	107.9	-	-	-	-
Diabetes Mellitus	12	91.4	12	92.5	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	-	1	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	2	-	2	-	-	-	-	-
Atherosclerosis	1	-	1	-	-	-	-	-
AIDS	1	-	1	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Isabella County



POPULATION

As of April 1, 1992: 56,212
 Rank Among Counties: 31
 Per Square Mile: 97.5

NATALITY

Total Live Births: 615
 Teenage Mothers: 63
 Low Weight Births: 29
 First Births: 245

MORTALITY

Total Deaths: 344
 Infant Deaths: 6
 Neonatal Deaths: 5
 Postneonatal Deaths: 1
 Perinatal Deaths: 6
 Fetal Deaths: 2

MARRIAGE

Marriages: 457
 Marriage Rate: 16.3

DIVORCE

Divorces: 231
 Divorce Rate: 8.2

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	615	10.9	572	10.6	10	14.6	33	19.8
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	63	102.4	56	97.9	1	*	6	181.8
Low Weight	29	47.2	28	49.0	-	-	1	*
Under 1,500 Grams	4	*	4	*	-	-	-	-
< 38 Weeks Gestation	90	146.3	81	141.6	-	-	9	272.7
Prenatal Care Began in 1st Trimester	494	803.3	465	812.9	6	600.0	23	697.0

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	6	9.8	6	10.5	-	-	-	-
Neonatal Deaths	5	*	5	*	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	6	9.7	5	*	-	-	1	*
Fetal Deaths	2	*	1	*	-	-	1	*

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

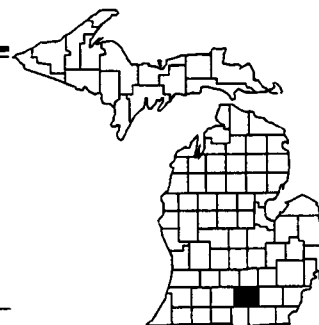
Deaths	All Races			White			Black			Other			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	344	186	158	331	178	153	2	1	1	11	7	4	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	6	2	1	1	5	5	2	13	15	27	46	221	-
White Male	1	1	-	-	3	2	1	9	9	15	32	105	-
White Female	5	1	1	1	2	2	1	2	4	11	12	111	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Male	-	-	-	-	-	-	-	2	2	-	1	2	-
Other Female	-	-	-	-	-	1	-	-	-	1	1	1	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	344	612.0	331	614.6	2	*	9	53.4
Diseases of the Heart	108	192.1	106	196.8	1	*	-	-
Malignant Neoplasms	83	147.7	79	146.7	-	-	-	-
Cerebrovascular Diseases	33	58.7	32	59.4	-	-	-	-
Accidents and Adverse Effects	12	21.3	11	20.4	-	-	3	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	16	28.5	15	27.9	-	-	-	-
Pneumonia and Influenza	16	28.5	16	29.7	-	-	-	-
Diabetes Mellitus	8	14.2	7	13.0	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	2	*	-	-	-	-
Homicide	3	*	2	*	-	-	-	-
Suicide	6	10.7	6	11.1	-	-	1	*
Atherosclerosis	5	*	5	*	-	-	-	-
AIDS	2	*	2	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Jackson County



POPULATION		NATIVITY		MORTALITY	
As of April 1, 1992:	151,740	Total Live Births:	2,063	Total Deaths:	1,365
Rank Among Counties:	13	Teenage Mothers:	323	Infant Deaths:	16
Per Square Mile:	215.3	Low Weight Births:	155	Neonatal Deaths:	13
		First Births:	840	Postneonatal Deaths:	3
				Perinatal Deaths:	25
				Fetal Deaths:	13
MARRIAGE		DIVORCE			
Marriages:	1,207	Divorces:	779		
Marriage Rate:	15.9	Divorce Rate:	10.3		

NATIVITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	2,063	13.6	1,824	13.2	206	16.6	19	13.5
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	323	156.6	258	141.4	64	310.7	1	*
Low Weight	155	75.1	130	71.3	23	111.7	1	*
Under 1,500 Grams	37	17.9	29	15.9	8	38.8	-	*
< 38 Weeks Gestation	309	149.8	261	143.1	46	223.3	2	*
Prenatal Care Began in 1st Trimester	1,477	715.9	1,346	737.9	110	534.0	15	789.5

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	16	7.8	11	6.0	5	*	-	-
Neonatal Deaths	13	6.3	8	4.4	5	*	-	-
Postneonatal Deaths	3	*	3	*	-	-	-	-
Perinatal Deaths	25	12.0	17	9.3	7	33.7	1	*
Fetal Deaths	13	6.3	10	5.5	2	*	1	*

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

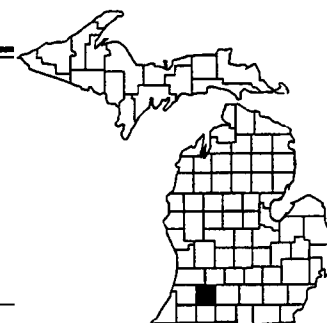
Deaths	All Races			White			Black			Other			
	Total 1,365	Male 685	Female 680	Total 1,272	Male 630	Female 642	Total 88	Male 54	Female 34	Total 5	Male 1	Female 4	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	16	5	5	2	9	9	9	40	72	109	194	895	-
White Male	4	2	4	1	5	6	5	19	40	55	112	377	-
White Female	7	2	1	1	3	-	1	11	19	42	72	483	-
Black Male	1	-	-	-	-	2	2	7	10	7	6	19	-
Black Female	4	-	-	-	1	-	1	3	3	4	4	14	-
Other Male	-	-	-	-	-	1	-	-	-	-	-	-	-
Other Female	-	1	-	-	-	-	-	-	-	1	-	2	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,365	899.6	1,272	922.3	88	709.0	21	51.7
Diseases of the Heart	422	278.1	401	290.7	21	169.2	1	*
Malignant Neoplasms	333	219.5	319	231.3	14	112.8	3	*
Cerebrovascular Diseases	88	58.0	82	59.5	6	48.3	-	-
Accidents and Adverse Effects	42	27.7	36	26.1	4	*	6	14.8
Chronic Obstructive Pulmonary Diseases and Allied Conditions	77	50.7	74	53.7	2	*	1	*
Pneumonia and Influenza	75	49.4	70	50.8	5	*	-	-
Diabetes Mellitus	20	13.2	17	12.3	3	*	-	-
Chronic Liver Disease and Cirrhosis	10	6.6	8	5.8	2	*	-	-
Homicide	7	4.6	5	*	2	*	1	*
Suicide	12	7.9	10	7.3	2	*	3	*
Atherosclerosis	13	8.6	13	9.4	-	-	-	-
AIDS	19	12.5	9	6.5	10	80.6	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Kalamazoo County



POPULATION

As of April 1, 1992: 225,648
 Rank Among Counties: 8
 Per Square Mile: 401.5

NATALITY

Total Live Births: 3,168
 Teenage Mothers: 342
 Low Weight Births: 202
 First Births: 1,292

MORTALITY

Total Deaths: 1,669
 Infant Deaths: 16
 Neonatal Deaths: 11
 Postneonatal Deaths: 5
 Perinatal Deaths: 27
 Fetal Deaths: 19

MARRIAGE

Marriages: 1,958
 Marriage Rate: 17.4

DIVORCE

Divorces: 1,046
 Divorce Rate: 9.3

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	3,168	14.0	2,643	13.2	464	22.1	60	12.8
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	342	108.0	212	80.2	121	260.8	9	150.0
Low Weight	202	63.8	150	56.8	48	103.4	4	*
Under 1,500 Grams	33	10.4	19	7.2	14	30.2	-	-
< 38 Weeks Gestation	489	154.4	363	137.3	113	243.5	13	216.7
Prenatal Care Began in 1st Trimester	2,724	859.8	2,348	888.4	324	698.3	51	850.0

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	16	5.1	9	3.4	6	12.9	1	*
Neonatal Deaths	11	3.5	6	2.3	5	*	-	-
Postneonatal Deaths	5	*	3	*	1	*	1	*
Perinatal Deaths	27	8.5	22	8.3	5	*	-	-
Fetal Deaths	19	6.0	18	6.8	1	*	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

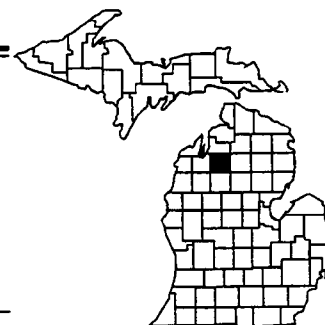
Deaths	All Races			White			Black			Other			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	1,669	749	920	1,530	678	852	128	65	63	11	6	5	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	16	3	-	4	14	12	19	50	63	107	238	1,143	-
White Male	5	-	-	2	7	9	10	31	29	49	110	426	-
White Female	4	2	-	1	5	3	3	12	21	41	103	657	-
Black Male	3	1	-	1	2	-	3	6	7	6	10	26	-
Black Female	3	-	-	-	-	-	1	1	6	8	14	30	-
Other Male	-	-	-	-	-	-	1	-	-	3	1	1	-
Other Female	1	-	-	-	-	-	1	-	-	-	-	3	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,669	739.6	1,530	765.1	128	609.7	21	34.0
Diseases of the Heart	499	221.1	465	232.5	32	152.4	-	-
Malignant Neoplasms	381	168.8	342	171.0	33	157.2	1	*
Cerebrovascular Diseases	119	52.7	107	53.5	12	57.2	-	-
Accidents and Adverse Effects	74	32.8	71	35.5	2	*	12	19.4
Chronic Obstructive Pulmonary Diseases and Allied Conditions	81	35.9	76	38.0	5	*	1	*
Pneumonia and Influenza	68	30.1	65	32.5	3	*	-	-
Diabetes Mellitus	50	22.2	46	23.0	4	*	-	-
Chronic Liver Disease and Cirrhosis	20	8.9	18	9.0	2	*	-	-
Homicide	12	5.3	8	4.0	4	*	1	*
Suicide	21	9.3	19	9.5	2	*	1	*
Atherosclerosis	9	4.0	8	4.0	1	*	-	-
AIDS	13	5.8	13	6.5	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Kalkaska County



POPULATION

As of April 1, 1992: 14,038
 Rank Among Counties: 67
 Per Square Mile: 24.9

NATALITY

Total Live Births: 191
 Teenage Mothers: 36
 Low Weight Births: 16
 First Births: 81

MORTALITY

Total Deaths: 135
 Infant Deaths: 1
 Neonatal Deaths: 1
 Postneonatal Deaths: -
 Perinatal Deaths: 1
 Fetal Deaths: -

MARRIAGE

Marriages: 122
 Marriage Rate: 17.4

DIVORCE

Divorces: 85
 Divorce Rate: 12.1

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	191	13.6	182	13.1	1	*	8	48.5
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	36	188.5	32	175.8	-	-	4	*
Low Weight	16	83.8	16	87.9	-	-	-	-
Under 1,500 Grams	7	36.6	7	38.5	-	-	-	-
< 38 Weeks Gestation	30	157.1	29	159.3	-	-	1	*
Prenatal Care Began in 1st Trimester	128	670.2	124	681.3	-	-	4	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

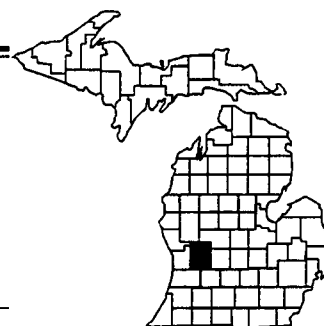
Deaths	All Races			White			Black			Other			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	135	74	61	132	72	60	-	-	-	3	2	1	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	-	-	-	4	1	-	5	10	13	24	77	-
White Male	1	-	-	-	1	1	-	5	5	7	15	37	-
White Female	-	-	-	-	2	-	-	-	4	6	8	40	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	1	-	-	-	-	-	1	-	-
Other Female	-	-	-	-	-	-	-	-	1	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	135	961.7	132	952.4	-	-	4	*
Diseases of the Heart	39	277.8	39	281.4	-	-	-	-
Malignant Neoplasms	28	199.5	28	202.0	-	-	-	-
Cerebrovascular Diseases	4	*	4	*	-	-	-	-
Accidents and Adverse Effects	15	106.9	14	101.0	-	-	2	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	5	*	5	*	-	-	-	-
Pneumonia and Influenza	7	49.9	7	50.5	-	-	-	-
Diabetes Mellitus	7	49.9	5	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	2	*	2	*	-	-	1	*
Atherosclerosis	5	*	5	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Kent County



POPULATION		NATILITY		MORTALITY	
As of April 1, 1992:	511,997	Total Live Births:	8,778	Total Deaths:	3,884
Rank Among Counties:	4	Teenage Mothers:	1,031	Infant Deaths:	67
Per Square Mile:	594.1	Low Weight Births:	602	Neonatal Deaths:	45
		First Births:	3,436	Postneonatal Deaths:	22
				Perinatal Deaths:	107
				Fetal Deaths:	72
MARRIAGE		DIVORCE			
Marriages:	4,777	Divorces:	2,094		
Marriage Rate:	18.7	Divorce Rate:	8.2		

NATILITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	8,778	17.1	7,511	16.4	1,074	24.7	188	19.8
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	1,031	117.5	694	92.4	322	299.8	15	79.8
Low Weight	602	68.6	443	59.0	148	137.8	11	58.5
Under 1,500 Grams	132	15.0	95	12.6	35	32.6	2	*
< 38 Weeks Gestation	1,427	162.6	1,132	150.7	263	244.9	32	170.2
Prenatal Care Began in 1st Trimester	6,600	751.9	5,888	783.9	591	550.3	116	617.0

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	67	7.6	52	6.9	14	13.0	1	*
Neonatal Deaths	45	5.1	38	5.1	7	6.5	-	-
Postneonatal Deaths	22	2.5	14	1.9	7	6.5	1	*
Perinatal Deaths	107	12.1	71	9.4	30	27.3	3	*
Fetal Deaths	72	8.1	41	5.4	25	22.7	3	*

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

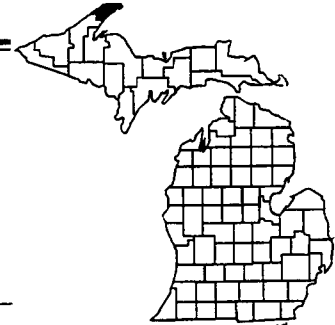
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	3,884	1,921	1,963	3,574	1,750	1,824	278	157	121	31	13	18
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	67	17	7	16	40	25	37	114	156	242	554	2,609
White Male	22	6	2	7	18	9	19	72	89	126	299	1,081
White Female	30	3	3	6	8	7	7	26	41	71	203	1,419
Black Male	5	3	1	2	12	6	8	7	14	29	26	44
Black Female	9	4	1	1	2	2	1	7	8	11	16	59
Other Male	1	-	-	-	-	1	2	1	-	3	4	1
Other Female	-	1	-	-	-	-	-	1	4	2	6	4

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	3,884	758.6	3,574	778.6	278	639.4	80	53.1
Diseases of the Heart	1,312	256.3	1,222	266.2	86	197.8	-	-
Malignant Neoplasms	897	175.2	836	182.1	51	117.3	8	5.3
Cerebrovascular Diseases	239	46.7	224	48.8	12	27.6	-	-
Accidents and Adverse Effects	159	31.1	138	30.1	17	39.1	37	24.6
Chronic Obstructive Pulmonary Diseases and Allied Conditions	135	26.4	129	28.1	6	13.8	-	-
Pneumonia and Influenza	170	33.2	161	35.1	8	18.4	1	*
Diabetes Mellitus	95	18.6	84	18.3	11	25.3	-	-
Chronic Liver Disease and Cirrhosis	29	5.7	27	5.9	1	*	-	-
Homicide	29	5.7	9	2.0	19	43.7	11	7.3
Suicide	52	10.2	47	10.2	4	*	6	4.0
Atherosclerosis	23	4.5	23	5.0	-	-	-	-
AIDS	35	6.8	26	5.7	8	18.4	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Keweenaw County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1992:	1,706	Total Live Births:	16	Total Deaths:	28
Rank Among Counties:	83	Teenage Mothers:	-	Infant Deaths:	-
Per Square Mile:	3.1	Low Weight Births:	-	Neonatal Deaths:	-
		First Births:	8	Postneonatal Deaths:	-
				Perinatal Deaths:	-
				Fetal Deaths:	-
MARRIAGE		DIVORCE			
Marriages:	19	Divorces:	8		
Marriage Rate:	22.3	Divorce Rate:	9.4		

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	16	9.4	16	9.5	-	-	-	-
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	-	-	-	-	-	-	-	-
Low Weight	-	-	-	-	-	-	-	-
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	3	-	3	-	-	-	-	-
Prenatal Care Began in 1st Trimester	13	812.5	13	812.5	-	-	-	-

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

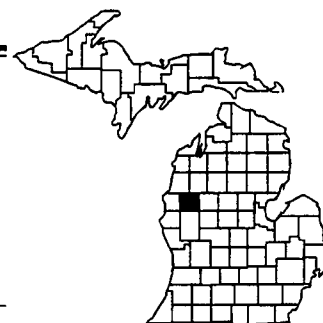
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	28	19	9	28	19	9	-	-	-	-	-	-
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	-	-	-	-	-	-	-	1	1	3	4	19
White Male	-	-	-	-	-	-	-	-	1	2	3	13
White Female	-	-	-	-	-	-	-	1	-	1	1	6
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	28	1,641.3	28	1,653.9	-	-	-	-
Diseases of the Heart	12	703.4	12	708.8	-	-	-	-
Malignant Neoplasms	9	527.5	9	531.6	-	-	-	-
Cerebrovascular Diseases	-	-	-	-	-	-	-	-
Accidents and Adverse Effects	-	-	-	-	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	1	-	1	-	-	-	-	-
Pneumonia and Influenza	1	-	1	-	-	-	-	-
Diabetes Mellitus	2	-	2	-	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	-	-	-	-	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Lake County



POPULATION

As of April 1, 1992: 9,029
 Rank Among Counties: 77
 Per Square Mile: 15.9

NATALITY

Total Live Births: 114
 Teenage Mothers: 22
 Low Weight Births: 7
 First Births: 52

MORTALITY

Total Deaths: 141
 Infant Deaths: 1
 Neonatal Deaths: 1
 Postneonatal Deaths: -
 Perinatal Deaths: 1
 Fetal Deaths: -

MARRIAGE

Marriages: 67
 Marriage Rate: 14.8

DIVORCE

Divorces: 37
 Divorce Rate: 8.2

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	114	12.6	91	11.7	20	17.3	3	*
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	22	193.0	12	131.9	8	400.0	2	*
Low Weight	7	61.4	6	65.9	1	*	-	-
Under 1,500 Grams	1	*	1	*	-	*	-	-
< 38 Weeks Gestation	18	157.9	13	142.9	5	*	-	-
Prenatal Care Began in 1st Trimester	78	684.2	65	714.3	12	600.0	1	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

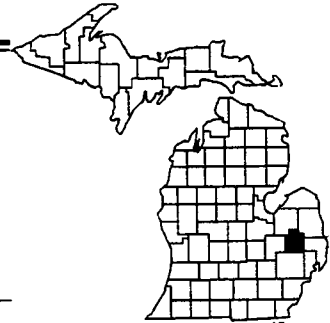
Deaths	All Races			White			Black			Other			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	141	73	68	110	59	51	28	13	15	3	1	2	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	2	-	2	1	-	1	2	9	10	25	88	-
White Male	1	1	-	1	1	-	-	2	4	5	11	33	-
White Female	-	-	-	1	-	-	1	-	4	3	10	32	-
Black Male	-	-	-	-	-	-	-	-	-	-	3	10	-
Black Female	-	1	-	-	-	-	-	-	-	1	1	12	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	1	1	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	141	1,561.6	110	1,416.2	28	2,424.2	5	*
Diseases of the Heart	55	609.1	40	515.0	14	1,212.1	-	-
Malignant Neoplasms	35	387.6	27	347.6	7	606.1	-	-
Cerebrovascular Diseases	11	121.8	8	103.0	3	*	-	-
Accidents and Adverse Effects	5	*	4	*	1	*	4	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	6	66.5	6	77.2	-	-	-	-
Pneumonia and Influenza	1	*	1	*	-	-	-	-
Diabetes Mellitus	3	*	2	*	1	*	-	-
Chronic Liver Disease and Cirrhosis	1	*	-	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	3	*	2	*	1	*	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Lapeer County



POPULATION		NATIVITY		MORTALITY	
As of April 1, 1992:	78,526	Total Live Births:	1,093	Total Deaths:	519
Rank Among Counties:	22	Teenage Mothers:	115	Infant Deaths:	4
Per Square Mile:	119.3	Low Weight Births:	55	Neonatal Deaths:	1
		First Births:	402	Postneonatal Deaths:	3
				Perinatal Deaths:	7
				Fetal Deaths:	6
MARRIAGE		DIVORCE			
Marriages:	660	Divorces:	311		
Marriage Rate:	16.8	Divorce Rate:	7.9		

NATIVITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,093	13.9	1,084	14.0	3	*	3	*
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	115	105.2	114	105.2	1	*	-	-
Low Weight	55	50.3	55	50.7	-	-	-	-
Under 1,500 Grams	7	6.4	7	6.5	-	-	-	-
< 38 Weeks Gestation	168	153.7	168	155.0	-	-	-	-
Prenatal Care Began in 1st Trimester	900	823.4	893	823.8	2	*	2	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	4	*	3	*	-	-	1	*
Neonatal Deaths	1	*	1	*	-	-	-	-
Postneonatal Deaths	3	*	2	*	-	-	1	*
Perinatal Deaths	7	6.4	7	6.4	-	-	-	-
Fetal Deaths	6	5.5	6	5.5	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	519	263	256	515	261	254	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+
Total Deaths	4	-	2	-	5	9	3	13	36	49	77	321
White Male	2	-	2	-	3	5	3	12	21	26	46	141
White Female	1	-	-	-	2	4	-	1	14	23	29	180
Black Male	-	-	-	-	-	-	-	-	-	-	1	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	1	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	1	-	-	1	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	519	660.9	515	666.5	1	*	7	28.9
Diseases of the Heart	171	217.8	171	221.3	-	-	1	*
Malignant Neoplasms	125	159.2	122	157.9	1	*	-	-
Cerebrovascular Diseases	39	49.7	39	50.5	-	-	-	-
Accidents and Adverse Effects	33	42.0	33	42.7	-	-	4	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	22	28.0	22	28.5	-	-	-	-
Pneumonia and Influenza	16	20.4	16	20.7	-	-	-	-
Diabetes Mellitus	11	14.0	11	14.2	-	-	-	-
Chronic Liver Disease and Cirrhosis	4	*	4	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	13	16.6	13	16.8	-	-	1	*
Atherosclerosis	8	10.2	8	10.4	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Leelanau County



POPULATION		NATIVITY		MORTALITY	
As of April 1, 1992:	17,292	Total Live Births:	211	Total Deaths:	159
Rank Among Counties:	65	Teenage Mothers:	15	Infant Deaths:	1
Per Square Mile:	50.7	Low Weight Births:	10	Neonatal Deaths:	1
		First Births:	78	Postneonatal Deaths:	-
				Perinatal Deaths:	1
				Fetal Deaths:	-
MARRIAGE		DIVORCE			
Marriages:	120	Divorces:	87		
Marriage Rate:	13.9	Divorce Rate:	10.1		

NATIVITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	211	12.2	199	11.9	-	-	10	17.2
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	15	71.1	12	60.3	-	-	3	*
Low Weight	10	47.4	10	50.3	-	-	-	-
Under 1,500 Grams	3	*	3	*	-	-	-	-
< 38 Weeks Gestation	31	146.9	28	140.7	-	-	2	*
Prenatal Care Began in 1st Trimester	166	786.7	157	788.9	-	-	8	800.0

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

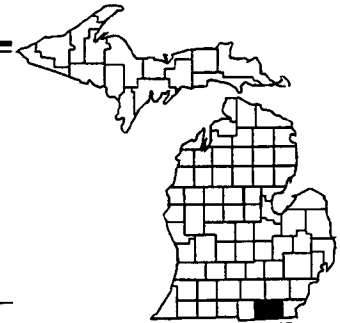
Deaths	All Races			White			Black			Other			
	Total 159	Male 78	Female 81	Total 156	Male 77	Female 79	Total -	Male -	Female -	Total 3	Other Male 1	Female 2	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	-	-	1	1	1	-	7	6	10	24	108	-
White Male	1	-	-	1	-	1	-	4	2	6	12	50	-
White Female	-	-	-	-	-	-	-	3	4	4	12	56	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	1	-	-	-	-	-	-	1	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	159	919.5	156	934.7	-	-	2	*
Diseases of the Heart	46	266.0	46	275.6	-	-	-	-
Malignant Neoplasms	38	219.8	38	227.7	-	-	-	-
Cerebrovascular Diseases	9	52.0	9	53.9	-	-	-	-
Accidents and Adverse Effects	9	52.0	7	41.9	-	-	2	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	8	46.3	8	47.9	-	-	-	-
Pneumonia and Influenza	1	*	1	*	-	-	-	-
Diabetes Mellitus	2	*	2	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	-	-	-	-	-	-	-	-
Atherosclerosis	3	*	3	*	-	-	-	-
AIDS	2	*	2	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Lenawee County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1992:	94,132	Total Live Births:	1,168	Total Deaths:	741
Rank Among Counties:	20	Teenage Mothers:	155	Infant Deaths:	5
Per Square Mile:	125.1	Low Weight Births:	61	Neonatal Deaths:	3
		First Births:	445	Postneonatal Deaths:	2
				Perinatal Deaths:	14
				Fetal Deaths:	11
MARRIAGE		DIVORCE			
Marriages:	648	Divorces:	429		
Marriage Rate:	13.8	Divorce Rate:	9.1		

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,168	12.4	1,143	12.5	11	6.6	6	6.4
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	155	132.7	152	133.0	2	*	1	*
Low Weight	61	52.2	60	52.5	-	-	-	-
Under 1,500 Grams	10	8.6	10	8.7	-	-	-	-
< 38 Weeks Gestation	192	164.4	185	161.9	3	*	3	*
Prenatal Care Began in 1st Trimester	949	812.5	935	818.0	9	818.2	4	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	5	*	5	*	-	-	-	-
Neonatal Deaths	3	*	3	*	-	-	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	14	11.9	12	10.4	1	*	1	*
Fetal Deaths	11	9.3	9	7.8	1	*	1	*

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

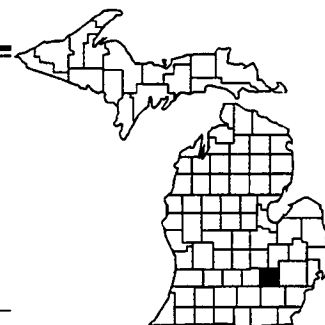
Deaths	All Races			White			Black			Total 5	Other		
	Total 741	Male 324	Female 417	Total 730	Male 320	Female 410	Total 6	Male 4	Female 2		Male -	Female 5	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	5	2	2	3	6	7	1	19	34	51	117	494	-
White Male	3	1	2	2	4	7	-	11	20	29	62	179	-
White Female	2	1	-	1	2	-	1	7	14	20	52	310	-
Black Male	-	-	-	-	-	-	-	-	-	1	-	3	-
Black Female	-	-	-	-	-	-	-	1	-	-	-	1	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	1	3	1	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	741	787.2	730	797.4	6	362.5	13	46.1
Diseases of the Heart	248	263.5	245	267.6	3	*	-	-
Malignant Neoplasms	160	170.0	156	170.4	2	*	1	*
Cerebrovascular Diseases	65	69.1	64	69.9	-	-	-	-
Accidents and Adverse Effects	34	36.1	34	37.1	-	-	8	28.4
Chronic Obstructive Pulmonary Diseases and Allied Conditions	25	26.6	25	27.3	-	-	-	-
Pneumonia and Influenza	30	31.9	30	32.8	-	-	-	-
Diabetes Mellitus	22	23.4	22	24.0	-	-	-	-
Chronic Liver Disease and Cirrhosis	5	*	5	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	8	8.5	8	8.7	-	-	-	-
Atherosclerosis	26	27.6	26	28.4	-	-	-	-
AIDS	6	6.4	6	6.6	-	-	1	*

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Livingston County



POPULATION
As of April 1, 1992: 122,658
Rank Among Counties: 17
Per Square Mile: 213.6

NATALITY
Total Live Births: 1,728
Teenage Mothers: 84
Low Weight Births: 97
First Births: 698

MORTALITY
Total Deaths: 791
Infant Deaths: 6
Neonatal Deaths: 3
Postneonatal Deaths: 3
Perinatal Deaths: 10
Fetal Deaths: 8

MARRIAGE
Marriages: 1,010
Marriage Rate: 16.5

DIVORCE
Divorces: 561
Divorce Rate: 9.1

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,728	14.1	1,668	13.8	4	*	25	18.8
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	84	48.6	82	49.2	-	-	1	*
Low Weight	97	56.1	89	53.4	-	-	5	*
Under 1,500 Grams	16	9.3	15	9.0	-	-	1	*
< 38 Weeks Gestation	312	180.6	302	181.1	-	-	5	*
Prenatal Care Began in 1st Trimester	1,454	841.4	1,416	848.9	4	*	19	760.0

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	6	3.5	5	*	-	-	1	*
Neonatal Deaths	3	*	2	*	-	-	1	*
Postneonatal Deaths	3	*	3	*	-	-	-	-
Perinatal Deaths	10	5.8	8	4.8	-	-	1	*
Fetal Deaths	8	4.6	7	4.2	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

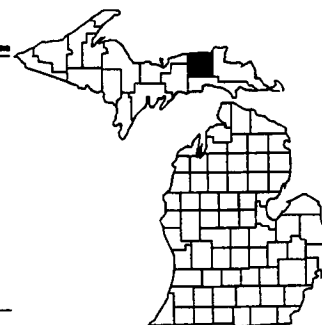
Deaths	All Races			White			Black			Other			
	Total 791	Male 406	Female 385	Total 781	Male 400	Female 381	Total 4	Male 2	Female 2	Total 5	Male 3	Female 2	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	6	1	1	3	2	11	8	23	49	70	135	482	-
White Male	4	1	1	2	-	9	7	16	33	52	76	199	-
White Female	1	-	-	1	2	2	1	6	16	16	57	279	-
Black Male	-	-	-	-	-	-	-	1	-	-	-	1	-
Black Female	-	-	-	-	-	-	-	-	-	1	-	1	-
Other Male	-	-	-	-	-	-	-	-	-	1	1	1	-
Other Female	1	-	-	-	-	-	-	-	-	-	-	1	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	791	644.9	781	647.7	4	*	7	19.2
Diseases of the Heart	285	232.4	285	236.3	-	-	-	-
Malignant Neoplasms	192	156.5	189	156.7	1	*	1	*
Cerebrovascular Diseases	42	34.2	42	34.8	-	-	-	-
Accidents and Adverse Effects	39	31.8	38	31.5	1	*	2	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	44	35.9	43	35.7	1	*	-	-
Pneumonia and Influenza	15	12.2	14	11.6	1	*	-	-
Diabetes Mellitus	23	18.8	23	19.1	-	-	-	-
Chronic Liver Disease and Cirrhosis	6	4.9	6	5.0	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	10	8.2	10	8.3	-	-	-	-
Atherosclerosis	5	*	5	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Luce County



POPULATION

As of April 1, 1992: 5,604
 Rank Among Counties: 82
 Per Square Mile: 6.2

NATALITY

Total Live Births: 68
 Teenage Mothers: 13
 Low Weight Births: 7
 First Births: 21

MORTALITY

Total Deaths: 79
 Infant Deaths: -
 Neonatal Deaths: -
 Postneonatal Deaths: -
 Perinatal Deaths: 2
 Fetal Deaths: 2

MARRIAGE

Marriages: 39
 Marriage Rate: 13.9

DIVORCE

Divorces: 27
 Divorce Rate: 9.6

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	68	12.1	65	12.4	-	-	3	*
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	13	191.2	13	200.0	-	-	-	-
Low Weight	7	102.9	7	107.7	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	11	161.8	11	169.2	-	-	-	-
Prenatal Care Began in 1st Trimester	57	838.2	54	830.8	-	-	3	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

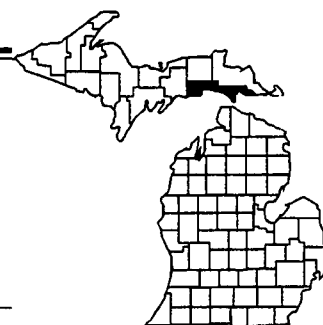
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	79	38	41	79	38	41	-	-	-	-	-	-
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	-	-	-	-	-	-	-	1	2	2	11	63
White Male	-	-	-	-	-	-	-	1	2	2	8	25
White Female	-	-	-	-	-	-	-	-	-	-	3	38
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	79	1,410.0	79	1,509.1	-	-	-	-
Diseases of the Heart	24	428.3	24	458.5	-	-	-	-
Malignant Neoplasms	20	357.0	20	382.0	-	-	-	-
Cerebrovascular Diseases	3	*	3	*	-	-	-	-
Accidents and Adverse Effects	1	*	1	*	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	4	*	4	*	-	-	-	-
Pneumonia and Influenza	5	*	5	*	-	-	-	-
Diabetes Mellitus	3	*	3	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	-	-	-	-	-	-	-	-
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Mackinac County



POPULATION

As of April 1, 1992: 10,752
 Rank Among Counties: 73
 Per Square Mile: 10.5

NATALITY

Total Live Births: 137
 Teenage Mothers: 15
 Low Weight Births: 2
 First Births: 56

MORTALITY

Total Deaths: 132
 Infant Deaths: -
 Neonatal Deaths: -
 Postneonatal Deaths: -
 Perinatal Deaths: -
 Fetal Deaths: -

MARRIAGE

Marriages: 185
 Marriage Rate: 34.4

DIVORCE

Divorces: 51
 Divorce Rate: 9.5

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	137	12.7	108	12.2	-	-	28	14.9
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	15	109.5	6	55.6	-	-	8	285.7
Low Weight	2	*	-	-	-	-	2	*
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	11	80.3	8	74.1	-	-	3	*
Prenatal Care Began in 1st Trimester	107	781.0	89	824.1	-	-	17	607.1

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

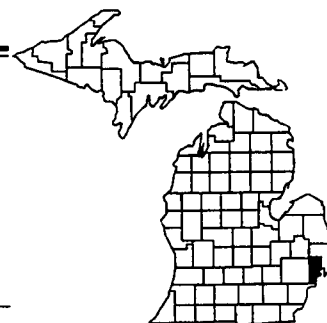
Deaths	All Races			White			Black			Other				
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female		
	132	85	47	116	74	42	-	-	-	16	11	5		
	Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk	
	Total Deaths	-	-	-	-	1	1	-	-	7	3	28	92	-
	White Male	-	-	-	-	-	1	-	-	5	1	16	51	-
	White Female	-	-	-	-	1	-	-	-	1	6	34	-	-
	Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
	Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other Male	-	-	-	-	-	-	-	-	1	1	4	5	-
	Other Female	-	-	-	-	-	-	-	-	1	-	2	2	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	132	1,227.7	116	1,309.1	-	-	1	*
Diseases of the Heart	43	399.9	38	428.8	-	-	-	-
Malignant Neoplasms	45	418.5	42	474.0	-	-	1	*
Cerebrovascular Diseases	11	102.3	10	112.9	-	-	-	-
Accidents and Adverse Effects	4	*	3	*	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	4	*	2	*	-	-	-	-
Pneumonia and Influenza	4	*	3	*	-	-	-	-
Diabetes Mellitus	4	*	3	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	1	*	1	*	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Macomb County



POPULATION		NATIVITY		MORTALITY	
As of April 1, 1992:	728,220	Total Live Births:	9,806	Total Deaths:	6,254
Rank Among Counties:	3	Teenage Mothers:	615	Infant Deaths:	59
Per Square Mile:	1,509.5	Low Weight Births:	618	Neonatal Deaths:	40
		First Births:	3,990	Postneonatal Deaths:	19
				Perinatal Deaths:	89
				Fetal Deaths:	56
MARRIAGE		DIVORCE			
Marriages:	6,045	Divorces:	3,049		
Marriage Rate:	16.6	Divorce Rate:	8.4		

NATIVITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	9,806	13.5	9,257	13.1	238	22.0	229	18.1
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	615	62.7	548	59.2	46	193.3	18	78.6
Low Weight	618	63.0	562	60.7	31	130.3	18	78.6
Under 1,500 Grams	125	12.7	114	12.3	9	37.8	1	*
< 38 Weeks Gestation	1,565	159.6	1,455	157.2	65	273.1	29	126.6
Prenatal Care Began in 1st Trimester	8,828	900.3	8,409	908.4	162	680.7	190	829.7

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	59	6.0	53	5.7	5	*	1	*
Neonatal Deaths	40	4.1	35	3.8	4	*	1	*
Postneonatal Deaths	19	1.9	18	1.9	1	*	-	-
Perinatal Deaths	89	9.0	79	8.5	7	29.0	3	*
Fetal Deaths	56	5.7	51	5.5	3	*	2	*

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

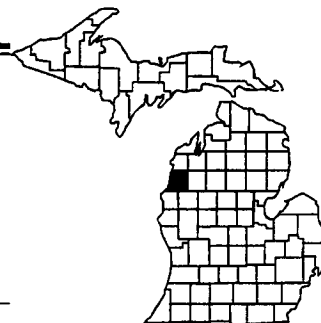
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	6,254	3,070	3,183	6,143	3,016	3,126	72	34	38	35	18	17
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	59	14	4	8	25	32	37	150	248	467	1,026	4,184
White Male	29	9	1	8	13	25	27	106	165	254	590	1,789
White Female	23	4	3	-	11	6	10	39	73	198	413	2,346
Black Male	1	-	-	-	1	1	-	3	2	5	5	16
Black Female	4	-	-	-	-	-	-	2	5	5	6	16
Other Male	-	-	-	-	-	-	-	-	2	1	7	8
Other Female	1	1	-	-	-	-	-	-	-	3	5	7

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	6,254	858.8	6,143	871.6	72	667.0	51	28.7
Diseases of the Heart	2,195	301.4	2,161	306.6	21	194.6	-	-
Malignant Neoplasms	1,644	225.8	1,619	229.7	16	148.2	7	3.9
Cerebrovascular Diseases	448	61.5	439	62.3	8	74.1	-	-
Accidents and Adverse Effects	158	21.7	158	22.4	-	-	22	12.4
Chronic Obstructive Pulmonary Diseases and Allied Conditions	283	38.9	277	39.3	2	*	-	-
Pneumonia and Influenza	203	27.9	200	28.4	2	*	1	*
Diabetes Mellitus	148	20.3	145	20.6	2	*	-	-
Chronic Liver Disease and Cirrhosis	86	11.8	84	11.9	2	*	-	-
Homicide	27	3.7	26	3.7	1	*	5	*
Suicide	65	8.9	64	9.1	-	-	4	*
Atherosclerosis	89	12.2	88	12.5	-	-	-	-
AIDS	36	4.9	34	4.8	2	*	1	*

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Manistee County



POPULATION

As of April 1, 1992: 21,925
 Rank Among Counties: 57
 Per Square Mile: 40.4

NATALITY

Total Live Births: 257
 Teenage Mothers: 37
 Low Weight Births: 16
 First Births: 103

MORTALITY

Total Deaths: 324
 Infant Deaths: 1
 Neonatal Deaths: 1
 Postneonatal Deaths: -
 Perinatal Deaths: 3
 Fetal Deaths: 2

MARRIAGE

Marriages: 185
 Marriage Rate: 16.9

DIVORCE

Divorces: 101
 Divorce Rate: 9.2

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	257	11.7	247	11.4	1	*	9	34.0
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	37	144.0	36	145.7	-	-	1	*
Low Weight	16	62.3	16	64.8	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	35	136.2	35	141.7	-	-	-	-
Prenatal Care Began in 1st Trimester	203	789.9	196	793.5	1	*	6	666.7

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

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

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

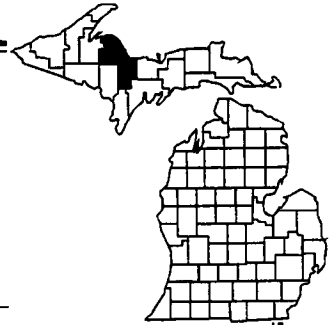
Deaths	All Races			White			Black			Other			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	324	167	157	318	163	155	1	-	1	5	4	1	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	-	-	-	1	4	1	8	8	24	46	231	-
White Male	1	-	-	-	1	1	-	6	3	14	27	110	-
White Female	-	-	-	-	-	3	-	2	5	9	17	119	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Male	-	-	-	-	-	-	1	-	-	1	1	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	1	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	324	1,477.8	318	1,472.5	1	*	1	*
Diseases of the Heart	123	561.0	120	555.7	-	-	-	-
Malignant Neoplasms	82	374.0	81	375.1	-	-	-	-
Cerebrovascular Diseases	29	132.3	28	129.7	1	*	-	-
Accidents and Adverse Effects	9	41.0	9	41.7	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	12	54.7	12	55.6	-	-	-	-
Pneumonia and Influenza	5	*	5	*	-	-	-	-
Diabetes Mellitus	10	45.6	10	46.3	-	-	-	-
Chronic Liver Disease and Cirrhosis	6	27.4	6	27.8	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	8	36.5	7	32.4	-	-	-	-
Atherosclerosis	10	45.6	10	46.3	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Marquette County



POPULATION

As of April 1, 1992: 71,428
 Rank Among Counties: 25
 Per Square Mile: 39.2

NATALITY

Total Live Births: 852
 Teenage Mothers: 68
 Low Weight Births: 51
 First Births: 355

MORTALITY

Total Deaths: 589
 Infant Deaths: 7
 Neonatal Deaths: 6
 Postneonatal Deaths: 1
 Perinatal Deaths: 9
 Fetal Deaths: 3

MARRIAGE

Marriages: 641
 Marriage Rate: 17.9

DIVORCE

Divorces: 353
 Divorce Rate: 9.9

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	852	11.9	798	11.6	10	8.6	42	25.8
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	68	79.8	58	72.7	1	*	9	214.3
Low Weight	51	59.9	45	56.4	2	*	4	*
Under 1,500 Grams	8	9.4	7	8.8	-	-	1	*
< 38 Weeks Gestation	136	159.6	126	157.9	2	*	7	166.7
Prenatal Care Began in 1st Trimester	728	854.5	685	858.4	8	800.0	33	785.7

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	7	8.2	7	8.8	-	-	-	-
Neonatal Deaths	6	7.0	6	7.5	-	-	-	-
Postneonatal Deaths	1	*	1	*	-	-	-	-
Perinatal Deaths	9	10.5	9	11.2	-	-	-	-
Fetal Deaths	3	*	3	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

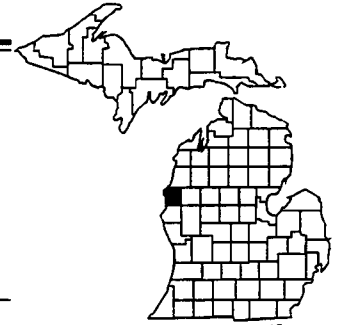
Deaths	All Races			White			Black			Other			
	Total 589	Male 299	Female 290	Total 585	Male 297	Female 288	Total -	Male -	Female -	Total 4	Male 2	Female 2	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	7	-	1	-	6	6	4	10	11	43	73	428	-
White Male	4	-	1	-	4	5	4	5	7	29	45	193	-
White Female	3	-	-	-	2	1	-	5	4	14	27	232	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	2	-
Other Female	-	-	-	-	-	-	-	-	-	-	1	1	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	589	824.6	585	852.4	-	-	7	34.2
Diseases of the Heart	175	245.0	175	255.0	-	-	-	-
Malignant Neoplasms	127	177.8	127	185.0	-	-	2	*
Cerebrovascular Diseases	56	78.4	56	81.6	-	-	-	-
Accidents and Adverse Effects	25	35.0	25	36.4	-	-	4	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	19	26.6	18	26.2	-	-	-	-
Pneumonia and Influenza	24	33.6	24	35.0	-	-	-	-
Diabetes Mellitus	20	28.0	20	29.1	-	-	-	-
Chronic Liver Disease and Cirrhosis	8	11.2	8	11.7	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	8	11.2	8	11.7	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Mason County



POPULATION

As of April 1, 1992: 26,420
 Rank Among Counties: 50
 Per Square Mile: 53.4

NATALITY

Total Live Births: 320
 Teenage Mothers: 36
 Low Weight Births: 15
 First Births: 112

MORTALITY

Total Deaths: 282
 Infant Deaths: -
 Neonatal Deaths: -
 Postneonatal Deaths: -
 Perinatal Deaths: 2
 Fetal Deaths: 2

MARRIAGE

Marriages: 234
 Marriage Rate: 17.7

DIVORCE

Divorces: 126
 Divorce Rate: 9.5

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	320	12.1	300	11.6	1	*	18	58.8
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	36	112.5	34	113.3	-	-	2	*
Low Weight	15	46.9	13	43.3	-	-	2	*
Under 1,500 Grams	1	*	-	-	-	-	1	*
< 38 Weeks Gestation	49	153.1	46	153.3	-	-	3	*
Prenatal Care Began in 1st Trimester	256	800.0	237	790.0	1	*	17	944.4

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

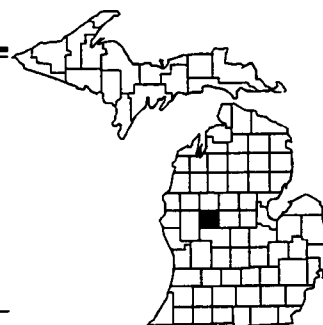
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	282	142	140	280	140	140	1	1	-	1	1	-
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	-	-	1	2	-	-	-	7	9	13	47	203
White Male	-	-	-	2	-	-	-	3	7	8	28	92
White Female	-	-	1	-	-	-	-	3	2	5	19	110
Black Male	-	-	-	-	-	-	-	1	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1
Other Female	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	282	1,067.4	280	1,079.3	1	*	3	*
Diseases of the Heart	93	352.0	93	358.5	-	-	-	-
Malignant Neoplasms	68	257.4	67	258.3	-	-	-	-
Cerebrovascular Diseases	18	68.1	18	69.4	-	-	-	-
Accidents and Adverse Effects	11	41.6	11	42.4	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	18	68.1	18	69.4	-	-	-	-
Pneumonia and Influenza	13	49.2	13	50.1	-	-	-	-
Diabetes Mellitus	10	37.9	10	38.5	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	1	*	1	*	-	-	1	*
Suicide	4	*	3	*	1	*	1	*
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Mecosta County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1992:	38,553	Total Live Births:	401	Total Deaths:	295
Rank Among Counties:	41	Teenage Mothers:	65	Infant Deaths:	3
Per Square Mile:	68.8	Low Weight Births:	22	Neonatal Deaths:	3
		First Births:	156	Postneonatal Deaths:	-
				Perinatal Deaths:	5
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	286	Divorces:	128		
Marriage Rate:	14.8	Divorce Rate:	6.6		

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	401	10.4	378	10.2	14	13.3	9	17.8
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	65	162.1	58	153.4	4	*	3	*
Low Weight	22	54.9	22	58.2	-	-	-	-
Under 1,500 Grams	6	15.0	6	15.9	-	-	-	-
< 38 Weeks Gestation	57	142.1	54	142.9	2	*	1	*
Prenatal Care Began in 1st Trimester	285	710.7	274	724.9	7	500.0	4	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

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

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

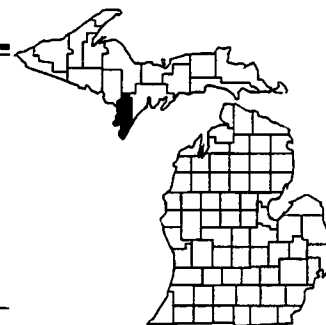
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	295	167	128	289	163	126	-	-	-	5	3	2
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	3	2	2	3	2	4	2	4	12	24	45	192
White Male	1	1	1	3	2	3	2	1	9	15	31	94
White Female	1	1	1	-	-	1	-	3	3	9	12	95
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	1	-	-	-	-	-	-	-	-	-	2	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	2

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	295	765.2	289	781.2	-	-	9	77.5
Diseases of the Heart	94	243.8	92	248.7	-	-	-	-
Malignant Neoplasms	75	194.5	74	200.0	-	-	-	-
Cerebrovascular Diseases	17	44.1	16	43.3	-	-	-	-
Accidents and Adverse Effects	19	49.3	19	51.4	-	-	7	60.3
Chronic Obstructive Pulmonary Diseases and Allied Conditions	11	28.5	11	29.7	-	-	-	-
Pneumonia and Influenza	14	36.3	14	37.8	-	-	-	-
Diabetes Mellitus	8	20.8	8	21.6	-	-	-	-
Chronic Liver Disease and Cirrhosis	4	*	4	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	6	15.6	6	16.2	-	-	2	*
Atherosclerosis	1	*	1	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Menominee County



POPULATION

As of April 1, 1992: 24,593
 Rank Among Counties: 53
 Per Square Mile: 23.5

NATALITY

Total Live Births: 270
 Teenage Mothers: 30
 Low Weight Births: 15
 First Births: 98

MORTALITY

Total Deaths: 280
 Infant Deaths: 3
 Neonatal Deaths: 2
 Postneonatal Deaths: 1
 Perinatal Deaths: 1
 Fetal Deaths: -

MARRIAGE

Marriages: 236
 Marriage Rate: 19.2

DIVORCE

Divorces: 85
 Divorce Rate: 6.9

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	270	11.0	260	10.8	-	-	10	21.1
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	30	111.1	27	103.8	-	-	3	*
Low Weight	15	55.6	15	57.7	-	-	-	-
Under 1,500 Grams	3	*	3	*	-	-	-	-
< 38 Weeks Gestation	45	166.7	44	169.2	-	-	1	*
Prenatal Care Began in 1st Trimester	193	714.8	190	730.8	-	-	3	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

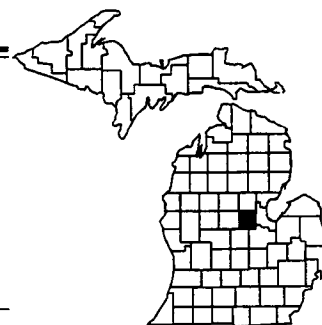
	All Races			White			Black			Other			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
Deaths	280	162	118	272	155	117	1	1	-	6	5	1	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	3	-	-	-	5	4	2	2	10	17	46	191	-
White Male	-	-	-	-	3	-	2	2	7	11	34	96	-
White Female	3	-	-	-	1	2	-	-	2	4	11	94	-
Black Male	-	-	-	-	-	-	-	-	-	1	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	1	2	-	-	1	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	-	-	1	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	280	1,138.5	272	1,128.1	1	*	5	*
Diseases of the Heart	90	366.0	89	369.1	-	-	-	-
Malignant Neoplasms	64	260.2	63	261.3	-	-	-	-
Cerebrovascular Diseases	23	93.5	23	95.4	-	-	-	-
Accidents and Adverse Effects	19	77.3	14	58.1	1	*	4	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	13	52.9	13	53.9	-	-	-	-
Pneumonia and Influenza	13	52.9	13	53.9	-	-	-	-
Diabetes Mellitus	9	36.6	9	37.3	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	3	*	3	*	-	-	-	-
Atherosclerosis	14	56.9	14	58.1	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Midland County



POPULATION

As of April 1, 1992: 77,950
 Rank Among Counties: 23
 Per Square Mile: 148.5

NATALITY

Total Live Births: 1,110
 Teenage Mothers: 75
 Low Weight Births: 70
 First Births: 408

MORTALITY

Total Deaths: 517
 Infant Deaths: 12
 Neonatal Deaths: 9
 Postneonatal Deaths: 3
 Perinatal Deaths: 13
 Fetal Deaths: 6

MARRIAGE

Marriages: 627
 Marriage Rate: 16.1

DIVORCE

Divorces: 363
 Divorce Rate: 9.3

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,110	14.2	1,083	14.3	16	20.7	11	8.8
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	75	67.6	72	66.5	2	*	1	*
Low Weight	70	63.1	69	63.7	1	*	-	-
Under 1,500 Grams	18	16.2	17	15.7	1	*	-	-
< 38 Weeks Gestation	160	144.1	157	145.0	3	*	-	-
Prenatal Care Began in 1st Trimester	981	883.8	958	884.6	12	750.0	11	1,000.0

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	12	10.8	12	11.1	-	-	-	-
Neonatal Deaths	9	8.1	9	8.3	-	-	-	-
Postneonatal Deaths	3	*	3	*	-	-	-	-
Perinatal Deaths	13	11.6	13	11.9	-	-	-	-
Fetal Deaths	6	5.4	6	5.5	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

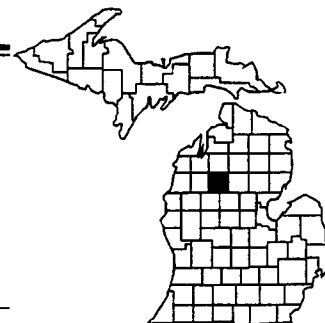
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	517	249	268	509	244	265	1	1	-	7	4	3
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	12	4	1	2	5	1	7	11	22	36	73	343
White Male	6	4	1	1	3	1	6	7	11	13	48	143
White Female	6	-	-	1	-	-	1	4	10	22	23	198
Black Male	-	-	-	-	-	-	-	-	-	-	-	1
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	1	-	-	-	-	1	2	-
Other Female	-	-	-	-	1	-	-	-	1	-	-	1

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	517	663.2	509	670.4	1	*	12	54.2
Diseases of the Heart	166	213.0	166	218.6	-	-	-	-
Malignant Neoplasms	115	147.5	113	148.8	-	-	1	*
Cerebrovascular Diseases	29	37.2	29	38.2	-	-	-	-
Accidents and Adverse Effects	24	30.8	21	27.7	-	-	9	40.6
Chronic Obstructive Pulmonary Diseases and Allied Conditions	23	29.5	23	30.3	-	-	-	-
Pneumonia and Influenza	25	32.1	24	31.6	1	*	-	-
Diabetes Mellitus	16	20.5	16	21.1	-	-	-	-
Chronic Liver Disease and Cirrhosis	10	12.8	10	13.2	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	10	12.8	10	13.2	-	-	1	*
Atherosclerosis	10	12.8	10	13.2	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Missaukee County



POPULATION

As of April 1, 1992: 12,739
 Rank Among Counties: 71
 Per Square Mile: 22.6

NATALITY

Total Live Births: 175
 Teenage Mothers: 25
 Low Weight Births: 13
 First Births: 68

MORTALITY

Total Deaths: 127
 Infant Deaths: -
 Neonatal Deaths: -
 Postneonatal Deaths: -
 Perinatal Deaths: 1
 Fetal Deaths: 1

MARRIAGE

Marriages: 92
 Marriage Rate: 14.4

DIVORCE

Divorces: 58
 Divorce Rate: 9.1

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	175	13.7	175	13.9	-	-	-	-
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	25	142.9	25	142.9	-	-	-	-
Low Weight	13	74.3	13	74.3	-	-	-	-
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	27	154.3	27	154.3	-	-	-	-
Prenatal Care Began in 1st Trimester	138	788.6	138	788.6	-	-	-	-

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

	All Races			White			Black			Other			
Deaths	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	127	70	57	124	68	56	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	-	1	-	-	-	-	1	4	3	5	24	89	-
White Male	-	1	-	-	-	-	-	4	2	4	18	39	-
White Female	-	-	-	-	-	-	1	-	-	1	6	48	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	-	1	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	127	996.9	124	983.3	1	*	1	*
Diseases of the Heart	38	298.3	36	285.5	-	-	-	-
Malignant Neoplasms	27	211.9	27	214.1	-	-	-	-
Cerebrovascular Diseases	16	125.6	15	118.9	1	*	-	-
Accidents and Adverse Effects	4	*	4	*	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	6	47.1	6	47.6	-	-	-	-
Pneumonia and Influenza	6	47.1	6	47.6	-	-	-	-
Diabetes Mellitus	6	47.1	6	47.6	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	1	*	1	*	-	-	1	*
Suicide	-	-	-	-	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Monroe County



POPULATION

As of April 1, 1992: 135,962
 Rank Among Counties: 16
 Per Square Mile: 244.2

NATALITY

Total Live Births: 1,777
 Teenage Mothers: 228
 Low Weight Births: 104
 First Births: 769

MORTALITY

Total Deaths: 1,143
 Infant Deaths: 15
 Neonatal Deaths: 8
 Postneonatal Deaths: 7
 Perinatal Deaths: 14
 Fetal Deaths: 6

MARRIAGE

Marriages: 943
 Marriage Rate: 13.9

DIVORCE

Divorces: 627
 Divorce Rate: 9.2

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,777	13.1	1,715	13.0	39	16.1	13	11.0
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	228	128.3	219	127.7	8	205.1	1	*
Low Weight	104	58.5	98	57.1	4	*	2	*
Under 1,500 Grams	16	9.0	15	8.7	1	*	-	*
< 38 Weeks Gestation	270	151.9	256	149.3	9	230.8	5	*
Prenatal Care Began in 1st Trimester	1,499	843.6	1,455	848.4	26	666.7	11	846.2

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	15	8.4	12	7.0	2	*	1	*
Neonatal Deaths	8	4.5	7	4.1	1	*	-	-
Postneonatal Deaths	7	3.9	5	*	1	*	1	*
Perinatal Deaths	14	7.9	13	7.6	1	*	-	-
Fetal Deaths	6	3.4	6	3.5	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

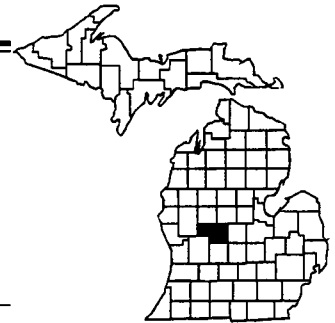
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	1,143	565	578	1,105	543	562	29	15	14	9	7	2
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	15	1	1	3	9	8	9	25	53	81	190	748
White Male	9	-	1	1	6	7	6	18	28	47	106	314
White Female	3	1	-	2	2	1	2	6	19	31	79	416
Black Male	1	-	-	-	1	-	1	-	3	1	3	5
Black Female	1	-	-	-	-	-	-	-	3	-	1	9
Other Male	1	-	-	-	-	-	-	1	-	2	1	2
Other Female	-	-	-	-	-	-	-	-	-	-	-	2

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,143	840.7	1,105	834.8	29	1,200.3	14	34.6
Diseases of the Heart	405	297.9	400	302.2	5	*	-	-
Malignant Neoplasms	294	216.2	282	213.1	9	372.5	2	*
Cerebrovascular Diseases	63	46.3	61	46.1	1	*	-	-
Accidents and Adverse Effects	39	28.7	36	27.2	2	*	4	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	72	53.0	69	52.1	1	*	-	-
Pneumonia and Influenza	24	17.7	24	18.1	-	-	-	-
Diabetes Mellitus	30	22.1	28	21.2	2	*	-	-
Chronic Liver Disease and Cirrhosis	16	11.8	15	11.3	1	*	-	-
Homicide	5	*	4	*	1	*	1	*
Suicide	12	8.8	12	9.1	-	-	1	*
Atherosclerosis	12	8.8	11	8.3	1	*	-	-
AIDS	3	*	3	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Montcalm County



POPULATION

As of April 1, 1992: 55,445
 Rank Among Counties: 33
 Per Square Mile: 77.8

NATALITY

Total Live Births: 800
 Teenage Mothers: 143
 Low Weight Births: 40
 First Births: 320

MORTALITY

Total Deaths: 506
 Infant Deaths: 3
 Neonatal Deaths: -
 Postneonatal Deaths: 3
 Perinatal Deaths: 1
 Fetal Deaths: 1

MARRIAGE

Marriages: 471
 Marriage Rate: 17.0

DIVORCE

Divorces: 303
 Divorce Rate: 10.9

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	800	14.4	786	14.7	5	*	9	14.2
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	143	178.8	139	176.8	2	*	2	*
Low Weight	40	50.0	38	48.3	-	-	2	*
Under 1,500 Grams	8	10.0	7	8.9	-	-	1	*
< 38 Weeks Gestation	130	162.5	128	162.8	1	*	1	*
Prenatal Care Began in 1st Trimester	617	771.3	606	771.0	2	*	9	1000.0

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	3	*	3	*	-	-	-	-
Neonatal Deaths	-	-	-	-	-	-	-	-
Postneonatal Deaths	3	*	3	*	-	-	-	-
Perinatal Deaths	1	*	1	*	-	-	-	-
Fetal Deaths	1	*	1	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

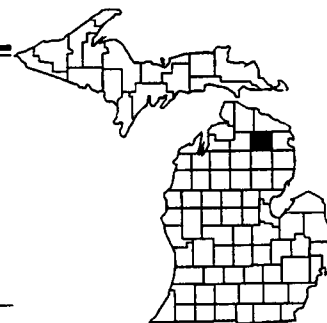
Deaths	All Races			White			Black			Other			
	Total 506	Male 290	Female 216	Total 501	Male 288	Female 213	Total 4	Male 1	Female 3	Total 1	Other Male 1	Female -	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	3	2	1	1	3	10	6	15	17	30	80	338	-
White Male	3	1	1	1	2	10	4	12	8	19	56	171	-
White Female	-	-	-	-	1	-	2	2	9	11	23	165	-
Black Male	-	-	-	-	-	-	-	-	-	-	1	-	-
Black Female	-	-	-	-	-	-	-	1	-	-	-	2	-
Other Male	-	1	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	506	912.6	501	933.9	4	*	7	42.4
Diseases of the Heart	157	283.2	157	292.7	-	-	-	-
Malignant Neoplasms	122	220.0	120	223.7	2	*	-	-
Cerebrovascular Diseases	30	54.1	30	55.9	-	-	-	-
Accidents and Adverse Effects	34	61.3	33	61.5	-	-	6	36.4
Chronic Obstructive Pulmonary Diseases and Allied Conditions	24	43.3	24	44.7	-	-	-	-
Pneumonia and Influenza	21	37.9	21	39.1	-	-	-	-
Diabetes Mellitus	17	30.7	17	31.7	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	10	18.0	9	16.8	1	*	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Montmorency County



POPULATION

As of April 1, 1992: 9,355
 Rank Among Counties: 75
 Per Square Mile: 17.0

NATALITY

Total Live Births: 91
 Teenage Mothers: 18
 Low Weight Births: 4
 First Births: 36

MORTALITY

Total Deaths: 130
 Infant Deaths: 1
 Neonatal Deaths: -
 Postneonatal Deaths: 1
 Perinatal Deaths: 1
 Fetal Deaths: 1

MARRIAGE

Marriages: 69
 Marriage Rate: 14.8

DIVORCE

Divorces: 36
 Divorce Rate: 7.7

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	91	9.7	90	9.7	-	-	-	-
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	18	197.8	17	188.9	-	-	-	-
Low Weight	4	*	3	*	-	-	-	-
Under 1,500 Grams	2	*	1	*	-	-	-	-
< 38 Weeks Gestation	16	175.8	15	166.7	-	-	-	-
Prenatal Care Began in 1st Trimester	79	868.1	79	877.8	-	-	-	-

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

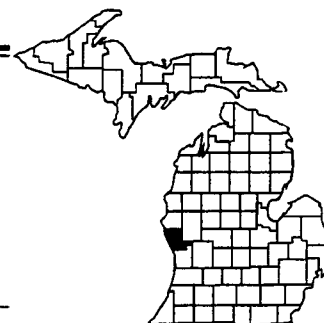
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	130	77	53	130	77	53	-	-	-	-	-	-
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	1	1	-	-	1	2	-	2	3	12	27	81
White Male	-	1	-	-	1	1	-	2	2	7	22	41
White Female	1	-	-	-	-	1	-	-	1	5	5	40
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	130	1,389.8	130	1,400.3	-	-	2	*
Diseases of the Heart	44	470.4	44	473.9	-	-	-	-
Malignant Neoplasms	26	278.0	26	280.1	-	-	-	-
Cerebrovascular Diseases	7	74.8	7	75.4	-	-	-	-
Accidents and Adverse Effects	5	*	5	*	-	-	2	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	11	117.6	11	118.5	-	-	-	-
Pneumonia and Influenza	7	74.8	7	75.4	-	-	-	-
Diabetes Mellitus	1	*	1	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	5	*	5	*	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Muskegon County



POPULATION		NATIVITY		MORTALITY	
As of April 1, 1992:	161,980	Total Live Births:	2,355	Total Deaths:	1,546
Rank Among Counties:	11	Teenage Mothers:	421	Infant Deaths:	27
Per Square Mile:	319.5	Low Weight Births:	163	Neonatal Deaths:	14
		First Births:	924	Postneonatal Deaths:	13
				Perinatal Deaths:	29
				Fetal Deaths:	18
MARRIAGE		DIVORCE			
Marriages:	1,329	Divorces:	835		
Marriage Rate:	16.4	Divorce Rate:	10.3		

NATIVITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	2,355	14.5	1,864	13.6	447	19.7	38	18.4
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	421	178.8	261	140.0	155	346.8	2	*
Low Weight	163	69.2	112	60.1	46	102.9	5	*
Under 1,500 Grams	42	17.8	25	13.4	16	35.8	1	*
< 38 Weeks Gestation	408	173.2	286	153.4	109	243.8	11	289.5
Prenatal Care Began in 1st Trimester	1,666	707.4	1,424	763.9	209	467.6	28	736.8

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	27	11.5	16	8.6	10	22.4	1	*
Neonatal Deaths	14	5.9	7	3.8	6	13.4	1	*
Postneonatal Deaths	13	5.5	9	4.8	4	*	-	-
Perinatal Deaths	29	12.2	13	6.9	13	28.6	1	*
Fetal Deaths	18	7.6	9	4.8	7	15.4	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

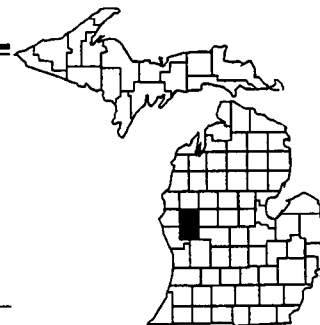
Deaths	All Races			White			Black			Other			
	Total 1,546	Male 769	Female 777	Total 1,328	Male 645	Female 683	Total 206	Male 120	Female 86	Total 12	Male 4	Female 8	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	27	9	1	1	6	10	9	45	76	112	248	1,002	-
White Male	7	5	-	1	4	5	1	18	38	54	112	400	-
White Female	9	2	-	-	1	1	3	15	23	36	89	504	-
Black Male	4	-	-	-	1	4	3	8	9	10	29	52	-
Black Female	6	2	1	-	-	-	1	4	4	11	14	43	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	3	-
Other Female	1	-	-	-	-	-	1	-	2	1	3	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,546	954.4	1,328	967.6	206	908.7	17	36.0
Diseases of the Heart	521	321.6	466	339.5	52	229.4	-	-
Malignant Neoplasms	338	208.7	290	211.3	46	202.9	-	-
Cerebrovascular Diseases	111	68.5	97	70.7	14	61.8	-	-
Accidents and Adverse Effects	53	32.7	46	33.5	7	30.9	13	27.6
Chronic Obstructive Pulmonary Diseases and Allied Conditions	76	46.9	67	48.8	9	39.7	-	-
Pneumonia and Influenza	49	30.3	43	31.3	5	*	-	-
Diabetes Mellitus	54	33.3	43	31.3	10	44.1	-	-
Chronic Liver Disease and Cirrhosis	19	11.7	14	10.2	4	*	-	-
Homicide	15	9.3	4	*	10	44.1	-	-
Suicide	21	13.0	17	12.4	4	*	-	-
Atherosclerosis	49	30.3	43	31.3	5	*	-	-
AIDS	7	4.3	5	*	2	*	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Newaygo County



POPULATION

As of April 1, 1992: 40,756
 Rank Among Counties: 39
 Per Square Mile: 48.1

NATALITY

Total Live Births: 602
 Teenage Mothers: 81
 Low Weight Births: 38
 First Births: 205

MORTALITY

Total Deaths: 417
 Infant Deaths: 7
 Neonatal Deaths: 4
 Postneonatal Deaths: 3
 Perinatal Deaths: 8
 Fetal Deaths: 4

MARRIAGE

Marriages: 353
 Marriage Rate: 17.3

DIVORCE

Divorces: 226
 Divorce Rate: 11.1

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	602	14.8	596	15.0	2	*	3	*
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	81	134.6	80	134.2	-	-	-	-
Low Weight	38	63.1	36	60.4	-	-	2	*
Under 1,500 Grams	8	13.3	8	13.4	-	-	-	-
< 38 Weeks Gestation	97	161.1	94	157.7	1	*	2	*
Prenatal Care Began in 1st Trimester	446	740.9	444	745.0	2	*	-	-

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	7	11.6	7	11.7	-	-	-	-
Neonatal Deaths	4	*	4	*	-	-	-	-
Postneonatal Deaths	3	*	3	*	-	-	-	-
Perinatal Deaths	8	13.2	8	13.3	-	-	-	-
Fetal Deaths	4	*	4	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

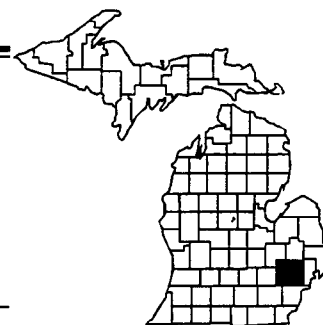
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	417	219	198	400	211	189	13	6	7	4	2	2
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	7	1	-	1	3	4	3	10	15	28	71	274
White Male	4	-	-	1	3	1	1	7	11	13	39	131
White Female	3	-	-	-	-	3	2	3	3	14	28	133
Black Male	-	1	-	-	-	-	-	-	1	-	1	3
Black Female	-	-	-	-	-	-	-	-	-	-	2	5
Other Male	-	-	-	-	-	-	-	-	-	-	1	1
Other Female	-	-	-	-	-	-	-	-	-	1	-	1

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	417	1,023.2	400	1,004.2	13	2,653.1	5	*
Diseases of the Heart	163	399.9	160	401.7	3	*	-	-
Malignant Neoplasms	107	262.5	104	261.1	2	*	-	-
Cerebrovascular Diseases	23	56.4	20	50.2	1	*	-	-
Accidents and Adverse Effects	24	58.9	24	60.3	-	-	4	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	12	29.4	12	30.1	-	-	-	-
Pneumonia and Influenza	17	41.7	15	37.7	2	*	-	-
Diabetes Mellitus	10	24.5	9	22.6	1	*	-	-
Chronic Liver Disease and Cirrhosis	1	*	1	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	4	*	3	*	-	-	-	-
Atherosclerosis	5	*	5	*	-	-	-	-
AIDS	2	*	2	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Oakland County



POPULATION

As of April 1, 1992: 1,118,611
 Rank Among Counties: 2
 Per Square Mile: 1,278.6

NATALITY

Total Live Births: 16,277
 Teenage Mothers: 1,035
 Low Weight Births: 1,116
 First Births: 6,752

MORTALITY

Total Deaths: 8,362
 Infant Deaths: 89
 Neonatal Deaths: 64
 Postneonatal Deaths: 25
 Perinatal Deaths: 138
 Fetal Deaths: 81

MARRIAGE

Marriages: 9,089
 Marriage Rate: 16.3

DIVORCE

Divorces: 4,913
 Divorce Rate: 8.8

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	16,277	14.6	13,991	14.0	1,576	18.4	482	14.8
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	1,035	63.6	716	51.2	298	189.1	17	35.3
Low Weight	1,116	68.6	845	60.4	222	140.9	33	68.5
Under 1,500 Grams	223	13.7	155	11.1	59	37.4	5	*
< 38 Weeks Gestation	2,756	169.3	2,230	159.4	388	246.2	94	195.0
Prenatal Care Began in 1st Trimester	14,384	883.7	12,668	905.4	1,103	699.9	418	867.2

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	89	5.5	62	4.4	26	16.5	1	*
Neonatal Deaths	64	3.9	46	3.3	17	10.8	1	*
Postneonatal Deaths	25	1.5	16	1.1	9	5.7	-	-
Perinatal Deaths	138	8.4	102	7.3	27	17.0	7	14.3
Fetal Deaths	81	5.0	61	4.3	12	7.6	6	12.3

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

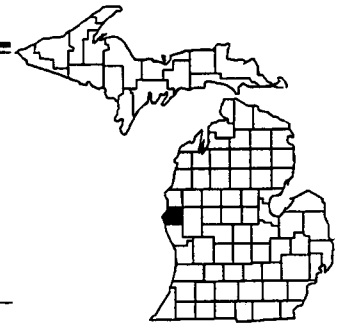
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	8,362	3,985	4,375	7,679	3,632	4,045	598	317	281	81	32	49
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	89	26	8	19	45	59	79	240	373	623	1,295	5,506
White Male	31	12	4	12	25	25	46	138	183	317	660	2,179
White Female	30	10	-	4	13	6	19	56	125	222	516	3,044
Black Male	13	3	1	-	4	19	10	30	37	44	50	106
Black Female	13	1	2	1	1	7	4	14	18	30	49	141
Other Male	1	-	-	-	1	-	-	1	5	4	7	13
Other Female	-	-	1	2	1	2	-	1	5	3	13	21

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	8,362	747.5	7,679	767.5	598	700.1	98	34.5
Diseases of the Heart	2,928	261.8	2,766	276.5	139	162.7	4	*
Malignant Neoplasms	2,053	183.5	1,888	188.7	139	162.7	15	5.3
Cerebrovascular Diseases	642	57.4	587	58.7	49	57.4	1	*
Accidents and Adverse Effects	229	20.5	194	19.4	27	31.6	35	12.3
Chronic Obstructive Pulmonary Diseases and Allied Conditions	344	30.8	327	32.7	15	17.6	-	-
Pneumonia and Influenza	249	22.3	232	23.2	16	18.7	1	*
Diabetes Mellitus	216	19.3	194	19.4	19	22.2	-	-
Chronic Liver Disease and Cirrhosis	98	8.8	86	8.6	12	14.0	1	*
Homicide	64	5.7	28	2.8	36	42.1	5	*
Suicide	120	10.7	112	11.2	8	9.4	11	3.9
Atherosclerosis	59	5.3	56	5.6	3	*	-	-
AIDS	75	6.7	53	5.3	22	25.8	1	*

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Oceana County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1992:	22,954	Total Live Births:	338	Total Deaths:	208
Rank Among Counties:	55	Teenage Mothers:	61	Infant Deaths:	2
Per Square Mile:	42.4	Low Weight Births:	18	Neonatal Deaths:	2
		First Births:	125	Postneonatal Deaths:	-
				Perinatal Deaths:	2
				Fetal Deaths:	-
MARRIAGE		DIVORCE			
Marriages:	215	Divorces:	115		
Marriage Rate:	18.7	Divorce Rate:	10.0		

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	338	14.7	325	14.4	-	-	13	36.1
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	61	180.5	57	175.4	-	-	4	*
Low Weight	18	53.3	18	55.4	-	-	-	-
Under 1,500 Grams	2	*	2	*	-	-	-	-
< 38 Weeks Gestation	56	165.7	54	166.2	-	-	2	*
Prenatal Care Began in 1st Trimester	252	745.6	242	744.6	-	-	10	769.2

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

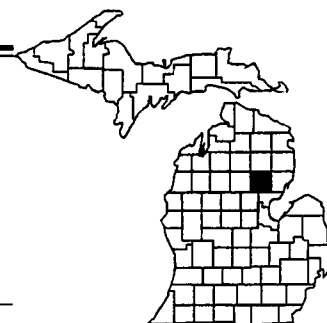
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	208	121	87	207	121	86	-	-	-	1	-	1
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	2	1	-	-	2	1	2	5	11	17	36	131
White Male	-	1	-	-	2	1	2	3	7	13	23	69
White Female	2	-	-	-	-	-	-	2	4	4	12	62
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	1	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	208	906.2	207	919.1	-	-	3	*
Diseases of the Heart	81	352.9	81	359.7	-	-	-	-
Malignant Neoplasms	45	196.0	45	199.8	-	-	-	-
Cerebrovascular Diseases	10	43.6	9	40.0	-	-	-	-
Accidents and Adverse Effects	16	69.7	16	71.0	-	-	2	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	9	39.2	9	40.0	-	-	-	-
Pneumonia and Influenza	8	34.9	8	35.5	-	-	-	-
Diabetes Mellitus	5	*	5	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	1	*	1	*	-	-	1	*
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Ogemaw County



POPULATION

As of April 1, 1992: 19,640
 Rank Among Counties: 61
 Per Square Mile: 34.5

NATALITY

Total Live Births: 250
 Teenage Mothers: 43
 Low Weight Births: 14
 First Births: 100

MORTALITY

Total Deaths: 244
 Infant Deaths: 2
 Neonatal Deaths: 2
 Postneonatal Deaths: -
 Perinatal Deaths: 1
 Fetal Deaths: -

MARRIAGE

Marriages: 141
 Marriage Rate: 14.4

DIVORCE

Divorces: 111
 Divorce Rate: 11.3

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	250	12.7	247	12.7	-	-	3	-
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	43	172.0	41	166.0	-	-	2	-
Low Weight	14	56.0	14	56.7	-	-	-	-
Under 1,500 Grams	2	-	2	-	-	-	-	-
< 38 Weeks Gestation	47	188.0	46	186.2	-	-	1	-
Prenatal Care Began in 1st Trimester	222	888.0	219	886.6	-	-	3	-

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	2	-	2	-	-	-	-	-
Neonatal Deaths	2	-	2	-	-	-	-	-
Postneonatal Deaths	-	-	-	-	-	-	-	-
Perinatal Deaths	1	-	1	-	-	-	-	-
Fetal Deaths	-	-	-	-	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

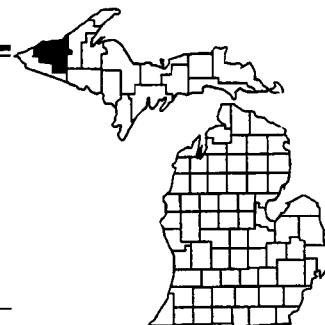
Deaths	All Races			White			Black			Other			
	Total 244	Male 134	Female 110	Total 242	Male 132	Female 110	Total -	Male -	Female -	Total 2	Male 2	Female -	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	2	-	-	-	2	-	2	3	12	16	43	164	-
White Male	2	-	-	-	1	-	2	1	7	9	27	83	-
White Female	-	-	-	-	1	-	-	2	5	7	14	81	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	2	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	244	1,242.4	242	1,245.5	-	-	2	-
Diseases of the Heart	98	499.0	97	499.2	-	-	-	-
Malignant Neoplasms	51	259.7	50	257.3	-	-	-	-
Cerebrovascular Diseases	20	101.8	20	102.9	-	-	-	-
Accidents and Adverse Effects	11	56.0	11	56.6	-	-	2	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	6	30.5	6	30.9	-	-	-	-
Pneumonia and Influenza	7	35.6	7	36.0	-	-	-	-
Diabetes Mellitus	5	-	5	-	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	-	3	-	-	-	-	-
Homicide	1	-	1	-	-	-	-	-
Suicide	6	30.5	6	30.9	-	-	-	-
Atherosclerosis	14	71.3	14	72.1	-	-	-	-
AIDS	1	-	1	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Ontonagon County



POPULATION

As of April 1, 1992: 8,761
 Rank Among Counties: 78
 Per Square Mile: 6.7

NATALITY

Total Live Births: 75
 Teenage Mothers: 4
 Low Weight Births: 1
 First Births: 29

MORTALITY

Total Deaths: 123
 Infant Deaths: -
 Neonatal Deaths: -
 Postneonatal Deaths: -
 Perinatal Deaths: -
 Fetal Deaths: -

MARRIAGE

Marriages: 63
 Marriage Rate: 14.4

DIVORCE

Divorces: 32
 Divorce Rate: 7.3

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	75	8.6	72	8.4	-	-	3	-
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	4	-	4	-	-	-	-	-
Low Weight	1	-	1	-	-	-	-	-
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	10	133.3	10	138.9	-	-	-	-
Prenatal Care Began in 1st Trimester	65	866.7	62	861.1	-	-	3	-

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

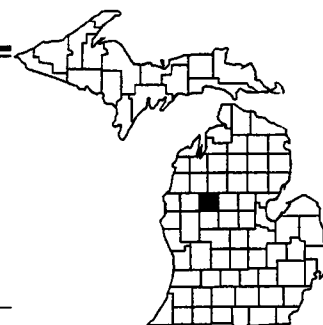
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	123	68	55	123	68	55	-	-	-	-	-	-
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	-	-	-	-	1	-	-	1	1	7	20	93
White Male	-	-	-	-	1	-	-	1	1	6	12	47
White Female	-	-	-	-	-	-	-	-	-	1	8	46
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	123	1,403.8	123	1,428.2	-	-	1	-
Diseases of the Heart	41	467.9	41	476.1	-	-	-	-
Malignant Neoplasms	23	262.5	23	267.1	-	-	-	-
Cerebrovascular Diseases	9	102.7	9	104.5	-	-	-	-
Accidents and Adverse Effects	6	68.5	6	69.7	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	7	79.9	7	81.3	-	-	-	-
Pneumonia and Influenza	4	-	4	-	-	-	-	-
Diabetes Mellitus	8	91.3	8	92.9	-	-	-	-
Chronic Liver Disease and Cirrhosis	-	-	-	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	2	-	2	-	-	-	1	-
Atherosclerosis	7	79.9	7	81.3	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Osceola County



POPULATION

As of April 1, 1992: 20,638
 Rank Among Counties: 60
 Per Square Mile: 36.3

NATALITY

Total Live Births: 279
 Teenage Mothers: 35
 Low Weight Births: 15
 First Births: 98

MORTALITY

Total Deaths: 207
 Infant Deaths: -
 Neonatal Deaths: -
 Postneonatal Deaths: -
 Perinatal Deaths: 2
 Fetal Deaths: 2

MARRIAGE

Marriages: 189
 Marriage Rate: 18.3

DIVORCE

Divorces: 120
 Divorce Rate: 11.6

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	279	13.5	279	13.7	-	-	-	-
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	35	125.4	35	125.4	-	-	-	-
Low Weight	15	53.8	15	53.8	-	-	-	-
Under 1,500 Grams	2	-	2	-	-	-	-	-
< 38 Weeks Gestation	39	139.8	39	139.8	-	-	-	-
Prenatal Care Began in 1st Trimester	198	709.7	198	709.7	-	-	-	-

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

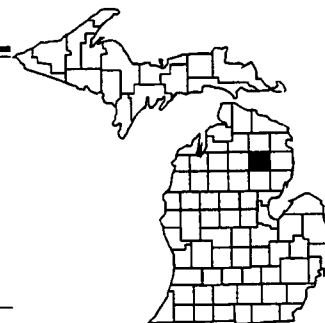
Deaths	All Races			White			Black			Other			
	Total 207	Male 110	Female 97	Total 207	Male 110	Female 97	Total -	Male -	Female -	Total -	Male -	Female -	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	-	-	1	-	1	-	-	3	9	23	42	128	-
White Male	-	-	1	-	1	-	-	2	6	12	25	63	-
White Female	-	-	-	-	-	-	-	1	3	11	17	65	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	207	1,003.0	207	1,015.5	-	-	2	*
Diseases of the Heart	74	358.6	74	363.0	-	-	-	-
Malignant Neoplasms	51	247.1	51	250.2	-	-	-	-
Cerebrovascular Diseases	15	72.7	15	73.6	-	-	-	-
Accidents and Adverse Effects	7	33.9	7	34.3	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	16	77.5	16	78.5	-	-	-	-
Pneumonia and Influenza	3	*	3	*	-	-	-	-
Diabetes Mellitus	2	*	2	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	4	*	4	*	-	-	1	*
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Oscoda County



POPULATION

As of April 1, 1992: 8,222
 Rank Among Counties: 80
 Per Square Mile: 14.5

NATALITY

Total Live Births: 109
 Teenage Mothers: 15
 Low Weight Births: 7
 First Births: 39

MORTALITY

Total Deaths: 105
 Infant Deaths: 1
 Neonatal Deaths: -
 Postneonatal Deaths: 1
 Perinatal Deaths: 2
 Fetal Deaths: 2

MARRIAGE

Marriages: 78
 Marriage Rate: 19.0

DIVORCE

Divorces: 31
 Divorce Rate: 7.5

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	109	13.3	105	12.9	1	-	3	-
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	15	137.6	12	114.3	1	-	2	-
Low Weight	7	64.2	7	66.7	-	-	-	-
Under 1,500 Grams	1	-	1	-	-	-	-	-
< 38 Weeks Gestation	17	156.0	15	142.9	-	-	2	-
Prenatal Care Began in 1st Trimester	75	688.1	73	695.2	-	-	2	-

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

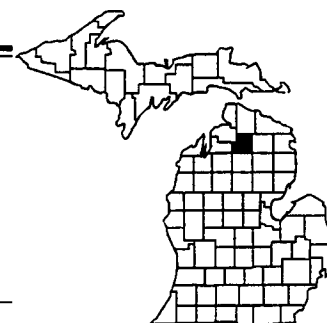
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	105	58	47	104	57	47	-	-	-	-	-	-
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	1	1	1	-	-	1	1	1	1	11	20	67
White Male	-	1	1	-	-	1	1	1	1	5	9	37
White Female	1	-	-	-	-	-	-	-	-	6	11	29
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	105	1,276.9	104	1,273.7	-	-	2	-
Diseases of the Heart	33	401.3	33	404.2	-	-	-	-
Malignant Neoplasms	21	255.4	21	257.2	-	-	-	-
Cerebrovascular Diseases	10	121.6	10	122.5	-	-	-	-
Accidents and Adverse Effects	3	-	3	-	-	-	1	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	6	73.0	6	73.5	-	-	-	-
Pneumonia and Influenza	4	-	4	-	-	-	-	-
Diabetes Mellitus	5	-	5	-	-	-	-	-
Chronic Liver Disease and Cirrhosis	1	-	1	-	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	2	-	2	-	-	-	-	-
Atherosclerosis	1	-	1	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Otsego County



POPULATION

As of April 1, 1992: 19,096
 Rank Among Counties: 62
 Per Square Mile: 37.0

NATALITY

Total Live Births: 264
 Teenage Mothers: 28
 Low Weight Births: 23
 First Births: 95

MORTALITY

Total Deaths: 155
 Infant Deaths: 2
 Neonatal Deaths: 2
 Postneonatal Deaths: -
 Perinatal Deaths: 2
 Fetal Deaths: 1

MARRIAGE

Marriages: 167
 Marriage Rate: 17.5

DIVORCE

Divorces: 85
 Divorce Rate: 8.9

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	264	13.8	261	13.8	-	-	3	*
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	28	106.1	28	107.3	-	-	-	-
Low Weight	23	87.1	22	84.3	-	-	1	*
Under 1,500 Grams	6	22.7	6	23.0	-	-	-	-
< 38 Weeks Gestation	53	200.8	51	195.4	-	-	2	*
Prenatal Care Began in 1st Trimester	228	863.6	227	869.7	-	-	1	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	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 1994 in specified group.

MORTALITY

Deaths	All Races			White			Black			Other			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	155	82	73	153	80	73	1	1	-	1	1	-	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	2	-	-	-	1	1	1	3	8	13	32	94	-
White Male	1	-	-	-	-	1	1	-	5	9	22	41	-
White Female	1	-	-	-	1	-	-	2	3	4	9	53	-
Black Male	-	-	-	-	-	-	-	-	-	-	1	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	1	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	155	811.7	153	811.5	1	*	1	*
Diseases of the Heart	56	293.3	56	297.0	-	-	-	-
Malignant Neoplasms	38	199.0	38	201.5	-	-	-	-
Cerebrovascular Diseases	9	47.1	9	47.7	-	-	-	-
Accidents and Adverse Effects	5	*	4	*	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	5	*	5	*	-	-	-	-
Pneumonia and Influenza	-	-	-	-	-	-	-	-
Diabetes Mellitus	1	*	1	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	3	*	3	*	-	-	-	-
Atherosclerosis	3	*	3	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Ottawa County



POPULATION

As of April 1, 1992: 197,297
 Rank Among Counties: 10
 Per Square Mile: 347.9

NATALITY

Total Live Births: 3,130
 Teenage Mothers: 264
 Low Weight Births: 178
 First Births: 1,154

MORTALITY

Total Deaths: 1,257
 Infant Deaths: 23
 Neonatal Deaths: 17
 Postneonatal Deaths: 6
 Perinatal Deaths: 23
 Fetal Deaths: 7

MARRIAGE

Marriages: 1,503
 Marriage Rate: 15.2

DIVORCE

Divorces: 77
 Divorce Rate: 0.8

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	3,130	15.9	3,035	15.8	19	16.5	75	20.6
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	264	84.3	247	81.4	5	*	12	160.0
Low Weight	178	56.9	167	55.0	1	*	10	133.3
Under 1,500 Grams	41	13.1	37	12.2	-	*	4	*
< 38 Weeks Gestation	473	151.1	448	147.6	5	*	20	266.7
Prenatal Care Began in 1st Trimester	2,633	841.2	2,565	845.1	12	631.6	56	746.7

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	23	7.3	21	6.9	-	-	2	*
Neonatal Deaths	17	5.4	15	4.9	-	-	2	*
Postneonatal Deaths	6	1.9	6	2.0	-	-	-	-
Perinatal Deaths	23	7.3	21	6.9	-	-	2	*
Fetal Deaths	7	2.2	7	2.3	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

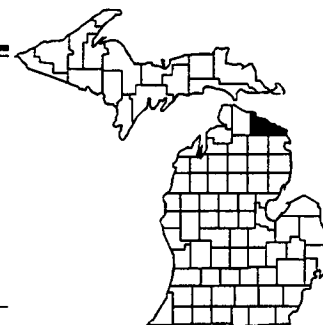
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	1,257	610	647	1,241	602	639	4	1	3	11	6	5
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	23	3	6	3	7	17	13	30	49	83	159	864
White Male	11	2	4	2	5	13	8	19	30	46	96	366
White Female	10	-	2	1	2	3	4	10	17	35	61	494
Black Male	-	-	-	-	-	-	-	1	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	3
Other Male	-	1	-	-	-	1	-	-	-	2	1	1
Other Female	2	-	-	-	-	-	1	-	1	-	1	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,257	637.1	1,241	644.6	4	*	19	30.7
Diseases of the Heart	366	185.5	362	188.0	2	*	1	*
Malignant Neoplasms	294	149.0	291	151.2	1	*	2	*
Cerebrovascular Diseases	94	47.6	94	48.8	-	-	-	-
Accidents and Adverse Effects	61	30.9	59	30.6	-	-	10	16.1
Chronic Obstructive Pulmonary Diseases and Allied Conditions	49	24.8	49	25.5	-	-	-	-
Pneumonia and Influenza	62	31.4	62	32.2	-	-	-	-
Diabetes Mellitus	30	15.2	30	15.6	-	-	-	-
Chronic Liver Disease and Cirrhosis	8	4.1	8	4.2	-	-	-	-
Homicide	6	3.0	5	*	-	-	-	-
Suicide	14	7.1	14	7.3	-	-	1	*
Atherosclerosis	18	9.1	18	9.4	-	-	-	-
AIDS	3	*	3	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Presque Isle County



POPULATION

As of April 1, 1992: 13,865
 Rank Among Counties: 68
 Per Square Mile: 21.1

NATALITY

Total Live Births: 124
 Teenage Mothers: 14
 Low Weight Births: 7
 First Births: 53

MORTALITY

Total Deaths: 181
 Infant Deaths: -
 Neonatal Deaths: -
 Postneonatal Deaths: -
 Perinatal Deaths: 1
 Fetal Deaths: 1

MARRIAGE

Marriages: 80
 Marriage Rate: 11.5

DIVORCE

Divorces: 41
 Divorce Rate: 5.9

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	124	8.9	122	8.9	1	*	1	*
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	14	112.9	14	114.8	-	-	-	-
Low Weight	7	56.5	7	57.4	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	15	121.0	14	114.8	-	-	1	*
Prenatal Care Began in 1st Trimester	99	798.4	98	803.3	-	-	1	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

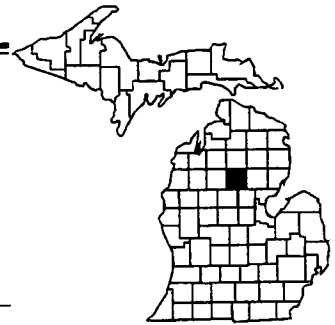
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	181	100	81	179	99	80	-	-	-	1	-	1
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	-	-	-	-	-	1	4	5	9	13	34	115
White Male	-	-	-	-	-	1	3	3	5	7	25	55
White Female	-	-	-	-	-	-	1	2	4	6	8	59
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	1

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	181	1,305.5	179	1,300.3	-	-	-	-
Diseases of the Heart	70	504.9	70	508.5	-	-	-	-
Malignant Neoplasms	45	324.6	44	319.6	-	-	-	-
Cerebrovascular Diseases	14	101.0	14	101.7	-	-	-	-
Accidents and Adverse Effects	5	*	5	*	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	5	*	5	*	-	-	-	-
Pneumonia and Influenza	8	57.7	8	58.1	-	-	-	-
Diabetes Mellitus	3	*	3	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	1	*	1	*	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Roscommon County



POPULATION		NATIVITY		MORTALITY	
As of April 1, 1992:	20,861	Total Live Births:	240	Total Deaths:	308
Rank Among Counties:	59	Teenage Mothers:	34	Infant Deaths:	1
Per Square Mile:	39.5	Low Weight Births:	11	Neonatal Deaths:	1
		First Births:	88	Postneonatal Deaths:	-
				Perinatal Deaths:	2
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	174	Divorces:	111		
Marriage Rate:	16.7	Divorce Rate:	10.6		

NATIVITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	240	11.5	235	11.4	-	-	4	-
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	34	141.7	34	144.7	-	-	-	-
Low Weight	11	45.8	11	46.8	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	32	133.3	30	127.7	-	-	2	-
Prenatal Care Began in 1st Trimester	192	800.0	187	795.7	-	-	4	-

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

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

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

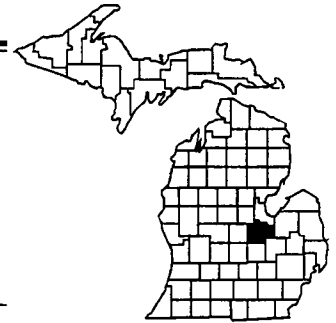
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	308	184	124	306	182	124	-	-	-	2	2	-
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	1	1	-	-	1	1	2	10	7	26	52	207
White Male	-	-	-	-	-	1	1	9	4	18	34	115
White Female	1	1	-	-	1	-	-	1	3	8	18	91
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	1	-	-	-	-	1
Other Female	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	308	1,476.4	306	1,480.4	-	-	2	*
Diseases of the Heart	122	584.8	122	590.2	-	-	-	-
Malignant Neoplasms	64	306.8	64	309.6	-	-	-	-
Cerebrovascular Diseases	26	124.6	26	125.8	-	-	-	-
Accidents and Adverse Effects	13	62.3	13	62.9	-	-	1	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	16	76.7	16	77.4	-	-	-	-
Pneumonia and Influenza	9	43.1	9	43.5	-	-	-	-
Diabetes Mellitus	10	47.9	10	48.4	-	-	-	-
Chronic Liver Disease and Cirrhosis	3	*	3	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	2	*	1	*	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	2	*	2	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Saginaw County



POPULATION		NATIVITY		MORTALITY	
As of April 1, 1992:	212,477	Total Live Births:	3,227	Total Deaths:	1,925
Rank Among Counties:	9	Teenage Mothers:	514	Infant Deaths:	29
Per Square Mile:	260.6	Low Weight Births:	281	Neonatal Deaths:	21
		First Births:	1,263	Postneonatal Deaths:	8
				Perinatal Deaths:	34
				Fetal Deaths:	14
MARRIAGE		DIVORCE			
Marriages:	1,600	Divorces:	883		
Marriage Rate:	15.1	Divorce Rate:	8.3		

NATIVITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	3,227	15.2	2,315	13.5	865	22.6	42	16.4
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	514	159.3	270	116.6	235	271.7	7	166.7
Low Weight	281	87.1	148	63.9	129	149.1	4	*
Under 1,500 Grams	62	19.2	29	12.5	33	38.2	-	-
< 38 Weeks Gestation	674	208.9	409	176.7	262	302.9	2	*
Prenatal Care Began in 1st Trimester	2,704	837.9	2,032	877.8	637	736.4	32	761.9

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	29	9.0	15	6.5	14	16.2	-	-
Neonatal Deaths	21	6.5	11	4.8	10	11.6	-	-
Postneonatal Deaths	8	2.5	4	*	4	*	-	-
Perinatal Deaths	34	10.5	18	7.7	15	17.2	1	*
Fetal Deaths	14	4.3	8	3.4	5	*	1	*

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

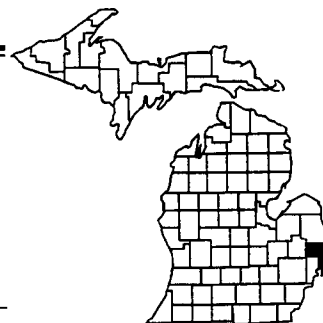
Deaths	All Races			White			Black			Total 8	Other		
	Total 1,925	Male 957	Female 968	Total 1,613	Male 788	Female 825	Total 304	Male 163	Female 141		Male 6	Female 2	
	Age in Years												
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	29	4	3	2	17	14	16	55	87	127	297	1,274	-
White Male	9	-	1	-	5	6	8	21	37	58	131	512	-
White Female	6	3	1	-	7	1	2	8	17	37	97	646	-
Black Male	8	-	1	1	3	5	3	18	20	11	42	51	-
Black Female	6	1	-	1	2	2	3	6	13	21	26	60	-
Other Male	-	-	-	-	-	-	-	2	-	-	1	3	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	2	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,925	906.0	1,613	940.2	304	792.5	26	41.8
Diseases of the Heart	653	307.3	573	334.0	78	203.3	1	*
Malignant Neoplasms	453	213.2	374	218.0	77	200.7	1	*
Cerebrovascular Diseases	131	61.7	112	65.3	16	41.7	-	-
Accidents and Adverse Effects	55	25.9	45	26.2	10	26.1	12	19.3
Chronic Obstructive Pulmonary Diseases and Allied Conditions	122	57.4	111	64.7	11	28.7	1	*
Pneumonia and Influenza	53	24.9	46	26.8	7	18.2	-	-
Diabetes Mellitus	40	18.8	30	17.5	10	26.1	-	-
Chronic Liver Disease and Cirrhosis	26	12.2	18	10.5	7	18.2	-	-
Homicide	24	11.3	8	4.7	16	41.7	5	*
Suicide	21	9.9	18	10.5	3	*	-	-
Atherosclerosis	19	8.9	15	8.7	4	*	-	-
AIDS	11	5.2	4	*	7	18.2	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of St. Clair County



POPULATION

As of April 1, 1992: 150,085
 Rank Among Counties: 14
 Per Square Mile: 204.4

NATALITY

Total Live Births: 2,081
 Teenage Mothers: 254
 Low Weight Births: 147
 First Births: 807

MORTALITY

Total Deaths: 1,376
 Infant Deaths: 19
 Neonatal Deaths: 12
 Postneonatal Deaths: 7
 Perinatal Deaths: 15
 Fetal Deaths: 4

MARRIAGE

Marriages: 1,145
 Marriage Rate: 15.3

DIVORCE

Divorces: 719
 Divorce Rate: 9.6

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	2,081	13.9	1,995	13.7	62	19.8	21	15.3
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	254	122.1	238	119.3	14	225.8	2	*
Low Weight	147	70.6	135	67.7	9	145.2	3	*
Under 1,500 Grams	29	13.9	27	13.5	1	*	1	*
< 38 Weeks Gestation	338	162.4	318	159.4	17	274.2	3	*
Prenatal Care Began in 1st Trimester	1,759	845.3	1,705	854.6	36	580.6	16	761.9

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	19	9.1	18	9.0	1	*	-	-
Neonatal Deaths	12	5.8	11	5.5	1	*	-	-
Postneonatal Deaths	7	3.4	7	3.5	-	-	-	-
Perinatal Deaths	15	7.2	13	6.5	2	*	-	-
Fetal Deaths	4	*	3	*	1	*	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

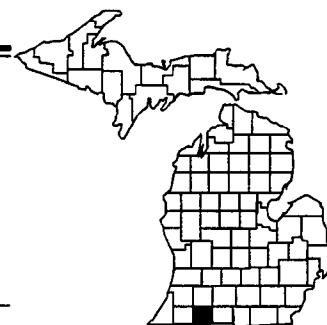
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	1,376	705	671	1,335	689	646	34	15	19	6	1	5
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	19	3	4	4	10	16	8	36	61	108	194	913
White Male	7	1	2	2	8	9	6	22	44	67	116	405
White Female	11	2	1	1	2	6	2	12	13	36	75	485
Black Male	1	-	-	1	-	1	-	1	2	2	-	7
Black Female	-	-	-	-	-	-	-	-	1	2	-	16
Other Male	-	-	-	-	-	-	-	1	-	-	-	-
Other Female	-	-	1	-	-	-	-	-	1	1	2	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,376	916.8	1,335	917.0	34	1,087.3	21	48.5
Diseases of the Heart	458	305.2	447	307.0	11	351.8	1	*
Malignant Neoplasms	339	225.9	334	229.4	3	*	4	*
Cerebrovascular Diseases	96	64.0	92	63.2	4	*	-	-
Accidents and Adverse Effects	52	34.6	50	34.3	1	*	10	23.1
Chronic Obstructive Pulmonary Diseases and Allied Conditions	63	42.0	63	43.3	-	-	-	-
Pneumonia and Influenza	47	31.3	45	30.9	2	*	-	-
Diabetes Mellitus	41	27.3	40	27.5	1	*	-	-
Chronic Liver Disease and Cirrhosis	23	15.3	21	14.4	-	-	-	-
Homicide	7	4.7	5	*	1	*	-	-
Suicide	18	12.0	18	12.4	-	-	2	*
Atherosclerosis	12	8.0	12	8.2	-	-	-	-
AIDS	10	6.7	8	5.5	2	*	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of St. Joseph County



POPULATION

As of April 1, 1992: 59,388
 Rank Among Counties: 29
 Per Square Mile: 118.2

NATALITY

Total Live Births: 860
 Teenage Mothers: 143
 Low Weight Births: 68
 First Births: 340

MORTALITY

Total Deaths: 565
 Infant Deaths: 4
 Neonatal Deaths: 2
 Postneonatal Deaths: 2
 Perinatal Deaths: 10
 Fetal Deaths: 8

MARRIAGE

Marriages: 509
 Marriage Rate: 17.1

DIVORCE

Divorces: 337
 Divorce Rate: 11.3

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	860	14.5	821	14.4	32	19.2	7	13.0
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	143	166.3	133	162.0	10	312.5	-	-
Low Weight	68	79.1	61	74.3	5	*	2	*
Under 1,500 Grams	8	9.3	7	8.5	-	-	1	*
< 38 Weeks Gestation	136	158.1	127	154.7	7	218.8	2	*
Prenatal Care Began in 1st Trimester	675	784.9	648	789.3	22	687.5	5	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	4	*	3	*	1	*	-	-
Neonatal Deaths	2	*	2	*	-	-	-	-
Postneonatal Deaths	2	*	1	*	1	*	-	-
Perinatal Deaths	10	11.5	10	12.1	-	-	-	-
Fetal Deaths	8	9.2	8	9.7	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

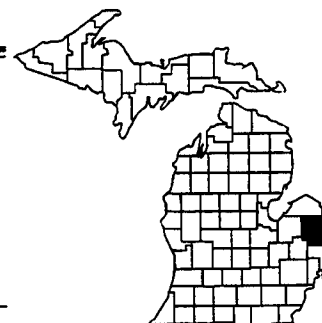
Deaths	All Races			White			Black			Other			
	Total 565	Male 268	Female 297	Total 544	Male 258	Female 286	Total 19	Male 8	Female 11	Total 2	Male 2	Female -	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	4	3	1	-	4	2	2	11	20	46	98	374	-
White Male	1	2	-	-	3	2	1	7	12	26	49	155	-
White Female	2	1	-	-	1	-	1	4	8	18	46	205	-
Black Male	1	-	1	-	-	-	-	-	-	-	-	6	-
Black Female	-	-	-	-	-	-	-	-	-	1	2	8	-
Other Male	-	-	-	-	-	-	-	-	-	1	1	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	565	951.4	544	951.3	19	1,141.1	8	44.7
Diseases of the Heart	197	331.7	190	332.2	6	360.4	1	*
Malignant Neoplasms	134	225.6	128	223.8	5	*	-	-
Cerebrovascular Diseases	39	65.7	38	66.4	1	*	-	-
Accidents and Adverse Effects	28	47.1	26	45.5	2	*	5	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	33	55.6	33	57.7	-	-	-	-
Pneumonia and Influenza	24	40.4	24	42.0	-	-	-	-
Diabetes Mellitus	27	45.5	27	47.2	-	-	-	-
Chronic Liver Disease and Cirrhosis	4	*	4	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	7	11.8	7	12.2	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Sanilac County



POPULATION

As of April 1, 1992: 40,810
 Rank Among Counties: 38
 Per Square Mile: 42.3

NATALITY

Total Live Births: 520
 Teenage Mothers: 65
 Low Weight Births: 40
 First Births: 188

MORTALITY

Total Deaths: 468
 Infant Deaths: 7
 Neonatal Deaths: 3
 Postneonatal Deaths: 4
 Perinatal Deaths: 3
 Fetal Deaths: 1

MARRIAGE

Marriages: 312
 Marriage Rate: 15.3

DIVORCE

Divorces: 159
 Divorce Rate: 7.8

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	520	12.7	517	12.8	-	-	3	*
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	65	125.0	65	125.7	-	-	-	-
Low Weight	40	76.9	40	77.4	-	-	-	-
Under 1,500 Grams	2	*	2	*	-	-	-	-
< 38 Weeks Gestation	86	165.4	85	164.4	-	-	1	*
Prenatal Care Began in 1st Trimester	376	723.1	374	723.4	-	-	2	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	7	13.5	7	13.5	-	-	-	-
Neonatal Deaths	3	*	3	*	-	-	-	-
Postneonatal Deaths	4	*	4	*	-	-	-	-
Perinatal Deaths	3	*	3	*	-	-	-	-
Fetal Deaths	1	*	1	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

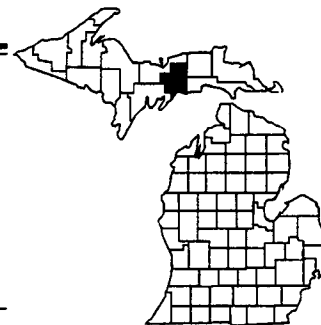
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	468	247	221	465	246	219	-	-	-	3	1	2
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	7	-	1	3	5	4	-	10	12	25	73	328
White Male	4	-	-	1	2	3	-	7	7	16	45	161
White Female	3	-	-	1	3	1	-	3	5	9	27	167
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	1	-	-	-	-	-	-	-	-
Other Female	-	-	1	-	-	-	-	-	-	-	1	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	468	1,146.7	465	1,149.7	-	-	9	75.6
Diseases of the Heart	170	416.6	170	420.3	-	-	-	-
Malignant Neoplasms	103	252.4	103	254.7	-	-	-	-
Cerebrovascular Diseases	47	115.2	46	113.7	-	-	-	-
Accidents and Adverse Effects	22	53.9	20	49.4	-	-	6	50.4
Chronic Obstructive Pulmonary Diseases and Allied Conditions	12	29.4	12	29.7	-	-	-	-
Pneumonia and Influenza	8	19.6	8	19.8	-	-	-	-
Diabetes Mellitus	19	46.6	19	47.0	-	-	-	-
Chronic Liver Disease and Cirrhosis	7	17.2	7	17.3	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	6	14.7	6	14.8	-	-	1	*
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	3	*	3	*	-	-	1	*

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Schoolcraft County



POPULATION

As of April 1, 1992: 8,478
 Rank Among Counties: 79
 Per Square Mile: 7.2

NATALITY

Total Live Births: 105
 Teenage Mothers: 14
 Low Weight Births: 7
 First Births: 41

MORTALITY

Total Deaths: 99
 Infant Deaths: 1
 Neonatal Deaths: 1
 Postneonatal Deaths: -
 Perinatal Deaths: 2
 Fetal Deaths: 1

MARRIAGE

Marriages: 76
 Marriage Rate: 17.9

DIVORCE

Divorces: 36
 Divorce Rate: 8.5

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	105	12.4	94	11.9	-	-	11	18.8
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	14	133.3	12	127.7	-	-	2	*
Low Weight	7	66.7	7	74.5	-	-	-	-
Under 1,500 Grams	1	*	1	*	-	-	-	-
< 38 Weeks Gestation	10	95.2	9	95.7	-	-	1	*
Prenatal Care Began in 1st Trimester	89	847.6	81	861.7	-	-	8	727.3

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	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 1994 in specified group.

MORTALITY

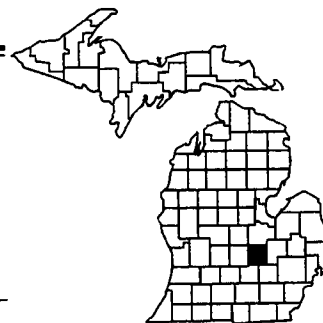
Deaths	All Races			White			Black			Other			
	Total 99	Male 53	Female 46	Total 95	Male 50	Female 45	Total -	Male -	Female -	Total 4	Male 3	Female 1	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	1	-	-	-	-	1	-	4	1	8	19	65	-
White Male	-	-	-	-	-	-	-	3	1	4	12	30	-
White Female	1	-	-	-	-	1	-	1	-	3	7	32	-
Black Male	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	1	-	2	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	1	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	99	1,167.9	95	1,205.3	-	-	-	-
Diseases of the Heart	22	259.5	21	266.4	-	-	-	-
Malignant Neoplasms	26	306.7	26	329.9	-	-	-	-
Cerebrovascular Diseases	6	70.8	5	*	-	-	-	-
Accidents and Adverse Effects	7	82.6	6	76.1	-	-	-	-
Chronic Obstructive Pulmonary Diseases and Allied Conditions	7	82.6	7	88.8	-	-	-	-
Pneumonia and Influenza	3	*	3	*	-	-	-	-
Diabetes Mellitus	2	*	2	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	2	*	2	*	-	-	-	-
Homicide	1	*	1	*	-	-	-	-
Suicide	1	*	1	*	-	-	-	-
Atherosclerosis	-	-	-	-	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Shiawassee County



POPULATION

As of April 1, 1992: 70,832
 Rank Among Counties: 26
 Per Square Mile: 131.1

NATALITY

Total Live Births: 947
 Teenage Mothers: 128
 Low Weight Births: 60
 First Births: 378

MORTALITY

Total Deaths: 588
 Infant Deaths: 5
 Neonatal Deaths: 3
 Postneonatal Deaths: 2
 Perinatal Deaths: 8
 Fetal Deaths: 6

MARRIAGE

Marriages: 578
 Marriage Rate: 16.3

DIVORCE

Divorces: 306
 Divorce Rate: 8.6

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	947	13.4	943	13.5	1	*	3	*
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	128	135.2	126	133.6	1	*	1	*
Low Weight	60	63.4	60	63.6	-	-	-	-
Under 1,500 Grams	6	6.3	6	6.4	-	-	-	-
< 38 Weeks Gestation	138	145.7	137	145.3	1	*	-	-
Prenatal Care Began in 1st Trimester	798	842.7	795	843.1	-	-	3	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	5	*	5	*	-	-	-	-
Neonatal Deaths	3	*	3	*	-	-	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	8	8.4	7	7.4	-	-	-	-
Fetal Deaths	6	6.3	5	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

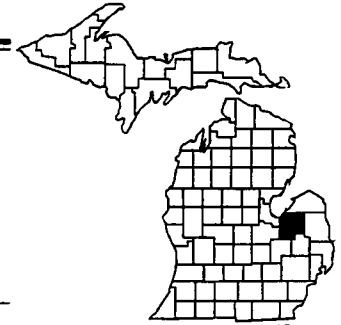
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	588	289	299	586	288	298	-	-	-	2	1	1
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	5	1	-	1	6	3	6	7	23	39	90	407
White Male	3	-	-	1	4	2	4	5	15	25	50	179
White Female	2	1	-	-	2	1	2	2	7	14	39	228
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	1	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	588	830.1	586	836.8	-	-	8	37.6
Diseases of the Heart	198	279.5	198	282.8	-	-	-	-
Malignant Neoplasms	140	197.6	140	199.9	-	-	1	*
Cerebrovascular Diseases	45	63.5	45	64.3	-	-	-	-
Accidents and Adverse Effects	23	32.5	23	32.8	-	-	4	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	29	40.9	29	41.4	-	-	-	-
Pneumonia and Influenza	25	35.3	25	35.7	-	-	-	-
Diabetes Mellitus	15	21.2	14	20.0	-	-	-	-
Chronic Liver Disease and Cirrhosis	7	9.9	7	10.0	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	4	*	4	*	-	-	2	*
Atherosclerosis	18	25.4	18	25.7	-	-	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Tuscola County



POPULATION		NATIVITY		MORTALITY	
As of April 1, 1992:	56,130	Total Live Births:	732	Total Deaths:	491
Rank Among Counties:	32	Teenage Mothers:	102	Infant Deaths:	6
Per Square Mile:	69.1	Low Weight Births:	47	Neonatal Deaths:	4
		First Births:	259	Postneonatal Deaths:	2
				Perinatal Deaths:	4
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	433	Divorces:	244		
Marriage Rate:	15.4	Divorce Rate:	8.7		

NATIVITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	732	13.0	723	13.2	4	*	3	*
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	102	139.3	99	136.9	-	-	1	*
Low Weight	47	64.2	46	63.6	1	*	-	-
Under 1,500 Grams	9	12.3	8	11.1	1	*	-	-
< 38 Weeks Gestation	144	196.7	142	196.4	2	*	-	-
Prenatal Care Began in 1st Trimester	632	863.4	625	864.5	2	*	3	*

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	6	8.2	5	*	1	*	-	-
Neonatal Deaths	4	*	3	*	1	*	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	4	*	3	*	1	*	-	-
Fetal Deaths	2	*	2	*	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

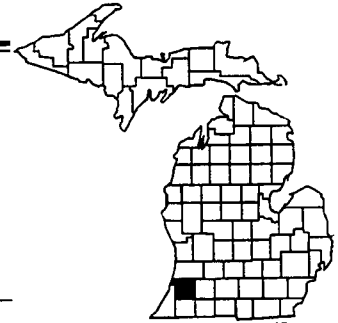
Deaths	All Races			White			Black			Other			
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	
	491	273	218	483	265	218	7	7	-	1	1	-	
Age in Years													
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+	Unk
Total Deaths	6	4	3	3	6	4	2	12	23	33	85	310	-
White Male	3	2	1	2	4	4	-	8	16	23	45	157	-
White Female	2	1	2	1	2	-	2	4	7	10	37	150	-
Black Male	1	1	-	-	-	-	-	-	-	-	2	3	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	491	874.7	483	878.7	7	1,323.3	16	95.4
Diseases of the Heart	170	302.9	170	309.3	-	-	-	-
Malignant Neoplasms	96	171.0	94	171.0	1	*	-	-
Cerebrovascular Diseases	49	87.3	48	87.3	1	*	1	*
Accidents and Adverse Effects	35	62.4	35	63.7	-	-	13	77.5
Chronic Obstructive Pulmonary Diseases and Allied Conditions	21	37.4	21	38.2	-	-	-	-
Pneumonia and Influenza	19	33.8	19	34.6	-	-	-	-
Diabetes Mellitus	16	28.5	16	29.1	-	-	-	-
Chronic Liver Disease and Cirrhosis	5	*	5	*	-	-	-	-
Homicide	3	*	3	*	-	-	1	*
Suicide	3	*	3	*	-	-	-	-
Atherosclerosis	3	*	2	*	1	*	-	-
AIDS	1	*	-	-	1	*	1	*

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Van Buren County



POPULATION		NATALITY		MORTALITY	
As of April 1, 1992:	72,331	Total Live Births:	1,121	Total Deaths:	667
Rank Among Counties:	24	Teenage Mothers:	200	Infant Deaths:	4
Per Square Mile:	118.3	Low Weight Births:	78	Neonatal Deaths:	2
		First Births:	456	Postneonatal Deaths:	2
				Perinatal Deaths:	8
				Fetal Deaths:	6
MARRIAGE		DIVORCE			
Marriages:	637	Divorces:	402		
Marriage Rate:	17.6	Divorce Rate:	11.1		

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	1,121	15.5	1,027	15.4	82	17.1	11	10.9
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	200	178.4	168	163.6	30	365.9	2	*
Low Weight	78	69.6	67	65.2	8	97.6	3	*
Under 1,500 Grams	11	9.8	10	9.7	1	*	-	-
< 38 Weeks Gestation	177	157.9	159	154.8	16	195.1	2	*
Prenatal Care Began in 1st Trimester	809	721.7	757	737.1	45	548.8	7	636.4

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	4	*	4	*	-	-	-	-
Neonatal Deaths	2	*	2	*	-	-	-	-
Postneonatal Deaths	2	*	2	*	-	-	-	-
Perinatal Deaths	8	7.1	8	7.7	-	-	-	-
Fetal Deaths	6	5.3	6	5.8	-	-	-	-

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

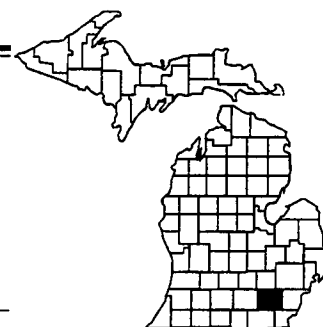
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	667	328	339	599	295	304	65	32	33	3	1	2
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	4	2	-	6	3	4	6	14	30	53	113	432
White Male	3	2	-	5	1	1	4	8	17	28	65	161
White Female	1	-	-	1	1	1	2	5	10	19	36	228
Black Male	-	-	-	-	1	1	-	-	3	3	7	17
Black Female	-	-	-	-	-	1	-	1	-	2	5	24
Other Male	-	-	-	-	-	-	-	-	-	1	-	-
Other Female	-	-	-	-	-	-	-	-	-	-	-	2

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	667	922.1	599	900.3	65	1,358.7	11	50.1
Diseases of the Heart	249	344.3	226	339.7	23	480.8	-	-
Malignant Neoplasms	143	197.7	124	186.4	18	376.3	1	*
Cerebrovascular Diseases	37	51.2	31	46.6	5	*	-	-
Accidents and Adverse Effects	26	35.9	25	37.6	1	*	3	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	32	44.2	31	46.6	1	*	-	-
Pneumonia and Influenza	15	20.7	13	19.5	2	*	-	-
Diabetes Mellitus	25	34.6	22	33.1	2	*	-	-
Chronic Liver Disease and Cirrhosis	7	9.7	7	10.5	-	-	-	-
Homicide	2	*	1	*	1	*	1	*
Suicide	8	11.1	7	10.5	1	*	2	*
Atherosclerosis	15	20.7	14	21.0	1	*	-	-
AIDS	1	*	1	*	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Washtenaw County



POPULATION

As of April 1, 1992: 288,025
 Rank Among Counties: 6
 Per Square Mile: 405.5

NATALITY

Total Live Births: 4,001
 Teenage Mothers: 349
 Low Weight Births: 276
 First Births: 1,815

MORTALITY

Total Deaths: 1,622
 Infant Deaths: 28
 Neonatal Deaths: 21
 Postneonatal Deaths: 7
 Perinatal Deaths: 46
 Fetal Deaths: 28

MARRIAGE

Marriages: 2,198
 Marriage Rate: 15.3

DIVORCE

Divorces: 1,117
 Divorce Rate: 7.8

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	4,001	13.9	2,931	12.2	637	19.4	266	18.6
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	349	87.2	194	66.2	145	227.6	3	*
Low Weight	276	69.0	169	57.7	80	125.6	12	45.1
Under 1,500 Grams	49	12.2	30	10.2	17	26.7	1	*
< 38 Weeks Gestation	570	142.5	397	135.4	118	185.2	39	146.6
Prenatal Care Began in 1st Trimester	3,193	798.1	2,465	841.0	442	693.9	217	815.8

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	28	7.0	18	6.1	10	15.7	-	-
Neonatal Deaths	21	5.2	12	4.1	9	14.1	-	-
Postneonatal Deaths	7	1.7	6	2.0	1	*	-	-
Perinatal Deaths	46	11.4	31	10.5	13	20.2	1	*
Fetal Deaths	28	6.9	20	6.8	6	9.3	1	*

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

Deaths	All Races			White			Black			Other			
	Total 1,622	Male 790	Female 832	Total 1,430	Male 689	Female 741	Total 177	Male 92	Female 85	Total 15	Male 9	Female 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	28	1	4	1	13	17	13	55	103	113	233	1,040	1
White Male	10	-	-	-	6	10	8	40	45	54	121	394	1
White Female	8	-	4	1	4	4	1	8	40	35	83	553	-
Black Male	5	1	-	-	3	3	3	4	10	18	14	31	-
Black Female	5	-	-	-	-	-	1	2	6	5	12	54	-
Other Male	-	-	-	-	-	-	-	-	1	-	2	6	-
Other Female	-	-	-	-	-	-	-	1	1	1	1	2	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	1,622	563.1	1,430	593.5	177	539.4	19	25.8
Diseases of the Heart	469	162.8	411	170.6	51	155.4	-	-
Malignant Neoplasms	374	129.8	335	139.0	37	112.8	2	*
Cerebrovascular Diseases	141	49.0	122	50.6	18	54.9	-	-
Accidents and Adverse Effects	72	25.0	68	28.2	3	*	9	12.2
Chronic Obstructive Pulmonary Diseases and Allied Conditions	74	25.7	70	29.1	3	*	-	-
Pneumonia and Influenza	58	20.1	55	22.8	3	*	-	-
Diabetes Mellitus	49	17.0	40	16.6	9	27.4	-	-
Chronic Liver Disease and Cirrhosis	17	5.9	15	6.2	2	*	-	-
Homicide	18	6.2	11	4.6	7	21.3	3	*
Suicide	24	8.3	20	8.3	4	*	2	*
Atherosclerosis	9	3.1	9	3.7	-	-	-	-
AIDS	27	9.4	17	7.1	10	30.5	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Wayne County



POPULATION

As of April 1, 1992: 2,096,179
 Rank Among Counties: 1
 Per Square Mile: 3,407.9

NATALITY

Total Live Births: 34,816
 Teenage Mothers: 5,730
 Low Weight Births: 3,750
 First Births: 13,163

MORTALITY

Total Deaths: 21,349
 Infant Deaths: 427
 Neonatal Deaths: 282
 Postneonatal Deaths: 145
 Perinatal Deaths: 419
 Fetal Deaths: 181

MARRIAGE

Marriages: 11,015
 Marriage Rate: 10.5

DIVORCE

Divorces: 7,540
 Divorce Rate: 7.2

NATALITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	34,816	16.6	16,416	13.7	17,584	20.2	687	21.6
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	5,730	164.6	1,571	95.7	4,088	232.5	61	88.8
Low Weight	3,750	107.7	1,060	64.6	2,625	149.3	51	74.2
Under 1,500 Grams	857	24.6	207	12.6	642	36.5	4	*
< 38 Weeks Gestation	7,609	218.5	2,727	166.1	4,756	270.5	111	161.6
Prenatal Care Began in 1st Trimester	25,484	732.0	13,781	839.5	11,117	632.2	522	759.8

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Infant Deaths	427	12.3	97	5.9	328	18.7	2	*
Neonatal Deaths	282	8.1	55	3.4	226	12.9	1	*
Postneonatal Deaths	145	4.2	42	2.6	102	5.8	1	*
Perinatal Deaths	419	12.0	105	6.4	302	17.1	6	8.7
Fetal Deaths	181	5.2	61	3.7	109	6.2	5	*

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

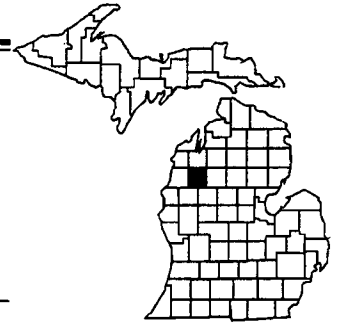
	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	21,349	11,154	10,191	12,131	5,994	6,136	9,095	5,085	4,007	114	70	44
	Age in Years											
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-49	50-59	60-69	70+
Total Deaths	427	85	30	53	189	272	290	980	1,513	1,889	3,526	12,089
White Male	53	15	8	14	37	50	76	265	333	542	1,154	3,445
White Female	43	13	2	4	7	19	20	96	184	320	822	4,604
Black Male	183	34	13	20	118	169	151	408	613	619	880	1,876
Black Female	142	23	7	14	25	32	43	199	375	387	643	2,116
Other Male	2	-	-	1	1	1	-	5	5	13	15	27
Other Female	-	-	-	-	1	1	-	4	2	8	10	18

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	21,349	1,018.5	12,131	1,014.8	9,095	1,046.7	357	60.2
Diseases of the Heart	7,445	355.2	4,566	382.0	2,845	327.4	9	1.5
Malignant Neoplasms	4,873	232.5	2,971	248.5	1,874	215.7	30	5.1
Cerebrovascular Diseases	1,269	60.5	703	58.8	560	64.4	4	*
Accidents and Adverse Effects	560	26.7	300	25.1	252	29.0	77	13.0
Chronic Obstructive Pulmonary Diseases and Allied Conditions	661	31.5	449	37.6	208	23.9	3	*
Pneumonia and Influenza	688	32.8	390	32.6	294	33.8	4	*
Diabetes Mellitus	591	28.2	341	28.5	244	28.1	-	-
Chronic Liver Disease and Cirrhosis	387	18.5	206	17.2	179	20.6	-	-
Homicide	654	31.2	107	9.0	545	62.7	124	20.9
Suicide	221	10.5	148	12.4	70	8.1	22	3.7
Atherosclerosis	102	4.9	69	5.8	31	3.6	-	-
AIDS	403	19.2	85	7.1	317	36.5	3	*

Note: Rate is per 100,000 estimated population in 1992 in specified group.

Profile of Wexford County



POPULATION		NATILITY		MORTALITY	
As of April 1, 1992:	27,099	Total Live Births:	400	Total Deaths:	284
Rank Among Counties:	48	Teenage Mothers:	53	Infant Deaths:	3
Per Square Mile:	47.9	Low Weight Births:	20	Neonatal Deaths:	-
		First Births:	140	Postneonatal Deaths:	3
				Perinatal Deaths:	2
				Fetal Deaths:	2
MARRIAGE		DIVORCE			
Marriages:	273	Divorces:	187		
Marriage Rate:	20.1	Divorce Rate:	13.8		

NATILITY BY RACE OF MOTHER

	Total		White		Black		Other	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Live Births	400	14.8	391	14.6	-	-	8	26.1
	Total		White		Black		Other	
	Number	Ratio	Number	Ratio	Number	Ratio	Number	Ratio
Teenage Mothers	53	132.5	52	133.0	-	-	1	*
Low Weight	20	50.0	19	48.6	-	-	1	*
Under 1,500 Grams	-	-	-	-	-	-	-	-
< 38 Weeks Gestation	48	120.0	47	120.2	-	-	1	*
Prenatal Care Began in 1st Trimester	295	737.5	288	736.6	-	-	7	875.0

Note: Rate is per 1,000 estimated population in 1992 and ratio per 1,000 live births in 1994 in specified group.

INFANT AND PERINATAL MORTALITY BY RACE

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

Note: Rate is per 1,000 live births or total births in 1994 in specified group.

MORTALITY

	All Races			White			Black			Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Deaths	284	165	119	280	164	116	-	-	-	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+
Total Deaths	3	-	1	-	3	2	2	8	14	21	42	188
White Male	-	-	1	-	3	2	2	6	8	15	27	100
White Female	3	-	-	-	-	-	-	1	5	6	14	87
Black Male	-	-	-	-	-	-	-	-	-	-	-	-
Black Female	-	-	-	-	-	-	-	-	-	-	-	-
Other Male	-	-	-	-	-	-	-	-	-	-	1	-
Other Female	-	-	-	-	-	-	-	1	1	-	-	-

LEADING CAUSES OF DEATH

	Total		White		Black		Children Ages 1-19	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	284	1,048.0	280	1,046.7	-	-	4	*
Diseases of the Heart	93	343.2	92	343.9	-	-	1	*
Malignant Neoplasms	66	243.6	65	243.0	-	-	1	*
Cerebrovascular Diseases	27	99.6	27	100.9	-	-	-	-
Accidents and Adverse Effects	15	55.4	15	56.1	-	-	2	*
Chronic Obstructive Pulmonary Diseases and Allied Conditions	16	59.0	16	59.8	-	-	-	-
Pneumonia and Influenza	10	36.9	9	33.6	-	-	-	-
Diabetes Mellitus	6	22.1	5	*	-	-	-	-
Chronic Liver Disease and Cirrhosis	4	*	4	*	-	-	-	-
Homicide	-	-	-	-	-	-	-	-
Suicide	8	29.5	8	29.9	-	-	-	-
Atherosclerosis	2	*	2	*	-	-	-	-
AIDS	-	-	-	-	-	-	-	-

Note: Rate is per 100,000 estimated population in 1992 in specified group.

NATALITY

SECTION I



NATALITY

KEY TRENDS

Demographic Between 1900 and 1994, the number of total births (live births and fetal deaths) has varied considerably. The general trend has been increasing numbers of total births from 1900 through 1957, declining numbers through 1976 and fairly stable numbers until 1989. During 1989 through 1992 there were more total births each year in Michigan than had been born to Michigan residents in any year since 1972. There was a 4.2 percent drop in the number of total births between 1992 and 1994.

In the last twenty years fertility rates for white and black women decreased with the fertility rates for white women reaching a low level by about 1975 and for black women by about 1985. Fertility rates for white women have remained fairly stable since 1975, while rates for black women rose after 1985, peaked in 1990 and have generally declined since then. During this time period there has been an increase in the percent of births to minority race populations from 18.0 percent in 1974 to 22.5 percent of the births in 1994.

Since 1980 birth rates for white teenage women have fluctuated from a low in 1983 of 31.3 births per 1,000 white women 15 to 19 years of age to a high of 43.5 in 1991. Rates for black teenage women have fluctuated from a low of 80.5 in 1983 to a high of 135.6 in 1989. The rates have declined to 41.1 and 99.4 in 1994 for white and black teens, respectively.

Prenatal Care A national goal is to increase to at least 90 percent the proportion of pregnant women who initiate prenatal care in the first trimester of pregnancy by the year 2000. In Michigan, the percentage of mothers who initiated care early increased from 69 percent in 1970 to a peak of 81 percent in 1985 and was about 80 percent in 1994. In 1994, 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 85 percent). The lowest percentages occurred among black and American Indian mothers and mothers of Hispanic ancestry (64 to 75 percent).

An Overview, 1994

Total Resident Births (live births & fetal deaths)	138,575
Total Resident Live Births	137,844
Resident Live Births per Day	377.7
Total Resident Fetal Deaths	731
Resident Fetal Deaths per Day	2.0
Crude Birth Rate	14.6
Fertility Rate	62.4
Fetal Death Ratio	5.3
First Births (Percent of Total Live Births)	39.6
Median Birth Weight in Grams (Live Births)	3,374
Median Birth Weight in Grams (Fetal Deaths)	880
Low Weight Live Births	10,765
Low Weight Birth Ratio	78.1
Median Age of Mother (Live Births)	27
Median Age of Mother (Fetal Deaths)	28
Live Births with Congenital Anomalies	1,240
Congenital Anomalies per 10,000 Live Births	90.0
Live Births with No Prenatal Care	1,933
No Prenatal Care Ratio	14.0
Home Births	851
Live Born Sets of Twins	1,856
Live Born Sets of Triplets	65
Live Born Multiple Births of Four or More	4
Male Live Births per 100 Female Live Births	105.5

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

Birth Outcome A national goal is to have the percent of infants with low birth weight be no more than 5 percent overall and 9 percent among infants born to black mothers by the year 2000. The low birth weight percentage in Michigan declined from 8.0 percent in 1966 to a low of 6.8 percent in 1985. It increased to 7.8 percent in 1994. The percent for white mothers decreased from 6.6 in 1970 to 6.2 in

1994, while the percent for black mothers rose from 14.3 in 1970 to 14.4 in 1994. Of more concern is the percent of births with extremely low birth weight (less than 750 grams) where about 3/4 of the live births will die within one year, usually in the first day of life. While 0.2 to 0.5 percent of the infants born to white, American Indian, Asian and Pacific Islander mothers and mothers of Arab and Hispanic ancestry had extremely low birth weight in 1994, 1.3 percent of the live births to black mothers had extremely low birth weight.

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 1994 18.5 percent of the pregnant Michigan women used tobacco during their pregnancy.

Tobacco use during pregnancy was highest among American Indian mothers (35.9 percent). Less than 3 percent of the Asian and Pacific Islander mothers and about 6 percent of the mothers of Arab ancestry smoked. About 11 percent of the mothers of Hispanic ancestry smoked, while 17 and 19 percent of the black and white mothers smoked, respectively.

LIVE BIRTHS

Michigan Trend The smallest number of live births officially recorded in this century was 43,221 in 1901. The actual number of live births was undoubtedly higher. Because of the method of recording, many live births were probably not recorded.

Live births generally increased from 43,699 in 1900 to 208,488 in the peak year of 1957 with major declines occurring during the first years of the Great Depression and the Second World War (Figure 1.1). Between 1957 and 1976, live births decreased by 37.0 percent to 131,378, the lowest total since 1945. Between 1977 and 1988 the number of births fluctuated between a high of 145,162 live births in 1980 and a low of 133,026 in 1983. There was a sharp increase in the number of live births in 1989

and 1990. The number of births has declined since 1990 to 137,844 in 1994.

United States The national pattern was similar to that observed in Michigan. For 1994, the provisional figure was 3,979,000, a decrease of 0.5 percent from 1993.

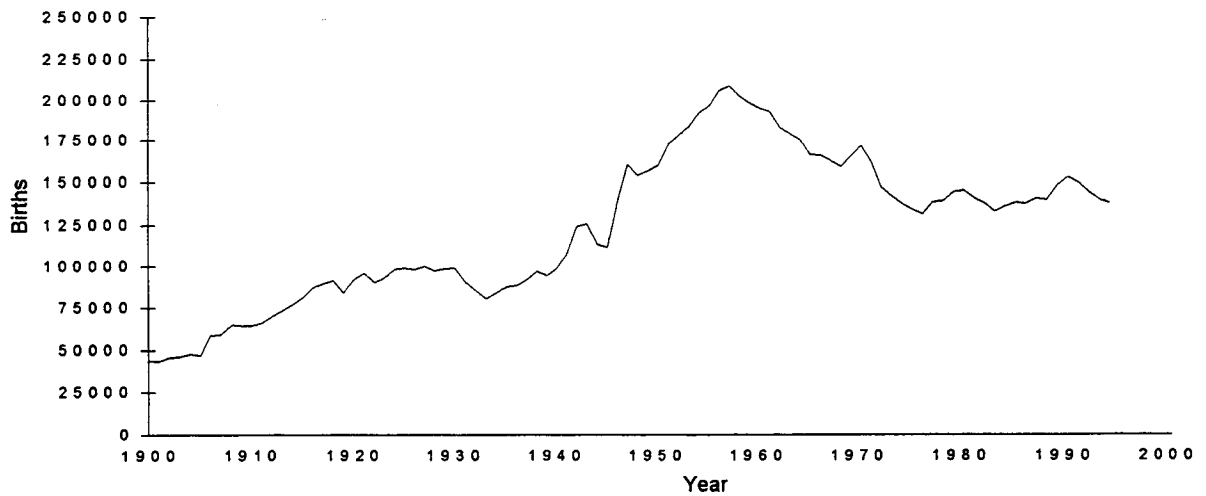
Crude Birth Rates Another view of the historic pattern in live births may be obtained through examination of changes in the crude birth rate. In this century the crude birth rate in Michigan has ranged from a low of 14.4 per 1,000 residents in 1976 to a high of 27.4 in 1956 (Figure 1.2). Between 1976 and 1988, the rate fluctuated between the high of 15.7 in 1980 and a low of 14.5 in 1983. From 1989 through 1991 the crude birth rate was about 16 live births per 1,000 residents. By 1994 the rate had declined to 14.6.

Table 1.1
Live Births and Crude Birth Rates
Michigan and United States Residents
Selected Years, 1900 - 1994

United States		Year	Michigan	
Number	Rate		Number	Rate
---	---	1900	43,699	18.1
2,618,000	21.3	1930	98,882	20.4
4,257,850	23.7	1960	195,056	24.9
3,731,386	18.4	1970	171,667	19.3
3,612,258	15.9	1980	145,162	15.7
3,629,238	15.8	1981	140,579	15.2
3,680,537	15.9	1982	137,950	15.0
3,638,933	15.6	1983	133,026	14.5
3,669,141	15.6	1984	135,782	15.0
3,760,561	15.8	1985	138,052	15.2
3,756,547	15.6	1986	137,626	15.1
3,809,394	15.7	1987	140,466	15.3
3,909,510	16.0	1988	139,635	15.2
4,040,958	16.4	1989	148,164	16.0
4,158,212	16.7	1990	153,080	16.5
4,110,907	16.3	1991	149,478	15.9
4,065,014	15.9	1992	143,827	15.2
4,000,240	15.5	1993	139,560	14.8
3,979,000Pr.	15.3Pr.	1994	137,844	14.6

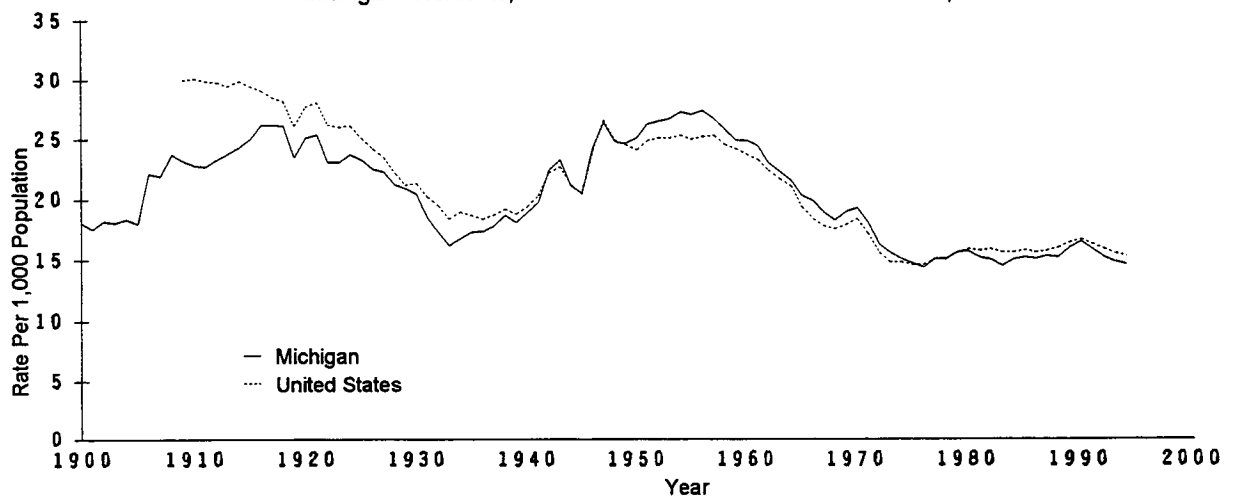
Source: Office of the State Registrar and Division of Health Statistics, MDPH

Figure 1.1
Live Births
Michigan Residents, 1900-1994



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

Figure 1.2
Live Birth Rates
Michigan Residents, 1900-1994 and United States¹ Residents, 1909-1994



¹ United States rates prior to 1909 are not available.

² United States rate for 1994 is provisional.

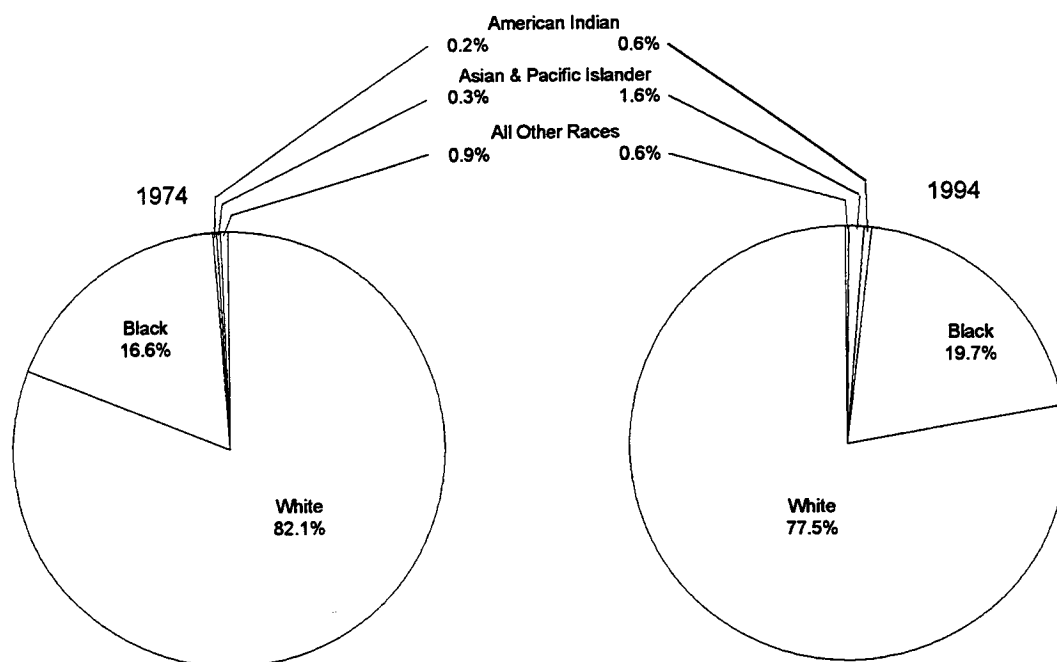
Source: Office of the State Registrar and Division of Health Statistics, MDPH

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 1974 through 1994 (Figure 1.3). Live births to white women declined from 82.1 percent of

all live births in 1974 to 77.5 percent in 1994. The percentages of live births born to mothers of minority race groups increased from 18.0 to 22.5 percent during the twenty year interval.

Figure 1.3
Live Births by Mother's Race or National Origin
Michigan Residents, 1974 and 1994



Note: In 1973 Korean race was included in all other races and Asian Indian race was included in white.

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

Mother's Age In 1994, 37.7 percent of all live births were to women less than 25 years of age (Table 1.2). Only 1.4 percent occurred to women over 39 years of age. The median age of Michigan mothers was 27 years. Black, American Indian and Hispanic mothers were younger (median: 23 or 24 years), while white, Asian and Pacific Islander and Arab mothers were older (median: 27 to 29 years).

Teenage Mothers Differences are reflected in the proportion of teenage births in each race or ancestry group. Although over half of the births to teenage women are to white mothers, only about 1 in 10 births to white mothers were born to a teenage women. Even lower proportions of Asian and Pacific Islander mothers and mothers of Arab ancestry were under age 20, about 1 in 18 and 1 in 15 respectively. About 1 in 4 births to black and American Indian mothers were born to teenage mothers and 1 in 5 births to mothers of Hispanic ancestry.

Table 1.2
Live Births and Percent Distribution by Age, Race and Ancestry of Mother
Michigan Residents, 1994

Age of Mother in Years	Race ¹												Ancestry			
	Total		White		Black		Amer. Indian		Asian & P.I.		Other		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
< 15	397	0.3	123	0.1	269	1.0	2	*	2	*	-	-	-	-	26	0.6
15 - 19	17,051	12.4	10,386	9.7	6,322	23.3	171	20.3	124	5.6	9	10.3	175	6.8	892	20.1
20 - 24	34,448	25.0	24,547	23.0	9,104	33.6	290	34.5	373	16.9	22	25.3	639	24.7	1,400	31.6
25 - 29	39,789	28.9	32,788	30.7	5,774	21.3	209	24.9	782	35.4	23	26.4	804	31.1	1,061	23.9
30 - 34	32,148	23.3	27,383	25.6	3,721	13.7	113	13.4	656	29.7	19	21.8	599	23.2	740	16.7
35 - 39	12,066	8.8	10,021	9.4	1,649	6.1	51	6.1	221	10.0	13	14.9	277	10.7	274	6.2
40 +	1,912	1.4	1,558	1.5	280	1.0	5	*	51	2.3	1	*	87	3.4	40	0.9
Not Stated	33	0.0	22	0.0	10	0.0	-	-	-	-	-	-	1	*	2	*
Total	137,844	100.0	106,828	100.0	27,129	100.0	841	100.0	2,209	100.0	87	100.0	2,582	100.0	4,435	100.0
Median Age at Last Birthday	27		27		23		24		29		28		27		24	

¹ Live births with race unknown are in the "Total" column only.

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

FERTILITY

The fertility rate relates the number of live births to the female population of childbearing age, 15 through 44 years. Similarly, age-specific rates which relate the number of live births to the females in a specific age group provide more detail on the fertility of women in the age group.

Trends A comparison of fertility rates since 1900 for Michigan with those for the United States since 1930 is presented in Table 1.3. The crude birth rate changes discussed above understate the recent decline in fecundity for both regions. The fertility rate for Michigan in 1994 was 49.3 percent below the 1960 rate.

Total Fertility Figure 1.4 displays the changes in the total fertility rate between 1920 and 1994 for Michigan and the United States. (See also Table 4.4) The total fertility rate is a hypothetical measure of the number of live births that would occur to each 1,000 women during their reproductive life, if these women experienced the age-specific birth rates observed in a given year.

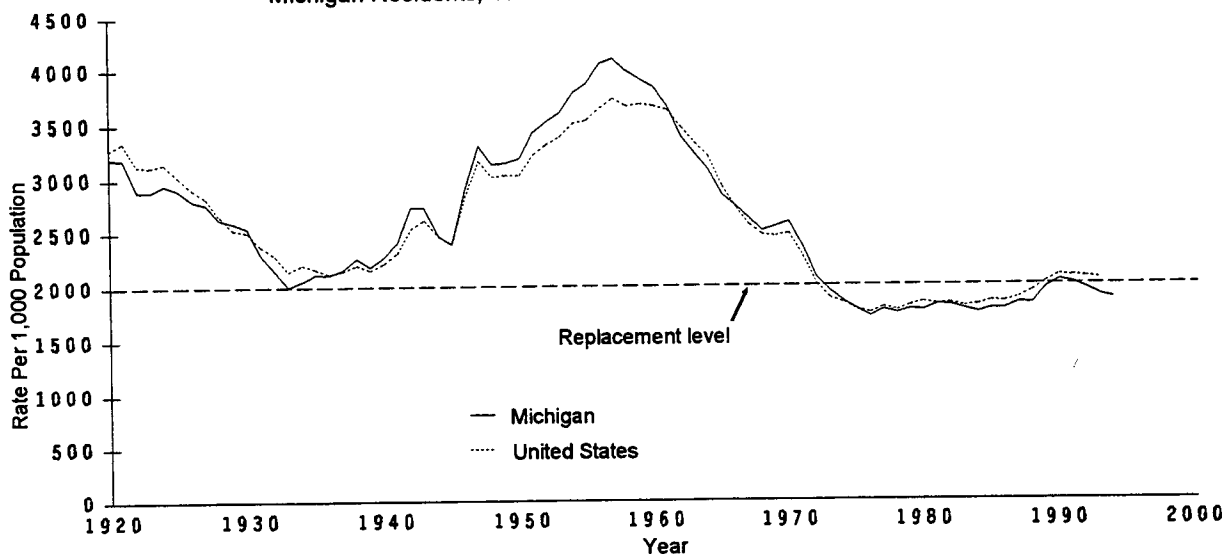
Michigan's total fertility rate has generally paralleled that of the nation. The Michigan rate dropped

Table 1.3
Fertility Rates
Michigan and United States Residents
Selected Years, 1900-1994

United States	Year	Michigan
---	1900	78.5
89.2	1930	87.6
118.0	1960	123.1
87.9	1970	91.7
68.4	1980	66.3
67.3	1981	63.2
67.3	1982	61.7
65.7	1983	59.3
65.5	1984	63.1
66.3	1985	63.8
65.4	1986	63.2
65.8	1987	64.3
67.3	1988	63.9
69.2	1989	67.9
70.9	1990	69.1
69.6	1991	62.7
68.9	1992	65.1
67.6	1993	63.2
67.1Pr.	1994	62.4

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

Figure 1.4
Total Fertility Rates¹
Michigan Residents, 1920-1994 and United States Residents, 1920-1993



¹ Total fertility rate is total children to 1,000 women in their lifetime assuming constant live birth rates.

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

from 3,195.5 in 1920 to 2,006.5 in 1933 and then increased between 1933 and 1957, reaching 4,100.0 in the latter year. Between 1957 and 1994 the total fertility rate in Michigan declined to a low of 1,709.5 in 1976 and increased to 1,868.5 in 1994. The rate was 2,046.0 in 1993 for the United States. The national rates have been higher than the Michigan rates since 1982.

In 1990, for the first time since 1973, both Michigan and national total fertility rates were above 2,000. In 1992 through 1994 the Michigan total fertility rate was again below 2,000. A total fertility rate of over 2,000 is necessary for replacement of the parents, since not all women survive the reproductive years nor would all children survive to adulthood. If the total fertility rate falls below 2,000 for a long period, a natural decrease in population will eventually occur. It should be noted that although the total fertility rate has almost always been below 2,000 since 1973, the rate of natural increase for Michigan

remains positive. Over the period 1974 through 1994, there were 1,317,043 persons added to the population of Michigan through the excess of live births over deaths.

Table 1.4 provides a comparison between fertility rates for white and black women in Michigan for the period since 1970.

The fertility rate for black women was 40.5 percent above the rate for white women in 1970, fell sharply to 10.8 percent higher in 1985 and increased to 31.2 percent higher in 1994. Since 1970 the fertility rate for black women has declined 37.3 percent compared with a 32.9 percent drop for white women.

The fertility rates for white women declined to its lowest level of 60.7 in 1976, then rose to a high of 65.3 in 1990. Similarly, rates for black women declined to 66.7 in 1983 and then increased to a high of 93.5 in 1990.

Table 1.4
Fertility Rates by Race of Mother
Michigan Residents, Selected Years, 1970-1994

Year	Fertility Rate	
	White	Black
1970	87.9	123.5
1975	62.6	89.5
1980	64.2	78.3
1985	62.8	69.6
1990	65.3	93.5
1991	59.2	81.2
1992	61.5	84.6
1993	59.8	80.6
1994	59.0	77.4
% Change 1970-1994	-32.9	-37.3

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

AGE-SPECIFIC LIVE BIRTH RATES

All Women Figure 1.5 displays age-specific live birth rates for the period 1970-1994. 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 38.6 in 1983. The rate increased after 1983 to a high of 60.0 in 1990 then declined to 53.7 in 1994.

After declining between 1970 and 1976, live birth rates for women between 20-24 and 25-29 years of age remained stable until 1980. The rates decreased to low levels in 1983 and increased to relatively high levels in 1990. These rates are decreasing again.

For women in the age groups 30-34 and 35-39 live birth rates decreased between 1970 and 1976, then increased by 60.5 and 86.5 percent, respectively, by 1994.

Black and White Women Figures 1.6 and 1.7 present the trends in age-specific rates for white and black women respectively for the period 1980-1994.

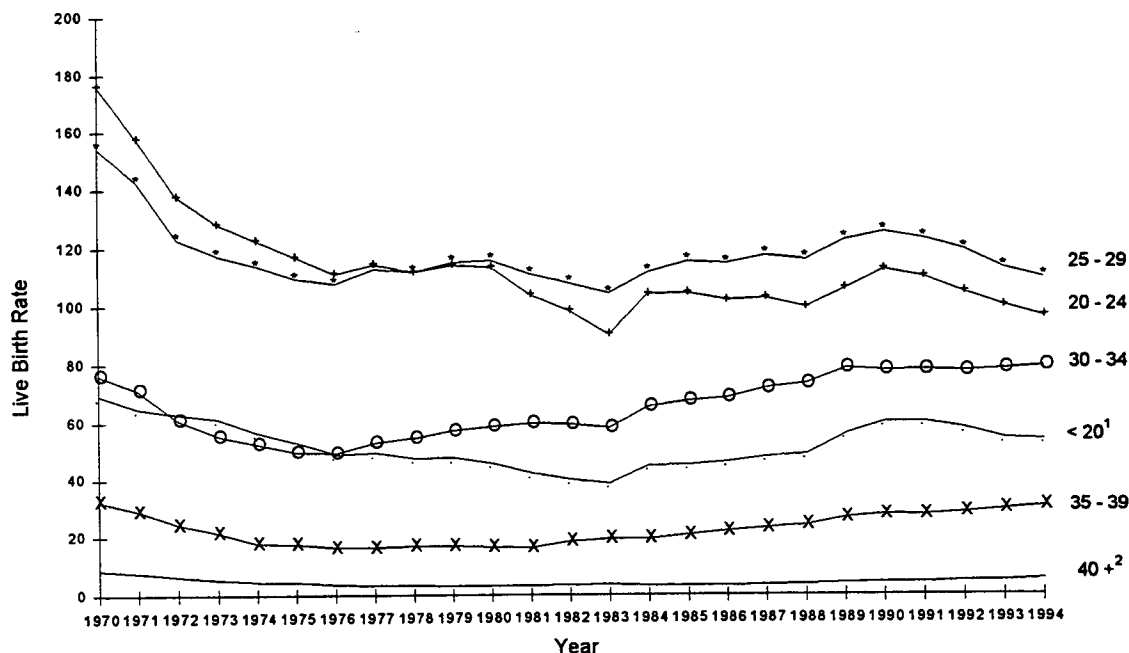
Rates for black women under age 25 were above those for white women during these years. The live birth rates for white and black women aged 25 and over were similar.

Between 1980 and 1994 rates for white and black females increased for all age groups, except for white females ages 20 to 29.

For women under age 20, birth rates decreased for both race groups through 1983, increased from 1984 through 1989 for black teenagers and from 1984 through 1991 for white teenage women. The rates decreased in 1992 and 1993 for white teens, but increased slightly in 1994. The rates decreased for black teens from 1990 through 1994.

The pattern observed for black teens between 1980 and 1994 was mirrored by black women between ages 20 and 29. In 1994 the rate for black teens fell below the rate for black women age 25-29 for the first time since 1986.

Figure 1.5
Age-Specific Live Birth Rates
Michigan Residents, 1970-1994

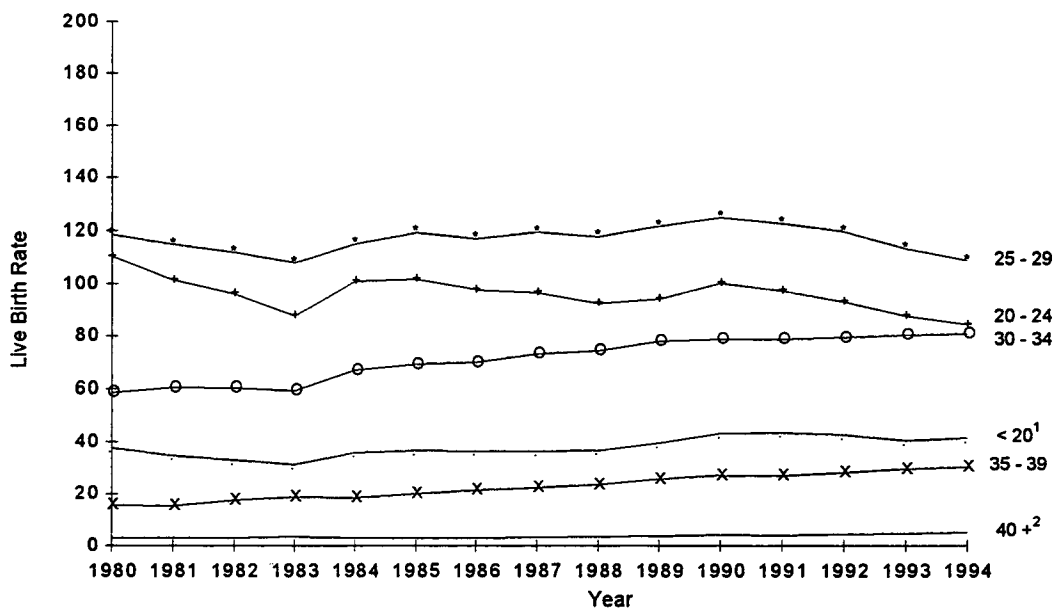


¹ Based on live births to women under 20 and population of females 15-19.

² Based on live births to women 40 and over and population of females 40-44.

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

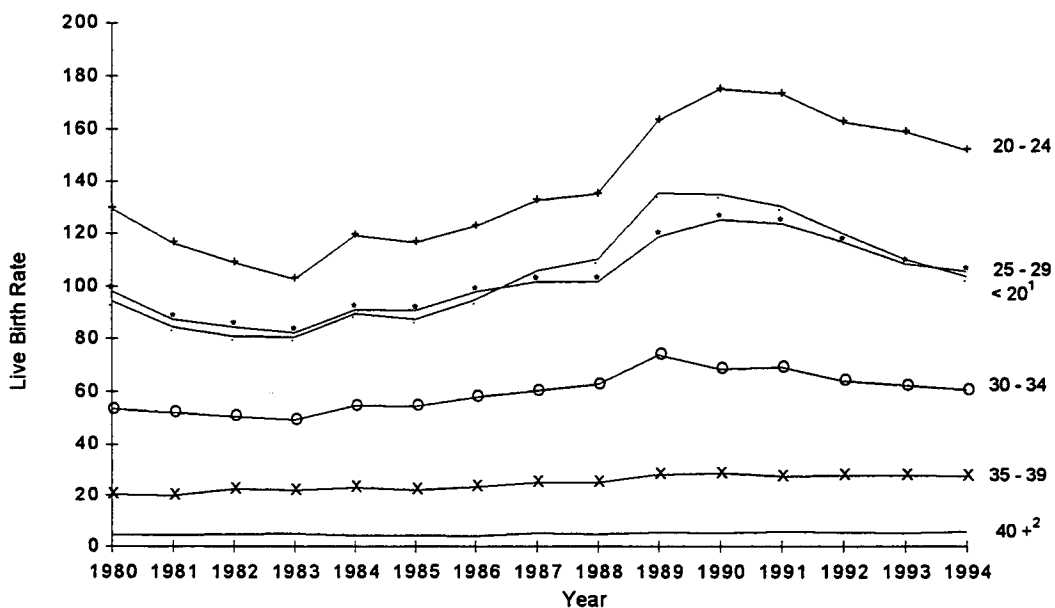
Figure 1.6
Age-Specific Live Birth Rates to White Mothers
Michigan Residents, 1980-1994



¹ Based on live births to women under 20 and population of females 15-19.
² Based on live births to women 40 and over and population of females 40-44.

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

Figure 1.7
Age-Specific Live Birth Rates to Black Mothers
Michigan Residents, 1980-1994



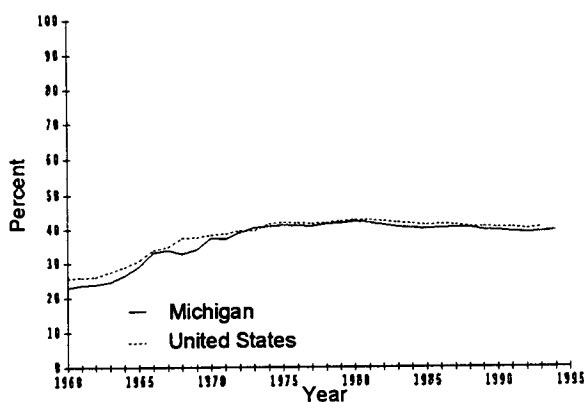
¹ Based on live births to women under 20 and population of females 15-19.
² Based on live births to women 40 and over and population of females 40-44.

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

BIRTH ORDER

The percent of live births which were first-order births is displayed in Figure 1.8 for Michigan and the United States for the period 1960 to 1994. 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 39.6 in 1994.

Figure 1.8
First Births as a Percentage of All Live Births
Michigan Residents, 1960-1994 and
United States Residents, 1960-1993



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

INTERPREGNANCY TIME PERIOD

In 1994 women having live births whose most recent prior termination was a fetal death had a median time span of 1 year and 9 months between their previous termination and a live birth (Table 1.5). This compares to a median of 2 years 8 months for women having prior live births. A spacing of less than one year was observed for 12.7 percent of all women reporting their most recent prior pregnancy was a fetal death, but only 1.8 percent of all women reporting their most recent prior pregnancy was a live birth.

Table 1.5
Live Births to Women Reporting Prior
Pregnancy Terminations¹ by Time Span
Between Last and Current Termination and
by Whether Prior Termination Resulted
in a Live Birth or a Fetal Death²
Michigan Residents, 1994³

Time Span In Years	Total		Prior Fetal Death		Prior Live Birth	
	Number	%	Number	%	Number	%
Total	90,218	100.0	21,577	100.0	68,641	100.0
<1	4,001	4.4	2,743	12.7	1,258	1.8
1 < 2	28,160	31.2	8,982	41.6	19,178	27.9
2 < 3	21,399	23.7	3,352	15.5	18,047	26.3
3 < 5	20,882	23.1	3,027	14.0	17,855	26.0
5 +	15,776	17.5	3,473	16.1	12,303	17.9
Median Time Span	2 yrs., 6 mos		1 yrs., 9 mos.		2 yrs., 8 mos.	

¹ Terminations with time spans of zero years (i.e., second or later births in plural deliveries) and terminations with unknown time spans are excluded.

² Fetal death as defined for the pregnancy history on the birth record is a fetal death of any gestational age.

³ The methodology for calculating interpregnancy time span was altered slightly in 1984. Hence, median time spans and percentages are not comparable to statistics published in prior years.

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

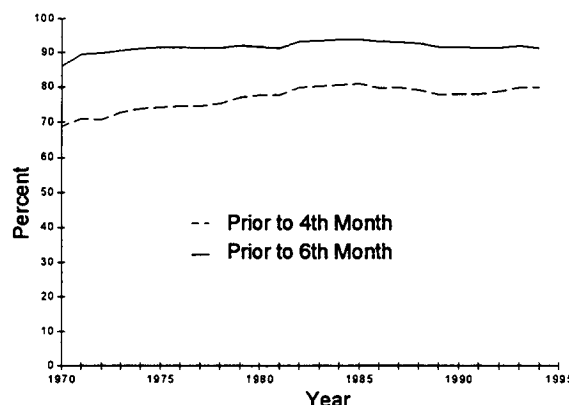
PRENATAL CARE

Trend Pregnant women are encouraged to initiate prenatal care during the first trimester and to receive care on a regular, prescribed basis until delivery occurs. The percentage of women delivering live born infants who initially obtained prenatal care in the first trimester of pregnancy increased steadily between 1970, when the figure was 69.0, and 1985 when it peaked at 81.0 (Figure 1.9). Since then it has fluctuated between 78.0 and 80.0. It was 80.0 percent in 1994.

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 1994, 84.2 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, 79.0 and 85.5 percent respectively. Lower percentages of black and American Indian mothers and mothers of Hispanic ancestry initiated care early, 64.0 to 74.6 percent.

Over 80 percent of live births to women aged 25 or over were to women who sought care promptly. The proportion fell to 39.5 percent for women under 15 years. About six in ten (62.8 percent) infants born to mothers 15-19 years of age were to mothers who received care early.

Figure 1.9
Percent of Women Having Live Births Who Received Care Prior to the 4th Month and 6th Month of Pregnancy
Michigan Residents, 1970-1994



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

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, 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 ¹of Live Births with Prenatal Care Beginning in the First Trimester by Age, Race and Ancestry of Mother
Michigan Residents, 1994

Age of Mother in Years	Race ²												Ancestry			
	Total		White		Black		Amer. Indian		Asian & P.I.		Other		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
< 15	157	39.5	48	39.0	107	39.8	1	*	1	*	-	-	-	-	12	46.2
15 - 19	10,704	62.8	6,982	67.2	3,509	55.5	117	68.4	66	53.2	4	*	136	77.7	530	59.4
20 - 24	25,656	74.5	19,352	78.8	5,760	63.3	206	71.0	271	72.7	13	59.1	553	86.5	913	65.2
25 - 29	33,860	85.1	28,839	88.0	4,048	70.1	170	81.3	640	81.8	16	69.6	686	85.3	783	73.8
30 - 34	28,037	87.2	24,611	89.9	2,613	70.2	91	80.5	539	82.2	16	84.2	531	88.6	575	77.7
35 - 39	10,252	85.0	8,802	87.8	1,134	68.8	38	74.5	194	87.8	11	84.6	227	81.9	214	78.1
40 +	1,558	81.5	1,320	84.7	189	67.5	4	*	35	68.6	1	*	74	85.1	30	75.0
Not Stated	26	78.8	18	81.8	8	80.0	-	-	-	-	-	-	-	-	2	*
Total	110,250	80.0	89,972	84.2	17,368	64.0	627	74.6	1,746	79.0	61	70.1	2,207	85.5	3,059	69.0

¹ Percent denominators obtained from column numbers in Table 1.2

² Live births with race unknown are in the "Total" column only.

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

No Care In 1994, 1,933 resident live births, or 14.0 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 23). Also, the lack of prenatal care was disproportionately high among black mothers (38.5 per 1,000 live births).

Adequacy of Care A measure of the quality of care has been developed by Dr. D. W. Kessner which combines information on the month prenatal care began, the gestational age at birth and the number of

prenatal visits (see Technical Notes). Adequate prenatal care was obtained by mothers of 74.3 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 (78.9 and 80.7 percent) were higher than the corresponding proportions for black and American Indian mothers (56.8 and 68.1 percent) and mothers of Hispanic ancestry (63.0 percent).

Inadequate care was received by the mothers of 9.4 percent of all live births. The proportions of live births to mothers who received inadequate care were 6.5 percent for white mothers, 9.6 to 13.7 percent for Asian and Pacific Islander mothers, American Indian mothers and mothers of Arab and Hispanic ancestry and 19.9 percent for black mothers.

Table 1.7
Live Births and Birth Ratios with No Prenatal Care by Age and Race of Mother
Michigan Residents, 1994

Age of Mother in Years	Race of Mother									
	Total		White		Black		All Other		Not Stated	
	Number	Ratio ¹	Number	Ratio ¹	Number	Ratio ¹	Number	Ratio ¹	Number	Ratio ¹
<15	17	42.8	6	48.8	10	37.2	1	*	-	-
15-19	468	27.4	194	18.7	267	42.2	7	23.7	-	-
20-24	571	16.6	255	10.4	298	32.7	17	25.6	1	*
25-29	433	10.9	195	5.9	227	39.3	10	10.1	1	*
30-34	268	8.3	115	4.2	148	39.8	3	*	2	*
35-39	146	12.1	65	6.5	80	48.5	1	*	-	-
40+	27	14.1	13	8.3	13	46.4	1	*	-	-
Not Stated	3	*	2	*	1	*	-	-	-	-
Total	1,933	14.0	845	7.9	1,044	38.5	40	13.1	4	*
Median Age at Last Birthday	23		24		23		24		29	

¹ Ratio denominators obtained from column numbers in Table 1.2.

Although the mothers of 80.0 percent of all live births received prenatal care during the first trimester, only 74.3 percent received adequate care as defined by the Kessner Index. Overall, this means that of the mothers who initiated prenatal care most promptly, 7.1 percent (7,878 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 (34,792 women), 22.6 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, 1994

Level of Prenatal Care (Kessner Index ¹)	Race ²												Ancestry			
	Total		White		Black		Amer. Indian		Asian & P.I.		Other		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Adequate	102,372	74.3	84,297	78.9	15,409	56.8	573	68.1	1,607	72.7	57	65.5	2,083	80.7	2,796	63.0
Intermediate	21,865	15.9	15,114	14.1	6,130	22.6	184	21.9	354	16.0	19	21.8	301	11.7	1,006	22.7
Inadequate	12,927	9.4	6,959	6.5	5,392	19.9	81	9.6	236	10.7	11	12.6	193	7.5	609	13.7
Unknown	680	0.5	458	0.4	198	0.7	3	*	12	0.5	-	-	5	*	24	0.5
Total	137,844	100.0	106,828	100.0	27,129	100.0	841	100.0	2,209	100.0	87	100.0	2,582	100.0	4,435	100.0

¹ 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.)

² Live births with race unknown are in the "Total" column only.

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

BIRTH WEIGHT

The mean weight for all live births was 3,333 grams or approximately 7 pounds 6 ounces (Table 1.9). The median weight was 3,374 grams or about 7 pounds 7 ounces. The median birth weight was lowest for infants born to black mothers, highest for white and American Indian mothers. The medians were somewhat lower for mothers of Arab and Hispanic ancestry. The median birth weight for infants born to Asian and Pacific Islander mothers was about 170 and 126 grams lower than the medians for infants born to white and American Indian

mothers and 113 grams higher than the median for infants born to black mothers.

Infants born to black mothers had a higher proportion of birth weights with extremely low birth weight below 750 grams (1.3 percent). Other race and ancestry groups had from 0.2 to 0.5 percent of the births below 750 grams. Infants born with this extremely low birth weight have very high mortality rates (over 65 percent mortality).

Table 1.9
Numbers and Percents of Live Births by Birth Weight, Race and Ancestry of Mother
Michigan Residents, 1994

Weight at Birth in Grams	Race ¹												Ancestry			
	Total		White		Black		Amer. Indian		Asian & P.I.		Other		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
< 750	724	0.5	352	0.3	350	1.3	2	*	9	0.4	3	*	10	0.4	24	0.5
750 - 1,499	1,477	1.1	864	0.8	593	2.2	6	0.7	8	0.4	1	*	26	1.0	40	0.9
1,500 - 2,499 ²	8,564	6.2	5,364	5.0	2,959	10.9	47	5.6	140	6.3	6	6.9	107	4.1	211	4.8
2,500 +	126,789	92.0	100,068	93.7	23,141	85.3	785	93.3	2,048	92.7	77	88.5	2,434	94.3	4,155	93.7
Not Stated	290	0.2	180	0.2	86	0.3	1	*	4	*	-	-	5	*	5	*
Total	137,844	100.0	106,828	100.0	27,129	100.0	841	100.0	2,209	100.0	87	100.0	2,582	100.0	4,435	100.0
Mean Weight	3,333		3,400		3,075		3,366		3,243		3,268		3,324		3,341	
Median Weight	3,374		3,430		3,147		3,386		3,260		3,387		3,370		3,374	

¹ Live births with race unknown are in the "Total" column only.

² In order to conform to national standards, the definition of low birthweight was changed in 1984 to less than 2,500 grams.

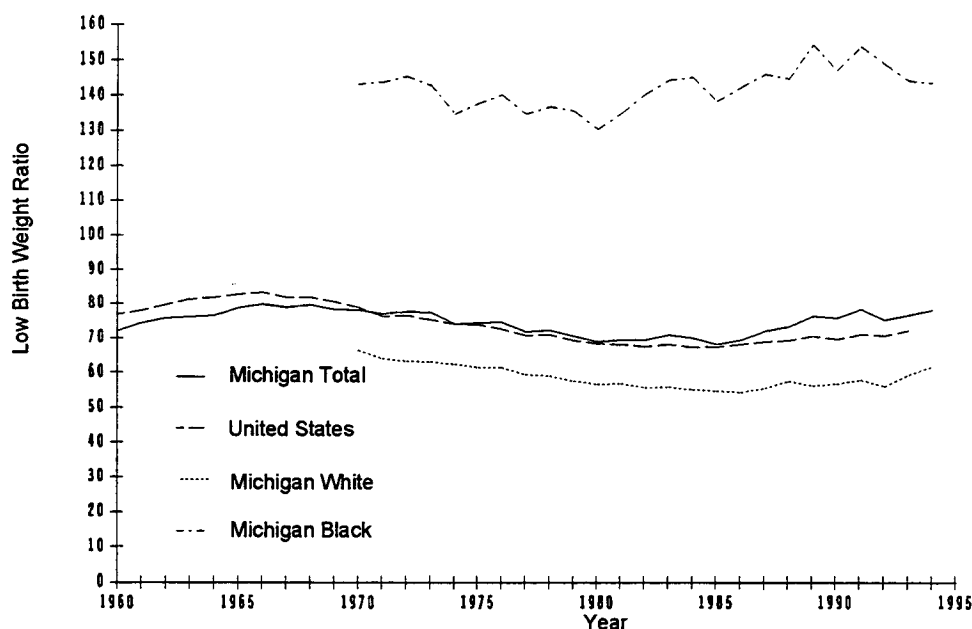
Source: Office of the State Registrar and Division of Health Statistics, MDPH

Low Birth Weight A subgroup of major importance when analyzing historical birth weight 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.

Figure 1.10 displays the percent of low birth weight infants born to Michigan and the United

States residents over the last thirty-five years. In 1960 7.2 percent of the live births in Michigan had low birth weight. Between 1960 and 1966 the percentage increased, reaching a high for the 33 year period (8.0). The percentage generally declined until 1985 when the percent was 6.8, the lowest rate since 1960. It rose to 7.8 in 1994. The pattern for the United States was similar between 1970 and 1985. By 1993 the low birth weight percentage for the nation had increased to 7.2 percent.

Figure 1.10
Low Birth Weight¹ Ratios
Michigan Residents by Race, 1960-1994 and United States Residents, 1960-1993



¹ Prior to 1984, low birth weight was defined as 2,500 grams or less. Starting with year 1984, low birth weight is defined as less than 2,500 grams in order to conform to national standards.

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

The low birth weight percentage for infants of black mothers was 14.4 percent compared with 5.5 to 6.5 percent for infants born to mothers of other races and ancestry groups (Table 1.10).

The low birth weight percent varied by adequacy of prenatal care as indicated by the Kessner Index. For the race and ancestry groups, the low birth weight percentages were between 1.3 and 2.1 times higher for infants born to mothers with inadequate care than to mothers with adequate prenatal care, with the exception of mothers of Arab ancestry, whose ratios were nearly equal. The ratios were generally 1.0 and 2.1 times higher for infants born to women with intermediate care than for women with adequate care.

At birth, 14.4 percent of the infants born to black women weighed less than 2,500 grams. Of infants born to black women with adequate care, a lower percentage (12.6) weighed less than 2,500 grams. The low weight ratio for infants born to black women with adequate care was higher than the ratio for infants born to women of other race and ancestry groups at any level of prenatal care. The low birth weight ratio was 1.9 to 2.6 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
Low Weight¹ Live Births and Low Birth Weight Percentages²
by Level of Prenatal Care, Race and Ancestry of Mother
Michigan Residents, 1994

Level of Prenatal Care (Kessner Index ³)	Race ⁴												Ancestry			
	Total		White		Black		Amer. Indian		Asian & P.I.		Other		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Adequate	6,808	6.7	4,686	5.6	1,944	12.6	34	5.9	108	6.7	8	14.0	102	4.9	165	5.9
Intermediate	2,005	9.2	1,118	7.4	844	13.8	11	6.0	27	7.6	-	-	31	10.3	62	6.2
Inadequate	1,866	14.4	730	10.5	1,077	20.0	10	12.3	20	8.5	2	*	9	4.7	47	7.7
Unknown	86	12.6	46	10.0	37	18.7	-	-	2	*	-	-	-	-	1	*
Total	10,765	7.8	6,580	6.2	3,902	14.4	55	6.5	157	7.1	10	11.5	142	5.5	275	6.2

¹ Less than 2,500 grams.

² Percent denominators obtained from column numbers in Table 1.8.

³ 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).

⁴ Live births with race unknown are in the "Total" column only.

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

CONGENITAL ANOMALIES

One or more congenital anomalies were reported on the birth certificate for 1,240 of the 137,844 resident live births in 1994 (Table 1.11). This translates to a rate of 90.0 per 10,000 live births.

The method of reporting congenital anomalies on the birth record was altered with the 1989 birth certificate. The 1989 and later rates based on check-box format reporting are not comparable to rates obtained in previous years by literal entries.

While the check-box reporting format may help reduce the level of under reporting of congenital anomalies, the frequency of reporting of specific anomalies is affected by the reporting schedule.

Many conditions may not be apparent at the time the birth certificate is completed and filed. A more complete reporting of congenital anomalies is provided by the Birth Defects Registry in the Office of the State Registrar and Division for Health Statistics.

The congenital anomaly rate of 98.1 per 10,000 live births to white mothers was 71.8 percent higher than the rate of 57.1 for live births to black mothers and 6.2 percent higher than the rate of 92.4 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 under 20 years of age and over 40 years of age.

Table 1.11
Live Births with Congenital Anomalies Reported and Congenital Anomaly Rates¹
by Age and Race of Mother
Michigan Residents, 1994

Age of Mother in Years	Race of Mother									
	Total		White		Black		All Other		Unknown	
	Number	Rate ²	Number	Rate ²	Number	Rate ²	Number	Rate ²	Number	Rate ²
<15	2	*	-	-	2	*	-	-	-	-
15-19	173	101.5	130	125.2	37	58.5	5	*	1	*
20-24	313	90.9	257	104.7	46	50.5	10	146.0	-	-
25-29	347	87.2	307	93.6	33	57.2	4	*	3	*
30-34	285	88.7	253	92.4	22	59.1	8	101.5	2	*
35-39	102	84.5	85	84.8	14	84.9	2	*	1	*
40+	17	88.9	15	96.3	1	*	-	-	1	*
Not Stated	1	*	1	*	-	-	-	-	-	-
Total	1,240	90.0	1,048	98.1	155	57.1	29	92.4	8	106.7
Median Age at Last Birthday	27		27		23		24		31	

¹ Number of live births with congenital anomalies reported per 10,000 live births.

² Rate denominator obtained from column numbers in Table 1.2.

MEDICAL FACTORS ASSOCIATED WITH DELIVERY AND/OR LABOR

Complications of Pregnancy There were 35,583 deliveries (25.8 percent) reported with one or more complications of labor and/or delivery in 1994 (Table 1.12). Among the most commonly reported complications were moderate/heavy meconium (7,882 cases), fetal distress (6,305 cases), breech/malpresentation of fetus (5,916 cases), premature rupture of membranes (5,246 cases) and dysfunctional labor (5,170 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.

Table 1.12
**Numbers and Percents of Live Births by
Complications of Labor/Delivery, Race and Ancestry of Mother
Michigan Residents, 1994**

Complications of Labor/Delivery	Race ¹												Ancestry			
	Total		White		Black		Amer. Indian		Asian & P.I.		Other		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Meconium, moderate/heavy	7,882	5.7	5,468	5.1	2,191	8.1	52	6.2	120	5.4	6	6.9	104	4.0	294	6.6
Fetal distress	6,305	4.6	4,935	4.6	1,195	4.4	27	3.2	81	3.7	9	10.3	118	4.6	173	3.9
Breech/malpresentation	5,916	4.3	4,950	4.6	793	2.9	44	5.2	93	4.2	4	*	97	3.8	169	3.8
Premature rupture of membranes (>12 hours)	5,246	3.8	4,174	3.9	866	3.2	33	3.9	127	5.7	7	8.0	70	2.7	179	4.0
Dysfunctional labor	5,170	3.8	4,260	4.0	726	2.7	36	4.3	97	4.4	4	*	52	2.0	161	3.6
Cephalopelvic disproportion	3,175	2.3	2,789	2.6	291	1.1	23	2.7	55	2.5	4	*	25	1.0	115	2.6
Precipitate labor (< 3 hours)	2,773	2.0	2,273	2.1	413	1.5	21	2.5	57	2.6	1	*	31	1.2	88	2.0
At least one complication	35,583	25.8	28,345	26.5	6,090	22.4	234	27.8	644	29.2	30	34.5	530	20.5	1,162	26.2
Total Live Births	137,844	100.0	106,828	100.0	27,129	100.0	841	100.0	2,209	100.0	87	100.0	2,582	100.0	4,435	100.0

¹ Live births with race unknown are in the "Total" column only.

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

Behavioral Risk Factors Mothers who smoked while pregnant accounted for 18.5 percent (25,468) of the live births in 1994 (Table 1.13). These data are consistent with statewide sample survey data. The reported percentage of live births to mothers who smoked while pregnant was highest for American Indian mothers (35.9 percent), was lower and relatively similar for white and black mothers (19.2 and 16.7 percent, respectively). Fewer mothers of Hispanic ancestry reported smoking during pregnancy than white or black mothers (10.7 percent). Asian and Pacific Islander mothers and mothers of Arab ancestry had the lowest percentages of reported smoking during their pregnancy.

Only 2,391 (1.7 percent) of the birth certificates indicated the mother drank alcohol while pregnant.

Based on other studies it is generally believed that reported numbers of mothers who drank while pregnant as obtained from certificates of live birth under report the frequency of this risk factor.

A weight gain during pregnancy of less than sixteen pounds was reported for mothers of 9.5 percent (13,144) of the live births. The percentage was higher for black mothers.

Table 1.13
Numbers and Percents of Live Births by Maternal Risk Factors, Race and Ancestry of Mother
Michigan Residents, 1994

Maternal Risk Factors	Race ¹												Ancestry			
	Total		White		Black		Amer. Indian		Asian & P.I.		Other		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Mother smoked while pregnant	25,468	18.5	20,493	19.2	4,527	16.7	302	35.9	63	2.9	5	*	141	5.5	473	10.7
Weight gain less than 16 pounds while pregnant	13,144	9.5	8,901	8.3	3,927	14.5	85	10.1	168	7.6	8	9.2	184	7.1	492	11.1
Mother drank alcohol while pregnant	2,391	1.7	1,595	1.5	750	2.8	21	2.5	8	0.4	2	*	3	*	62	1.4
Total Live Births	137,844	100.0	106,828	100.0	27,129	100.0	841	100.0	2,209	100.0	87	100.0	2,582	100.0	4,435	100.0

¹ Live births with race unknown are in the "Total" column only.

Medical Risk Factors For 18.3 percent (25,230) of the 137,844 resident live births occurring in 1994, the mother had at least one medically relevant risk factor (Table 1.14). The most commonly specified medical risk factor was pregnancy-related hypertension which occurred in mothers of 3.6 percent (4,990) of the live births. The next most common maternal medical risk factors were diabetes and anemia which occurred in mothers of 2.7 percent (3,721) and 2.1 percent (2,931) of the live births. Drug use was reported on 1.0 percent of all live birth records.

The most common maternal medical risk factors varied among race and ancestry groups. Pregnancy-related hypertension and diabetes were the most common risk factors for white, American Indian and Hispanic mothers; drug use, anemia and pregnancy-related hypertension were the most common for black mothers; and diabetes was most common for Asian and Pacific Islander mothers and mothers of Arab ancestry.

Table 1.14
Numbers and Percents of Live Births by Medical Risk Factors, Race and Ancestry of Mother
Michigan Residents, 1994

Risk Factors	Race ¹												Ancestry			
	Total		White		Black		Amer. Indian		Asian & P.I.		Other		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Hypertension, pregnancy-associated	4,990	3.6	4,159	3.9	730	2.7	29	3.4	44	2.0	5	*	42	1.6	139	3.1
Diabetes	3,721	2.7	3,074	2.9	498	1.8	31	3.7	83	3.8	4	*	62	2.4	130	2.9
Anemia (Hct. 30/Hgb. 10)	2,931	2.1	2,010	1.9	821	3.0	18	2.1	49	2.2	5	*	54	2.1	92	2.1
Rh sensitive	1,784	1.3	1,640	1.5	119	0.4	10	1.2	3	*	5	*	48	1.9	26	0.6
Previous infant 4000+ grams	1,729	1.3	1,635	1.5	65	0.2	14	1.7	4	*	4	*	19	0.7	50	1.1
Previous preterm or small-for-gestational age infant	1,606	1.2	1,332	1.2	234	0.9	13	1.5	20	0.9	-	-	26	1.0	53	1.2
Drug use	1,318	1.0	466	0.4	834	3.1	10	1.2	6	0.3	-	-	2	*	28	0.6
At least one medical risk ²	25,230	18.3	19,715	18.5	4,891	18.0	168	20.0	297	13.4	26	29.9	343	13.3	730	16.5
Total Live Births	137,844	100.0	106,828	100.0	27,129	100.0	841	100.0	2,209	100.0	87	100.0	2,582	100.0	4,435	100.0

¹ Live births with race unknown are in the "Total" column only.

² Does not equal the sum of risk factors specified because mothers may have multiple risk factors.

Method of Delivery Vaginal delivery was the most common method of delivery in 1994, accounting for 81.5 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 1994 about 25.5 percent of the mothers with a previous C-section had a vaginal delivery.

Primary C-sections were performed in 12.8 percent of the live births and repeat C-sections were performed in 7.7 percent of the live births. 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.

Black and American Indian mothers and mothers of Arab and Hispanic ancestry had lower proportions of live births delivered by primary C-section. These groups either have achieved or are close to achieving the national goal for primary C-sections. White 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, 1994

Procedures During and Method of Delivery	Race ¹												Ancestry			
	Total		White		Black		Amer. Indian		Asian & P.I.		Other		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Procedures																
Vacuum	4,976	3.6	4,294	4.0	515	1.9	31	3.7	106	4.8	3	*	79	3.1	157	3.5
Forceps	3,635	2.6	2,871	2.7	657	2.4	10	1.2	60	2.7	6	6.9	83	3.2	88	2.0
Method																
Vaginal	108,653	78.8	83,632	78.3	21,931	80.8	666	79.2	1,781	80.6	66	75.9	2,178	84.4	3,577	80.7
Primary C-section	17,686	12.8	13,731	12.9	3,431	12.6	99	11.8	306	13.9	12	13.8	254	9.8	503	11.3
Repeat C-section	10,619	7.7	8,688	8.1	1,699	6.3	70	8.3	111	5.0	5	*	122	4.7	326	7.4
Vaginal birth after previous C-section	3,629	2.6	2,985	2.8	561	2.1	18	2.1	54	2.4	1	*	58	2.2	133	3.0
Unknown	886	0.6	777	0.7	68	0.3	6	0.7	11	0.5	4	*	28	1.1	29	0.7
Total Live Births	137,844	100.0	106,828	100.0	27,129	100.0	841	100.0	2,209	100.0	87	100.0	2,582	100.0	4,435	100.0

¹ Live births with race unknown are in the "Total" column only.

Abnormal Conditions at Birth In 1994, 14,365 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 (2.3 percent). The next two most frequent abnormal conditions were a five minute Apgar under 7 and hyaline membrane dis-

ease/RDS (Respiratory Distress Syndrome), respectively.

For infants born to black women, assisted ventilation <30 minutes (2.6 percent) and a low Apgar score at five minutes (2.3 percent) were reported most frequently.

Table 1.16
Numbers and Percents of Live Births with Abnormal Conditions by Race
and Ancestry of Mother
Michigan Residents, 1994

Abnormal Conditions	Race ¹												Ancestry			
	Total		White		Black		Amer. Indian		Asian & P.I.		Other		Arab		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Assisted ventilation < 30 minutes	3,104	2.3	2,335	2.2	715	2.6	14	1.7	36	1.6	2	*	57	2.2	74	1.7
5 minute Apgar < 7	1,897	1.4	1,229	1.2	620	2.3	9	1.1	21	1.0	3	*	18	0.7	57	1.3
Hyaline membrane disease/ RDS	1,484	1.1	1,121	1.0	335	1.2	9	1.1	13	0.6	1	*	29	1.1	52	1.2
Assisted ventilation > 30 minutes	1,187	0.9	880	0.8	277	1.0	13	1.5	11	0.5	2	*	25	1.0	28	0.6
Meconium aspiration	566	0.4	316	0.3	227	0.8	4	*	16	0.7	1	*	21	0.8	19	0.4
At least one condition	14,365	10.4	10,992	10.3	3,068	11.3	65	7.7	173	7.8	17	19.5	216	8.4	428	9.7
Total Live Births	137,844		106,828		27,129		841		2,209		87		2,582		4,435	

¹ Live births with race unknown are in the "Total" column only.

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

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 1994 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 1.17 shows that births in the four border states comprise 89.8 percent of all resident live births that occurred out of state. Live births to Michigan residents occurred in 38 of the 50 states and in Canada in 1994.

Non-resident Births The number of nonresident live births that occurred in Michigan in 1994 was 437. 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 77.1 percent of these events, as shown in Table 1.17. There were live births in Michigan to residents of 32 states, Puerto Rico and at least 6 foreign countries.

Table 1.17
Michigan Live Births
Occurring Outside Michigan to Michigan Residents by Place of Occurrence
and Occurring in Michigan to Non-Michigan Residents by Place of Residence, 1994

Geographic Area	Live Births to Residents Occurring Outside Michigan		Live Births to Non-residents Occurring in Michigan	
	Number	Percent	Number	Percent
Total	1,586	100.0	437	100.0
Ohio	795	50.1	53	12.1
Indiana	377	23.8	71	16.2
Wisconsin	224	14.1	174	39.8
Illinois	28	1.8	17	3.9
Georgia	18	1.1	5	*
Minnesota	12	0.8	1	*
California	10	0.6	3	*
Florida	9	0.6	13	3.0
Tennessee	9	0.6	2	*
Virginia	8	0.5	7	1.6
Pennsylvania	7	0.4	2	*
Texas	7	0.4	15	3.4
Louisiana	5	*	1	*
Missouri	5	*	2	*
Arkansas	4	*	1	*
New York	4	*	10	2.3
Kentucky	2	*	3	*
New Jersey	2	*	1	*
Other States	54	3.4	25	5.7
Other Countries	5	*	29	6.6
Unknown	1	*	2	*

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

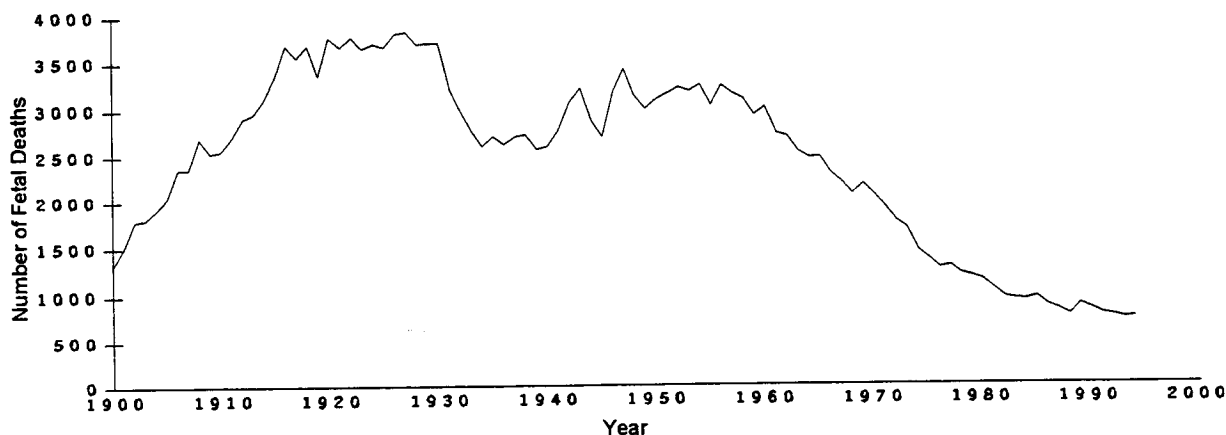
FETAL DEATHS

There were 1,325 fetal deaths reported in Michigan in 1900. The number of reported fetal deaths increased from 1900 through 1927, the peak year in this century, with 3,834 fetal deaths. The reported number of fetal deaths generally decreased in the 1930's, increased in the 1940's and decreased after 1950 (Figure 1.11 and Table 1.18).

In 1994 the number of resident fetal deaths was 731.

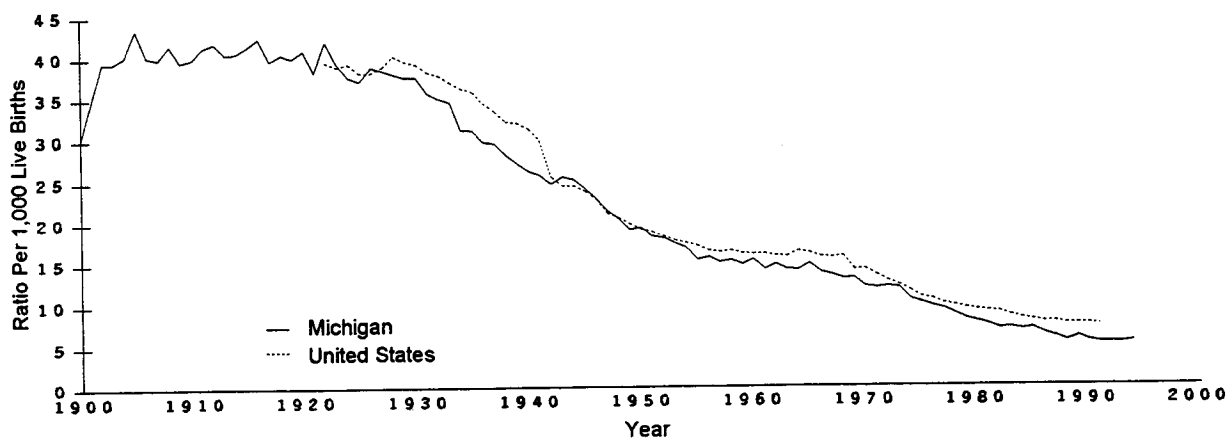
The fetal death ratio for Michigan has declined through most of the twentieth century (Figure 1.12 and Table 4.2). The ratio rose from 30.3 in 1900 to its peak of 43.5 fetal deaths per 1,000 live births in 1905. In 1922, Michigan's fetal death ratio was 42.0, marking a turning point, as fetal death ratios have generally declined since that year. The ratios in 1991 through 1993 were 5.2. The fetal death ratio increased slightly in 1994 to 5.3.

Figure 1.11
Fetal Deaths
Michigan Residents, 1900-1994



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

Figure 1.12
Fetal Death Ratios
Michigan Residents, 1900-1994 and United States¹ Residents, 1922-1991



¹ United States ratios prior to 1933 are for registration areas only. United States ratios are based on three different definitions of fetal death:
 1) Prior to 1942 - all reported fetal deaths regardless of period of gestation
 2) 1942 to 1968 - fetal deaths with gestation age 20 weeks or more or not stated
 3) 1969 to current - fetal deaths of stated or presumed period of gestation of 20 or more weeks

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

Table 1.18
Fetal Deaths and Fetal Death Ratios
 Michigan and United States Residents
 Selected Years, 1900-1994

United States		Year	Michigan	
Fetal Deaths	Fetal Death Ratios		Fetal Deaths	Fetal Death Ratios
---	---	1900	1,325	30.3
86,466	39.2	1930	3,714	37.6
68,480	16.1	1960	3,008	15.4
52,961	14.2	1970	2,060	12.0
33,796	10.7	1975	1,356	10.1
33,353	9.2	1980	1,135	7.8
32,596	9.0	1981	1,040	7.4
32,694	8.9	1982	954	6.9
30,752	8.5	1983	933	7.0
30,099	8.2	1984	929	6.8
29,661	7.9	1985	953	6.9
28,972	7.7	1986	865	6.3
29,349	7.7	1987	824	5.9
29,442	7.5	1988	761	5.4
30,469	7.5	1989	881	5.9
31,386	7.5	1990	830	5.4
30,160	7.3	1991	775	5.2
N.A.	N.A.	1992	755	5.2
N.A.	N.A.	1993	726	5.2
N.A.	N.A.	1994	731	5.3

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

Michigan's fetal death ratios have been below the national ratios 61 of the 70 years for which national data are available. The last time the United States ratio was below the Michigan ratio was in 1950. In 1991, the Michigan ratio of 5.2 was 28.8 percent below the national ratio of 7.3. It should be noted that since 1978 fetal deaths in Michigan are comprised of infants born dead who had passed through 20 weeks gestation or weighed 400 grams or more. This definition is different from that of most states. This difference should result in Michigan having slightly higher fetal death rates than would be observed if Michigan had adopted the definition used in most states.

CAUSES OF FETAL DEATH

A classification of fetal deaths by underlying cause of death is contained in Table 1.19. In 1994, 283 of the total 731 deaths were assigned to the category of "other and ill-defined conditions originating in the perinatal period". Nearly half (44.0 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 66 fetal deaths. This includes such complications as premature rupture of membranes, multiple pregnancy, and incompetent cervix.

Table 1.19
Fetal Deaths and Fetal Death Ratios by Underlying Cause of Death
 Michigan Residents, 1994

ICD. No. ¹	Cause of Death	Frequency	Ratio ²
779	Other and ill-defined conditions originating in the perinatal period	283	205.3
762	Fetus or newborn affected by complications of placenta, cord and membranes	197	142.9
761	Fetus or newborn affected by maternal complications of pregnancy	66	47.9
760	Fetus or newborn affected by maternal conditions which may be unrelated to present pregnancy	38	27.6
740-759	All congenital anomalies combined	81	58.8
	All other causes	66	47.9
740-779	All Causes	731	530.3

¹ Ninth Revision of the International Classification of Diseases, WHO.

² Ratios per 100,000 resident live births.

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

AGE, RACE AND ANCESTRY

The overall fetal death rate per 1,000 total births (live births plus fetal deaths) was 5.3 in 1994. In Table 1.20, information is presented by the race of the mother for fetal deaths and live births. It appears that mothers under age 20 and over age 39 plus black and American Indian mothers have a greater risk of delivering a stillborn fetus.

Mothers of Hispanic and Arab ancestry had lower fetal death rates than the state overall rate.

Table 1.20
Fetal Deaths, Total Births and Fetal Death
Rates by Age, Race and Ancestry of Mother
Michigan Residents, 1994

Age and Race of Mother	Fetal Deaths	Total Births	Rate Per 1,000 Total Births
Age			
<15 Years	4	401	*
15-19 Years	99	17,150	5.8
20-24 Years	154	34,602	4.5
25-29 Years	164	39,953	4.1
30-39 Years	253	44,467	5.7
40+	15	1,927	7.8
Not Stated	42	75	560.0
Race			
White	511	107,339	4.8
Black	183	27,312	6.7
American Indian	11	852	12.9
Asian & P.I.	9	2,218	4.1
All Other Races	-	87	-
Not Stated	17	767	22.2
Ancestry			
Arab	6	2,588	2.3
Hispanic	17	4,452	3.8
Total	731	138,575	5.3

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

FETAL WEIGHT

Among live births, the percentage of infants weighing less than 2,500 grams at birth was 7.8 percent. The comparable percent among fetal deaths was 77.6 (Table 1.21). The percentage of live born infants weighing less than 750 grams was 0.5 percent, while 43.9 percent of the fetal deaths weighed less than 750 grams.

Table 1.21
Fetal Deaths by Fetal Weight
Michigan Residents, 1994

Weight in Grams	Fetal Deaths	Cum. Percent
<750	321	43.9
750-1,499 Grams	116	59.8
1,500-2,499 Grams	130	77.6
2,500 +	148	97.8
Unknown	16	100.0
Total	731	100.0

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

MEDICAL AND OTHER RISK FACTORS FOR FETAL DEATHS

In 1994, 269 fetal deaths, or 36.8 percent of all fetal deaths, occurred to women who were reported to have at least one medical or other birth-related risk factor (Table 1.22). The category "All Other Risk Factors" was reported for 248 fetal deaths. The most frequent specific risk factor mentioned was tobacco use during pregnancy; 159 or 21.8% of all fetal deaths. The next most common risk factor associated

with fetal deaths was hydramnios/oligohydramnios (38 fetal deaths).

The highest fetal death rate associated with risk factors occurred among women giving birth with reported hydramnios or oligohydramnios (20.9). The next highest fetal death rate occurred to women with reported uterine bleeding (19.4).

Table 1.22
Numbers and Percents of Fetal Deaths, and Fetal Death Rates
by Medical and Other Risk Factors
Michigan Residents, 1994

Risk Factors of Mother	Number of Fetal Deaths	Percent of Fetal Deaths	Fetal Death Rate
Tobacco use during pregnancy	159	21.8	6.2
Hydramnios/oligohydramnios	38	5.2	20.9
Uterine bleeding	30	4.1	19.4
Alcohol use during pregnancy	25	3.4	10.3
Diabetes	26	3.6	6.9
All other risk factors	248	33.9	10.7
At least one risk factor	269	36.8	10.5

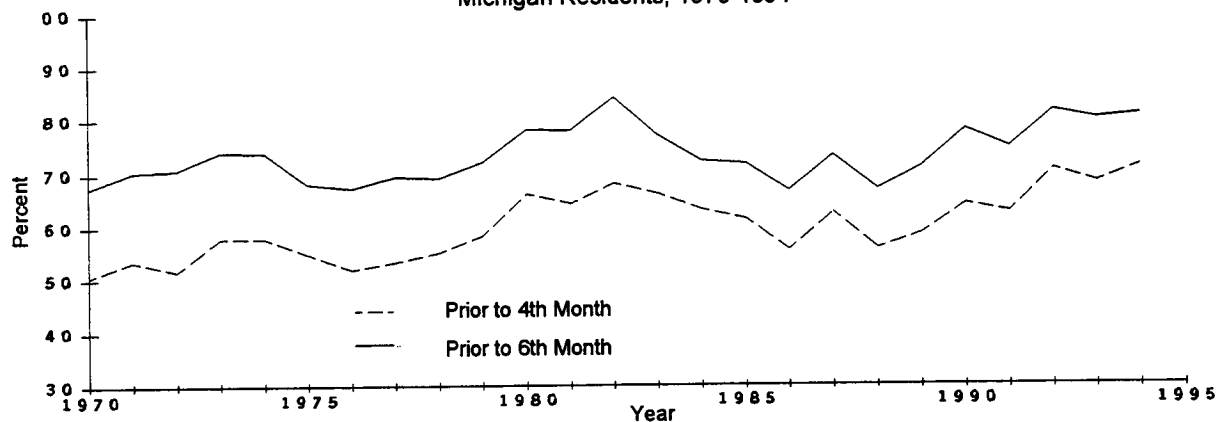
Source: Office of the State Registrar and Division of Health Statistics, MDPH

PRENATAL CARE

The proportion of all fetal deaths in 1994 that were to women who reported receiving care prior to the fourth month of pregnancy was 71.3 with 80.7 percent receiving care prior to the sixth month (Figure 1.13). The percentage of fetal deaths where the mother received care prior to the fourth and sixth month generally increased until 1982 (Figure 1.13) and declined between 1983 and 1986 to the lowest level in the decade. The percentages have generally increased since 1987.

The relationship between the fetal death rates and the Kessner Index of adequacy of care is displayed in Table 1.23. Since the Kessner Index adjusts for gestational age at birth, a bias towards inadequate care should not result because of the short gestational age for most fetal deaths. The fetal death rate increased as the quality of prenatal care measured by the Kessner Index decreased. The rate was 3.6 per 1,000 total births (fetal deaths and live births) born to women receiving adequate prenatal care. The rate increased to 6.5 and 10.4 for births to women receiving intermediate and inadequate levels of care respectively.

Figure 1.13
Percent of Women Having Fetal Deaths who Received Care Prior to the 4th Month
and the 6th Month of Pregnancy
Michigan Residents, 1970-1994



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

Table 1.23
Fetal Deaths, Total Births and Fetal Death Rates by Level of Prenatal Care and Race¹ of Mother
Michigan Residents, 1994

Level of Care (Kessner Index ²)	Race of Mother											
	All Races			White			Black			All Other		
	Fetal Deaths	Total Births	Fetal Death Rates	Fetal Deaths	Total Births	Fetal Death Rates	Fetal Deaths	Total Births	Fetal Death Rates	Fetal Deaths	Total Births	Fetal Death Rates
Adequate	369	102,741	3.6	296	84,593	3.5	57	15,466	3.7	11	2,248	4.9
Intermediate	143	22,008	6.5	92	15,206	6.1	43	6,173	7.0	5	562	*
Inadequate	136	13,063	10.4	77	7,036	10.9	54	5,446	9.9	1	329	*
Unknown	83	763	108.8	46	504	91.3	29	227	127.8	3	18	*
Total	731	138,575	5.3	511	107,339	4.8	183	27,312	6.7	20	3,157	6.3

¹ Race not stated included in total columns only.

² The Kessner Index is a classification of prenatal care based on the month of pregnancy prenatal care began, the number of prenatal visits, and the length of pregnancy (i.e., for shorter pregnancies, fewer prenatal visits constitute adequate care).

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

MORTALITY

SECTION II



MORTALITY

OVERVIEW

In 1994 there were 82,644 deaths recorded for Michigan residents, 358 more than in the previous year. The crude death rate per 1,000 population was 8.8, 1.1 percent higher than the rate of 8.7 observed in 1993 (Table 2.1). The age-adjusted death rate decreased in 1994, being 0.1 percent lower than the age-adjusted rate for 1993. The age-adjusted rate serves as a better measure of mortality 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 1,184 infant deaths in 1994, 135 fewer than in 1993. This is a 10.2 percent decrease. In the previous year there was a 9.7 percent decrease. The 1994 infant death rate of 8.6 was 9.5 percent lower than the 1993 rate of 9.5, while the neonatal death rate dropped from 6.1 to 5.6 in 1994 (8.2% decrease). The infant mortality rate has decreased more in the four years since 1990 than in the 1950's, 1960's and 1980's. Only the decade between 1970 and 1980 had a larger decrease (36.9 percent) than has been observed during the last four years (19.6 percent).

An Overview, 1994

Resident Deaths	82,644
Crude Death Rate	8.8
Infant Deaths	1,184
Infant Death Rate	8.6
Neonatal Deaths	775
Neonatal Death Rate	5.6
Perinatal Deaths	1,388
Perinatal Death Rate	10.0
Maternal Deaths	8
Maternal Death Rate	5.8
Deaths from Heart Disease per Day	77.2
Deaths from Cancer per Day	53.2
Deaths from Stroke per Day	15.6
Deaths from C.O.P.D. per Day	9.4
Median Age at Death	75
Median Age at Death for Males	72
Median Age at Death for Females	79

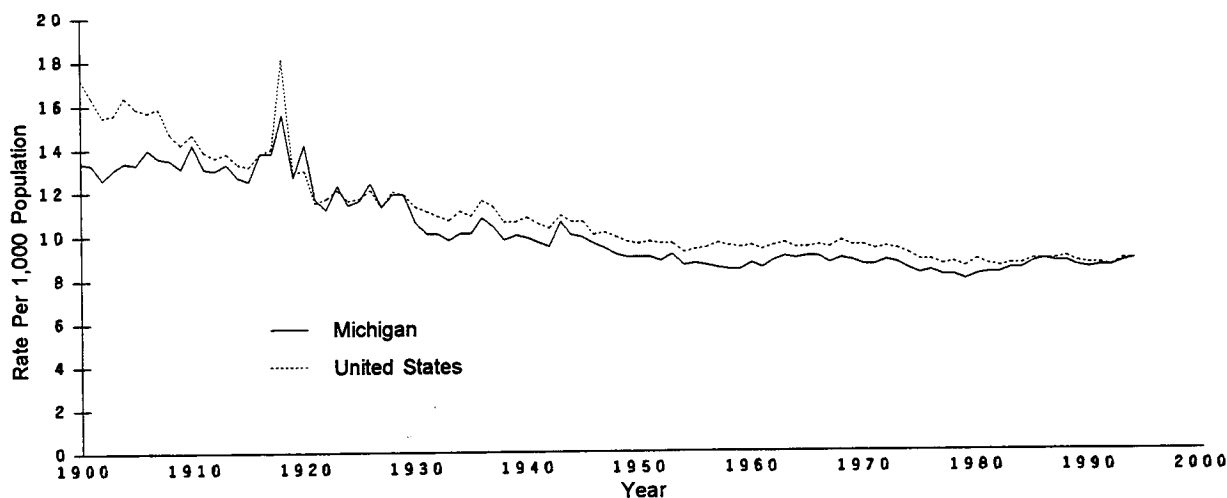
Source: Office of the State Registrar and Division of Health Statistics, MDPH

TRENDS IN MICHIGAN

Between 1900 and 1994 the number of deaths occurring to Michigan residents increased from 32,453 to 82,644. 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 1994 was the greatest number of resident deaths ever recorded in Michigan (Table 4.1).

Although the total number of deaths increased between 1900 and 1994, the increase is due to an aging and increasing population. The crude death rate decreased from 13.4 (per 1,000 population) in 1900 to 8.8 in 1994. 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 Rates¹
Michigan and United States² Residents, 1900 - 1994



¹ 1992 estimated population is being used to calculate 1992-1994 rates.

² United States rates for 1971-1979 have been revised using population estimates based on the 1980 Census enumeration. United States rate for 1993 and 1994 are provisional.

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

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 - 1994 is presented in Table 2.1. Between 1970 and 1984, the Michigan rates were below the United States rates. Since 1985 Michigan and United States rates have been equal or close. The Michigan rates increased slightly between 1970 and 1994, while national rates decreased 7.4 percent in the same time period

Table 2.1
Number of Deaths and Crude Death Rates¹
Michigan and United States Residents, 1970 - 1994

United States		Year	Michigan	
Number	Rate ¹		Number	Rate
1,921,031	9.5	1970	76,321	8.6
1,927,542	9.3	1971	77,395	8.6
1,963,944	9.4	1972	79,210	8.8
1,973,003	9.3	1973	78,522	8.7
1,934,388	9.1	1974	76,143	8.4
1,892,879	8.8	1975	74,522	8.2
1,909,440	8.8	1976	75,801	8.3
1,899,597	8.6	1977	74,144	8.1
1,927,788	8.7	1978	74,773	8.1
1,913,841	8.5	1979	73,480	7.9
1,989,841	8.8	1980	74,991	8.1
1,977,981	8.6	1991	75,818	8.2
1,974,797	8.5	1982	75,536	8.2
2,019,201	8.6	1983	76,639	8.4
2,039,369	8.6	1984	76,401	8.4
2,086,440	8.7	1985	78,635	8.7
2,105,361	8.7	1986	80,177	8.8
2,123,323	8.7	1987	79,795	8.7
2,167,999	8.8	1988	80,075	8.7
2,150,466	8.7	1989	78,566	8.5
2,148,463	8.6	1990	78,501	8.4
2,169,518	8.6	1991	79,738	8.5
2,175,613	8.5	1992	78,916	8.5
2,268,000Pr.	8.8Pr.	1993	82,286	8.7
2,286,000Pr.	8.8Pr.	1994	82,644	8.8

¹ 1992 estimated population is used to calculate 1993 and 1994 rates.

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

MORTALITY DIFFERENCES BY SEX AND RACE

Over the period 1970-1994 the age-adjusted death rates for Michigan males and females were usually slightly higher than the national rates. During the last ten years Michigan female rates were 3.2 to 6.6 percent higher than the national rates, while Michigan male rates fluctuated from 1.1 percent lower to 3.4 percent higher than the national rates (Figure 2.2).

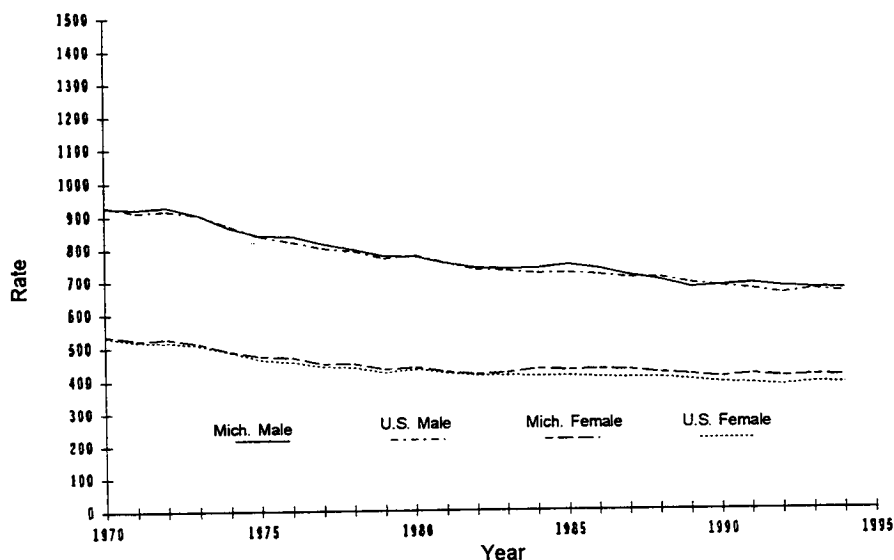
The national and Michigan age-adjusted death rates displayed in Figure 2.3 were similar for white males, while the Michigan white female rates were from 0.3 to 4.6 percent higher than the national white female rates.

Michigan age-adjusted death rates for black males and females were similar to national rates before 1981 (Figure 2.4). After 1980 the Michigan black male rates were 0.6 to 9.0 percent higher and Michigan black female rates were 0.6 to 11.0 percent higher than rates for their national counterparts.

Mortality rate disparities between the black and white population increased during the last twenty-four years. Michigan age-adjusted rates for black males and females were 43.3 and 54.2 percent higher than their white counterparts in 1970. By 1994 black male and female rates were 79.5 and 59.7 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 13.9 and 23.6 percent, respectively. The United States rates for these groups declined by 20.8 and 29.6 percent, respectively, during this period. The Michigan rates for white males and females declined 31.3 and 26.2 percent, while national rates dropped 30.3 and 27.0 percent, respectively.

Figure 2.2
Total Age-Adjusted Death Rates¹ by Sex
Michigan² and United States³ Residents, 1970 - 1994

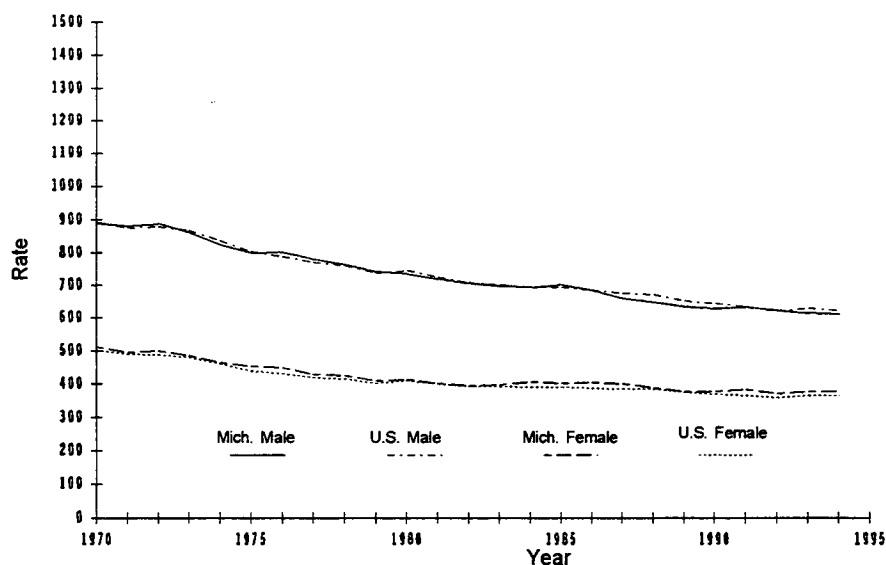


¹ 1992 estimated population is used to calculate 1993 and 1994 rates. Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940; see Technical Notes.

² Michigan rates for 1981-1985 have been revised based upon revisions to population estimates; see Technical Notes.

³ United States data for 1993 and 1994 are provisional.

Figure 2.3
White Age-Adjusted Death Rates¹ by Sex
 Michigan² and United States³ Residents, 1970 - 1994



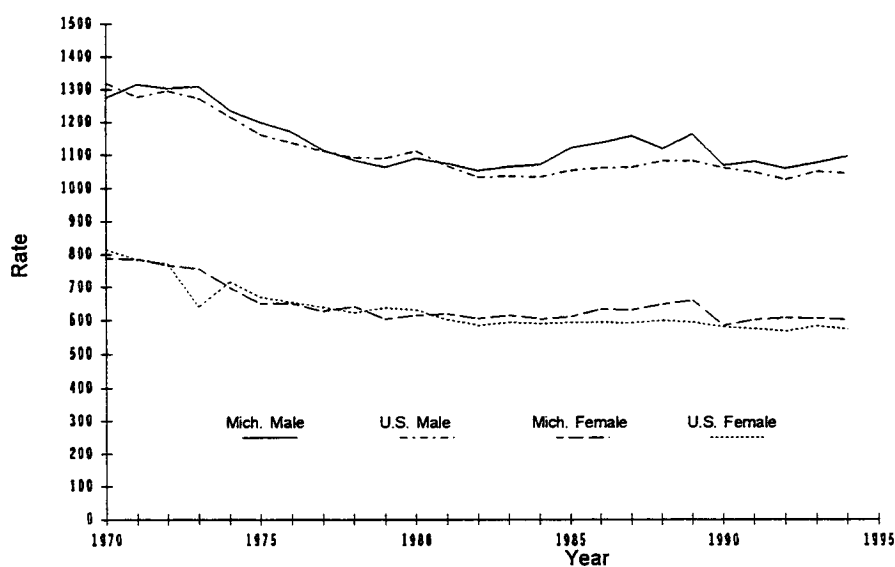
¹ 1992 estimated population is used to calculate 1993 and 1994 rates. Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940; see Technical Notes.

² Michigan rates for 1981-1985 have been revised based upon revisions to population estimates; see Technical Notes.

³ United States data for 1993 and 1994 are provisional.

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

Figure 2.4
Black Age-Adjusted Death Rates¹ by Sex
 Michigan² and United States³ Residents, 1970 - 1994



¹ 1992 estimated population is used to calculate 1993 and 1994 rates. 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.

² Michigan rates for 1981-1985 have been revised based upon revisions to population estimates; see Technical Notes.

³ United States data for 1993 and 1994 are provisional.

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

MORTALITY BY RACE AND ANCESTRY

Table 2.2 presents data on the number of deaths by race for the period 1980-1994 and ancestry since 1989. In 1994 deaths of white persons (69,409) accounted for 84.0 percent of all deaths, while deaths of black persons constituted 15.2 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-enumerated, when matched with death data, indicate that

there are larger numbers of American Indians and persons of races other than white and black dying than are reported as members of those groups on the death 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 Race¹ and Ancestry
Michigan Residents, Selected Years, 1980 - 1994

Year	Race						Ancestry	
	Total	White	Black	Amer. Indian	Asian & P.I.	Other	Arab	Hispanic
1980	74,991	64,897	9,704	137	92	1	N.A.	N.A.
1985	78,635	67,426	10,903	130	115	1	N.A.	N.A.
1986	80,177	68,602	11,283	139	132	2	N.A.	N.A.
1987	79,795	67,831	11,614	137	144	2	N.A.	N.A.
1988	80,075	68,191	11,569	132	149	3	N.A.	N.A.
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

¹ Deaths with race unknown are in the "Total" column only.

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

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

The numbers of deaths increased with age through age 80-84. Half of all deaths occurred at or below age 75. For males half the deaths occurred at or below 72, while for females, half occurred at or below age 79. Males represented over half the deaths

(50.5 percent) in 1994. Among black persons a higher percentage of deaths (55.3 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 Sex¹
Michigan Residents, 1994

Age in Years	All Races			White			Black			All Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
< 1	1,184	631	553	670	357	310	495	265	227	19	9	10
1-4	263	147	116	161	91	70	92	51	41	10	5	5
5-9	123	77	46	81	52	29	39	25	14	3	-	3
10-14	191	128	63	140	97	43	47	29	18	4	2	2
15-19	609	449	160	390	273	117	210	171	39	9	5	4
20-24	742	571	171	433	321	112	293	241	52	16	8	7
25-29	740	556	184	464	346	118	266	203	63	10	7	3
30-34	1,085	770	315	697	496	201	372	262	110	16	11	4
35-39	1,479	1,014	465	1,011	720	291	450	286	164	18	7	9
40-44	1,862	1,214	648	1,202	804	398	639	401	238	21	8	12
45-49	2,254	1,404	850	1,555	975	580	663	412	251	36	16	18
50-54	2,863	1,761	1,102	2,141	1,313	828	686	427	259	36	20	15
55-59	3,514	2,110	1,404	2,753	1,654	1,098	711	420	291	50	32	14
60-64	5,152	3,076	2,076	4,199	2,522	1,677	879	507	372	74	46	26
65-69	7,888	4,595	3,293	6,551	3,834	2,717	1,250	713	537	87	45	39
70-74	10,426	5,786	4,640	8,888	4,953	3,935	1,470	797	673	68	35	31
75-79	11,528	5,899	5,629	10,194	5,214	4,980	1,268	650	618	66	33	28
80-84	11,856	5,360	6,496	10,613	4,788	5,825	1,183	537	646	60	34	25
85-89	9,892	3,753	6,139	9,054	3,415	5,639	804	323	481	34	13	15
90+	8,986	2,442	6,544	8,207	2,199	6,008	753	230	523	26	13	12
Not Stated	7	4	3	5	3	2	2	1	1	-	-	-
All Ages	82,644	41,747	40,897	69,409	34,427	34,978	12,572	6,951	5,618	663	349	282

¹ Deaths with race and/or sex not stated are included only in the total column.

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

AGE-SPECIFIC MORTALITY BY RACE

The race and age-specific mortality rates were lowest in Asian and Pacific Islanders and 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 55 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 improper identification of the race. Also since this population increased by 68.9 percent between 1980 and 1990, predominately through in-migration, the low mortality rates for people over 45 years of age may be due in part to selective migration. Healthier older people may be more willing to migrate to another state or country than the less healthy people.

Table 2.4
Death Rates¹ by Age and Race
Michigan Residents, 1994

Age in Years	Race				
	Total	White	Black	Amer. Indian	Asian & P.I.
Crude Rate	876.1	876.7	940.0	619.3	211.0
<1	858.9	627.2	1,824.6	1,189.1	407.4
1-14	29.4	24.0	54.0	36.5	36.2
15-24	98.3	74.7	210.0	112.3	48.8
25-34	120.3	91.1	302.4	158.2	37.4
35-44	224.9	176.2	541.6	241.7	68.1
45-54	499.3	415.4	1,149.4	701.7	234.3
55-64	1,115.9	1,026.8	1,752.5	1,992.9	868.2
65-74	2,737.1	2,606.2	3,781.0	4,784.2	1,814.7
75-84	6,343.9	6,278.9	6,958.5	8,163.3	4,289.5
85+	16,757.5	16,997.2	14,595.1	15,053.8	10,080.6
Age-Adjusted Rate ^{2,3}	525.2	481.3	819.9	757.6	319.3

¹ 1992 estimated population is used to calculate 1994 rates. 1994 live births are used to calculate rates for less than one year of age.

² Deaths with sex or race not stated were randomly allocated prior to computation of age-specific death rates. Deaths with age not stated were included in the category 85 and over. Deaths to all other races are included only in the total column.

³ Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940.

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

Table 2.5
Death Rates¹ by Age and Race
Michigan Male Residents, 1994

Age in Years	Race				
	Total	White	Black	Amer. Indian	Asian & P.I.
Crude Rate	910.6	889.0	1,114.3	710.1	227.6
<1	891.5	649.2	1,919.3	*	*
1-14	35.0	29.4	63.1	35.4	26.4
15-24	147.6	106.6	355.2	153.7	34.2
25-34	177.7	132.5	490.7	281.3	27.8
35-44	304.7	242.8	760.6	220.9	57.6
45-54	630.2	520.1	1,572.0	746.0	246.4
55-64	1,396.7	1,276.1	2,320.9	2,684.2	1,317.5
65-74	3,515.9	3,350.2	4,876.9	6,203.2	2,029.5
75-84	8,077.2	7,984.5	8,940.9	11,174.8	5,600.0
85+	19,549.4	20,032.1	15,840.7	18,333.3	13,274.3
Age-Adjusted Rate ^{2,3}	669.8	611.1	1,097.0	971.7	390.1

¹ 1992 estimated population is used to calculate 1994 rates. 1994 live births are used to calculate rates for less than one year of age.

² Deaths with sex or race not stated were randomly allocated prior to computation of age-specific death rates. Deaths with age not stated were included in the category 85 and over. Deaths to all other races are included only in the total column.

³ Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940.

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

Table 2.6
Death Rates¹ by Age and Race
Michigan Female Residents, 1994

Age in Years	Race				
	Total	White	Black	Amer. Indian	Asian & P.I.
Crude Rate	843.3	864.7	787.3	530.8	194.8
<1	815.7	598.1	1,704.3	*	*
1-14	23.8	18.4	44.7	37.6	46.0
15-24	48.4	42.1	73.7	69.9	64.5
25-34	64.7	49.9	148.8	37.0	47.4
35-44	147.6	109.7	363.0	260.7	76.9
45-54	373.5	313.1	796.9	660.5	221.8
55-64	858.3	793.3	1,305.5	1,359.8	494.7
65-74	2,122.0	2,015.1	2,952.9	3,675.9	1,665.6
75-84	5,289.9	5,242.3	5,759.3	6,191.4	3,231.0
85+	15,664.8	15,840.4	13,989.1	13,492.1	7,407.4
Age-Adjusted Rate ^{2,3}	407.9	377.0	601.9	586.1	263.8

¹ 1992 estimated population is used to calculate 1994 rates. 1994 live births are used to calculate rates for less than one year of age.

² Deaths with sex or race not stated were randomly allocated prior to computation of age-specific death rates. Deaths with age not stated were included in the category 85 and over. Deaths to all other races are included only in the total column.

³ Based on age-specific death rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940.

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

LIFE EXPECTANCY

In 1994 the life expectancy at birth was 72.1 years for males and 78.2 years for females based on 1994 mortality and 1992 population data. Females demonstrated a significantly greater longevity than males, due to the higher mortality rates of males at all ages.

TREND 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 18.7 years for males and by 23.1 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 6.1 years.

The life expectancy of Michigan residents was well above that for the nation in 1901, but this differential had virtually disappeared by 1950. Between 1981 and 1993 both males and females in Michigan had lower life expectancy than corresponding sex groups in the nation. By 1993 the life expectancies of males and females in Michigan were 0.1 and 0.7 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 10.0 years greater than black males in 1994 compared to a differential of 5.8 years in 1950. While life expectancy for white males increased slowly after 1980, life expectancy of black males decreased in the mid 1980's. The 1994 black male life expectancy was still slightly lower than it had been in 1984, while life expectancy for white males rose from 71.8 to 73.6 years in 1994.

Table 2.7
Life Expectancy¹ at Birth by Sex
Michigan² and United States Residents
Selected Years, 1901 - 1994

United States		Year	Michigan	
Male	Female		Male	Female
47.6	50.6	1901	53.4	55.1
48.4	51.8	1910	53.9	56.2
53.6	54.6	1920	55.1	56.0
58.1	61.6	1930	59.8	62.8
60.8	65.2	1940	63.4	64.4
65.6	71.1	1950	65.7	71.2
66.6	73.1	1960	67.1	73.3
67.1	74.7	1970	67.2	74.6
68.8	76.6	1975	68.5	75.7
70.0	77.4	1980	70.0	76.9
70.4	77.8	1981	70.3	77.1
70.9	78.1	1982	70.6	77.4
71.0	78.1	1983	70.7	77.4
71.2	78.2	1984	70.8	77.2
71.2	78.2	1985	70.6	77.4
71.3	78.3	1986	70.7	77.4
71.5	78.4	1987	71.1	77.4
71.5	78.3	1988	71.3	77.6
72.2	79.1	1989	71.6	77.7
71.8	78.8	1990	71.7	78.1
72.0	78.9	1991	71.7	78.0
72.3	79.0	1992	71.9	78.2
72.1Pr.	78.9Pr.	1993	72.0	78.2
N.A.	N.A.	1994	72.1	78.2

¹ 1992 estimated population is used to calculate 1993 and 1994 Michigan data.

² Michigan data for years 1920, 1930 and 1940 are for white persons only.

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

In 1950, Michigan resident white females had an average longevity 8.5 years greater than black females. This disparity declined to 5.4 years by 1980 and increased to 6.0 years by 1994. Life expectancy generally increased for white females between 1950 and 1994. It rose until 1982 for black females and generally declined through 1989. By 1994 their life expectancy increased to 73.2, slightly higher than the average longevity achieved twelve years before, in 1982.

Table 2.8
Life Expectancy¹ at Birth by Sex and Race²
Michigan Residents, Selected Years, 1950 - 1994

Population Subgroup	Year																
	1950	1960	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
White																	
Male	66.2	67.5	68.2	71.0	71.5	71.6	71.8	71.7	71.9	72.4	72.6	73.1	73.1	73.1	73.3	73.4	73.6
Female	71.9	74.0	75.3	77.6	78.0	78.1	78.0	78.1	78.2	78.2	78.5	78.8	79.0	78.8	79.2	79.1	79.2
Black																	
Male	60.4	63.6	59.9	63.5	64.1	64.2	63.9	62.9	62.7	62.4	63.1	62.3	63.8	63.4	64.0	63.8	63.6
Female	63.4	67.7	68.3	72.2	72.7	72.5	72.5	72.5	72.0	72.0	71.8	71.4	73.2	72.8	72.7	72.9	73.2

¹ 1992 estimated population is used to calculate 1993 and 1994 Michigan data.

² Data for 1950 and 1960 are for persons of white and other than white race.

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

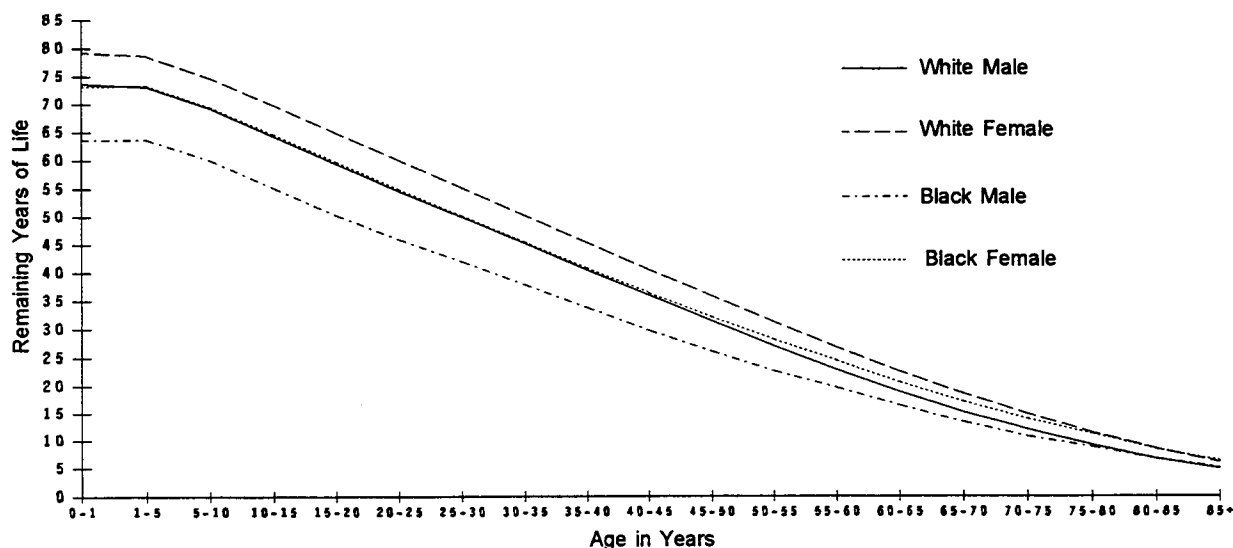
YEARS OF LIFE REMAINING

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.

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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, 1994



¹ 1992 estimated population is used to calculate 1994 Michigan data.

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

MARITAL STATUS

The numbers of deaths by marital status for men and women are displayed in Table 2.9. The majority of men were married at the time of death while the majority of women were widows. Men were more than twice as likely as women to be married at the time of death (55.5 percent compared to 25.5 percent). Conversely, women were over three times as likely to be widows at the time of death as men were to be widowers (56.7 percent compared to 18.4 percent).

Table 2.9
Deaths by Sex and Marital Status
Michigan Residents, 1994

Marital Status	Males		Females	
	Number	Percent	Number	Percent
Total	41,747	100.0	40,890	100.0
Never Married	6,196	14.8	3,629	8.9
Divorced ¹	4,542	10.9	3,549	8.7
Widowed	7,667	18.4	23,183	56.7
Married	23,167	55.5	10,442	25.5
Unknown	175	0.4	87	0.2

¹ Divorced includes legally separated.

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

PLACE OF OCCURRENCE

There were 1,956 Michigan resident deaths in 1994 that occurred outside the state (Table 2.10). This represents 2.4 percent of all resident deaths. The states with the highest number of Michigan resident deaths were Florida and Ohio. The border areas of Illinois, Indiana, Ohio, Wisconsin and Canada accounted for 52.7 percent of all resident deaths occurring outside Michigan.

Of the 1,108 non-residents who died in Michigan in 1994, 40.8 percent were from the border areas while 24.8 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, 1994

Geographic Area	Residents Occurring Outside Michigan		Non-Residents Occurring In Michigan	
	Number	Percent	Number	Percent
Total	1,956	100.0	1,108	100.0
Florida	450	23.0	275	24.8
Ohio	404	20.7	158	14.3
Wisconsin	290	14.8	130	11.7
Indiana	240	12.3	67	6.0
Arizona	88	4.5	21	1.9
Illinois	78	4.0	70	6.3
California	47	2.4	46	4.2
Texas	44	2.2	20	1.8
Tennessee	33	1.7	21	1.9
Kentucky	26	1.3	12	1.1
Colorado	22	1.1	7	0.6
Missouri	20	1.0	12	1.1
Pennsylvania	19	1.0	18	1.6
Alabama	19	1.0	11	1.0
Virginia	17	0.9	10	0.9
All Other States	140	7.2	159	14.4
Canada	19	1.0	27	2.4
All Other Areas	-	-	27	2.4
Unknown	-	-	17	1.5

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

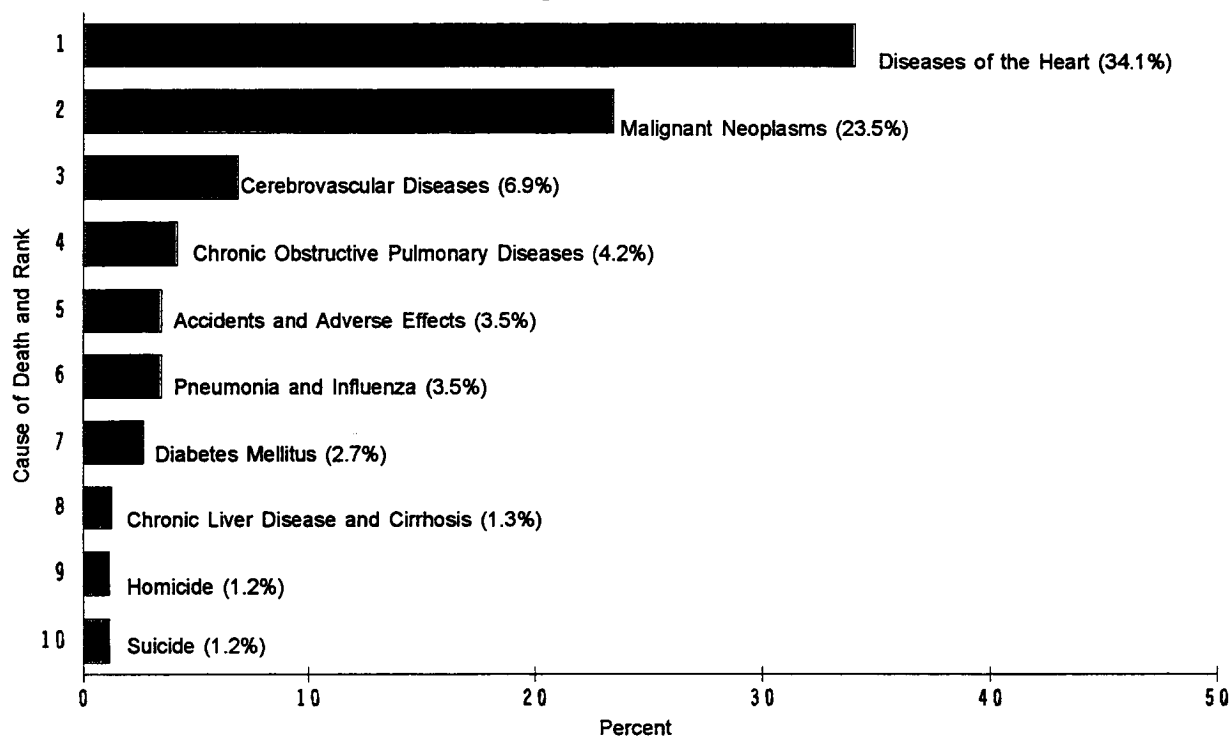
LEADING CAUSES OF DEATH

Ten Leading Causes of Death Deaths due to the 10 leading causes accounted for 82.1 percent of all deaths in 1994. Diseases of the heart was the leading cause of death with 34.1 percent of all deaths. Another 23.5 percent of the deaths were due to cancer. Together these two causes of death were responsible for 57.6 percent of all Michigan resident deaths. The third leading cause of death was cerebrovascular disease with 6.9 percent of all deaths. The percentage of total deaths resulting from each of

the 10 leading causes of death in 1994 is illustrated in Figure 2.6.

The numbers of deaths and the death rates for the 10 leading causes in 1994 are shown in Table 2.11. In 1991 accidents dropped from fourth to fifth leading cause of deaths in Michigan for the first time since 1930. Accidents dropped again, to the sixth leading cause of death, in 1993. The ranking changed in 1994 with pneumonia and influenza moving to the sixth from the fifth leading cause of death.

Figure 2.6
Leading Causes of Death
Michigan Residents, 1994



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

Cause-Specific Crude Death Rates These rates in Michigan were higher in 1994 than in 1993 for five of the ten leading causes: malignant neoplasms, cerebrovascular disease, accidents and adverse effects, diabetes mellitus and chronic liver disease and cirrhosis. The rates were lower for diseases of the heart, pneumonia and influenza, suicide and homicide. The rate for chronic obstructive pulmonary diseases and allied conditions did not change.

The order of the leading causes of death for Michigan and the United States were different somewhat in 1994 (Table 2.11). Human immunode-

ficiency 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. The overall Michigan death rate was slightly lower than the national rate (0.1 percent). Michigan's mortality rates for heart disease, diabetes mellitus and homicide were 6.2, 11.3 and 18.7 percent higher, respectively, than the comparable national rates. The Michigan death rates for accidents and chronic obstructive pulmonary disease were about 8.6 and 5.9 percent lower, respectively, than the national rates.

Table 2.11
Leading Causes of Death and Cause-Specific Rates¹
Michigan and United States² Residents, 1994

Rank	Cause of Death	Number of Deaths		Rate	
		Michigan	U.S.	Michigan	U.S.
1	Diseases of the Heart	28,195	730,730	298.9	280.3
2	Malignant Neoplasms	19,410	538,560	205.8	206.6
3	Cerebrovascular Disease	5,680	153,940	60.2	59.1
4	Chronic Obstructive Pulmonary Diseases and Allied Conditions	3,447	101,170	36.5	38.8
5	Accidents and Adverse Effects	2,928	88,370	31.0	33.9
6	Pneumonia and Influenza	2,877	81,820	30.5	31.4
7	Diabetes Mellitus	2,224	55,270	23.6	21.2
8	Chronic Liver Disease and Cirrhosis	1,035	25,660	11.0	9.8
9	Homicide	1,023	23,680	10.8	9.1
10	Suicide	1,022	30,570	10.8	11.7
<i>Sub Total</i>		67,841	1,829,770	719.1	701.9
<i>All Other Causes</i>		14,803	456,230	156.9	175.0
<i>Total</i>		82,644	2,286,000	876.1	876.9

¹ 1992 estimated population is used to calculate 1994 rates.

² United States data are estimates based on a 10 percent sample of deaths.

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

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 tenth leading cause of death, was the eighth leading cause for white

males. Accidents, the fifth leading cause of death, was the seventh leading cause for white females. Homicide was the third and eighth leading cause of death for black males and females, respectively. Finally, diabetes, the seventh leading cause, was the fourth leading cause for black females. Most of these differences were also observed in 1993.

Table 2.12
Leading Causes of Death by Race and Sex¹
Michigan Residents, 1994

Cause of Death	All Races			White			Black			All Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Diseases of the Heart	28,195	13,902	14,293	24,237	11,861	12,376	3,785	1,932	1,853	172	109	63
Malignant Neoplasms	19,410	10,194	9,215	16,600	8,629	7,970	2,643	1,476	1,167	165	89	76
Cerebrovascular Disease	5,680	2,176	3,504	4,845	1,819	3,026	792	335	457	43	22	21
Chronic Obstructive Pulmonary Diseases and Allied Conditions	3,447	1,807	1,640	3,126	1,621	1,505	298	174	124	22	12	10
Accidents and Adverse Effects	2,928	1,825	1,103	2,451	1,519	932	412	265	147	65	41	24
Pneumonia and Influenza	2,877	1,384	1,493	2,477	1,166	1,311	385	212	173	14	6	8
Diabetes Mellitus	2,224	961	1,263	1,824	789	1,035	375	162	213	25	10	15
Chronic Liver Disease and Cirrhosis	1,035	675	360	789	528	261	232	142	90	14	5	9
Homicide	1,023	810	213	289	196	93	727	609	118	6	4	2
Suicide	1,022	848	174	901	748	153	111	92	19	10	8	2
All Other Causes	14,803	7,165	7,632	11,870	5,551	6,316	2,812	1,552	1,257	95	43	52
Total	82,644	41,747	40,890	69,409	34,427	34,978	12,572	6,951	5,618	631	349	282

¹ Deaths with race/sex not stated are included only in the "Total" column.

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

Table 2.13
Leading Causes of Death and Crude Death Rates¹ by Race and Sex
Michigan Residents, 1994

Cause of Death	All Races			White			Black		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Diseases of the Heart	298.9	303.2	294.8	306.1	306.3	306.0	283.1	309.7	259.8
Malignant Neoplasms	205.8	222.4	190.1	209.7	222.8	197.1	197.7	236.6	163.7
Cerebrovascular Disease	60.2	47.5	72.3	61.2	47.0	74.8	59.2	53.7	64.0
Chronic Obstructive Pulmonary Diseases and Allied Conditions	36.5	39.4	33.8	39.5	41.9	37.2	22.3	27.9	17.4
Accidents and Adverse Effects	31.0	39.8	22.7	31.0	39.2	23.0	30.8	42.5	20.6
Pneumonia and Influenza	30.5	30.2	30.8	31.3	30.1	32.4	28.8	34.0	24.2
Diabetes Mellitus	23.6	21.0	26.0	23.0	20.4	25.6	28.0	26.0	29.8
Chronic Liver Disease and Cirrhosis	11.0	14.7	7.4	10.0	13.6	6.5	17.3	22.8	12.6
Homicide	10.8	17.7	4.4	3.7	5.1	2.3	54.4	97.6	16.5
Suicide	10.8	18.5	3.6	11.4	19.3	3.8	8.3	14.7	2.7
All Other Causes	156.9	156.4	157.5	150.2	143.9	156.3	210.3	249.1	176.4
Total	876.1	910.7	843.3	877.0	889.6	865.0	940.3	1,114.6	787.8

¹ 1992 estimated population is used to calculate 1994 rates.

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

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 males is slightly higher, but when adjusted for age the male rate is nearly double that of females. Crude rates for white females are higher for stroke, pneumonia and influenza and diabetes mellitus, but after age-adjusting, the rates are higher in males.

The age-adjusted death rates for white females were lower than the rates for the other three groups for eight of the ten leading causes of death. For deaths due to heart disease, the rates for white males, black males and black females were 85.9, 183.4 and 70.9 percent higher, respectively than for white females. For cancer deaths these differentials were 39.8, 112.9 and 23.5 percent. The greatest differentials between black and white female rates occurred

for diabetes, chronic liver disease and cirrhosis, and homicide where the black female rates were 1.9, 2.8 and 7.1 times higher, respectively, than rates for white females.

Rates for black males were lower for suicides than white males and equal for chronic obstructive pulmonary diseases and allied conditions. The rates for black females were lower for both chronic obstructive pulmonary diseases and allied conditions and suicides than their white counterparts. Black male rates were higher than white male rates, for the remaining eight leading causes of death. The greatest differentials between black and white male rates occurred for cerebrovascular disease, chronic liver disease and cirrhosis, and homicide where black males rates were 1.9, 2.4 and 20.0 times higher. For the remaining conditions the black male and female rates were 1.1 to 1.8 times higher than rates for their white counterparts.

Table 2.14
Leading Causes of Death and Age-Adjusted Death Rates¹ by Race and Sex²
Michigan Residents, 1994

Cause of Death	All Races			White			Black		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Diseases of the Heart	158.4	210.5	116.4	148.2	199.1	107.1	235.1	303.5	183.0
Malignant Neoplasms	136.4	165.8	115.4	130.6	156.9	112.2	181.0	238.9	138.6
Cerebrovascular Disease	29.0	30.8	27.3	26.4	28.1	24.8	48.0	52.2	44.5
Chronic Obstructive Pulmonary Diseases and Allied Conditions	20.5	26.0	17.0	20.6	25.9	17.3	18.8	25.9	14.0
Accidents and Adverse Effects	26.5	36.9	16.7	25.8	36.0	16.0	29.5	42.7	18.6
Pneumonia and Influenza	13.9	18.5	10.8	12.7	17.0	9.8	22.1	30.9	15.8
Diabetes Mellitus	14.1	15.3	13.1	12.7	13.9	11.8	24.1	26.5	21.9
Chronic Liver Disease and Cirrhosis	9.1	13.0	5.5	7.7	11.4	4.4	18.9	26.9	12.5
Homicide	11.5	18.6	4.5	3.6	5.0	2.3	55.5	100.2	16.4
Suicide	10.2	17.6	3.4	10.6	18.1	3.5	8.4	15.1	2.8
All Other Causes	95.6	116.8	77.7	82.4	99.9	67.8	178.6	234.3	133.7
Total	525.2	669.8	407.9	481.3	611.1	377.0	819.9	1,097.0	601.9

¹ 1992 estimated population is used to calculate 1994 rates.

² Deaths with race/sex not stated are included only in the "Total" column.

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

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 through 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 through 34 years. Accidents were among the top leading causes of death for black males and females ages 1 to 34 years and were the leading cause for ages 1 to 14 years.

Homicide was the second leading cause of death overall for ages 15 through 34 years, but was the leading cause of death for black males ages 15 through 34 years, black females ages 15 through 24 years, and the second leading cause of death for black males ages 1 through 14 years. Over half of the homicides among Michigan residents occurred among black males 15 to 49 years of age. Compared to homicide rates in 1993, the rates for black males ages 25-34 increased 1.2 percent, while the rate for black males ages 15-24 decreased 1.4 percent in 1994.

Suicide was the third leading cause of death overall for ages 15-24 and second among white males 15-34. Suicide was the third or fourth leading cause among black males 15-24 and white females ages 15 through 34 years.

Among persons 35 years and over, chronic conditions are responsible for the majority of deaths. Malignant neoplasms was the leading cause of death for white and black females ages 35 to 64 years.

Diseases of the heart was the leading cause of death for black and white males ages 35 years or over and black and white females 65 years of age or over.

AIDS Overall, AIDS was the third or fourth leading cause of death for people 25 to 49 years of age. Among white males it was the third leading cause of death for ages 25-34 years of age, fourth leading cause for ages 5-14 years of age and fifth for ages 35-49 years of age. It was the second leading cause for black males ages 25-49 years of age. For black females, AIDS was the fifth leading cause for ages 25-34 and the third for ages 35-49. AIDS was not one of the top five causes of death for any white female age group in 1994. The first year that AIDS was among the five leading causes in a race-sex-age group was 1987 but that was also the first year that AIDS deaths could be tabulated separately from pneumonia, cancer and other causes of death.

Table 2.15
Leading Causes of Death and Cause-Specific Rates by Age
 Michigan Residents, 1994

Age	Rank and Cause of Death	Number ¹	Rate ^{2,3,4}
All Ages	1. Diseases of the Heart 2. Malignant Neoplasms 3. Cerebrovascular Disease 4. Chronic Obstructive Pulmonary Diseases and Allied Conditions 5. Accidents <i>All Causes</i>	28,195 19,410 5,680 3,447 2,928 82,644	298.9 205.8 60.2 36.5 31.0 876.1
Under 1 Year	1. Certain Conditions Originating in the Perinatal Period 2. Congenital Anomalies 3. Sudden Infant Death Syndrome 4. Accidents 5. Diseases of the Heart <i>All Causes</i>	591 220 167 37 17 1,184	426.1 158.6 120.4 26.7 12.3 853.7
1-4 Years	1. Accidents 2. Congenital Anomalies 3. Malignant Neoplasms 4. Homicide 5-6. Diseases of the Heart - Certain Conditions Originating in the Perinatal Period <i>All Causes</i>	110 33 20 14 6 263	19.1 5.7 3.5 2.4 1.0 45.7
5-14 Years	1. Accidents 2. Malignant Neoplasms 3. Homicide 4. Suicide 5. Congenital Anomalies <i>All Causes</i>	134 43 26 18 10 314	9.6 3.1 1.9 1.3 0.7 22.6
15-24 Years	1. Accidents 2. Homicide 3. Suicide 4. Malignant Neoplasms 5. Diseases of the Heart <i>All Causes</i>	487 355 187 73 37 1,351	35.4 25.8 13.6 5.3 2.7 98.3
25-34 Years	1. Accidents 2. Homicide 3. AIDS 4. Suicide 5. Malignant Neoplasms <i>All Causes</i>	352 268 237 211 181 1,825	23.2 17.7 15.6 13.9 11.9 120.3
35-49 Years	1. Malignant Neoplasms 2. Diseases of the Heart 3. Accidents 4. AIDS 5. Chronic Liver Disease and Cirrhosis <i>All Causes</i>	1,275 1,169 504 420 277 5,595	61.9 56.8 24.5 20.4 13.5 271.8
50-64 Years	1. Malignant Neoplasms 2. Diseases of the Heart 3. Cerebrovascular Disease 4. Chronic Obstructive Pulmonary Diseases and Allied Conditions 5. Diabetes Mellitus <i>All Causes</i>	4,285 3,560 472 412 359 11,529	348.8 289.8 38.4 33.5 29.2 938.2
65 and Over	1. Diseases of the Heart 2. Malignant Neoplasms 3. Cerebrovascular Disease 4. Chronic Obstructive Pulmonary Diseases and Allied Conditions 5. Pneumonia and Influenza <i>All Causes</i>	23,256 13,529 4,946 2,942 2,532 60,576	2,021.0 1,175.7 429.8 255.7 220.0 5,264.3

¹ Subtotals by sex and race do not add to the grand total as the race was not stated on records for 20 males and 12 females. In addition, the sex was not stated for 4 white persons and 3 black persons. Age groups do not add to respective totals because records with age not stated are included only in the total.

² Rates may not agree with those shown elsewhere in this section since records of unknown sex and race were randomly allocated prior to rate calculation for the other tables, and were not included in calculations for this table.

³ Rate per 100,000 population.

⁴ 1992 estimated population is used to calculate 1994 rates.

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

Table 2.16
Leading Causes of Death and Cause-Specific Rates by Age,
Michigan Resident White Males, 1994

Age	Rank and Cause of Death	Number ¹	Rate ^{2,3,4}
All Ages	1. Diseases of the Heart 2. Malignant Neoplasms 3. Cerebrovascular Disease 4. Chronic Obstructive Pulmonary Diseases and Allied Conditions 5. Accidents <i>All Causes</i>	11,861 8,629 1,819 1,621 1,519 34,427	306.3 222.8 47.0 41.9 39.2 888.9
Under 1 Year	1. Certain Conditions Originating in the Perinatal Period 2. Congenital Anomalies 3. Sudden Infant Death Syndrome 4. Accidents 5. Diseases of the Heart <i>All Causes</i>	146 84 57 12 7 357	271.6 156.2 106.0 22.3 13.0 664.1
1-4 Years	1. Accidents 2. Congenital Anomalies 3. Malignant Neoplasms 4. Homicide 5. Diseases of the Heart <i>All Causes</i>	41 14 8 5 3 91	17.4 5.9 3.4 * * 38.6
5-14 Years	1. Accidents 2. Malignant Neoplasms 3. Suicide 4. AIDS 5-6. Cerebrovascular Disease - Benign Neoplasms <i>All Causes</i>	71 24 11 5 4 149	12.2 4.1 1.9 * * 25.7
15-24 Years	1. Accidents 2. Suicide 3. Malignant Neoplasms 4. Homicide 5. Diseases of the Heart <i>All Causes</i>	306 130 36 34 16 594	54.9 23.3 6.5 6.1 2.9 106.6
25-34 Years	1. Accidents 2. Suicide 3. AIDS 4. Malignant Neoplasms 5. Diseases of the Heart <i>All Causes</i>	215 152 109 70 60 842	33.8 23.9 17.2 11.0 9.4 132.6
35-49 Years	1. Diseases of the Heart 2. Malignant Neoplasms 3. Accidents 4. Suicide 5. AIDS <i>All Causes</i>	639 459 291 185 180 2,499	73.1 52.5 33.3 21.2 20.6 286.0
50-64 Years	1. Diseases of the Heart 2. Malignant Neoplasms 3. Cerebrovascular Disease 4. Chronic Obstructive Pulmonary Diseases and Allied Conditions 5. Chronic Liver Diseases and Cirrhosis <i>All Causes</i>	1,945 1,853 192 189 182 5,489	373.0 355.4 36.8 36.2 34.9 1,052.8
65 and Over	1. Diseases of the Heart 2. Malignant Neoplasms 3. Cerebrovascular Disease 4. Chronic Obstructive Pulmonary Diseases and Allied Conditions 5. Pneumonia and Influenza <i>All Causes</i>	9,188 6,178 1,547 1,409 1,032 24,403	2,209.8 1,485.8 372.1 338.9 248.2 5,869.1

¹ Subtotals by sex and race do not add to the grand total as the race was not stated on records for 20 males and 12 females. In addition, the sex was not stated for 4 white persons and 3 black persons. Age groups do not add to respective totals because records with age not stated are included only in the total.

² Rates may not agree with those shown elsewhere in this section since records of unknown sex and race were randomly allocated prior to rate calculation for the other tables, and were not included in calculations for this table.

³ Rate per 100,000 population.

⁴ 1992 estimated population is used to calculate 1994 rates.

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

Table 2.17
Leading Causes of Death and Cause-Specific Rates by Age
 Michigan Resident Black Males, 1994

Age	Rank and Cause of Death	Number ¹	Rate ^{2,3,4}
All Ages	1. Diseases of the Heart 2. Malignant Neoplasms 3. Homicide 4. Cerebrovascular Disease 5. AIDS <i>All Causes</i>	1,932 1,476 609 335 329 6,951	309.8 236.7 97.6 53.7 52.8 1,114.5
Under 1 Year	1. Certain Conditions Originating in the Perinatal Period 2. Sudden Infant Death Syndrome 3. Congenital Anomalies 4. Accidents 5. Pneumonia and Influenza <i>All Causes</i>	153 47 25 8 3 265	999.7 307.1 163.3 52.3 * 1,731.5
1-4 Years	1. Accidents 2. Homicide 3. Congenital Anomalies 4-6. Malignant Neoplasms - Anemia - Pneumonia and Influenza <i>All Causes</i>	20 6 4 2 51	39.1 11.7 * * 99.7
5-14 Years	1. Accidents 2. Homicide 3-4. Suicide - Malignant Neoplasms 5. Congenital Anomalies <i>All Causes</i>	17 16 4 2 54	14.8 13.9 * * 46.9
15-24 Years	1. Homicide 2. Accidents 3. Suicide 4. Diseases of the Heart 5. Malignant Neoplasms <i>All Causes</i>	269 48 28 10 8 412	232.0 41.4 24.1 8.6 6.9 355.3
25-34 Years	1. Homicide 2. AIDS 3. Accidents 4. Diseases of the Heart 5. Malignant Neoplasms <i>All Causes</i>	169 110 37 31 19 465	178.4 116.1 39.1 32.7 20.1 490.9
35-49 Years	1. Diseases of the Heart 2. AIDS 3. Malignant Neoplasms 4. Homicide 5. Chronic Liver Disease and Cirrhosis <i>All Causes</i>	227 176 147 111 58 1,099	187.3 145.2 121.3 91.6 47.8 906.6
50-64 Years	1. Diseases of the Heart 2. Malignant Neoplasms 3. Cerebrovascular Disease 4. Chronic Liver Diseases and Cirrhosis 5. Diabetes Mellitus <i>All Causes</i>	474 382 69 57 46 1,354	759.8 612.3 110.6 91.4 73.7 2,170.3
65 and Over	1. Diseases of the Heart 2. Malignant Neoplasms 3. Cerebrovascular Disease 4. Pneumonia and Influenza 5. Chronic Obstructive Pulmonary Diseases and Allied Conditions <i>All Causes</i>	1,185 913 212 135 130 3,250	2,483.0 1,913.0 444.2 282.9 272.4 6,809.8

¹ Subtotals by sex and race do not add to the grand total as the race was not stated on records for 20 males and 12 females. In addition, the sex was not stated for 4 white persons and 3 black persons. Age groups do not add to respective totals because records with age not stated are included only in the total.

² Rates may not agree with those shown elsewhere in this section since records of unknown sex and race were randomly allocated prior to rate calculation for the other tables, and were not included in calculations for this table.

³ Rate per 100,000 population.

⁴ 1992 estimated population is used to calculate 1994 rates.

Table 2.18
Leading Causes of Death and Cause-Specific Rates by Age
 Michigan Resident White Females, 1994

Age	Rank and Cause of Death	Number ¹	Rate ^{2,3,4}
All Ages	1. Diseases of the Heart 2. Malignant Neoplasms 3. Cerebrovascular Disease 4. Chronic Obstructive Pulmonary Diseases and Allied Conditions 5. Pneumonia and Influenza <i>All Causes</i>	12,376 7,970 3,026 1,505 1,311 34,978	305.9 197.0 74.8 37.2 32.4 864.6
Under 1 Year	1. Certain Conditions Originating in the Perinatal Period 2. Congenital Anomalies 3. Sudden Infant Death Syndrome 4. Accidents 5. Homicide <i>All Causes</i>	146 76 31 7 5 310	283.2 147.4 60.1 13.6 * 601.3
1-4 Years	1. Accidents 2. Malignant Neoplasms 3. Congenital Anomalies 4. Homicide 5-11. Septicaemia - Cerebrovascular Disease - Pneumonia and Influenza - Chronic Obstructive Pulmonary Diseases and Allied Conditions - Chronic Liver Disease and Cirrhosis - Certain Conditions Originating in the Perinatal Period <i>All Causes</i>	27 9 8 2 1 70	12.0 4.0 3.6 * * 31.2
5-14 Years	1. Accidents 2. Malignant Neoplasms 3. Congenital Anomalies 4-7. Pneumonia and Influenza - Hernia - Suicide - Homicide <i>All Causes</i>	29 12 7 2 72	5.3 2.2 1.3 * 13.1
15-24 Years	1. Accidents 2. Malignant Neoplasms 3. Homicide 4. Suicide 5. Congenital Anomalies <i>All Causes</i>	103 23 19 18 9 229	18.9 4.2 3.5 3.3 1.7 42.1
25-34 Years	1. Accidents 2. Malignant Neoplasms 3. Suicide 4. Diseases of the Heart 5. Homicide <i>All Causes</i>	76 71 32 20 18 319	11.9 11.1 5.0 3.1 2.8 49.9
35-49 Years	1. Malignant Neoplasms 2. Diseases of the Heart 3. Accidents 4. Cerebrovascular Disease 5. Suicide <i>All Causes</i>	520 168 115 54 49 1,269	59.2 19.1 13.1 6.2 5.6 144.6
50-64 Years	1. Malignant Neoplasms 2. Diseases of the Heart 3. Chronic Obstructive Pulmonary Diseases and Allied Conditions 4. Cerebrovascular Disease 5. Diabetes Mellitus <i>All Causes</i>	1,675 804 166 148 130 3,603	304.5 146.2 30.2 26.9 23.6 655.0
65 and Over	1. Diseases of the Heart 2. Malignant Neoplasms 3. Cerebrovascular Disease 4. Chronic Obstructive Pulmonary Diseases and Allied Conditions 5. Pneumonia and Influenza <i>All Causes</i>	11,375 5,658 2,812 1,308 1,236 29,104	1,864.7 927.5 461.0 214.4 202.6 4,771.0

¹ Subtotals by sex and race do not add to the grand total as the race was not stated on records for 20 males and 12 females. In addition, the sex was not stated for 4 white persons and 3 black persons. Age groups do not add to respective totals because records with age not stated are included only in the total.

² Rates may not agree with those shown elsewhere in this section since records of unknown sex and race were randomly allocated prior to rate calculation for the other tables, and were not included in calculations for this table.

³ Rate per 100,000 population.

⁴ 1992 estimated population is used to calculate 1994 rates.

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

Table 2.19
Leading Causes of Death and Cause-Specific Rates by Age
 Michigan Resident Black Females, 1994

Age	Rank and Cause of Death	Number ¹	Rate ^{2,3,4}
All Ages	1. Diseases of the Heart	1,853	259.7
	2. Malignant Neoplasms	1,167	163.6
	3. Cerebrovascular Disease	457	64.1
	4. Diabetes Mellitus	213	29.9
	5. Pneumonia and Influenza	173	24.2
	<i>All Causes</i>	5,618	787.4
Under 1 Year	1. Certain Conditions Originating in the Perinatal Period	135	911.2
	2-3. Sudden Infant Death Syndrome - Congenital Anomalies	29	195.7
	4. Accidents	9	60.7
	5-6. Pneumonia and Influenza - Diseases of the Heart	4	*
	<i>All Causes</i>	227	1,532.2
1-4 Years	1. Accidents	17	33.9
	2. Congenital Anomalies	5	*
	3-4. Certain Conditions Originating in the Perinatal Period - Diseases of the Heart	2	*
	5-9. Malignant Neoplasms - Anemia - Homicide - Bronchitis - AIDS	1	*
	<i>All Causes</i>	41	81.7
5-14 Years	1. Accidents	13	11.5
	2. Homicide	5	*
	3. Malignant Neoplasms	3	*
	4-7. Diseases of the Heart - Pneumonia and Influenza - Hernia - Suicide	1	*
	<i>All Causes</i>	32	28.3
15-24 Years	1. Homicide	32	25.9
	2. Accidents	12	9.7
	3. Suicide	10	8.1
	4. Diseases of the Heart	8	6.5
	5. Malignant Neoplasms	6	4.9
	<i>All Causes</i>	91	73.7
25-34 Years	1. Diseases of the Heart	28	24.1
	2. Homicide	25	21.5
	3. Malignant Neoplasms	18	15.5
	4. Accidents	15	12.9
	5. AIDS	12	10.3
	<i>All Causes</i>	173	148.9
35-49 Years	1. Malignant Neoplasms	129	87.9
	2. Diseases of the Heart	125	85.2
	3. AIDS	54	36.8
	4. Cerebrovascular Disease	49	33.4
	5. Homicide	40	27.3
	<i>All Causes</i>	653	444.9
50-64 Years	1. Malignant Neoplasms	310	393.6
	2. Diseases of the Heart	291	369.5
	3. Cerebrovascular Disease	58	73.6
	4. Diabetes Mellitus	36	45.7
	5. Chronic Obstructive Pulmonary Diseases and Allied Conditions	24	30.5
	<i>All Causes</i>	922	1,170.7
65 and Over	1. Diseases of the Heart	1,393	1,987.3
	2. Malignant Neoplasms	700	998.6
	3. Cerebrovascular Disease	340	485.1
	4. Diabetes Mellitus	160	228.3
	5. Pneumonia and Influenza	121	172.6
	<i>All Causes</i>	3,478	4,961.8

¹ Subtotals by sex and race do not add to the grand total as the race was not stated on records for 20 males and 12 females. In addition, the sex was not stated for 4 white persons and 3 black persons. Age groups do not add to respective totals because records with age not stated are included only in the total.

² Rates may not agree with those shown elsewhere in this section since records of unknown sex and race were randomly allocated prior to rate calculation for the other tables, and were not included in calculations for this table.

³ Rate per 100,000 population.

⁴ 1992 estimated population is used to calculate 1994 rates.

COMMUNICABLE DISEASE DEATHS

Although comprising a smaller proportion of deaths than they have in the past, communicable disease deaths continue to be a public health concern. In 1994, deaths from all infectious and parasitic diseases numbered 1,733 (Table 2.20). The number of deaths due to septicemia decreased from 743 deaths in 1993 to 634 deaths in 1994.

There were 757 deaths (43.7 percent) attributable to AIDS. This was a 9.6 percent increase in the

number of deaths due to AIDS since 1993 when there were 691 deaths. There were 573 and 465 deaths due to AIDS reported in 1992 and 1991, respectively.

Deaths due to such diseases as diphtheria, scarlet fever, streptococcal sore throat, small pox, typhoid fever, measles, poliomyelitis and others have been virtually eliminated not only in Michigan, but across the nation. Table 4.7 illustrates trends in deaths from the major communicable diseases.

Table 2.20
Deaths from Selected Infectious and
Parasitic Diseases
Michigan Residents, 1994

ICD List ¹ Number	Cause of Death	Frequency
042-044	AIDS	757
038	Septicemia	634
070	Viral Hepatitis	77
110-118	Mycoses	50
010-018	Tuberculosis	44
135	Sarcoidosis	19
052	Chickenpox	10
046	Slow Virus Infection of Central Nervous System	5
054	Herpes Simplex	5
040.0	Gas Gangrene	5
137	Late Effects of Tuberculosis	5
136.3	Pneumocystosis	4
053	Herpes Zoster	4
036	Meningococcal Infection	3
Residual 000-139	All Other Infectious and Parasitic Diseases	111
<i>Total</i>		1,733

¹ Detailed list of the 9th revision of the International Classification of Diseases, WHO.

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

YEARS OF POTENTIAL LIFE LOST BELOW AGE 65

Another measure of the impact that causes of death have on a population, the years of potential life lost below age 65, is used by the National Centers for Disease Control. The number of years of potential life lost is calculated as the number of years between the age at death and 65 years of age for persons dying before their 65th year. This measure of mortality is designed to emphasize mortality which is prevalent among people under age 65.

Table 2.21 includes the years of potential life lost to the Michigan population in 1994 for the ten leading causes of death and selected other causes, as well as the rankings of these causes based on years of potential life lost for the United States.

The ranking of the leading causes of years of potential life lost was different from the ranking of numbers of deaths presented in Table 2.14. Diseases

of the heart was the leading cause of death but was the fourth leading cause of years of potential life lost below age 65. Malignant neoplasms, with 70,986 total years lost, was the leading cause of years of potential life lost below age 65 in Michigan but was the second leading cause of death. Accidents and adverse effects, which was the fifth leading cause of death, was the second leading cause of years of potential life lost. Chronic obstructive pulmonary disease, diabetes mellitus and pneumonia and influenza which were among the ten leading causes of death, were not among the ten leading causes of years of potential life lost below age 65.

Rankings of the leading causes of potential life lost were reasonably similar for Michigan and the United States with the exception of prematurity. For Michigan, prematurity was the seventh leading cause of years of potential life lost and fifth in the United States.

Table 2.21
Years of Potential Life Lost Below Age 65
Due to the Ten Leading Causes of Death and Selected Other Causes
Michigan Residents, 1994

Rank	Cause of Death	Years of Potential Life Lost			U.S. ² Rank
		Total ¹	Male	Female	
1	Malignant Neoplasms	70,986	36,402	34,579	2
2	Accidents and Adverse Effects	66,948	47,275	19,673	1
3	Homicide/Suicide	59,540	48,673	10,868	3
4	Diseases of the Heart	59,076	42,078	16,998	4
5	Prematurity ³	21,092	11,094	9,804	7
6	AIDS	19,716	17,519	2,197	6
7	Congenital Anomalies	19,627	9,784	9,715	5
8	Sudden Infant Death Syndrome	10,772	6,902	3,870	8
9	Chronic Liver Disease and Cirrhosis	10,256	7,180	3,077	10
10	Cerebrovascular Disease	10,147	5,366	4,782	9
11	Diabetes Mellitus	6,595	3,940	2,655	12
12	Pneumonia and Influenza	6,508	3,684	2,824	11
13	Chronic Obstructive Pulmonary Diseases and Allied Conditions	5,264	2,698	2,566	13
14	Atherosclerosis	420	210	210	n.a.
<i>All Other</i>		78,156	44,885	33,207	

¹ Total includes data for individuals with sex unspecified.

² U.S. rankings based on a 10 percent sample of provisional data.

³ Codes 765 and 769, detailed list of the 9th revision of the *International Classification of Diseases*, WHO.

INFANT DEATHS

Trends Of the 82,644 deaths occurring to Michigan residents in 1994, 1,184 occurred to individuals less than one year of age. The rate of death for infants under the age of one year has dropped considerably since 1900. In that year there were 157.1 infant deaths for every 1,000 live births. This means that about 16 of every 100 infants did not survive their first year (Figure 2.7). This rate fell below 100 by 1914 (96.8), to less than 70 by 1927 (67.7), and to less than 50 by 1935 (47.7). During the 1940's the Michigan infant death rate declined from 40.6 in 1940 to 28.9 in 1949.

Relative declines in the infant death rate slowed considerably in the 1950's and 1960's. It was not until 1971 that the rate dropped below 20 to 19.5. The rate of decline between 1970 and 1980 compares favorably with the rate of decline observed before 1950. During the decade of the 1980's the infant death rate fell 13.3 percent. In the four years since 1990, the infant death rate has fallen 19.6 percent (Table 2.22).

Michigan and United States Comparison During the period 1915-1928, the rate for Michigan was above that for the United States 9 of 14 years. From 1929 through 1969, Michigan's infant death rate was consistently below the national statistic. From 1970 through 1975 the infant mortality rate in Michigan

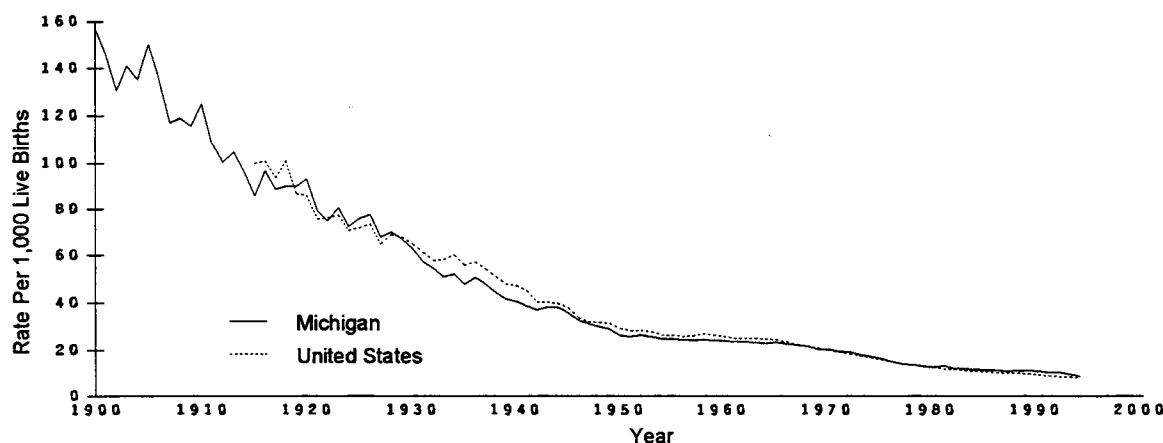
Table 2.22
Infant Deaths and Infant Death Rates
Michigan and United States Residents
Selected Years, 1950 - 1994

United States		Year	Michigan	
Number	Rate		Number	Rate
103,825	28.6	1950	4,230	26.4
110,873	26.0	1960	4,704	24.1
74,667	20.0	1970	3,492	20.3
45,526	12.6	1980	1,851	12.8
40,030	10.6	1985	1,575	11.4
38,891	10.4	1986	1,565	11.4
38,408	10.1	1987	1,538	10.9
38,910	10.0	1988	1,542	11.0
39,655	9.8	1989	1,645	11.1
38,351	9.2	1990	1,638	10.7
36,766	8.9	1991	1,554	10.4
34,628	8.5	1992	1,460	10.2
33,300Pr.	8.3Pr	1993	1,319	9.5
31,400Pr.	7.9Pr	1994	1,184	8.6

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

was slightly higher than the rate for the nation. From 1976 through 1980 the rates for the state and nation were similar. Since 1980 the rate for Michigan has been 5 to 20 percent above the national rate. The provisional rate for the United States in 1994 was 7.9 infant deaths per 1,000 live births. The Michigan rate of 8.6 was 8.9 percent higher than the national provisional rate in 1994 (Table 2.22).

Figure 2.7
Infant Mortality Rates
Michigan Residents, 1900 - 1994 and United States Residents, 1915 - 1994¹



¹ United States rates for 1993 and 1994 are provisional.

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

Early Infant Deaths Table 2.23 shows the numbers of infant deaths and infant death rates by age at death for the period 1970-1994. The number of infants who died during the first week of life in 1994 (657) is greater than the number of deaths of infants aged 7-364 days (527). In 1994, 65.5 percent of all infant deaths occurred within the first four

weeks of life and 44.0 percent occurred to infants less than one day old.

A review of Table 2.23 reveals that the 32.8 percent decline in the infant mortality rate since 1980 stems largely from reductions in the rate of death for those under 1 day and between 1 and 6 days of age.

Table 2.23
Infant Deaths and Infant Death Rates by Age at Death
Michigan Residents, Selected Years, 1970 - 1994

Year	Age at Death									
	Total Infant Death		<1 Day		1- 6 Days		7 - 27 Days		28 - 364 Days	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1970	3,492	20.3	1,367	8.0	1,095	6.4	221	1.3	809	4.7
1975	2,205	16.5	856	6.4	461	3.4	246	1.8	642	4.8
1980	1,851	12.8	790	5.4	310	2.1	184	1.3	567	3.9
1985	1,575	11.4	697	5.1	217	1.6	157	1.1	504	3.7
1986	1,565	11.4	680	4.9	237	1.7	162	1.2	486	3.5
1987	1,538	10.9	660	4.7	217	1.5	152	1.1	509	3.6
1988	1,542	11.0	685	4.9	213	1.5	170	1.2	474	3.4
1989	1,645	11.1	703	4.7	208	1.4	159	1.1	575	3.9
1990	1,638	10.7	673	4.4	219	1.4	181	1.2	565	3.7
1991	1,554	10.4	663	4.4	182	1.2	158	1.1	551	3.7
1992	1,460	10.2	648	4.5	173	1.2	141	1.0	498	3.5
1993	1,319	9.5	551	3.9	157	1.1	148	1.1	463	3.3
1994	1,184	8.6	521	3.8	136	1.0	118	0.9	409	3.0

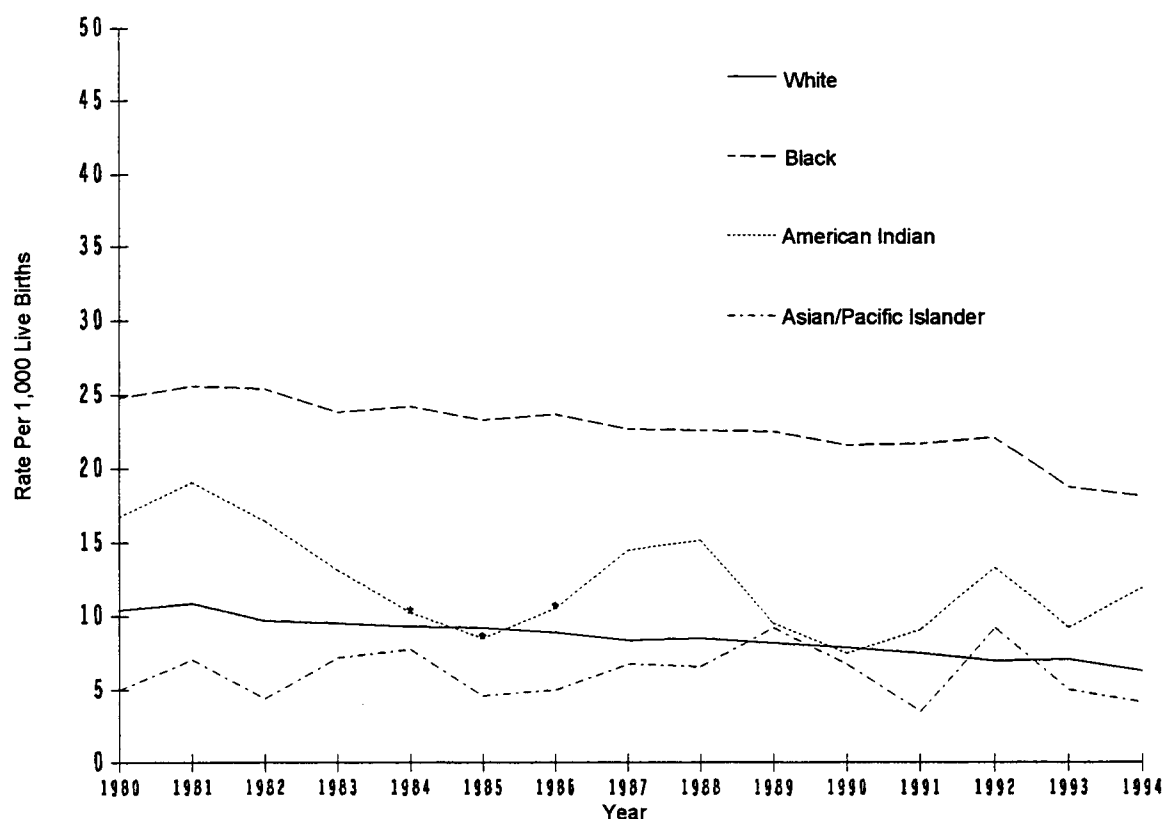
Source: Office of the State Registrar and Division of Health Statistics, MDPH

Trends in Infant Deaths by Race Infant death rates for white, black, American Indians and Asian and Pacific Islanders are graphically displayed in Figure 2.8. The rates used in this graph were calculated using the race of the mother for live births.

Black infant death rates were higher than rates for the other racial groups throughout the period. Where American Indian infant death rates could be calculated, they were usually higher than rates for white infants. Asian and Pacific Islander infant mortality rates were usually lower than rates for white infants.

The white infant mortality rate dropped 39.4 percent between 1980 and 1994, while for black infants the decline was 26.6 percent. The decline in black infant death rates was 17.6 percent from 1992 to 1994. The white infant death rate fell 10.0 percent from 1992 to 1994. The rate for black infants of 24.8 in 1980 was 2.4 times higher than that for white infants (10.4). By 1994 the mortality rate for black infants (18.2) was 2.9 times higher than the rate for white infants (6.3) due to the slower decline in the mortality rates experienced by black infants than white infants during the fifteen years.

Figure 2.8
Infant Death Rates by Race
Michigan Residents, 1980 - 1994



* Rate does not meet standards of precision or reliability.

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

Infant Death Rates In Table 2.24 infant, hebdomadal, fetal and perinatal deaths are presented by race and ancestry. The infant mortality rates for Asian/Pacific Islander infants and infants of Arab ancestry were 34.9 and 1.6 percent lower than the rate for white infants. Rates for black and American Indian infants were higher than the white rate.

Hebdomadal Death Rates The death rate during the first week of life was 3.2 times higher for black infants than white infants. It was somewhat lower for Asian/Pacific Islander and Arab infants than white infants.

Fetal Death Rates The fetal death rates were higher for births to black and American Indian mothers than white mothers. Fetal death rates were lowest for births to Arab and Hispanic mothers.

Perinatal Death Rates Perinatal deaths are fetal deaths plus hebdomadal deaths. Perinatal death rates were 2.1 times higher for fetuses and infants born to black mothers than white mothers. Perinatal death rates were lowest for fetuses and infants born to Arab mothers. American Indian infants experienced the highest perinatal death rate (20.2).

Table 2.24
Infant, Hebdomadal, Fetal and Perinatal Death Rates¹ by Specified Race and Ancestry
Michigan Residents, 1994

Race/Ancestry	Live ² Births	Infant Deaths		Hebdomadal Deaths ³		Fetal Deaths		Perinatal Deaths	
		Number ⁴	Rate	Number ⁴	Rate	Number ⁵	Rate	Number ⁶	Rate
All Races	137,844	1,184	8.6	657	4.8	731	5.3	1,388	10.1
White	106,828	670	6.3	357	3.3	511	4.8	868	8.1
Black	27,129	495	18.2	288	10.6	183	6.7	471	17.4
American Indian	841	10	11.9	6	7.1	11	13.1	17	20.2
Asian/Pacific Islander	2,209	9	4.1	6	2.7	9	4.1	15	6.8
Other Non-White	87	-	-	-	-	-	-	-	-
Unknown	750	-	-	-	-	17	22.7	17	22.7
Arab	2,582	16	6.2	8	3.1	6	2.3	14	5.4
Hispanic	4,435	42	9.5	18	4.1	17	3.8	35	7.9

¹ Rates calculated using live births by race/ancestry of mother as denominator.

² Mother's race/ancestry on birth certificate.

³ Death at age zero to six days.

⁴ Infants race/ancestry on death certificate.

⁵ Mother's race/ancestry on fetal death certificate.

⁶ Mother's race/ancestry on fetal death certificate, infant's race/ancestry on death certificate.

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

Causes of Infant Deaths Michigan resident infant deaths in 1994 are listed by cause of death classification and age at death in Table 2.25. Disorders relating to short gestation and unspecified low birth weight was listed as the cause of 243 deaths and was the specific disease category most frequently reported. Congenital anomalies was the second leading cause of death to infants, accounting for 220 deaths. Sudden infant death syndrome was responsible for 167 infant deaths in 1994, a 20.5 percent decrease from 1993. Over half of all infant deaths were attributed to these three conditions in 1994.

Causes of Death in First Day of Life For those infant deaths which occurred during the first day of life, over half were attributed to disorders relating to short gestation and unspecified low birth weight, respiratory distress syndrome or other respiratory conditions of newborn. About 1 in 6 deaths in the first day of life were due to congenital anomalies.

Causes of Neonatal Deaths The leading causes of death between 1 to 27 days of life were congenital anomalies and respiratory distress syndrome.

Causes of Postneonatal Deaths Sudden infant death syndrome was reported as the cause of 42.4 percent of the deaths to infants from 1-5 months of age and was also the leading cause from 6-11 months of age.

Causes of Death by Race Disorders related to short gestation, respiratory distress syndrome and other respiratory conditions of the newborn were the causes of death for 41.6 percent of the black infants but only 27.3 percent of the white infants (Table 2.26). The rate of infant deaths due to congenital anomalies for black infants was 31.3 percent higher than the rate for white infants. While the rate for deaths due to sudden infant death syndrome declined 20.5 percent overall, between 1993 and 1994, the rate for white infants declined 33.3 percent and the rate for black infants increased 0.1 percent.

Causes of Death for Male and Female Infants The death rate for male infants was 9.3 percent greater than that for female infants (Table 2.27). The death rate for males due to sudden infant death syndrome was 68.9 percent greater than rates for females. Deaths due to all other tabulated causes, except congenital anomalies, were higher for male infants.

Table 2.25
Infant Deaths by Age at Death and Underlying Cause
Michigan Residents, 1994

ICD - 9 CODE	Cause of Death	Age at Death					
		Total <1 Year	<1 Day	1-6 Days	7-27 Days	1-5 Months	6-11 Months
765	Disorders relating to short gestation and unspecified low birthweight	243	225	14	1	1	2
740-759	Congenital anomalies	220	86	38	35	48	13
798.0	Sudden infant death syndrome	167	-	-	14	139	14
769	Respiratory distress syndrome	83	31	34	14	2	2
770	Other respiratory conditions of newborn . . .	69	29	12	11	12	5
E800-949	Accidents and adverse effects	37	2	-	2	26	7
E960-969	Homicides	12	2	-	-	6	4
Residual	All other causes	353	146	38	41	94	34
Total		1,184	521	136	118	328	81

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

Table 2.26
Infant Deaths and Infant Death Rates¹ by Race^{2,3} and Underlying Cause
 Michigan Residents, 1994

ICD - 9 Code	Cause of Death	Race							
		Total		White		Black		Other	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate
765	Disorders relating to short gestation and unspecified low birthweight . . .	243	176.3	96	89.9	144	530.8	3	*
740-759	Congenital anomalies	220	159.6	162	151.6	54	199.0	4	*
798.0	Sudden infant death syndrome	167	121.2	88	82.4	76	280.1	3	*
769	Respiratory distress syndrome	83	60.2	46	43.1	36	132.7	1	*
770	Other respiratory conditions of newborn	69	50.1	41	38.4	26	95.8	2	*
E800-949	Accidents and adverse effects	37	26.8	19	17.8	17	62.7	1	*
E960-969	Homicides	12	8.7	9	8.4	3	*	-	-
Residual	All other causes	353	256.1	209	195.6	139	512.4	5	*
Total		1,184	858.9	670	627.2	495	1,824.6	19	605.7

¹ Rates per 100,000 live births.

² Numbers of infant deaths are by race of infant; rates are calculated using live births by race of mother as denominator.

³ Records with race not stated are included only in total columns.

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

Table 2.27
Infant Deaths and Infant Death Rates¹ by Sex² of Infant and Underlying Cause
 Michigan Residents, 1994

ICD - 9 CODE	Cause of Death	Sex of Infant					
		Total		Male		Female	
		Number	Rate	Number	Rate	Number	Rate
765	Disorders relating to short gestation and unspecified low birthweight	243	176.3	124	175.2	116	173.0
740-759	Congenital anomalies	220	159.6	111	156.8	107	159.6
798.0	Sudden infant death syndrome	167	121.2	107	151.2	60	89.5
769	Respiratory distress syndrome	83	60.2	48	67.8	35	52.2
770	Other respiratory conditions of newborn	69	50.1	36	50.9	33	49.2
E800-949	Accidents and adverse effects	37	26.8	21	29.7	16	23.9
E960-969	Homicides	12	8.7	5	*	7	10.4
Residual	All other causes	353	256.1	179	252.9	173	258.0
Total		1,184	858.9	631	891.5	547	815.7

¹ Rates per 100,000 live births.

² Records with sex not stated are included only in total columns.

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

Infant Deaths by Birth Characteristics Infants that died in 1994 were born in 1993 or 1994. These infants can be characterized by the information on their birth certificates. Death rates are calculated using birth characteristics of 1994 live births and 1994 infant deaths.

Infant Deaths by Mother's Age In 1994, the mortality rates were lower for infants born to white

mothers over 19 years of age, than for infants born to white mothers under 20 years of age. The mortality rates for infants born to black mothers between 15 and 24 years of age were lower than the rates for infants born to black mothers over 24 years of age. Rates for black infants were significantly above those for the white group in all age groups with a sufficient number of events to calculate rates.

Table 2.28
Infant Deaths, Live Births and Infant Death Rates by Age and Race^{1,2} of Mother
Michigan Residents, 1994

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	1,184	137,844	8.6	670	106,828	6.3	495	27,129	18.2	19	3,137	6.1
<15	9	397	22.7	5	123	*	4	269	*	-	4	-
15-19	208	17,051	12.2	99	10,386	9.5	108	6,322	17.1	1	304	*
20-24	319	34,448	9.3	171	24,547	7.0	140	9,104	15.4	8	685	11.7
25-29	281	39,789	7.1	163	32,788	5.0	111	5,774	19.2	7	1,014	6.9
30-39	334	44,214	7.6	213	37,404	5.7	119	5,370	22.2	2	1,073	*
40 +	15	1,912	7.8	9	1,558	5.8	5	280	*	1	57	*
Not Stated	18	33	545.5	10	22	454.5	8	10	800.0	-	-	-

¹ Race not stated included in total columns only.

² Numbers of infant deaths are by race of infant; rates are calculated using live births by race of mother as denominator.

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

Infant Deaths by Adequacy of Prenatal Care
 Infant death rates increased when the mother received less adequate prenatal care as measured by the Kessner Index (Table 2.29). The infant death rate was 3.3 times greater for mothers with inadequate care (21.1 deaths per 1,000 live births) than for mothers with adequate care (6.4 deaths per 1,000 live births) in 1994.

The pattern was similar for both white and black infants. When the mother received adequate care based on the number of visits, the month prenatal care began and the length of gestation, the infant death rate for black infants (13.8) was still 2.7 times greater than for infants born to white mothers (5.1 deaths per 1,000 live births).

Table 2.29
Infant Deaths, Live Births and Infant Death Rates by Level of Prenatal Care and Race^{1,2}
 Michigan Residents, 1994

Level of Care (Kessner Index ³)	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	1,184	137,844	8.6	670	106,828	6.3	495	27,129	18.2	19	3,137	6.1
Adequate	655	102,372	6.4	433	84,297	5.1	212	15,409	13.8	10	2,237	4.5
Intermediate	230	21,865	10.5	122	15,114	8.1	103	6,130	16.8	5	557	*
Inadequate	273	12,927	21.1	101	6,959	14.5	168	5,392	31.2	4	328	*
Unknown	26	680	38.2	14	458	30.6	12	198	60.6	-	15	-

¹ Race not stated included in total columns only.

² Numbers of infant deaths are by race of infant; rates are calculated using live births by race of mother as denominator.

³ The Kessner Index is a classification of prenatal care based on the month of pregnancy in which prenatal care began, the number of prenatal visits and the length of pregnancy (i.e., for shorter pregnancies, fewer prenatal visits constitute adequate care). See technical notes.

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

Infant Deaths by Birth Weight Infant death rates by race, birth weight and age at death are displayed in Table 2.30. While the overall infant death rate for black infants was 2.9 times that of white infants, the rates for black and white infants born weighing less than 750 grams were the same, (about 7 deaths out of every 10 births). The rates for black infants weighing 750 to 2,499 grams were slightly higher than the rate for their white counterparts. For infants weighing 2,500 grams or more the rate for black infants was 2.3 times the rate for white infants. A large part of the difference between infant death rates for white and black infants was due to the fact that a greater proportion of the infants born to black mothers were born at weights below 2,500 grams (14.4 percent for infants born to black mothers compared to 6.2 percent for infants born to white mothers).

Neonatal death rates were over three times higher for black infants than white infants. However the neonatal death rates for black infants with a birth weight below 750 grams were slightly higher than the corresponding white infants. These rates for black infants born between 750 to 2,499 grams were lower than the rates for white infants. The neonatal rate was about two times higher for black infants with birth weight of 2,500 grams or greater. After 28 days of life, the postneonatal death rates were consistently higher for black infants than white infants.

The postneonatal death rates are progressively higher as birth weight is lower but are less progressive than the neonatal rates.

Table 2.30
Live Births, Infant Deaths and Infant Death Rates by Birth Weight, Age at Death and Race^{1,2}
Michigan Residents, 1994

Birth Weight	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	137,844	1,184	8.6	775	5.6	409	3.0
	White	106,828	670	6.3	428	4.0	242	2.3
	Black	27,129	495	18.2	334	12.3	161	5.9
	All Other	3,137	19	6.1	13	4.1	6	1.9
Less Than 750 Grams	All Races	724	475	656.1	443	611.9	32	44.2
	White	352	230	653.4	216	613.6	14	39.8
	Black	350	239	682.9	221	631.4	18	51.4
	All Other	14	6	428.6	6	428.6	-	-
750-1,499 Grams	All Races	1,477	146	98.8	111	75.2	35	23.7
	White	864	85	98.4	67	77.5	18	20.8
	Black	593	59	99.5	42	70.8	17	28.7
	All Other	15	2	*	2	*	-	-
1,500-2,499 Grams	All Races	8,564	144	16.8	61	7.1	83	9.7
	White	5,364	91	17.0	44	8.2	47	8.8
	Black	2,959	53	17.9	17	5.7	36	12.2
	All Other	193	-	-	-	-	-	-
2,500 Grams Or Greater	All Races	126,789	372	2.9	122	1.0	250	2.0
	White	100,068	238	2.4	83	0.8	155	1.5
	Black	23,141	124	5.4	34	1.5	90	3.9
	All Other	2,910	10	3.4	5	*	5	*
Unknown Birthweight	All Races	290	47	162.1	38	131.0	9	31.0
	White	180	26	144.4	18	100.0	8	44.4
	Black	86	20	232.6	20	232.6	-	-
	All Other	5	1	*	-	-	1	*

¹ Race not stated included in "All Races" rows only.

² Numbers of infant deaths are by race of infant; rates are calculated using live births by race of mother as denominator.

Causes of Death by Maternal Smoking Status and Race The infant mortality rate for infants born to white mothers who reportedly smoked or used tobacco products during their pregnancy was 90.2 percent higher than the rate for infants born to white mothers who reportedly did not smoke during their pregnancy. Similarly, the rate for infants born to black mothers who reportedly smoked was 67.5 percent higher (Table 2.31).

Death rates were higher for each cause if the mother smoked during her pregnancy. The rate of death due to disorders related to short gestation/low birth weight were 37.5 percent higher for white mothers who smoked and SIDS rates were 2.8 times higher. Infants born to black mothers who smoked had death rates 30.4 percent higher for deaths due to disorders related to short gestation/low birth weight and 2.2 times higher for deaths due to SIDS than rates for infants born to non-smoking black mothers.

Table 2.31
**Infant Deaths and Infant Death Rates¹ by Race² of Mother,
 Smoking Status³ During Pregnancy and Underlying Cause of Death⁴**
 Michigan Residents, 1994

ICD - 9 Code	Cause of Death	All Races ⁵				White				Black			
		Smokers		Non-smokers		Smokers		Non-smokers		Smokers		Non-smokers	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
798.0	Sudden infant death syndrome	60	2.4	106	0.9	35	1.7	52	0.6	23	5.1	53	2.3
740-759	Congenital anomalies	53	2.1	155	1.4	40	2.0	113	1.3	11	2.4	40	1.8
765	Disorders relating to short gestation and unspecified low birthweight . . .	49	1.9	178	1.6	22	1.1	72	0.8	27	6.0	103	4.6
769	Respiratory distress syndrome	26	1.0	56	0.5	14	0.7	31	0.4	11	2.4	25	1.1
770	Other respiratory condition of newborn	20	0.8	47	0.4	16	0.8	24	0.3	4	*	21	0.9
760-764, 766-768, 771-779	Other Perinatal Conditions	19	0.7	52	0.5	10	0.5	26	0.3	9	2.0	25	1.1
E800-949	Accidents and adverse effects	16	0.6	16	0.1	7	0.3	8	0.1	9	2.0	7	0.3
Residual	All other causes	78	3.1	192	1.7	55	2.6	114	1.3	23	5.1	75	3.3
Total		321	12.6	802	7.1	199	9.7	440	5.1	117	25.8	349	15.4

¹ Rates per 1,000 live births.

² Numbers of infant deaths are by race of infant; rates are calculated using live births by race of mother as denominator.

³ Records with smoking status not stated are included in non-smoker columns

⁴ Records with cause of death pending are included only in the total row.

⁵ Records with race not stated are included only in total columns.

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

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 1994, Michigan resident perinatal deaths numbered 1,388 and the perinatal death rate was 10.0 (Table 2.32). As with infant death rates, perinatal death rates vary considerably with race and age of mother. The overall perinatal mortality rate for black fetuses and infants was 2.1 times the rate for white fetuses and infants.

There was an increased risk of a perinatal death for mothers under 20 years of age and over 29 years.

These rates are lowest for black women ages 20-24 years and for white women ages 25-29 years.

Perinatal Deaths by Adequacy of Prenatal Care
The perinatal death rates increased for mothers with less than adequate prenatal care (Table 2.33). The death rate was 3.3 times higher for mothers with inadequate care than for mothers with adequate care (23.4 vs. 7.2 deaths per 1,000 total births). The perinatal death rate for fetuses and infants born to black women with adequate care was nearly double the comparable rate for fetuses and infants of white women.

Table 2.32
Perinatal Deaths, Total Births and Perinatal Death Rates by Age and Race^{1,2} of Mother
Michigan Residents, 1994

Age of Mother in Years	All Races			White			Black			All Other Infants		
	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	1,388	138,575	10.0	868	107,339	8.1	471	27,312	17.2	32	3,157	10.1
<15	8	401	20.0	2	123	*	6	273	22.0	-	4	-
15-19	205	17,150	12.0	96	10,442	9.2	104	6,360	16.4	4	308	*
20-24	304	34,602	8.8	177	24,648	7.2	116	9,151	12.7	10	690	14.5
25-29	323	39,953	8.1	205	32,904	6.2	101	5,809	17.4	10	1,020	9.8
30-39	464	44,467	10.4	337	37,605	9.0	118	5,415	21.8	6	1,077	5.6
40 +	28	1,927	14.5	22	1,572	14.0	5	281	*	1	57	*
Not Stated	56	75	746.7	29	45	644.4	21	23	913.0	1	1	*

¹ Race not stated included in total columns only.

² Numbers of infant deaths are by race of infant; rates are calculated using live births by race of mother as denominator.

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

Table 2.33
Perinatal Deaths, Total Births and Perinatal Death Rates by Level of Prenatal Care and Race^{1,2} of Mother
Michigan Residents, 1994

Level of Care (Kessner Index ³)	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	1,388	138,575	10.0	868	107,339	8.1	471	27,312	17.2	32	3,157	10.1
Adequate	737	102,741	7.2	529	84,593	6.3	186	15,466	12.0	17	2,248	7.6
Intermediate	245	22,008	11.1	147	15,206	9.7	87	6,173	14.1	8	562	14.2
Inadequate	306	13,063	23.4	138	7,036	19.6	160	5,446	29.4	4	329	*
Unknown	100	763	131.1	54	504	107.1	38	227	167.4	3	18	*

¹ Race not stated included in total columns only.

² Numbers of infant deaths are by race of infant; rates are calculated using live births by race of mother as denominator.

³ The Kessner Index is a classification of prenatal care based on the month of pregnancy in which prenatal care began, the number of prenatal visits and the length of pregnancy (i.e., for shorter pregnancies, fewer prenatal visits constitute adequate care).

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

MARRIAGE & DIVORCE

SECTION III



MARRIAGE AND DIVORCE

KEY TRENDS

An Overview, 1994

Total Marriages	70,966
Total Divorces and Annulments	39,795
Marriage Rate ¹	15.0
Divorce Rate ¹	8.4
Median Age of the Bride	27
Median Age of the Groom	29
Median Age of Wife at Divorce Decree	34
Median Age of Husband at Divorce Decree	37
Median Duration of Marriage at Divorce Decree	7 Years

¹ Number of persons married or divorced per 1,000 population.

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

The number of marriages and divorces occurring in Michigan has increased considerably since 1900. While 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 1994 there were 70,966 marriages, a slight increase over 1993. In these two years the marriage rates were 15.0 per 1,000 population, the lowest rates since 1959.

The number of divorces and annulments increased from a low of 2,435 in 1900 to a high of 45,047 in 1980. In 1994 the number of divorces and annulments was 39,795. The divorce rate was 8.4 per 1,000 population, a 13.4 percent decrease since 1980.

Table 3.1
Marriages and Marriage Rates¹
Michigan and United States² Occurrences
Selected Years, 1900 - 1994

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
2,425,000	20.2	1985	79,022	17.4
2,407,099	20.0	1986	77,815	17.0
2,403,378	19.8	1987	74,418	16.2
2,395,926	19.6	1988	75,386	16.3
2,404,000	19.4	1989	76,210	16.4
2,448,000	19.6	1990	76,099	16.4
2,371,000Pr	18.8Pr	1991	72,747	15.5
2,362,000Pr	18.6Pr	1992	71,322	15.1
2,334,000Pr	18.0Pr	1993	70,771	15.0
2,362,000Pr	18.2Pr	1994	70,966	15.0

¹ Number of persons married per 1,000 population.

² Beginning with 1978, marriage data for the United States include nonlicensed marriages registered in California. If nonlicensed marriages were included in the 1977 total, the marriage rate would increase from 19.8 to 20.1.

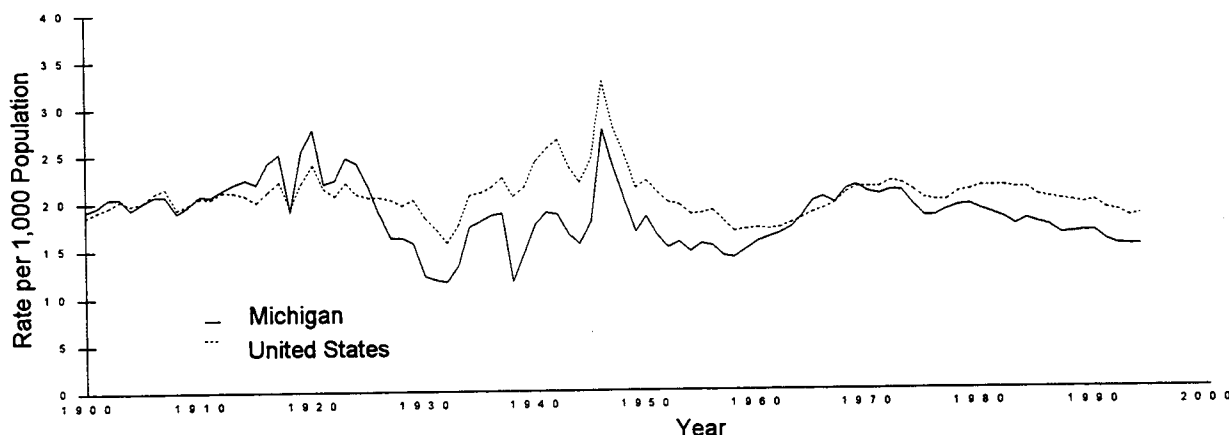
Source: Office of the State Registrar and Division of Health Statistics, MDPH

MARRIAGES

Since 1900 there have been noticeable changes in the marriage rates both nationally and in Michigan (Table 3.1 and Figure 3.1). Both nationally and in Michigan strong historic shifts in rates have been related most notably to the factors of war and the economy. The highest rates observed during this century were for the years immediately following the end of the two World Wars (27.7 in 1920 and 27.6 in 1946). The lowest rates occurred during the Great Depression of the 1930's.

The number of persons married each year per 1,000 population was higher in Michigan than in the country for 19 of the 26 years from 1900 through 1925. Since 1926, Michigan's marriage rate has been lower than the national rate, except during 1964 through 1969.

Figure 3.1
Marriage Rates
 Michigan and United States Occurrences, 1900-1994¹



¹ United States rates for 1991 through 1994 are provisional.

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

RESIDENCE OF COUPLES MARRYING IN MICHIGAN

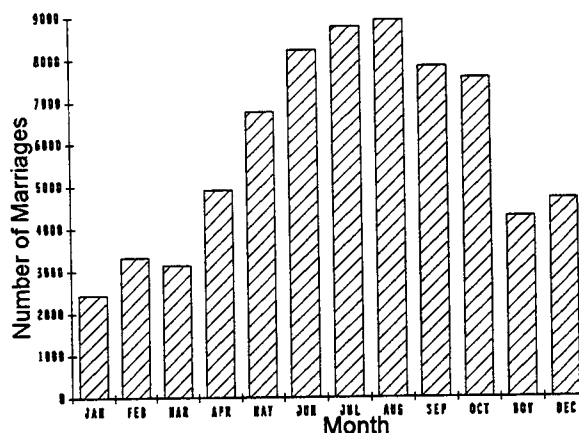
When presenting statistics of births, deaths and fetal deaths it is possible to provide total resident figures due to an interstate agreement for exchange of nonresident event information. Thus, should a Michigan resident give birth in some other state, the state will forward the information to Michigan. No such agreement exists for marriages. This is an important consideration when analyzing marriage statistics. The marriage data presented are drawn from all marriages performed in the state regardless of the couple's residence.

In general, most of the couples marrying in Michigan are residents of the state. For marriages occurring in Michigan in 1994, 95.0 percent of the brides were residents of Michigan, while 93.0 percent of the grooms were residents of the state. These data indicate that the general characteristics of marriages occurring in Michigan should be representative of marriage patterns for Michigan residents.

MONTH OF MARRIAGE

The number of marriages occurring in Michigan varies with the seasons (Figure 3.2). The most popular months for marriages in 1994 were August, July and June, with 8,939, 8,788 and 8,233 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 27.3 percent of the number which occurred in August.

Figure 3.2
Marriages by Month
 Michigan Occurrences, 1994



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

AGE AT MARRIAGE

Examination of the data in Table 3.2 reveals that females generally marry at a younger age than do males. The number of females who marry before the age of 20 was 2.7 times the corresponding number of males in 1994. Between ages 20 and 24, 29.1 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 1974, 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 80.1 percent. For individuals between 25 and 44 years of age, the marriage rate for males and females increased. The rates for persons 45 and over were about the same for males and females during these twenty years.

FIRST MARRIAGES

First marriages are an interesting component of all marriages in that they constitute an event that can never be duplicated. The frequency of first marriages reflects the propensity of the population as a whole to enter into marital agreements.

There has been a decline in the number of first marriages between 1984 and 1994. The number of first marriages dropped 14.8 percent for women and 12.3 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 under 20 age group for both brides and grooms, between 1984 and 1994. The number of first marriages also declined substantially for brides and grooms in the 20-24 year age group. There were significant increases in the number of first marriages of both brides and grooms between ages 25 and 44.

Between 1984 and 1994 the percentages of marriages which were first marriages increased for each age group over 20 years of age.

Table 3.2
Number of Marriages and Marriage Rates¹ by Age and Sex
Michigan Occurrences, 1974, 1984 and 1994

Age in Years	Males				Females			
	1974	1984	1994		1974	1984	1994	
	Rate	Rate	Number	Rate	Rate	Rate	Number	Rate
Under 20 ²	27.2	9.7	1,806	5.4	61.2	26.7	4,779	14.7
20-24	97.5	55.6	16,759	47.4	81.8	64.6	21,628	60.3
25-34	39.1	39.7	31,611	42.4	25.1	31.5	27,659	35.9
35-44	14.3	20.8	12,298	16.8	11.2	15.3	11,038	14.6
45 or Over	6.6	6.3	8,487	6.3	4.1	3.3	5,854	3.6
Total	19.7	18.3	70,966	15.5	19.0	17.3	70,966	14.6
Median Age at Last Birthday	29				27			

¹ Number of persons married per 1,000 population.

² 15 - 19 population used to obtain rate.

Table 3.3
Number of Marriages of Brides by Age and Order of Marriage
 Michigan Occurrences, 1984 and 1994

Age in Years	1984					1994				
	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	80,810	54,372	67.3	20,609	5,801	70,966	46,351	65.3	18,226	6,367
Under 20	11,563	11,465	99.2	91	1	4,779	4,741	99.2	38	-
20-24	30,359	27,945	92.0	2,300	103	21,628	20,417	94.4	1,162	39
25-29	17,424	11,174	64.1	5,571	677	17,612	13,746	78.0	3,484	375
30-34	8,784	2,752	31.3	4,810	1,218	10,047	4,771	47.5	4,386	888
35-39	4,953	651	13.1	3,055	1,246	6,743	1,776	26.3	3,517	1,449
40-44	2,850	187	6.6	1,739	924	4,295	630	14.7	2,222	1,443
45 or Over	4,873	196	4.0	3,042	1,632	5,854	265	4.5	3,416	2,172
Not Stated	4	2	50.0	1	-	6	3	50.0	1	1
Median Age at Last Birthday	24	22		32	38	27	24		35	38

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

Table 3.4
Number of Marriages of Grooms by Age and Order of Marriage
 Michigan Occurrences, 1984 and 1994

Age in Years	1984					1994				
	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	78,910	53,293	67.5	21,308	6,191	70,966	46,725	65.8	18,122	6,105
Under 20	4,808	4,330	90.1	6	-	1,806	1,803	99.8	3	-
20-24	26,542	25,374	95.6	923	25	16,759	16,289	97.2	457	8
25-29	20,182	16,455	81.5	4,251	308	19,554	17,030	87.1	2,408	111
30-34	10,167	5,147	50.6	5,137	956	12,057	7,559	62.7	3,971	524
35-39	6,144	1,228	20.0	3,817	1,308	7,389	2,685	36.3	3,696	1,007
40-44	3,635	352	9.7	2,395	1,137	4,909	876	17.8	2,728	1,305
45 or Over	7,421	403	5.4	4,777	2,456	8,487	480	5.7	4,858	3,149
Not Stated	11	4	36.4	2	1	5	3	60.0	1	1
Median Age at Last Birthday	26	24		35	42	29	26		37	45

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

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 1994.

The median age at first marriage in 1994 was 24 years 7 months for brides and 26 years 3 months for grooms.

REMARRIAGES

The proportion of all marriages which were remarriages is displayed graphically in Figure 3.4 for the period 1960-1994. Between 1960 and 1965, the proportion of remarriages dropped. Since 1965, this proportion has increased.

The number of remarriages among brides decreased by 6.9 percent between 1984 and 1994, while the number of brides who had been married at least three times previously increased by 9.8 percent. Total remarriages for grooms decreased by 11.9 percent, while the number of third or higher order marriages decreased (1.4 percent).

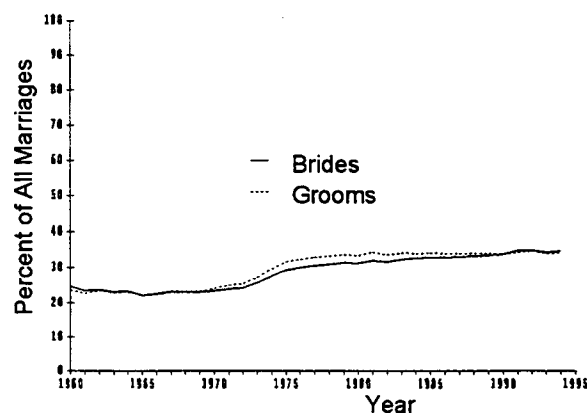
The median age at second and later marriages increased between 1984 and 1994 (Tables 3.3 and 3.4).

Figure 3.3
Median Age at First Marriage by Sex
Michigan Occurrences, 1953-1994



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

Figure 3.4
Percent of All Marriages that are Remarriages
Michigan Occurrences, 1960-1994



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

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 40,470 in 1993 and decreased slightly to 39,795 in 1994. The 1994 frequency was 11.7 percent below the 1980 frequency. Nationally, the provisional number of divorces in 1994 was a record high figure of 1,191,000.

The number of persons divorced in Michigan per thousand population generally increased from 2.0 in 1900 to the then century high of 5.1 in 1929, then declined between 1930 and 1933 to 3.1 (Figure 3.5). Between 1934 and 1946 the rate generally increased, peaking at 10.2 in 1946. The rate of divorces and annulments decreased to 3.6 in 1958 and increased to a high of 9.8 in 1978. It has fluctuated between 8.3 and 8.7 since 1982.

The national rates generally followed the same pattern, reaching a provisional rate of 9.2 in 1994. Michigan's divorce rate was higher than that for the United States each year from 1900 through 1947. In the following 46 years the Michigan divorce rate has been at or below the national rate 39 times, including each of the past 24 years. The lowest national rate was 1.5 in 1900. The highest national divorce rate during this century was recorded in 1981 (10.6).

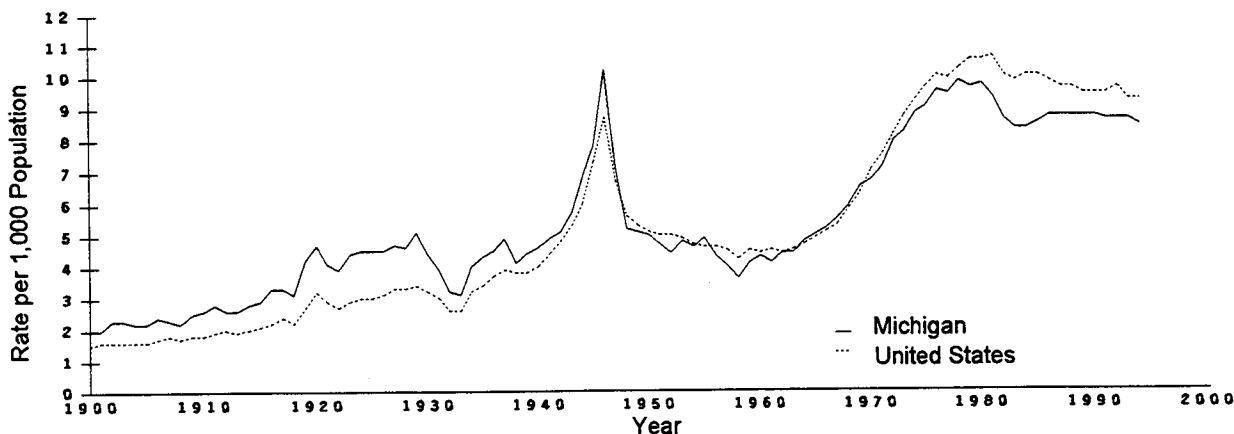
Table 3.5
Number of Divorces and Annulments
Divorce and Annulment Rates¹
Michigan and United States Occurrences
Selected Years, 1900 - 1994

United States		Year	Michigan	
Number	Rate		Number	Rate
56,000	1.5	1900	2,435	2.0
8,300	1.8	1910	3,716	2.6
170,505	3.2	1920	8,679	4.7
195,961	3.2	1930	10,639	4.4
264,000	4.0	1940	12,054	4.6
385,144	5.1	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	10.5	1980	45,047	9.7
1,190,000	10.0	1985	38,775	8.5
1,178,000	9.8	1986	39,553	8.7
1,166,000	9.6	1987	39,857	8.7
1,167,000	9.6	1988	40,103	8.7
1,163,000	9.4	1989	40,276	8.7
1,175,000	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 Number of persons whose marriages ended in divorce or annulment per 1,000 population.

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

Figure 3.5
Divorce Rates
Michigan and United States Occurrences, 1900-1994¹



¹ United States rates for 1991 through 1994 are provisional.

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

The number of children under 18 of couples dissolving marriages in 1994 was at least 38,794 (Table 3.6). This is 21.7 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 17.0 in 1981 (Table 3.6). It has fluctuated between 14.7 and 16.1 per 1,000 children during the

last ten years. The average number of children per divorce has, nonetheless, dropped from a high of 1.37 children in 1971 to 0.97 in 1994.

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 - 1994

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	17.0	1981	1,180,000	0.97	18.7
41,156	1.04	15.8	1982	1,108,000	0.94	17.6
38,712	1.02	15.3	1983	1,091,000	0.94	17.4
37,629	1.00	14.8	1984	1,081,000	0.92	17.2
38,673	1.00	15.3	1985	1,091,000	0.92	17.3
39,378	1.00	15.7	1986	1,064,000	0.90	16.8
39,321	1.00	15.7	1987	1,038,000	0.89	16.3
39,635	0.99	15.9	1988	1,044,000	0.89	16.4
39,897	0.99	16.1	1989	1,063,000	0.91	16.8
39,792	0.98	16.0	1990	1,075,000	0.90	16.8
39,000	0.97	15.6	1991	---	---	---
39,579	0.98	15.8	1992	---	---	---
39,372	0.97	15.7	1993	---	---	---
38,794	0.97	14.7	1994	---	---	---

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

REFERENCE APPENDIX

SECTION IV

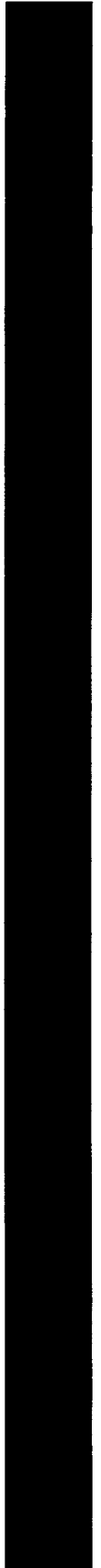
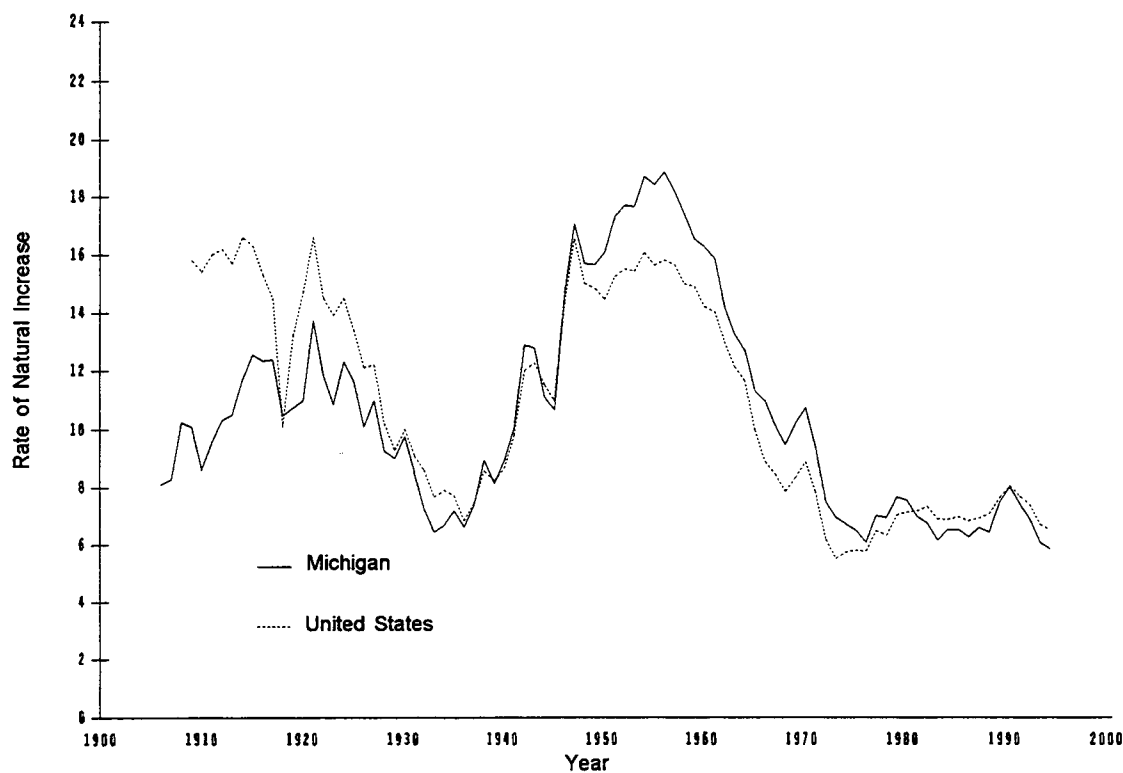


Figure 4.1
Rate of Natural Increase¹
 Michigan, 1906 - 1994 and the United States, 1909 - 1994²



¹ Excess of live births over deaths per 1,000 population.

² 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. 1993-1994 United States data is provisional.

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

Table 4.1
Population, Live Births, Deaths (All Ages, Infant, Neonatal, Postneonatal, Perinatal, Fetal and Maternal),
Marriages and Divorces
Michigan, 1900 - 1994

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

Year	Population ¹	Live Births	Deaths							Marriages	Divorces ³
			All Ages	<1 Year	<28 Days ²	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

¹ 1971-1979 population estimates have been revised by the U.S. Census Bureau. 1992 estimated population is being used to calculate 1993 and 1994 rates.

² For years prior to 1950 deaths under 1 month of age are included in deaths under 28 days.

³ 1974 divorce data is an estimate.

Table 4.1 (continued)
Population, Live Births, Deaths (All Ages, Infant, Neonatal, Postneonatal, Perinatal, Fetal and Maternal),
Marriages and Divorces
Michigan, 1900 - 1994

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

Year	Population ¹	Live Births	Deaths							Marriages	Divorces ³
			All Ages	<1 Year	<28 Days ²	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	9,262,078	145,162	74,991	1,851	1,284	567	2,235	1,135	16	86,898	45,047
1981	9,270,000	140,579	75,818	1,851	1,281	570	2,151	1,040	7	85,252	43,167
1982	9,227,327	137,950	75,536	1,672	1,202	470	1,988	954	11	82,633	39,739
1983	9,155,480	133,026	76,639	1,573	1,067	506	1,843	933	6	78,910	37,991
1984	9,057,432	135,782	76,401	1,595	1,100	495	1,884	929	4	80,810	37,563
1985	9,088,341	138,052	78,635	1,575	1,071	504	1,867	953	9	79,022	38,775
1986	9,144,545	137,626	80,177	1,565	1,079	486	1,782	865	11	77,815	39,553
1987	9,199,871	140,466	79,795	1,538	1,029	509	1,701	824	8	74,418	39,857
1988	9,239,811	139,635	80,075	1,542	1,068	474	1,659	761	11	75,386	40,103
1989	9,273,429	148,164	78,566	1,645	1,070	575	1,792	881	13	76,210	40,276
1990	9,295,297	153,080	78,501	1,638	1,073	565	1,722	830	10	76,099	40,568
1991	9,375,057	149,478	79,738	1,554	1,003	551	1,620	775	16	72,747	40,103
1992	9,433,666	143,827	78,916	1,460	962	498	1,576	755	15	71,322	40,425
1993	9,433,666	139,560	82,286	1,319	856	463	1,434	726	8	70,771	40,470
1994	9,433,666	137,844	82,644	1,184	775	409	1,388	731	8	70,966	39,795

¹ 1971-1979 population estimates have been revised by the U.S. Census Bureau. 1992 estimated population is being used to calculate 1993 and 1994 rates.

² For years prior to 1950 deaths under 1 month of age are included in deaths under 28 days.

³ 1974 divorce data is an estimate.

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

Table 4.2
Live Birth Rates, Death Rates (All Ages, Infant, Neonatal, Postneonatal, Perinatal and Maternal),
Fetal Death Ratios, Marriage and Divorce Rates
Michigan, 1900 - 1994

*(Birth rate, death rate for all ages, rate of persons married and rate of persons divorced per 1,000 population¹.
Fetal death ratio, mortality rates for deaths under 1 year, under 28 days, and from 28-364 days per 1,000 live births.
Maternal mortality rate per 100,000 live births. Perinatal mortality rate per 1,000 live births and fetal deaths.)*

Year	Live Births	Deaths							Marriages	Divorces ³
		All Ages	<1 Year	<28 Days ²	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

¹ 1971-1979 birth, death, marriage and divorce rates have been recalculated using revised population estimates. 1992 estimated population is used to calculate 1993 and 1994 rates.

² For years prior to 1950 deaths under 1 month of age are included in deaths under 28 days.

³ 1974 divorce data is an estimate.

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

Table 4.2 (continued)
Live Birth Rates, Death Rates (All Ages, Infant, Neonatal, Postneonatal, Perinatal and Maternal),
Fetal Death Ratios, Marriage and Divorce Rates
Michigan, 1900 - 1994

*(Birth rate, death rate for all ages, rate of persons married and rate of persons divorced per 1,000 population¹.
Fetal death ratio, mortality rates for deaths under 1 year, under 28 days, and from 28-364 days per 1,000 live births.
Maternal mortality rate per 100,000 live births. Perinatal mortality rate per 1,000 live births and fetal deaths.)*

Year	Live Births	Deaths							Marriages	Divorces ³
		All Ages	<1 Year	<28 Days ²	28-364 Days	Perinatal	Fetal	Maternal		
1950	25.1	9.0	26.3	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	49.7	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	23.6	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	15.2	8.2	13.2	9.1	4.1	15.2	7.4	5.0	18.4	9.3
1982	15.0	8.2	12.1	8.7	3.4	14.3	6.9	8.0	17.9	8.6
1983	14.5	8.4	11.8	8.0	3.8	13.8	7.0	4.5	17.2	8.3
1984	15.0	8.4	11.7	8.1	3.6	13.8	6.8	*	17.8	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	17.0	8.7
1987	15.3	8.7	10.9	7.3	3.6	12.0	5.7	5.7	16.2	8.7
1988	15.1	8.7	11.0	7.6	3.4	11.9	5.4	7.9	16.3	8.7
1989	16.0	8.5	11.1	7.2	3.9	12.0	5.9	8.8	16.4	8.7
1990	16.5	8.4	10.7	7.0	3.7	11.2	5.4	6.5	16.4	8.7
1991	15.9	8.5	10.4	6.7	3.7	10.8	5.2	10.7	15.5	8.6
1992	15.2	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	14.6	8.8	8.6	5.6	3.0	10.0	5.3	5.8	15.0	8.4

¹ 1971-1979 birth, death, marriage and divorce rates have been recalculated using revised population estimates. 1992 estimated population is used to calculate 1993 and 1994 rates.

² For years prior to 1950 deaths under 1 month of age are included in deaths under 28 days.

³ 1974 divorce data is an estimate.

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

Table 4.3
Number of Live Births by Age of Mother
Michigan Residents, 1920 - 1994

Year	All Ages ¹	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

¹ Total live births for the years 1920 through 1959 differ from figures in Table 4.1 as they are derived from outside sources. Live births by age of mother were not tabulated in Michigan prior to 1960. These data were obtained from the following sources:

1920-1923: Unpublished tables from the National Center for Health Statistics.

1924-1932: Bureau of the Census publication, *Birth, Stillbirth and Infant Mortality Statistics for Birth, Registration Areas of the United States*.

1933-1936: Unpublished tables from the National Center for Health Statistics.

1937-1949: Bureau of the Census publication, *Vital Statistics of the United States series*.

1950-1959: Department of Health Education and Welfare publication, *Vital Statistics of the United States series*.

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

Table 4.3 (continued)
Number of Live Births by Age of Mother
 Michigan Residents, 1920 - 1994

Year	All Ages ¹	Age of Mother								Not Stated
		10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 +	
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

¹ Total live births for the years 1920 through 1959 differ from figures in Table 4.1 as they are derived from outside sources. Live births by age of mother were not tabulated in Michigan prior to 1960. These data were obtained from the following sources:

1920-1923: Unpublished tables from the National Center for Health Statistics.

1924-1932: Bureau of the Census publication, Birth, Stillbirth and Infant Mortality Statistics for Birth, Registration Areas of the United States.

1933-1936: Unpublished tables from the National Center for Health Statistics.

1937-1949: Bureau of the Census publication, Vital Statistics of the United States series.

1950-1959: Department of Health Education and Welfare publication, Vital Statistics of the United States series.

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

Table 4.4
Live Birth Rates¹ by Age of Mother
 Michigan Residents, 1920 - 1994

(Live birth rates are per 1,000 women per year. Total fertility rate is total children to 1,000 women in their lifetime assuming constant live birth rates.)

Year	Age of Mother								Total Fertility Rate
	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45+ ²	
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

¹ 1992 estimated population is used to calculate 1993 and 1994 rates.

² Number of live births to women aged 45 and over per 1,000 women 45-49 years of age.

Source: Population figures used for 1920-1970 rates are from *General Population Characteristics, Michigan*, USBC, 1971, with arithmetic extrapolation between census years. For 1971-1988 population source, see Technical Notes.

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

Table 4.4 (continued)
Live Birth Rates¹ by Age of Mother
 Michigan Residents, 1920 - 1994

(Live birth rates are per 1,000 women per year. Total fertility rate is total children to 1,000 women in their lifetime assuming constant live birth rates.)

Year	Age of Mother								Total Fertility Rate
	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45+ ²	
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	2,584.5
1971	1.0	63.7	157.3	142.4	71.2	29.0	7.4	0.4	2,353.0
1972	1.1	61.6	137.4	122.7	60.8	24.2	6.1	0.4	2,071.0
1973	1.2	59.9	128.0	117.3	55.2	21.5	5.1	0.2	1,945.0
1974	1.1	55.3	122.3	113.7	52.4	17.7	4.4	0.2	1,846.5
1975	1.0	52.0	116.8	109.3	49.6	17.5	4.2	0.2	1,771.0
1976	0.9	48.0	111.0	107.5	49.1	16.3	3.4	0.2	1,709.5
1977	1.0	48.4	114.3	112.7	52.9	16.3	3.3	0.2	1,767.0
1978	0.8	46.5	111.5	111.6	54.5	16.8	3.1	0.2	1,739.5
1979	0.9	46.7	114.0	114.9	57.0	16.8	3.0	0.2	1,774.0
1980	0.8	44.8	113.1	115.6	58.4	16.4	3.1	0.1	1,761.5
1981	0.8	41.3	103.5	110.8	59.5	16.2	3.0	0.2	1,817.5
1982	0.9	39.2	98.0	107.6	59.2	18.4	3.1	0.1	1,811.5
1983	0.9	37.9	89.8	104.0	58.0	19.3	3.6	0.2	1,772.5
1984	1.0	43.8	103.8	111.4	65.2	19.3	3.0	0.1	1,738.0
1985	1.0	43.9	104.1	115.1	67.1	20.5	3.1	0.2	1,775.0
1986	1.0	45.2	101.6	114.4	68.3	21.8	2.9	0.1	1,776.5
1987	1.0	46.9	102.3	117.1	71.5	22.9	3.3	0.2	1,826.0
1988	1.1	47.8	99.2	115.8	73.0	23.9	3.6	0.2	1,823.0
1989	1.2	54.6	105.7	122.3	78.2	26.4	3.8	0.2	1,962.0
1990	1.3	58.8	112.3	125.0	77.5	27.5	4.1	0.2	2,033.6
1991	1.2	58.7	109.6	122.7	77.6	27.3	4.1	0.1	2,012.0
1992	1.1	56.4	104.4	119.0	77.2	28.2	4.5	0.2	1,955.0
1993	1.1	52.9	99.6	112.7	78.0	29.4	4.6	0.2	1,892.5
1994	1.2	52.5	96.0	109.4	78.8	30.4	5.2	0.2	1,868.5

¹ 1992 estimated population is used to calculate 1993 and 1994 rates.

² Number of live births to women aged 45 and over per 1,000 women 45-49 years of age.

Source: Population figures used for 1920-1970 rates are from General Population Characteristics, Michigan, USBC, 1971, with arithmetic extrapolation between census years. For 1971-1988 population source, see Technical Notes.

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

Table 4.5
Reported Cases of Certain Communicable Diseases
Michigan Residents, 1900 - 1994

Year	Diphtheria	Smallpox	Typhoid Fever	Whooping Cough	Measles	Hepatitis (all types)	TB ¹ (all forms)	Meningo- coccal Infections ²	Polio	Syphilis ³	Gonorrhea	Acquired Immune Deficiency Syndrome
1900	2,706	694	5,122	3,375	20,356		2,721	654				
1901	2,498	5,088	3,002	2,955	4,629		2,915	506				
1902	2,993	7,086	2,456	3,534	11,978		2,658	528				
1903	3,670	6,341	2,840	4,172	8,941		2,745	525				
1904	3,510	5,753	3,028	1,779	10,386		2,928	448				
1905	2,159	2,985	2,774	1,196	6,061		2,590	577				
1906	3,648	1,240	3,163	1,364	7,403		2,653	533				
1907	2,935	1,712	1,953	872	12,139		2,699	575				
1908	2,658	2,306	2,656	1,248	4,775		2,705	487				
1909	3,109	1,533	2,694	1,054	9,047		3,423	457				
1910	3,433	3,319	3,361	1,136	13,934		4,415	522	104			
1911	3,762	888	2,660	1,897	9,639		5,254	478	68			
1912	3,294	1,127	2,847	1,255	2,834		1,958	88	78			
1913	5,505	1,995	2,253	929	9,185		1,920	165	56			
1914	5,149	1,527	2,167	1,822	11,356		2,566	205	49			
1915	4,386	1,094	1,956	2,258	4,438		3,648	107	95			
1916	5,625	1,581	2,513	1,837	12,143		7,076	163	598			
1917	8,499	3,674	1,723	3,211	14,472		4,856	75	91			
1918	6,128	5,241	1,339	2,563	6,726		3,655	95	121			
1919	7,896	2,381	1,254	1,829	8,885		4,231	75	155	5,077	7,910	
1920	10,360	4,818	1,421	7,171	22,364		4,994	203	67	8,117	11,463	
1921	12,075	4,512	1,837	6,696	3,043		5,708	173	483	7,421	9,774	
1922	8,513	1,230	1,108	5,642	12,107		5,573	159	43	7,900	9,717	
1923	7,725	2,311	982	7,617	30,041		5,471	186	39	10,480	9,597	
1924	6,011	4,527	782	4,364	18,290		5,570	157	647	13,000	10,490	
1925	3,925	784	962	7,576	10,332		5,785	128	99	14,668	10,660	
1926	5,377	549	583	8,776	39,946		5,387	96	107	14,872	10,707	
1927	4,575	1,467	581	6,818	8,303		5,406	138	282	15,713	9,318	
1928	3,724	1,335	390	9,700	27,039		5,885	276	77	15,323	8,592	
1929	4,618	2,410	310	9,340	18,040		6,248	1,864	180	16,606	9,661	
1930	3,206	2,375	504	7,937	28,129		5,128	901	208	16,538	8,554	
1931	1,831	915	424	11,448	6,212		6,132	293	1,137	14,662	7,843	
1932	1,188	222	513	13,091	42,129		7,103	129	112	11,969	6,963	
1933	1,152	46	453	11,720	21,654		6,624	86	93	7,691	6,447	
1934	614	49	486	11,255	6,528		5,264	53	230	6,483	6,188	
1935	645	16	355	13,427	79,061		4,642	113	614	6,416	6,372	
1936	661	32	287	14,287	2,453		5,157	120	152	6,401	6,460	
1937	842	152	241	11,426	6,154		6,469	87	421	8,708	7,072	
1938	619	274	285	14,563	79,400		6,335	69	59	14,684	7,046	
1939	452	371	177	8,997	12,948		6,119	46	904	13,144	6,364	
1940	264	76	120	11,757	20,206		6,063	49	1,228	9,999	7,650	
1941	242	114	147	16,512	70,748		5,371	49	270	11,370	8,767	
1942	243	17	74	11,602	8,569		5,720	66	162	12,461	8,753	
1943	281	18	115	12,091	51,764		6,546	757	255	15,933	9,526	
1944	419	10	78	4,049	26,711		6,419	857	884	17,288	11,987	
1945	630	16	59	5,339	6,328	134	5,471	270	215	16,046	12,565	
1946	385	3	85	8,116	42,261	34	5,548	185	1,091	18,051	12,635	
1947	238	1	77	10,472	9,574	14	6,470	113	646	15,276	10,989	
1948	126	-	49	2,668	42,952	9	6,109	107	775	12,100	9,448	
1949	119	-	48	4,157	20,279	28	5,953	120	2,909	8,740	9,427	

¹ 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.

² Meningococcal infections prior to 1952 data were for meningococcal meningitis.

³ Starting with 1992 data, syphilis counts represent only primary and secondary cases. Prior year counts included early latent cases.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDPH

Table 4.5 (continued)
Reported Cases of Certain Communicable Diseases
 Michigan Residents, 1900 - 1994

Year	Diphtheria	Smallpox	Typhoid Fever	Whooping Cough	Measles	Hepatitis (all types)	TB ¹ (all forms)	Meningo- coccal Infections ²	Polio	Syphilis ³	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	-	584	37,920	149
1987	-	-	5	54	42	1,610	540	111	1	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	13	1,238	496	87	-	1,022	21,470	706
1993	-	-	8	116	6	1,015	463	65	-	635	17,870	1,735
1994	-	-	-	96	26	997	447	59	-	321	18,100	1,141

¹ 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.

² Meningococcal infections prior to 1952 data were for meningococcal meningitis.

³ Starting with 1992 data, syphilis counts represent only primary and secondary cases. Prior year counts included early latent cases.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDPH

Table 4.6
Case Rates¹ of Certain Reported Communicable Diseases
 Michigan Residents, 1900 - 1994
(Rates per 100,000 population)

Year	Diphtheria	Smallpox	Typhoid Fever	Whooping Cough	Measles	Hepatitis (all types)	TB ² (all forms)	Meningo- coccal Infections ³	Polio	Syphilis ⁴	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	

¹ 1992 estimated population is used to calculate 1993 and 1994 rates.

² 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.

³ Meningococcal infections prior to 1952 data were for meningococcal meningitis.

⁴ Starting with 1992 data, syphilis counts represent only primary and secondary cases. Prior year counts included early latent cases.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDPH.

Table 4.6 (continued)
Case Rates¹ of Certain Reported Communicable Diseases
 Michigan Residents, 1900 - 1994
(Rates per 100,000 population)

Year	Diphtheria	Smallpox	Typhoid Fever	Whooping Cough	Measles	Hepatitis (all types)	TB ² (all forms)	Meningo- coccal Infections ³	Polio	Syphilis ⁴	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	12.6	0.8	*	12.6	377.4	
1981	-	-	0.3	0.3	0.4	18.3	10.0	1.0	-	11.4	350.9	*
1982	-	-	0.2	0.4	0.7	18.9	9.4	0.9	-	10.0	356.0	*
1983	-	-	0.1	0.5	0.1	19.5	8.6	1.0	-	8.0	372.1	0.2
1984	-	-	0.1	0.3	5.1	19.0	7.3	1.0	-	8.3	383.9	0.5
1985	-	-	0.1	0.6	0.7	16.4	5.9	1.2	-	7.2	368.8	0.9
1986	-	-	*	0.4	0.2	13.8	6.8	0.9	-	6.4	414.8	1.6
1987	-	-	*	0.6	0.5	17.5	5.9	1.2	*	6.8	503.8	2.4
1988	-	-	*	0.4	0.3	13.0	5.5	1.0	-	11.0	405.1	3.9
1989	-	-	0.1	0.5	3.9	11.3	5.0	0.8	-	17.4	362.6	5.5
1990	-	-	0.1	0.9	5.9	12.0	5.4	0.7	-	28.2	331.1	6.2
1991	-	-	0.1	0.4	0.7	11.9	4.8	0.8	-	37.5	288.2	5.0
1992	-	-	*	0.2	0.2	13.1	5.3	0.9	-	10.8	227.6	7.5
1993	-	-	0.1	1.2	0.1	10.8	4.9	0.7	-	6.7	189.4	18.4
1994	-	-	-	1.0	0.3	10.6	4.7	0.6	-	3.4	191.9	12.1

¹ 1992 estimated population is used to calculate 1993 and 1994 rates.

² 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.

³ Meningococcal infections prior to 1952 data were for meningococcal meningitis.

⁴ Starting with 1992 data, syphilis counts represent only primary and secondary cases. Prior year counts included early latent cases.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDPH.

Table 4.7
Number of Deaths and Death Rates¹ for Certain Communicable Diseases
 Michigan Residents, 1900 - 1994
(Rates per 100,000 population)

Year	Diphtheria		Strep. Sore Throat Including Scarlet Fever		Typhoid Fever		Whooping Cough		Measles	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1900	529	21.9	272	11.2	869	35.9	208	8.6	342	14.1
1901	502	20.4	312	12.7	645	26.2	163	6.6	79	3.2
1902	504	20.2	277	11.1	608	24.3	289	11.6	238	9.5
1903	686	27.0	200	7.9	606	23.9	383	15.1	176	6.9
1904	515	20.0	210	8.1	641	24.9	148	5.7	194	7.5
1905	478	18.3	123	4.7	636	24.3	131	5.0	123	4.7
1906	472	17.8	227	8.6	721	27.2	469	17.7	251	9.5
1907	421	15.6	159	5.9	594	22.1	223	8.3	256	9.5
1908	343	12.6	194	7.1	687	25.1	305	11.2	121	4.4
1909	395	14.3	275	9.9	653	23.6	217	7.8	270	9.7
1910	495	17.6	297	10.6	654	23.3	318	11.3	251	8.9
1911	473	16.3	208	7.2	551	19.0	254	8.8	200	6.9
1912	465	15.6	186	6.2	534	17.9	252	8.5	118	4.0
1913	676	22.0	283	9.2	538	17.5	292	9.5	258	8.4
1914	507	16.1	177	5.6	400	12.7	304	9.6	180	5.7
1915	354	10.9	107	3.3	353	10.9	236	7.3	101	3.1
1916	507	15.2	177	5.3	424	12.8	228	6.9	363	10.9
1917	851	24.9	340	10.0	386	11.3	360	10.6	259	7.6
1918	686	19.6	181	5.2	337	9.6	496	14.2	270	7.7
1919	764	21.3	179	5.0	272	7.6	172	4.8	183	5.1
1920	888	24.2	305	8.3	297	8.1	511	13.9	436	11.9
1921	954	25.2	334	8.8	285	7.5	316	8.3	58	1.5
1922	620	15.9	217	5.6	192	4.9	232	5.9	232	5.9
1923	675	16.8	304	7.6	202	5.0	323	8.0	258	6.4
1924	470	11.4	265	6.4	149	3.6	169	4.1	221	5.3
1925	358	8.4	208	4.9	157	3.7	260	6.1	69	1.6
1926	677	15.5	235	5.4	119	2.7	355	8.1	577	13.2
1927	516	11.5	168	3.7	94	2.1	201	4.5	67	1.5
1928	384	8.3	178	3.9	83	1.8	219	4.8	303	6.6
1929	498	10.5	145	3.1	81	1.7	255	5.4	146	3.1
1930	299	6.2	130	2.7	87	1.8	176	3.6	231	4.8
1931	172	3.5	122	2.5	73	1.5	190	3.9	28	0.6
1932	106	2.2	112	2.3	56	1.1	199	4.0	183	3.7
1933	112	2.3	157	3.2	50	1.0	153	3.1	111	2.2
1934	38	0.8	171	3.4	65	1.3	141	2.8	36	0.7
1935	58	1.1	98	1.9	34	0.7	132	2.6	184	3.6
1936	52	1.0	114	2.2	37	0.7	107	2.1	12	0.2
1937	72	1.4	148	2.9	29	0.6	132	2.6	11	0.2
1938	44	0.9	87	1.7	23	0.4	116	2.2	100	1.9
1939	25	0.5	69	1.3	25	0.5	76	1.5	29	0.6
1940	20	0.4	41	0.8	11	0.2	59	1.1	19	0.4
1941	18	0.3	32	0.6	14	0.3	91	1.7	65	1.2
1942	24	0.4	23	0.4	5	*	72	1.3	8	0.1
1943	21	0.4	11	0.2	9	0.2	101	1.9	89	1.7
1944	32	0.6	7	0.1	7	0.1	33	0.6	49	0.9
1945	46	0.8	9	0.2	3	*	36	0.7	10	0.2
1946	27	0.5	3	*	6	0.1	44	0.8	47	0.8
1947	23	0.4	6	0.1	5	*	63	1.0	5	*
1948	8	0.1	1	*	4	*	9	0.1	43	0.7
1949	11	0.2	4	*	1	*	22	0.3	33	0.5

¹ 1992 estimated population is used to calculate 1993 and 1994 rates.

² Effective January 1975, a new diagnostic classification system for tuberculosis was adopted. As a result, deaths and rates prior to 1975 are not directly comparable to the figures in 1975 and later years.

³ From 1901 through 1920, syphilis includes all other venereal diseases, beginning with 1968 excludes aortic aneurysms not specified as syphilitic.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDPH

Table 4.7 (continued)
Number of Deaths and Death Rates¹ for Certain Communicable Diseases
Michigan Residents, 1900 - 1994
(Rates per 100,000 population)

Year	TB of the Respiratory System		Tuberculosis ² (all forms)		Poliomyelitis		Syphilis ¹		Gonorrhea		AIDS	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1900	2,018	83.4	2,500	103.3								
1901	2,152	87.5	2,548	103.6			88	3.6				
1902	2,088	83.6	2,462	98.5			114	4.6				
1903	2,155	84.9	2,562	101.0			130	5.2				
1904	2,306	89.5	2,761	107.2			101	4.0				
1905	2,288	87.5	2,732	104.5			89	3.5				
1906	2,303	86.8	2,737	103.1			89	3.4				
1907	2,338	86.8	2,728	101.3			94	3.6				
1908	2,249	82.3	2,706	99.0			118	4.5				
1909	2,237	80.7	2,629	94.9			127	4.8				
1910	2,273	80.9	2,756	98.1	52	1.9	65	2.3				
1911	2,284	78.9	2,766	95.5	55	1.9	104	3.6				
1912	2,289	76.8	2,744	92.0	48	1.7	90	3.1				
1913	2,243	73.1	2,703	88.1	43	1.5	136	4.6				
1914	2,325	73.7	2,799	88.8	41	1.4	160	5.3				
1915	2,527	78.0	2,986	92.2	36	1.2	163	5.3				
1916	2,573	77.4	3,070	92.3	141	4.6	206	6.7				
1917	2,779	81.5	3,310	97.0	44	1.4	224	7.1				
1918	3,059	87.5	3,612	103.3	58	1.8	290	9.1				
1919	2,620	73.1	3,127	87.3	80	2.2	299	8.2				
1920	2,645	72.1	3,149	85.8	30	0.8	314	8.4				
1921	2,285	60.4	2,736	72.3	100	2.6	226	5.9	14	0.4		
1922	2,232	57.2	2,654	68.0	21	0.5	186	4.7	6	0.2		
1923	2,410	59.9	2,837	70.6	18	0.5	262	6.8	5	*		
1924	2,474	59.8	2,952	71.3	116	3.0	271	7.0	13	0.3		
1925	2,410	56.6	2,830	66.5	31	0.7	282	6.6	27	0.6		
1926	2,601	59.5	3,041	69.5	34	0.8	327	7.5	12	0.3		
1927	2,514	56.0	2,952	65.7	69	1.5	305	6.8	16	0.4		
1928	2,647	57.4	3,108	67.5	27	0.6	384	8.4	19	0.4		
1929	2,685	56.8	3,140	66.5	50	1.1	397	8.4	19	0.4		
1930	2,443	50.5	2,912	60.1	39	0.8	395	8.2	12	0.2		
1931	2,263	46.3	2,660	54.5	108	2.2	361	7.4	3	*		
1932	2,101	42.7	2,463	50.0	23	0.5	377	7.7	2	*		
1933	1,996	40.2	2,348	47.3	5	*	327	6.6	7	0.1		
1934	1,909	38.1	2,199	43.9	25	0.5	402	8.0	10	0.2		
1935	1,741	34.5	2,044	40.5	32	0.6	393	7.8	3	*		
1936	1,816	35.7	2,100	41.3	21	0.4	394	7.7	6	0.1		
1937	1,860	36.2	2,119	41.3	51	1.0	401	7.8	8	0.2		
1938	1,633	31.6	1,866	36.1	10	0.2	401	7.8	8	0.2		
1939	1,651	31.7	1,881	36.1	40	0.8	389	7.5	4	*		
1940	1,547	29.4	1,752	33.3	72	1.4	591	11.2	3	*		
1941	1,532	28.2	1,723	31.7	18	0.3	537	9.9	1	*		
1942	1,630	29.4	1,827	33.0	10	0.2	559	10.1	7	0.1		
1943	1,588	29.5	1,802	33.5	27	0.5	579	10.8	3	*		
1944	1,544	28.7	1,748	32.5	45	0.8	543	10.1	2	*		
1945	1,591	29.3	1,758	32.3	20	0.4	527	9.7	2	*		
1946	1,645	28.8	1,843	32.3	89	1.6	547	9.6	-	-		
1947	1,483	24.4	1,643	27.1	29	0.5	502	8.3	3	*		
1948	1,395	22.5	1,561	25.2	54	0.9	512	8.3	-	-		
1949	1,254	19.7	1,400	22.0	216	3.4	455	7.2	-	-		

¹ 1992 estimated population is used to calculate 1993 and 1994 rates.

² Effective January 1975, a new diagnostic classification system for tuberculosis was adopted. As a result, deaths and rates prior to 1975 are not directly comparable to the figures in 1975 and later years.

³ From 1901 through 1920, syphilis includes all other venereal diseases, beginning with 1968 excludes aortic aneurysms not specified as syphilitic.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDPH

Table 4.7 (continued)
Number of Deaths and Death Rates¹ for Certain Communicable Diseases
 Michigan Residents, 1900 - 1994
 (Rates per 100,000 population)

Year	Diphtheria		Strep. Sore Throat Including Scarlet Fever		Typhoid Fever		Whooping Cough		Measles	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1950	2	*	1	*	5	*	28	0.4	28	0.4
1951	6	0.1	-	-	1	*	21	0.3	11	0.2
1952	2	*	-	-	-	-	8	0.1	17	0.3
1953	2	*	1	*	-	-	11	0.2	16	0.2
1954	3	*	3	*	-	-	17	0.2	17	0.2
1955	1	*	1	*	1	*	8	0.1	10	0.1
1956	6	0.1	3	*	-	-	6	0.1	26	0.3
1957	1	*	-	-	-	-	6	0.1	23	0.3
1958	-	*	-	-	-	-	1	*	18	0.2
1959	1	*	2	*	1	*	5	*	11	0.1
1960	2	*	1	*	-	-	1	*	17	0.2
1961	1	*	1	*	-	-	2	*	13	0.2
1962	2	*	1	*	-	-	2	*	8	0.1
1963	-	-	-	-	-	-	-	-	27	0.3
1964	-	-	-	-	-	-	2	*	11	0.1
1965	-	-	-	-	-	-	-	-	5	*
1966	1	*	-	-	-	-	-	-	7	0.1
1967	-	-	-	-	-	-	-	-	3	*
1968	-	-	1	*	-	-	-	-	-	-
1969	-	-	-	-	-	-	-	-	-	-
1970	-	-	2	*	-	-	-	-	1	*
1971	-	-	4	*	-	-	-	-	-	-
1972	-	-	1	*	1	*	-	-	-	-
1973	-	-	-	-	-	-	1	*	2	*
1974	-	-	1	*	-	-	2	*	-	-
1975	-	-	-	-	-	-	1	*	1	*
1976	-	-	-	-	-	-	-	-	-	-
1977	-	-	1	*	-	-	-	-	-	-
1978	-	-	-	-	-	-	1	*	1	*
1979	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	1	*	-	-	-	-
1982	-	-	-	-	-	-	-	-	1	*
1983	-	-	1	*	-	-	-	-	1	*
1984	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-
1988	-	-	1	*	-	-	1	*	-	-
1989	-	-	-	-	-	-	-	-	-	-
1990	-	-	1	*	-	-	-	-	-	-
1991	-	-	-	-	-	-	-	-	-	-
1992	-	-	-	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-	-	-
1994	-	-	-	-	-	-	-	-	-	-

¹ 1992 estimated population is used to calculate 1993 and 1994 rates.

² Effective January 1975, a new diagnostic classification system for tuberculosis was adopted. As a result, deaths and rates prior to 1975 are not directly comparable to the figures in 1975 and later years.

³ From 1901 through 1920, syphilis includes all other venereal diseases, beginning with 1968 excludes aortic aneurysms not specified as syphilitic.

Table 4.7 (continued)
Number of Deaths and Death Rates¹ for Certain Communicable Diseases
 Michigan Residents, 1900 - 1994
 (Rates per 100,000 population)

Year	TB of the Respiratory System		Tuberculosis ² (all forms)		Poliomyelitis		Syphilis ¹		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	3.5
1990	28	0.3	43	0.5	-	-	-	-	-	-	373	4.0
1991	20	0.2	41	0.4	-	-	-	-	-	-	465	5.0
1992	30	0.3	49	0.5	-	-	1	*	-	-	573	6.1
1993	26	0.3	38	0.4	-	-	5	*	1	*	691	7.3
1994	33	0.3	37	0.4	-	-	1	*	-	-	757	8.0

¹ 1992 estimated population is used to calculate 1993 and 1994 rates.

² Effective January 1975, a new diagnostic classification system for tuberculosis was adopted. As a result, deaths and rates prior to 1975 are not directly comparable to the figures in 1975 and later years.

³ From 1901 through 1920, syphilis includes all other venereal diseases, beginning with 1968 excludes aortic aneurysms not specified as syphilitic.

Source: Bureau of Infectious Disease Control, Disease Control Division, MDPH

Table 4.8
Number of Deaths and Death Rates¹ by Specified Causes
 Michigan Residents, 1900 - 1994
(Rates per 100,000 population)

Year	Heart Disease		Cancer ² (all forms)		Cerebrovascular Disease ³		Accidents ⁴ (all forms)		Motor Vehicle Accidents ⁵	
	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

¹ 1992 estimated population is used to calculate 1993 and 1994 rates.

² Cancer includes leukemias, aleukemias, and Hodgkin's disease beginning with 1921.

³ Cerebrovascular disease was called Vascular Lesions Affecting-Central Nervous System prior to 1968.

⁴ Accidents exclude injuries undetermined whether accidentally or purposely inflicted since 1968.

⁵ Motor vehicle accidents do not include collision with heavier vehicles from 1910 through 1922. Motorcycle accidents are included beginning 1923.

⁶ Chronic liver disease and cirrhosis was called Cirrhosis of the Liver prior to 1979.

⁷ Atherosclerosis was called General Arteriosclerosis prior to 1968 and was called Arteriosclerosis from 1968-1978.

Table 4.8 (continued)
Number of Deaths and Death Rates¹ by Specified Causes
 Michigan Residents, 1900 - 1994
(Rates per 100,000 population)

Year	Diabetes		Pneumonia		Chronic Liver Disease & Cirrhosis ⁶		Atherosclerosis ⁷	
	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	282	10.0		
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

¹ 1992 estimated population is used to calculate 1993 and 1994 rates.

² Cancer includes leukemias, aleukemias, and Hodgkin's disease beginning with 1921.

³ Cerebrovascular disease was called Vascular Lesions Affecting-Central Nervous System prior to 1968.

⁴ Accidents exclude injuries undetermined whether accidentally or purposely inflicted since 1968.

⁵ Motor vehicle accidents do not include collision with heavier vehicles from 1910 through 1922. Motorcycle accidents are included beginning 1923.

⁶ Chronic liver disease and cirrhosis was called Cirrhosis of the Liver prior to 1979.

⁷ Atherosclerosis was called General Arteriosclerosis prior to 1968 and was called Arteriosclerosis from 1968-1978.

Table 4.8 (continued)
Number of Deaths and Death Rates¹ by Specified Causes
 Michigan Residents, 1900 - 1994
 (Rates per 100,000 population)

Year	Heart Disease		Cancer ² (all forms)		Cerebrovascular Disease ³		Accidents ⁴ (all forms)		Motor Vehicle Accidents ⁵	
	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	321.6	15,828	170.9	6,164	66.6	3,627	39.2	1,880	20.3
1981	30,172	325.5	16,142	174.1	6,121	66.0	3,390	36.6	1,727	18.6
1982	30,099	326.2	16,566	179.5	5,839	63.3	3,113	33.7	1,555	16.9
1983	30,412	332.2	16,785	183.3	5,721	62.5	2,947	32.2	1,419	15.5
1984	30,100	331.7	16,907	186.3	5,631	62.1	3,049	33.6	1,630	18.0
1985	30,618	336.9	17,281	190.1	5,528	60.8	3,228	35.5	1,676	18.4
1986	31,270	342.0	17,321	189.4	5,421	59.3	3,202	35.0	1,736	19.0
1987	30,521	331.8	17,669	192.1	5,481	59.6	3,143	34.2	1,725	18.8
1988	30,218	327.0	17,890	193.6	5,237	56.7	3,237	35.0	1,806	19.5
1989	28,031	302.3	18,264	196.9	5,173	55.8	3,228	34.8	1,750	18.9
1990	27,527	296.1	18,413	198.1	5,090	54.8	3,137	33.7	1,494	15.9
1991	27,517	293.5	19,204	204.8	5,165	55.1	3,011	32.1	1,669	18.0
1992	26,863	284.8	19,217	203.7	5,087	53.9	2,844	30.1	1,426	15.1
1993	28,512	302.2	19,187	203.4	5,299	56.2	2,830	30.0	1,438	15.2
1994	28,195	298.9	19,410	205.8	5,680	60.2	2,928	31.0	1,445	15.3

¹ 1992 estimated population is used to calculate 1993 and 1994 rates.

² Cancer includes leukemias, aleukemias, and Hodgkin's disease beginning with 1921.

³ Cerebrovascular disease was called Vascular Lesions Affecting-Central Nervous System prior to 1968.

⁴ Accidents exclude injuries undetermined whether accidentally or purposely inflicted since 1968.

⁵ Motor vehicle accidents do not include collision with heavier vehicles from 1910 through 1922. Motorcycle accidents are included beginning 1923.

⁶ Chronic liver disease and cirrhosis was called Cirrhosis of the Liver prior to 1979.

⁷ Atherosclerosis was called General Arteriosclerosis prior to 1968 and was called Arteriosclerosis from 1968-1978.

Table 4.8 (continued)
Number of Deaths and Death Rates¹ by Specified Causes
 Michigan Residents, 1900 - 1994
 (Rates per 100,000 population)

Year	Diabetes		Pneumonia		Chronic Liver Disease & Cirrhosis ⁶		Atherosclerosis ⁷	
	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	16.0	1,644	17.7	1,253	13.5	1,270	13.7
1982	1,347	14.6	1,665	18.0	1,244	13.5	1,284	13.9
1983	1,470	16.1	2,007	21.9	1,250	13.7	1,269	13.9
1984	1,476	16.3	2,018	22.2	1,194	13.2	1,142	12.6
1985	1,387	15.3	2,193	24.1	1,256	13.8	1,173	12.9
1986	1,494	16.3	2,513	27.5	1,120	12.2	1,214	13.3
1987	1,479	16.1	2,377	25.8	1,099	11.9	1,168	12.7
1988	1,522	16.5	2,626	28.4	1,080	11.7	1,187	12.8
1989	2,052	22.1	2,633	28.4	1,170	12.6	832	9.0
1990	2,009	21.6	2,863	30.8	1,123	12.1	807	8.7
1991	2,113	22.5	2,773	29.6	1,060	11.3	823	8.8
1992	2,114	22.4	2,697	28.6	947	10.0	774	8.2
1993	2,105	22.3	2,981	31.6	1,006	10.7	753	8.0
1994	2,224	23.6	2,877	30.5	1,035	11.0	805	8.5

¹ 1992 estimated population is used to calculate 1993 and 1994 rates.

² Cancer includes leukemias, aleukemias, and Hodgkin's disease beginning with 1921.

³ Cerebrovascular disease was called Vascular Lesions Affecting-Central Nervous System prior to 1968.

⁴ Accidents exclude injuries undetermined whether accidentally or purposely inflicted since 1968.

⁵ Motor vehicle accidents do not include collision with heavier vehicles from 1910 through 1922. Motorcycle accidents are included beginning 1923.

⁶ Chronic liver disease and cirrhosis was called Cirrhosis of the Liver prior to 1979.

⁷ Atherosclerosis was called General Arteriosclerosis prior to 1968 and was called Arteriosclerosis from 1968-1978.

Table 4.9
Selected Vital Statistics by County
Michigan Residents, 1994

Area	Population Estimate ¹	Deaths	Live Births	Low Weight Live Births	Infant Deaths	Neonatal Deaths	Perinatal Deaths	Fetal Deaths	Marriages ²	Divorces ²
Michigan ³	9,433,666	82,644	137,844	10,765	1,184	775	1,388	731	70,966	39,795
Alcona	10,254	167	105	5	-	-	-	-	76	44
Alger	9,349	101	82	3	1	1	1	-	78	31
Allegan	93,078	746	1,399	89	7	5	10	5	770	441
Alpena	31,000	318	356	33	1	-	5	5	253	149
Antrim	18,897	217	258	16	2	1	3	2	167	86
Arenac	15,625	188	194	11	2	2	4	3	107	61
Baraga	7,828	109	99	6	1	-	-	-	64	24
Barry	51,196	423	709	33	5	4	6	2	434	237
Bay	112,131	1,035	1,413	105	6	3	12	10	926	449
Benzie	12,616	150	152	10	1	-	2	2	128	79
Berrien	161,466	1,549	2,228	197	16	9	18	12	1,310	671
Branch	41,871	371	507	23	5	1	5	4	332	237
Calhoun	138,381	1,348	1,969	149	14	8	13	6	1,177	727
Cass	49,112	446	554	37	8	5	7	5	395	233
Charlevoix	22,225	206	321	14	1	1	2	1	209	117
Cheboygan	21,780	260	254	18	3	3	3	1	222	86
Chippewa	35,640	285	420	22	4	4	6	2	293	121
Clare	26,384	350	369	39	3	3	6	3	242	149
Clinton	59,397	391	809	42	4	1	5	4	425	276
Crawford	12,972	120	161	16	1	1	9	8	104	65
Delta	38,208	377	429	20	9	7	7	1	347	176
Dickinson	27,014	292	308	17	1	-	-	-	215	127
Eaton	95,253	696	1,159	64	7	3	6	3	746	761
Emmet	26,057	283	366	22	-	-	4	4	280	149
Genesee	433,508	3,629	6,610	631	96	63	83	27	3,320	1,881
Gladwin	23,007	291	270	19	1	1	1	1	177	105
Gogebic	17,891	228	167	12	1	1	3	2	134	65
Grand Traverse	67,290	551	903	40	3	-	3	3	653	386
Gratiot	39,450	394	515	33	4	2	6	4	288	176
Hillsdale	44,407	403	582	34	9	4	9	6	337	248
Houghton	35,831	401	395	12	1	1	4	3	232	117
Huron	34,977	424	448	21	2	1	3	2	235	131
Ingham	281,798	1,859	4,051	304	39	23	26	7	2,334	1,165
Ionia	57,986	433	818	56	5	2	8	6	426	268
Iosco	30,211	378	268	24	6	4	5	2	182	96
Iron	13,136	240	121	7	-	-	-	-	93	59
Isabella	56,212	344	615	29	6	5	6	2	457	231
Jackson	151,740	1,365	2,063	155	16	13	25	13	1,207	779
Kalamazoo	225,648	1,669	3,168	202	16	11	27	19	1,958	1,046
Kalkaska	14,038	135	191	16	1	1	1	-	122	85

¹ 1992 estimated population.

² By county of occurrence rather than county of residence.

³ Unknown county of residence is included in the Michigan "Total" column only.

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

Table 4.9 (continued)
Selected Vital Statistics by County
 Michigan Residents, 1994

Area	Population Estimate ¹	Deaths	Live Births	Low Weight Live Births	Infant Deaths	Neonatal Deaths	Perinatal Deaths	Fetal Deaths	Marriages ²	Divorces ²
Kent	511,997	3,884	8,778	602	67	45	107	72	4,777	2,094
Keweenaw	1,706	28	16	-	-	-	-	-	19	8
Lake	9,029	141	114	7	1	1	1	-	67	37
Lapeer	78,526	519	1,093	55	4	1	7	6	660	311
Leelanau	17,292	159	211	10	1	1	1	-	120	87
Lenawee	94,132	741	1,168	61	5	3	14	11	648	429
Livingston	122,658	791	1,728	97	6	3	10	8	1,010	561
Luce	5,604	79	68	7	-	-	2	2	39	27
Mackinac	10,752	132	137	2	-	-	-	-	185	51
Macomb	728,220	6,254	9,806	618	59	40	89	56	6,045	3,049
Manistee	21,925	324	257	16	1	1	3	2	185	101
Marquette	71,428	589	852	51	7	6	9	3	641	353
Mason	26,420	282	320	15	-	-	2	2	234	126
Mecosta	38,553	295	401	22	3	3	5	2	286	128
Menominee	24,593	280	270	15	3	2	1	-	236	85
Midland	77,950	517	1,110	70	12	9	13	6	627	363
Missaukee	12,739	127	175	13	-	-	1	1	92	58
Monroe	135,962	1,143	1,777	104	15	8	14	6	943	627
Montcalm	55,445	506	800	40	3	-	1	1	471	303
Montmorency	9,355	130	91	4	1	-	1	1	69	36
Muskegon	161,980	1,546	2,355	163	27	14	29	18	1,329	835
Newaygo	40,756	417	602	38	7	4	8	4	353	226
Oakland	1,118,611	8,362	16,277	1,116	89	64	138	81	9,089	4,913
Oceana	22,954	208	338	18	2	2	2	-	215	115
Ogemaw	19,640	244	250	14	2	2	1	-	141	111
Ontonagon	8,761	123	75	1	-	-	-	-	63	32
Osceola	20,638	207	279	15	-	-	2	2	189	120
Oscoda	8,222	105	109	7	1	-	2	2	78	31
Otsego	19,096	155	264	23	2	2	2	1	167	85
Ottawa	197,297	1,257	3,130	178	23	17	23	7	1,503	77
Presque Isle	13,865	181	124	7	-	-	1	1	80	41
Roscommon	20,861	308	240	11	1	1	2	2	174	111
Saginaw	212,477	1,925	3,227	281	29	21	34	14	1,600	883
St. Clair	150,085	1,376	2,081	147	19	12	15	4	1,145	719
St. Joseph	59,388	565	860	68	4	2	10	8	509	337
Sanilac	40,810	468	520	40	7	3	3	1	312	159
Schoolcraft	8,478	99	105	7	1	1	2	1	76	36
Shiawassee	70,832	588	947	60	5	3	8	6	578	306
Tuscola	56,130	491	732	47	6	4	4	2	433	244
Van Buren	72,331	667	1,121	78	4	2	8	6	637	402
Washtenaw	288,025	1,622	4,001	276	28	21	46	28	2,198	1,117
Wayne	2,096,179	21,349	34,816	3,750	427	282	419	181	11,015	7,540
Wexford	27,099	284	400	20	3	-	2	2	273	187

¹ 1992 estimated population.

² By county of occurrence rather than county of residence.

³ Unknown county of residence is included in the Michigan "Total" column only.

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

Table 4.10
Selected Vital Statistics Rates¹ by County
 Michigan Residents, 1994

Area	Deaths	Live Births	Low Weight Live Births ²	Infant Deaths	Neonatal Deaths	Perinatal Deaths	Fetal Deaths	Marriages ³	Divorces ³
Michigan ³	8.8	14.6	78.1	8.6	5.6	10.0	5.3	15.0	8.4
Alcona	16.3	10.2	*	-	-	-	-	14.8	8.6
Alger	10.8	8.8	*	*	*	*	*	16.7	6.6
Allegan	8.0	15.0	63.6	5.0	*	7.1	*	16.5	9.5
Alpena	10.3	11.5	92.7	*	-	*	*	16.3	9.6
Antrim	11.5	13.7	62.0	*	*	*	*	17.7	9.1
Arenac	12.0	12.4	56.7	*	*	*	*	13.7	7.8
Baraga	13.9	12.6	60.6	*	-	-	-	16.4	6.1
Barry	8.3	13.8	46.5	*	*	8.4	*	17.0	9.3
Bay	9.2	12.6	74.3	4.2	*	8.4	7.0	16.5	8.0
Benzie	11.9	12.0	65.8	*	-	*	*	20.3	12.5
Berrien	9.6	13.8	88.4	7.2	4.0	8.0	5.4	16.2	8.3
Branch	8.9	12.1	45.4	*	*	*	*	15.9	11.3
Calhoun	9.7	14.2	75.7	7.1	4.1	6.6	3.0	17.0	10.5
Cass	9.1	11.3	66.8	14.4	*	12.5	*	16.1	9.5
Charlevoix	9.3	14.4	43.6	*	*	*	*	18.8	10.5
Cheboygan	11.9	11.7	70.9	*	*	*	*	20.4	7.9
Chippewa	8.0	11.8	52.4	*	*	14.2	*	16.4	6.8
Clare	13.3	14.0	105.7	*	*	16.1	*	18.3	11.3
Clinton	6.6	13.6	51.9	*	*	*	*	14.3	9.3
Crawford	9.3	12.4	99.4	*	*	53.3	47.3	16.0	10.0
Delta	9.9	11.2	46.6	21.0	16.3	16.3	*	18.2	9.2
Dickinson	10.8	11.4	55.2	*	-	-	-	15.9	9.4
Eaton	7.3	12.2	55.2	6.0	*	5.2	*	15.7	16.0
Emmet	10.9	14.0	60.1	-	-	*	*	21.5	11.4
Genesee	8.4	15.2	95.5	14.5	9.5	12.5	4.1	15.3	8.7
Gladwin	12.6	11.7	70.4	*	*	*	*	15.4	9.1
Gogebic	12.7	9.3	71.9	*	*	*	*	15.0	7.3
Grand Traverse	8.2	13.4	44.3	*	-	*	*	19.4	11.5
Gratiot	10.0	13.1	64.1	*	*	11.6	*	14.6	8.9
Hillsdale	9.1	13.1	58.4	15.5	*	15.3	10.2	15.2	11.2
Houghton	11.2	11.0	30.4	*	*	*	*	12.9	6.5
Huron	12.1	12.8	46.9	*	*	*	*	13.4	7.5
Ingham	6.6	14.4	75.0	9.6	5.7	6.4	1.7	16.6	8.3
Ionia	7.5	14.1	68.5	*	*	9.7	7.3	14.7	9.2
Iosco	12.5	8.9	89.6	22.4	*	*	*	12.0	6.4
Iron	18.3	9.2	57.9	-	-	-	-	14.2	9.0
Isabella	6.1	10.9	47.2	9.8	*	9.7	*	16.3	8.2
Jackson	9.0	13.6	75.1	7.8	6.3	12.0	6.3	15.9	10.3
Kalamazoo	7.4	14.0	63.8	5.1	3.5	8.5	6.0	17.4	9.3
Kalkaska	9.6	13.6	83.8	*	*	*	-	17.4	12.1

¹ 1992 estimated population is used to calculate rates.

² Ratio per 1,000 live births.

³ By county of occurrence rather than county of residence. Rate of persons per 1,000 population rather than events per population.

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

Table 4.10 (continued)
Selected Vital Statistics Rates¹ by County
 Michigan Residents, 1994

Area	Deaths	Live Births	Low Weight Live Births ²	Infant Deaths	Neonatal Deaths	Perinatal Deaths	Fetal Deaths	Marriages ³	Divorces ³
Kent	7.6	17.1	68.6	7.6	5.1	12.1	8.1	18.7	8.2
Keweenaw	16.4	9.4	-	-	-	-	-	22.3	9.4
Lake	15.6	12.6	61.4	*	*	*	-	14.8	8.2
Lapeer	6.6	13.9	50.3	*	*	6.4	5.5	16.8	7.9
Leelanau	9.2	12.2	47.4	*	*	*	-	13.9	10.1
Lenawee	7.9	12.4	52.2	*	*	11.9	9.3	13.8	9.1
Livingston	6.4	14.1	56.1	3.5	*	5.8	4.6	16.5	9.1
Luce	14.1	12.1	102.9	-	-	*	*	13.9	9.6
Mackinac	12.3	12.7	*	-	-	-	-	34.4	9.5
Macomb	8.6	13.5	63.0	6.0	4.1	9.0	5.7	16.6	8.4
Manistee	14.8	11.7	62.3	*	*	*	*	16.9	9.2
Marquette	8.2	11.9	59.9	8.2	7.0	10.5	*	17.9	9.9
Mason	10.7	12.1	46.9	-	-	*	*	17.7	9.5
Mecosta	7.7	10.4	54.9	*	*	*	*	14.8	6.6
Menominee	11.4	11.0	55.6	*	*	*	-	19.2	6.9
Midland	6.6	14.2	63.1	10.8	8.1	11.6	5.4	16.1	9.3
Missaukee	10.0	13.7	74.3	-	-	*	*	14.4	9.1
Monroe	8.4	13.1	58.5	8.4	4.5	7.9	3.4	13.9	9.2
Montcalm	9.1	14.4	50.0	*	-	*	*	17.0	10.9
Montmorency	13.9	9.7	*	*	-	*	*	14.8	7.7
Muskegon	9.5	14.5	69.2	11.5	5.9	12.2	7.6	16.4	10.3
Newaygo	10.2	14.8	63.1	11.6	*	13.2	*	17.3	11.1
Oakland	7.5	14.6	68.6	5.5	3.9	8.4	5.0	16.3	8.8
Oceana	9.1	14.7	53.3	*	*	*	-	18.7	10.0
Ogemaw	12.4	12.7	56.0	*	*	*	-	14.4	11.3
Ontonagon	14.0	8.6	*	-	-	-	-	14.4	7.3
Osceola	10.0	13.5	53.8	-	-	*	*	18.3	11.6
Oscoda	12.8	13.3	64.2	*	-	*	*	19.0	7.5
Otsego	8.1	13.8	87.1	*	*	*	*	17.5	8.9
Ottawa	6.4	15.9	56.9	7.3	5.4	7.3	2.2	15.2	0.8
Presque Isle	13.1	8.9	56.5	-	-	*	*	11.5	5.9
Roscommon	14.8	11.5	45.8	*	*	*	*	16.7	10.6
Saginaw	9.1	15.2	87.1	9.0	6.5	10.5	4.3	15.1	8.3
St. Clair	9.2	13.9	70.6	9.1	5.8	7.2	*	15.3	9.6
St. Joseph	9.5	14.5	79.1	*	*	11.5	9.2	17.1	11.3
Sanilac	11.5	12.7	76.9	13.5	*	*	*	15.3	7.8
Schoolcraft	11.7	12.4	66.7	*	*	*	*	17.9	8.5
Shiawassee	8.3	13.4	63.4	*	*	8.4	6.3	16.3	8.6
Tuscola	8.7	13.0	64.2	8.2	*	*	*	15.4	8.7
Van Buren	9.2	15.5	69.6	*	*	7.1	5.3	17.6	11.1
Washtenaw	5.6	13.9	69.0	7.0	5.2	11.4	6.9	15.3	7.8
Wayne	10.2	16.6	107.7	12.3	8.1	12.0	5.2	10.5	7.2
Wexford	10.5	14.8	50.0	*	-	*	*	20.1	13.8

¹ 1992 estimated population is used to calculate rates.

² Ratio per 1,000 live births.

³ By county of occurrence rather than county of residence. Rate of persons per 1,000 population rather than events per population.

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

Table 4.11
Live Births with Selected Risk Factors by County
Michigan Residents, 1994

Area	Medical Risk Factor Present ¹		Complications of Labor/Delivery ²		Abnormal Conditions of Newborn ³		Mother Smoked While Pregnant		Mother Drank Alcohol While Pregnant	
	Number	%	Number	%	Number	%	Number	%	Number	%
Michigan	25,230	18.3	35,583	25.8	14,365	10.4	25,468	18.5	2,391	1.7
Alcona	30	28.6	35	33.3	16	15.2	27	25.7	2	*
Alger	10	12.2	18	22.0	3	*	18	22.0	-	-
Allegan	195	13.9	366	26.2	125	8.9	231	16.5	18	1.3
Alpena	130	36.5	144	40.4	46	12.9	93	26.1	6	1.7
Antrim	44	17.1	76	29.5	12	4.7	65	25.2	1	*
Arenac	47	24.2	57	29.4	6	3.1	56	28.9	3	*
Baraga	20	20.2	31	31.3	5	*	35	35.4	1	*
Barry	152	21.4	234	33.0	69	9.7	142	20.0	6	0.8
Bay	221	15.6	333	23.6	85	6.0	328	23.2	10	0.7
Benzie	22	14.5	44	28.9	5	*	38	25.0	5	*
Berrien	433	19.4	459	20.6	145	6.5	379	17.0	66	3.0
Branch	96	18.9	164	32.3	12	2.4	137	27.0	3	*
Calhoun	331	16.8	577	29.3	73	3.7	458	23.3	55	2.8
Cass	143	25.8	181	32.7	68	12.3	149	26.9	13	2.3
Charlevoix	59	18.4	129	40.2	26	8.1	70	21.8	3	*
Cheboygan	59	23.2	96	37.8	17	6.7	73	28.7	2	*
Chippewa	56	13.3	121	28.8	15	3.6	115	27.4	5	*
Clare	61	16.5	70	19.0	30	8.1	82	22.2	6	1.6
Clinton	131	16.2	233	28.8	36	4.4	73	9.0	15	1.9
Crawford	56	34.8	64	39.8	11	6.8	69	42.9	1	*
Delta	126	29.4	116	27.0	17	4.0	99	23.1	6	1.4
Dickinson	38	12.3	65	21.1	12	3.9	81	26.3	13	4.2
Eaton	201	17.3	312	26.9	83	7.2	141	12.2	32	2.8
Emmet	80	21.9	116	31.7	13	3.6	61	16.7	3	*
Genesee	759	11.5	1,144	17.3	264	4.0	1,275	19.3	60	0.9
Gladwin	44	16.3	54	20.0	20	7.4	62	23.0	8	3.0
Gogebic	25	15.0	55	32.9	6	3.6	25	15.0	2	*
Grand Traverse	126	14.0	221	24.5	38	4.2	165	18.3	34	3.8
Gratiot	62	12.0	127	24.7	31	6.0	114	22.1	4	*
Hillsdale	154	26.5	179	30.8	28	4.8	160	27.5	7	1.2
Houghton	122	30.9	147	37.2	21	5.3	90	22.8	16	4.1
Huron	72	16.1	149	33.3	23	5.1	101	22.5	6	1.3
Ingham	799	19.7	1,353	33.4	327	8.1	287	7.1	89	2.2
Ionia	131	16.0	176	21.5	102	12.5	174	21.3	6	0.7
Iosco	125	46.6	130	48.5	21	7.8	93	34.7	9	3.4
Iron	16	13.2	23	19.0	6	5.0	50	41.3	9	7.4
Isabella	133	21.6	163	26.5	41	6.7	112	18.2	7	1.1
Jackson	259	12.6	711	34.5	33	1.6	519	25.2	10	0.5
Kalamazoo	853	26.9	1,566	49.4	184	5.8	597	18.8	44	1.4
Kalkaska	28	14.7	50	26.2	14	7.3	64	33.5	6	3.1

¹ Examples of medical risk factors include: anemia, diabetes, hypertension, eclampsia, renal disease, maternal drug use.

² Examples of complications of labor and/or delivery include: abruptio placenta, seizures during labor, dysfunctional labor, fetal distress, breech/malpresentation, cord prolapse.

³ Examples of abnormal conditions of the newborn include: anemia, birth injury, fetal alcohol syndrome, hyaline membrane disease, seizures.

⁴ Congenital anomalies reported have increased due to a change in reporting procedure.

⁵ 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.

Table 4.11 (continued)
Live Births with Selected Risk Factors by County
 Michigan Residents, 1994

Area	Medical Risk Factor Present ¹		Complications of Labor/Delivery ²		Abnormal Conditions of Newborn ³		Mother Smoked While Pregnant		Mother Drank Alcohol While Pregnant	
	Number	%	Number	%	Number	%	Number	%	Number	%
Kent	1,102	12.6	1,802	20.5	2,447	27.9	1,174	13.4	147	1.7
Keweenaw	6	37.5	6	37.5	2	*	3	*	1	*
Lake	22	19.3	36	31.6	13	11.4	34	29.8	1	*
Lapeer	210	19.2	270	24.7	116	10.6	208	19.0	11	1.0
Leelanau	44	20.9	55	26.1	10	4.7	30	14.2	3	*
Lenawee	194	16.6	360	30.8	81	6.9	249	21.3	14	1.2
Livingston	278	16.1	487	28.2	92	5.3	282	16.3	33	1.9
Luce	16	23.5	20	29.4	6	8.8	30	44.1	2	*
Mackinac	28	20.4	54	39.4	5	*	32	23.4	1	*
Macomb	2,110	21.5	2,791	28.5	2,011	20.5	2,052	20.9	160	1.6
Manistee	37	14.4	75	29.2	7	2.7	63	24.5	3	*
Marquette	105	12.3	186	21.8	42	4.9	153	18.0	12	1.4
Mason	57	17.8	70	21.9	17	5.3	69	21.6	4	*
Mecosta	70	17.5	103	25.7	38	9.5	106	26.4	3	*
Menominee	109	40.4	111	41.1	26	9.6	62	23.0	5	*
Midland	220	19.8	330	29.7	87	7.8	184	16.6	6	0.5
Missaukee	79	45.1	26	14.9	5	*	36	20.6	-	-
Monroe	446	25.1	572	32.2	189	10.6	366	20.6	13	0.7
Montcalm	81	10.1	163	20.4	106	13.3	188	23.5	15	1.9
Montmorency	27	29.7	33	36.3	11	12.1	36	39.6	-	-
Muskegon	155	6.6	277	11.8	114	4.8	561	23.8	14	0.6
Newaygo	136	22.6	171	28.4	101	16.8	135	22.4	6	1.0
Oakland	4,028	24.7	4,670	28.7	2,077	12.8	2,418	14.9	273	1.7
Oceana	45	13.3	91	26.9	19	5.6	78	23.1	7	2.1
Ogemaw	55	22.0	61	24.4	9	3.6	74	29.6	5	*
Ontonagon	17	22.7	24	32.0	4	*	17	22.7	2	*
Osceola	89	31.9	55	19.7	19	6.8	82	29.4	5	*
Oscoda	23	21.1	26	23.9	5	*	29	26.6	1	*
Otsego	59	22.3	114	43.2	25	9.5	71	26.9	2	*
Ottawa	288	9.2	621	19.8	450	14.4	260	8.3	30	1.0
Presque Isle	36	29.0	42	33.9	15	12.1	32	25.8	-	-
Roscommon	54	22.5	67	27.9	14	5.8	83	34.6	4	*
Saginaw	689	21.4	948	29.4	330	10.2	670	20.8	66	2.0
St Clair	365	17.5	421	20.2	221	10.6	569	27.3	31	1.5
St Joseph	161	18.7	292	34.0	51	5.9	202	23.5	17	2.0
Sanilac	72	13.8	119	22.9	35	6.7	136	26.2	12	2.3
Schoolcraft	21	20.0	34	32.4	5	*	34	32.4	1	*
Shiawassee	140	14.8	260	27.5	43	4.5	163	17.2	20	2.1
Tuscola	131	17.9	180	24.6	55	7.5	188	25.7	10	1.4
Van Buren	223	19.9	426	38.0	51	4.5	234	20.9	32	2.9
Washtenaw	634	15.8	1,272	31.8	107	2.7	471	11.8	77	1.9
Wayne	5,962	17.1	7,485	21.5	3,202	9.2	6,562	18.8	739	2.1
Wexford	150	37.5	80	20.0	12	3.0	131	32.8	11	2.8
Unknown	7	53.8	8	61.5	1	*	3	*	-	-

¹ Examples of medical risk factors include: anemia, diabetes, hypertension, eclampsia, renal disease, maternal drug use.

² Examples of complications of labor and/or delivery include: abruptio placenta, seizures during labor, dysfunctional labor, fetal distress, breech/malpresentation, cord prolapse.

³ Examples of abnormal conditions of the newborn include: anemia, birth injury, fetal alcohol syndrome, hyaline membrane disease, seizures.

⁴ Congenital anomalies reported have increased due to a change in reporting procedure.

⁵ 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.

Table 4.11 (continued)
Live Births with Selected Risk Factors by County
Michigan Residents, 1994

Area	Congenital Anomalies Reported ¹		Inadequate Prenatal Care ⁵		Mother's Education <12 Grade		Mother <18 Years of Age	
	Number	%	Number	%	Number	%	Number	%
Michigan	1,240	0.9	12,927	9.4	25,324	18.4	6,697	4.9
Alcona	-	-	3	*	22	21.0	4	*
Alger	-	-	2	*	6	7.3	2	*
Allegan	13	0.9	68	4.9	250	17.9	76	5.4
Alpena	3	*	9	2.5	49	13.8	11	3.1
Antrim	2	*	22	8.5	48	18.6	14	5.4
Arenac	2	*	15	7.7	37	19.1	8	4.1
Baraga	2	*	3	*	11	11.1	6	6.1
Barry	4	*	20	2.8	100	14.1	28	3.9
Bay	22	1.6	34	2.4	222	15.7	59	4.2
Benzie	-	-	19	12.5	18	11.8	7	4.6
Berrien	35	1.6	262	11.8	578	25.9	182	8.2
Branch	15	3.0	48	9.5	113	22.3	19	3.7
Calhoun	16	0.8	114	5.8	442	22.4	140	7.1
Cass	20	3.6	41	7.4	150	27.1	47	8.5
Charlevoix	3	*	12	3.7	34	10.6	13	4.0
Cheboygan	3	*	10	3.9	40	15.7	12	4.7
Chippewa	6	1.4	19	4.5	57	13.6	12	2.9
Clare	4	*	15	4.1	85	23.0	17	4.6
Clinton	10	1.2	42	5.2	72	8.9	25	3.1
Crawford	2	1.2	6	3.7	53	32.9	12	7.5
Delta	18	4.2	16	3.7	67	15.6	24	5.6
Dickinson	3	*	19	6.2	25	8.1	9	2.9
Eaton	13	1.1	67	5.8	118	10.2	40	3.5
Emmet	1	*	12	3.3	39	10.7	10	2.7
Genesee	31	0.5	292	4.4	1,518	23.0	460	7.0
Gladwin	5	*	26	9.6	78	28.9	17	6.3
Gogebic	5	*	7	4.2	23	13.8	8	4.8
Grand Traverse	7	0.8	59	6.5	79	8.7	23	2.5
Gratiot	9	1.7	28	5.4	77	15.0	26	5.0
Hillsdale	13	2.2	47	8.1	153	26.3	33	5.7
Houghton	10	2.5	19	4.8	34	8.6	11	2.8
Huron	10	2.2	23	5.1	52	11.6	13	2.9
Ingham	49	1.2	320	7.9	704	17.4	206	5.1
Ionia	15	1.8	49	6.0	123	15.0	32	3.9
Iosco	5	*	20	7.5	60	22.4	13	4.9
Iron	-	-	10	8.3	18	14.9	5	*
Isabella	10	1.6	30	4.9	67	10.9	16	2.6
Jackson	9	0.4	339	16.4	390	18.9	146	7.1
Kalamazoo	24	0.8	111	3.5	490	15.5	127	4.0
Kalkaska	2	*	18	9.4	44	23.0	17	8.9

¹ Examples of medical risk factors include: anemia, diabetes, hypertension, eclampsia, renal disease, maternal drug use.

² Examples of complications of labor and/or delivery include: abruptio placenta, seizures during labor, dysfunctional labor, fetal distress, breech/malpresentation, cord prolapse.

³ Examples of abnormal conditions of the newborn include: anemia, birth injury, fetal alcohol syndrome, hyaline membrane disease, seizures.

⁴ Congenital anomalies reported have increased due to a change in reporting procedure.

⁵ The Kessner Index is a classification of prenatal care based on the month of pregnancy prenatal care began, the number of prenatal visits and the length of pregnancy.

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

Table 4.11 (continued)
Live Births with Selected Risk Factors by County
Michigan Residents, 1994

Area	Congenital Anomalies Reported ¹		Inadequate Prenatal Care ⁵		Mother's Education <12 Grade		Mother <18 Years of Age	
	Number	%	Number	%	Number	%	Number	%
Kent	37	0.4	490	5.6	1,466	16.7	425	4.8
Keweenaw	-	-	1	*	1	*	-	-
Lake	6	5.3	8	7.0	29	25.4	7	6.1
Lapeer	16	1.5	44	4.0	118	10.8	33	3.0
Leelanau	1	*	8	3.8	23	10.9	4	*
Lenawee	17	1.5	86	7.4	199	17.0	49	4.2
Livingston	23	1.3	197	11.4	112	6.5	23	1.3
Luce	2	*	3	*	20	29.4	5	*
Mackinac	1	*	7	5.1	16	11.7	4	*
Macomb	101	1.0	654	6.7	1,043	10.6	212	2.2
Manistee	7	2.7	21	8.2	43	16.7	6	2.3
Marquette	15	1.8	24	2.8	49	5.8	18	2.1
Mason	3	*	23	7.2	63	19.7	10	3.1
Mecosta	11	2.7	32	8.0	87	21.7	19	4.7
Menominee	4	*	17	6.3	31	11.5	10	3.7
Midland	9	0.8	19	1.7	100	9.0	20	1.8
Missaukee	2	*	6	3.4	29	16.6	9	5.1
Monroe	22	1.2	139	7.8	250	14.1	87	4.9
Montcalm	11	1.4	54	6.8	172	21.5	44	5.5
Montmorency	2	*	2	*	22	24.2	5	*
Muskegon	3	*	155	6.6	502	21.3	179	7.6
Newaygo	2	*	34	5.6	127	21.1	27	4.5
Oakland	183	1.1	963	5.9	1,619	9.9	371	2.3
Oceana	3	*	15	4.4	102	30.2	25	7.4
Ogemaw	5	*	9	3.6	37	14.8	13	5.2
Ontonagon	-	-	1	*	4	*	2	*
Osceola	5	*	19	6.8	61	21.9	15	5.4
Oscoda	3	*	11	10.1	36	33.0	4	*
Otsego	2	*	8	3.0	30	11.4	6	2.3
Ottawa	18	0.6	104	3.3	362	11.6	100	3.2
Presque Isle	-	-	3	*	18	14.5	5	*
Roscommon	2	*	12	5.0	56	23.3	15	6.3
Saginaw	27	0.8	161	5.0	748	23.2	234	7.3
St Clair	28	1.3	112	5.4	375	18.0	84	4.0
St Joseph	8	0.9	51	5.9	224	26.0	58	6.7
Sanilac	10	1.9	40	7.7	95	18.3	19	3.7
Schoolcraft	3	*	4	*	15	14.3	4	*
Shiawassee	5	*	43	4.5	157	16.6	50	5.3
Tuscola	4	*	26	3.6	136	18.6	34	4.6
Van Buren	10	0.9	80	7.1	311	27.7	76	6.8
Washtenaw	16	0.4	1,031	25.8	315	7.9	123	3.1
Wayne	206	0.6	5,902	17.0	9,503	27.3	2,314	6.6
Wexford	4	*	31	7.8	71	17.8	19	4.8
Unknown	2	*	1	*	1	*	-	-

¹ Examples of medical risk factors include: anemia, diabetes, hypertension, eclampsia, renal disease, maternal drug use.

² Examples of complications of labor and/or delivery include: abruptio placenta, seizures during labor, dysfunctional labor, fetal distress, breech/malpresentation, cord prolapse.

³ Examples of abnormal conditions of the newborn include: anemia, birth injury, fetal alcohol syndrome, hyaline membrane disease, seizures.

⁴ Congenital anomalies reported have increased due to a change in reporting procedure.

⁵ 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.

Table 4.12
Live Births by Age of Mother and County
Michigan Residents, 1994

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	137,844	397	947	1,968	3,385	4,849	5,902	17,051	34,448	39,789	32,148	12,066	1,912	33
Alcona	105	-	1	-	3	7	11	22	35	22	19	5	1	1
Alger	82	-	-	2	-	2	9	13	18	28	14	8	1	-
Allegan	1,399	1	10	16	49	55	52	182	346	410	325	122	13	-
Alpena	356	-	1	7	3	17	19	47	96	87	89	30	7	-
Antrim	258	-	-	6	8	10	12	36	82	73	42	19	6	-
Arenac	194	1	4	3	-	7	5	19	56	61	41	15	1	-
Baraga	99	-	1	2	3	2	5	13	32	25	20	8	1	-
Barry	709	-	2	6	20	25	30	83	197	205	163	53	8	-
Bay	1,413	2	8	18	31	50	56	163	345	450	332	110	11	-
Benzie	152	-	1	2	4	6	6	19	46	46	32	7	2	-
Berrien	2,228	14	33	56	79	100	134	402	648	575	413	150	26	-
Branch	507	1	1	5	12	20	24	62	161	164	78	30	11	-
Calhoun	1,969	8	22	38	72	100	116	348	605	545	342	100	17	4
Cass	554	2	6	15	24	33	34	112	179	141	84	30	6	-
Charlevoix	321	-	-	3	10	15	13	41	85	96	68	26	5	-
Cheboygan	254	1	-	5	6	6	15	32	85	74	41	18	3	-
Chippewa	420	-	3	2	7	19	20	51	119	126	83	37	4	-
Clare	369	-	1	4	12	19	25	61	131	99	55	19	4	-
Clinton	809	-	3	14	8	20	24	69	151	295	210	68	16	-
Crawford	161	1	3	3	5	11	7	29	56	37	27	9	2	-
Delta	429	3	1	5	15	12	21	54	101	139	99	28	4	1
Dickinson	308	-	1	1	7	10	13	32	81	96	71	25	3	-
Eaton	1,159	1	1	19	19	46	34	119	271	368	265	116	19	-
Emmet	366	-	-	2	8	10	16	36	85	106	91	43	5	-
Genesee	6,610	37	78	113	232	329	349	1,101	1,936	1,775	1,247	447	67	-
Gladwin	270	-	5	5	7	12	18	47	66	88	48	18	2	1
Gogebic	167	-	-	1	7	3	5	16	61	52	20	16	2	-
Gd .Traverse	903	1	3	3	16	19	31	72	199	273	250	95	13	-
Gratiot	515	1	3	5	17	22	28	75	159	177	82	18	3	-
Hillsdale	582	2	2	8	21	37	37	105	204	136	83	45	7	-
Houghton	395	-	3	4	4	4	20	35	113	105	98	37	7	-
Huron	448	2	2	2	7	8	16	35	118	157	103	29	4	-
Ingham	4,051	13	42	55	96	151	172	516	995	1,171	949	348	58	1
Ionia	818	1	1	11	19	36	41	108	257	256	139	52	5	-
Iosco	268	1	-	4	8	9	13	34	87	69	55	16	5	1
Iron	121	-	1	2	2	11	7	23	34	32	28	4	-	-
Isabella	615	1	2	6	7	22	25	62	190	201	118	32	11	-
Jackson	2,063	14	15	47	70	88	89	309	595	549	431	142	23	-
Kalamazoo	3,168	8	22	30	67	111	104	334	802	908	771	300	45	-
Kalkaska	191	1	-	8	8	7	12	35	62	59	29	4	1	-

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

Table 4.12 (continued)
Live Births by Age of Mother and County
 Michigan Residents, 1994

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	8,778	28	57	122	218	258	348	1,003	2,032	2,692	2,154	753	114	2
Keweenaw	16	-	-	-	-	-	-	-	6	5	3	1	1	-
Lake	114	-	2	1	4	6	9	22	54	20	13	5	-	-
Lapeer	1,093	2	3	10	18	37	45	113	279	339	261	87	12	-
Leelanau	211	-	1	-	3	6	5	15	39	54	60	34	9	-
Lenawee	1,168	2	8	12	27	57	49	153	336	350	221	91	15	-
Livingston	1,728	-	1	7	15	24	37	84	263	606	559	191	25	-
Luce	68	-	2	1	2	6	2	13	24	17	7	6	1	-
Mackinac	137	-	-	-	4	3	8	15	46	38	25	12	1	-
Macomb	9,806	5	29	66	112	159	244	610	1,885	3,369	2,801	986	147	3
Manistee	257	-	2	2	2	10	21	37	74	72	47	22	5	-
Marquette	852	1	2	7	8	24	26	67	241	262	181	83	17	-
Mason	320	1	1	5	3	15	11	35	87	98	68	26	5	-
Mecosta	401	1	3	5	10	27	19	64	143	90	77	19	7	-
Menominee	270	1	2	3	4	8	12	29	64	97	55	22	2	-
Midland	1,110	1	4	7	8	23	32	74	238	387	282	114	14	-
Missaukee	175	0	0	2	7	9	7	25	46	54	37	11	2	-
Monroe	1,777	4	7	27	49	58	83	224	423	569	411	123	22	1
Montcalm	800	2	3	17	22	46	53	141	261	217	124	50	5	-
Montmorency	91	-	-	1	4	8	5	18	30	27	10	4	2	-
Muskegon	2,355	12	29	45	93	102	140	409	687	635	436	156	20	-
Newaygo	602	-	3	9	15	17	37	81	171	181	120	44	5	-
Oakland	16,277	12	42	115	202	277	387	1,023	2,576	4,847	5,389	2,110	320	-
Oceana	338	-	2	7	16	19	17	61	108	91	55	18	5	-
Ogemaw	250	1	1	5	6	14	16	42	79	70	39	18	1	-
Ontonagon	75	-	-	1	1	2	-	4	26	23	15	6	1	-
Osceola	279	1	1	2	11	8	12	34	95	72	51	19	6	1
Oscoda	109	-	2	1	1	8	3	15	31	29	20	12	2	-
Otsego	264	1	-	1	4	8	14	27	70	77	61	24	4	-
Ottawa	3,130	7	8	34	51	73	91	257	627	1,035	934	243	26	1
Presque Isle	124	-	-	1	4	4	5	14	36	39	25	8	2	-
Roscommon	240	1	1	4	9	10	9	33	70	79	34	20	3	-
Saginaw	3,227	15	38	78	103	113	167	499	926	879	668	204	36	-
St Clair	2,081	3	7	29	45	83	87	251	563	634	464	144	20	2
St Joseph	860	3	5	19	31	41	44	140	270	235	157	41	13	1
Sanilac	520	1	-	8	10	21	25	64	167	156	93	33	6	-
Schoolcraft	105	-	-	-	4	2	8	14	29	30	23	8	1	-
Shiawassee	947	2	2	18	28	31	47	126	249	307	190	63	10	-
Tuscola	732	1	1	12	20	33	35	101	217	214	145	54	-	-
Van Buren	1,121	2	12	24	38	60	64	198	311	266	238	92	13	1
Washtenaw	4,001	5	24	41	53	97	129	344	710	1,148	1,153	530	109	2
Wayne	34,816	165	359	677	1,113	1,555	1,861	5,565	9,845	8,992	6,900	2,868	471	10
Wexford	400	-	1	4	14	15	19	53	122	106	85	31	3	-
Unknown	13	-	-	-	-	1	1	2	3	5	2	1	-	-

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

Table 4.13
Vital Statistics for Residents of Selected Michigan Cities¹
 Michigan Residents, 1994

Area	Live Births	Deaths	Infant Deaths		Fetal Deaths	
			Number	Rate	Number	Rate
Allen Park	333	340	2	*	-	-
Ann Arbor	1,400	535	8	5.7	9	6.4
Battle Creek ²	1,09	610	8	7.3	3	*
Bay City	632	457	3	*	5	*
Burton City	360	234	3	*	-	-
Dearborn	1,605	953	11	6.9	3	*
Dearborn Heights	658	643	4	*	2	*
Detroit	19,421	11,357	322	16.6	111	5.7
East Detroit	414	431	1	*	2	*
East Lansing	329	167	4	*	1	*
Farmington Hills	1,006	590	2	*	6	5.9
Ferndale	421	267	3	*	4	*
Flint	3,207	1,475	64	20.0	15	4.7
Garden City	433	250	6	13.9	2	*
Grand Rapids	4,110	1,872	36	8.8	39	9.4
Highland Park	387	326	11	28.4	-	-
Holland	628	291	5	*	2	*
Inkster	517	316	8	15.5	2	*
Jackson	863	410	9	10.4	10	11.5
Kalamazoo	1,462	662	10	6.8	11	7.5
Kentwood	631	165	-	-	8	12.5
Lansing	2,459	1,004	28	11.4	3	*
Lincoln Park	580	429	1	*	6	10.2
Livonia	1,280	886	2	*	5	*
Madison Heights	470	285	3	*	2	*
Midland	593	297	7	11.8	1	*
Muskegon	798	457	9	11.3	12	14.8
Novi City	600	171	2	*	-	-
Oak Park	520	241	2	*	4	*
Pontiac	1,480	610	20	13.5	8	5.4
Portage	535	263	3	*	1	*
Port Huron	495	395	6	12.1	3	*
Rochester Hills City	871	403	2	*	3	*
Roseville	684	472	3	*	3	*
Royal Oak	849	579	7	8.2	7	8.2
Saginaw	1,608	715	19	11.8	7	4.3
St. Clair Shores	719	793	7	9.7	3	*
Southfield	964	888	9	9.3	3	*
Southgate	346	276	1	*	-	-
Sterling Heights	1,450	792	5	*	5	*
Taylor	1,112	519	3	*	4	*
Troy	874	423	4	*	6	6.8
Warren	1,811	1,482	19	10.5	11	6.0
Westland	1,302	785	10	7.7	9	6.9
Wyandotte	381	292	1	*	1	*
Wyoming	1,061	390	8	7.5	4	*

¹ 25,000 population or over according to the 1980 or 1990 Census.

² On January 1, 1983, Battle Creek City annexed Battle Creek Township. The data shown for Battle Creek in this table are for the current boundaries of Battle Creek, and thus are not comparable to data for Battle Creek for earlier years. The infant death rate in 1982 for the area which is now Battle Creek was 15.9.

Table 4.14
Number of Deaths by Underlying Cause and County
 Michigan Residents, 1994

Area	All Causes	T.B. (all forms)	All Other Infectious & Parasitic Diseases	Malignant Neoplasms							
				Total	Digestive Organs & Peritoneum	Respiratory & Intrathoracic Organs	Breast	Genital Organs	Urinary Organs	Leukemia	Other
Michigan	82,644	44	1,689	19,410	4,551	5,617	1,684	2,153	871	719	3,815
Alcona	167	1	2	43	10	12	7	1	1	2	10
Alger	101	-	2	25	3	6	1	4	1	-	10
Allegan	746	1	9	175	48	44	14	13	13	3	40
Alpena	318	-	3	80	11	23	9	10	6	3	18
Antrim	217	-	2	57	9	18	9	5	4	2	10
Arenac	188	-	2	42	16	6	7	2	-	4	7
Baraga	109	-	4	20	6	4	2	2	1	-	5
Barry	423	-	6	98	23	23	10	16	3	4	19
Bay	1,035	-	12	269	57	87	25	30	15	14	41
Benzie	150	-	3	22	7	6	1	2	1	1	4
Berrien	1,549	2	29	368	97	120	25	44	17	13	52
Branch	371	1	6	80	17	25	5	8	3	3	19
Calhoun	1,348	-	18	324	86	93	29	28	14	13	61
Cass	446	-	4	113	22	32	11	18	6	1	23
Charlevoix	206	-	2	48	14	10	-	4	-	3	17
Cheboygan	260	-	5	73	20	19	5	11	4	3	11
Chippewa	285	-	1	60	16	14	4	7	2	3	14
Clare	350	-	6	97	25	32	7	9	5	2	17
Clinton	391	-	3	92	13	29	13	9	7	3	18
Crawford	120	-	-	35	5	14	-	6	1	-	9
Delta	377	-	3	95	26	27	8	7	7	2	18
Dickinson	292	-	5	73	19	20	3	5	4	5	17
Eaton	696	-	22	151	41	36	11	13	5	9	36
Emmet	283	-	7	52	8	19	2	7	1	2	13
Genesee	3,629	1	56	792	161	259	78	85	33	21	155
Gladwin	291	-	2	68	21	16	9	4	2	4	12
Gogebic	228	-	1	54	14	14	3	6	3	-	14
Gd. Traverse	551	-	5	143	24	32	11	30	7	7	32
Gratiot	394	-	3	80	19	16	10	14	1	3	17
Hillsdale	403	-	6	88	16	24	7	13	3	5	20
Houghton	401	-	3	79	16	20	6	11	5	2	19
Huron	424	-	7	89	22	31	6	6	1	4	19
Ingham	1,859	-	40	423	110	117	34	50	16	17	79
Ionia	433	-	3	105	24	26	10	15	7	3	20
Iosco	378	-	5	77	21	24	7	6	8	-	11
Iron	240	-	2	53	12	18	4	5	3	1	10
Isabella	344	-	6	83	19	25	3	9	5	3	19
Jackson	1,365	1	35	333	79	97	31	41	13	15	57
Kalamazoo	1,669	-	28	381	100	116	28	47	10	21	59
Kalkaska	135	-	-	28	8	6	1	4	2	-	7

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

Table 4.14 (continued)
Number of Deaths by Underlying Cause and County
 Michigan Residents, 1994

Area	All Causes	T.B. (all forms)	All Other Infectious & Parasitic Diseases	Malignant Neoplasms							
				Total	Digestive Organs & Peritoneum	Respiratory & Intrathoracic Organs	Breast	Genital Organs	Urinary Organs	Leukemia	Other
Kent	3,884	1	68	897	185	231	87	105	53	41	195
Keweenaw	28	-	-	9	-	5	-	-	2	-	2
Lake	141	-	1	35	6	11	1	7	2	4	4
Lapeer	519	-	7	125	31	35	13	14	5	6	21
Leelanau	159	-	5	38	4	19	5	4	-	2	4
Lenawee	741	-	14	160	29	48	25	16	6	5	31
Livingston	791	-	15	192	38	55	20	18	10	9	42
Luce	79	-	1	20	5	6	-	3	1	1	4
Mackinac	132	-	1	45	11	11	5	2	2	1	13
Macomb	6,254	1	108	1,644	401	478	140	170	80	42	333
Manistee	324	-	-	82	21	24	2	14	4	2	15
Marquette	589	-	8	127	29	36	12	12	9	3	26
Mason	282	-	1	68	13	24	3	11	4	-	13
Mecosta	295	-	4	75	14	28	2	7	7	6	11
Menominee	280	-	2	64	19	24	3	4	1	5	8
Midland	517	-	4	115	26	29	13	17	3	2	25
Missaukee	127	-	1	27	2	7	1	5	1	2	9
Monroe	1,143	1	12	294	69	92	23	27	18	10	55
Montcalm	506	-	8	122	23	44	8	10	6	6	25
Menominee	280	-	2	64	19	24	3	4	1	5	8
Midland	517	-	4	115	26	29	13	17	3	2	25
Missaukee	127	-	1	27	2	7	1	5	1	2	9
Monroe	1,143	1	12	294	69	92	23	27	18	10	55
Montcalm	506	-	8	122	23	44	8	10	6	6	25
Montmorency	130	-	1	26	9	10	2	-	1	1	3
Muskegon	1,546	1	32	338	58	98	27	42	11	11	91
Newaygo	417	-	6	107	22	29	4	14	3	6	29
Oakland	8,362	5	164	2,053	454	560	220	238	93	86	402
Oceana	208	-	2	45	10	14	2	2	4	2	11
Ogemaw	244	-	2	51	12	16	2	8	2	2	9
Ontonagon	123	-	-	23	6	3	1	6	2	-	5
Osceola	207	-	4	51	8	19	3	6	4	1	10
Oscoda	105	-	-	21	6	8	2	1	-	1	3
Otsego	155	-	1	38	10	12	4	1	1	2	8
Ottawa	1,257	1	14	294	71	69	34	35	13	11	61
Presque Isle	181	-	2	45	12	10	5	3	3	3	9
Roscommon	308	-	5	64	19	19	4	6	4	1	11
Saginaw	1,925	3	29	453	107	140	33	52	15	18	88
St. Clair	1,376	1	22	339	80	105	18	34	19	13	70
St. Joseph	565	-	1	134	29	39	15	11	4	8	28
Sanilac	468	-	5	103	23	27	12	13	3	4	21
Schoolcraft	99	-	2	26	6	7	5	4	-	1	3
Shiawassee	588	-	8	140	30	46	13	12	9	3	27
Tuscola	491	-	2	96	18	26	10	12	3	8	19
Van Buren	667	-	9	143	30	47	12	12	6	7	29
Washtenaw	1,622	-	54	374	85	89	34	36	20	15	95
Wayne	21,349	23	705	4,873	1,240	1,437	401	547	195	162	891
Wexford	284	-	1	66	15	20	2	5	2	5	17
Unknown	4	-	-	-	-	-	-	-	-	-	-

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

Table 4.14 (continued)
 Number of Deaths by Underlying Cause and County
 Michigan Residents, 1994

Area	Diabetes Mellitus	Nutritional Deficiencies	Major Cardiovascular Diseases						Pneumonia & Influenza	C.O.P.D. and Allied Diseases	Ulcer of Stomach and Duodenum	Chronic Liver Disease & Cirrhosis
			Total	Diseases of the Heart	Hypertension with or without Renal Disease	Cerebrovascular Disease	Atherosclerosis	Other Diseases of Arteries, Arterioles, Capillaries				
Michigan	2,224	169	36,025	28,195	372	5,680	805	973	2,877	3,447	209	1,035
Alcona	1	-	65	47	-	16	1	1	11	8	1	3
Alger	5	-	47	36	-	9	2	-	3	5	-	3
Allegan	25	2	321	246	2	53	5	15	44	24	2	3
Alpena	5	2	129	104	3	19	1	2	15	17	2	-
Antrim	3	-	98	74	2	16	5	1	5	8	1	3
Arenac	6	-	83	66	-	14	2	1	5	12	-	2
Baraga	6	-	55	44	1	8	-	2	6	4	1	-
Barry	15	-	174	130	1	35	2	6	14	22	1	6
Bay	38	2	466	356	5	58	32	15	32	45	2	7
Benzie	5	-	80	61	1	15	3	-	5	8	-	-
Berrien	51	3	666	488	13	111	32	22	51	62	6	19
Branch	7	-	162	131	-	22	1	8	14	20	-	5
Calhoun	41	5	572	451	3	86	18	14	61	64	3	11
Cass	11	-	188	139	4	36	3	6	20	25	-	3
Charlevoix	3	-	99	78	1	14	1	5	4	7	-	3
Cheboygan	3	-	112	90	-	18	2	2	8	11	-	3
Chippewa	15	3	129	100	-	24	2	3	8	16	-	5
Clare	7	1	146	122	1	19	-	4	18	16	-	2
Clinton	6	-	170	134	-	28	5	3	19	29	2	5
Crawford	3	-	47	35	1	9	2	-	4	6	1	-
Delta	14	-	169	133	1	24	5	6	9	11	-	3
Dickinson	7	-	128	90	2	27	6	3	11	15	-	-
Eaton	7	5	311	232	2	56	11	10	31	32	3	4
Emmet	4	-	117	96	-	15	1	5	19	16	1	3
Genesee	96	7	1,617	1,303	18	238	23	35	84	168	9	43
Gladwin	7	-	141	107	-	22	5	7	11	13	-	5
Gogebic	4	-	100	81	-	13	-	6	15	9	2	1
Gd. Traverse	9	2	231	174	3	43	6	5	16	28	2	3
Gratiot	7	2	185	141	-	38	2	4	36	17	-	3
Hillsdale	9	8	158	119	3	28	2	6	14	20	1	5
Houghton	7	2	209	163	-	35	4	7	18	15	1	2
Huron	11	-	215	161	-	44	3	7	17	18	-	3
Ingham	52	7	770	597	9	124	15	25	64	81	4	14
Ionia	10	1	175	134	2	35	1	3	16	28	3	8
Iosco	7	-	176	124	1	25	17	9	21	20	2	2
Iron	12	-	126	86	1	34	1	4	14	6	1	1
Isabella	8	-	148	108	-	33	5	2	16	16	3	3
Jackson	20	2	548	422	10	88	13	15	75	77	2	10
Kalamazoo	50	10	663	499	12	119	9	24	68	81	5	20
Kalkaska	7	1	50	39	1	4	5	1	7	5	1	3

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

Table 4.14 (continued)
 Number of Deaths by Underlying Cause and County
 Michigan Residents, 1994

Area	Diabetes Mellitus	Nutritional Deficiencies	Major Cardiovascular Diseases						Pneumonia & Influenza	C.O.P.D. and Allied Diseases	Ulcer of Stomach and Duodenum	Chronic Liver Disease & Cirrhosis
			Total	Diseases of the Heart	Hypertension with or without Renal Disease	Cerebrovascular Disease	Atherosclerosis	Other Diseases of Arteries Arterioles Capillaries				
Kent	95	3	1,637	1,312	18	239	23	45	170	135	11	29
Keweenaw	2	-	13	12	-	-	-	1	1	1	-	-
Lake	3	-	71	55	-	11	-	5	1	6	-	1
Lapeer	11	1	232	171	3	39	8	11	16	22	2	4
Leelanau	2	1	63	46	-	9	3	5	1	8	-	2
Lenawee	22	-	359	248	11	65	26	9	30	25	1	5
Livingston	23	6	344	285	3	42	5	9	15	44	1	6
Luce	3	2	28	24	-	3	1	-	5	4	-	2
Mackinac	4	-	56	43	-	11	-	2	4	4	-	3
Macomb	148	13	2,827	2,195	24	448	89	71	203	283	8	86
Manistee	10	1	168	123	2	29	10	4	5	12	-	6
Marquette	20	2	245	175	3	56	2	9	24	19	-	8
Mason	10	1	122	93	1	18	2	8	13	18	1	2
Mecosta	8	-	114	94	1	17	1	1	14	11	-	4
Menominee	9	-	131	90	2	23	14	2	13	13	-	1
Midland	16	-	217	166	3	29	10	9	25	23	1	10
Missaukee	6	-	56	38	-	16	-	2	6	6	-	-
Monroe	30	-	495	405	7	63	12	8	24	72	3	16
Montcalm	17	5	203	157	2	30	2	12	21	24	-	2
Montmorency	1	-	53	44	-	7	2	-	7	11	3	-
Muskegon	54	3	698	521	6	111	49	11	49	76	6	19
Newaygo	10	-	196	163	-	23	5	5	17	12	1	1
Oakland	216	15	3,758	2,928	30	642	59	99	249	344	17	98
Oceana	5	-	94	81	1	10	-	2	8	9	-	-
Ogemaw	5	1	136	98	-	20	14	4	7	6	1	3
Ontonagon	8	-	60	41	-	9	7	3	4	7	1	-
Osceola	2	-	94	74	1	15	2	2	3	16	1	2
Oscoda	5	3	46	33	-	10	1	2	4	6	1	1
Otsego	1	1	71	56	-	9	3	3	-	5	-	3
Ottawa	30	10	505	366	9	94	18	18	62	49	7	8
Presque Isle	3	-	85	70	-	14	-	1	8	5	-	2
Roscommon	10	-	158	122	1	26	2	7	9	16	1	3
Saginaw	40	2	850	653	12	131	19	35	53	122	6	26
St. Clair	41	1	588	458	7	96	12	15	47	63	4	23
St. Joseph	27	1	248	197	2	39	2	8	24	33	1	4
Sanilac	19	1	225	170	-	47	-	8	8	12	3	7
Schoolcraft	2	-	30	22	-	6	-	2	3	7	-	2
Shiawassee	15	1	267	198	-	45	18	6	25	29	2	7
Tuscola	16	1	233	170	4	49	3	7	19	21	3	5
Van Buren	25	-	307	249	2	37	15	4	15	32	4	7
Washtenaw	49	2	636	469	4	141	9	13	58	74	2	17
Wayne	591	27	9,135	7,445	110	1,269	102	209	688	661	54	387
Wexford	6	-	124	93	-	27	2	2	10	16	1	4
Unknown	-	-	1	1	-	-	-	-	-	-	-	-

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

Table 4.14 (continued)
Number of Deaths by Underlying Cause and County
 Michigan Residents, 1994

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	908	8	419	608	366	8,091	2,928	1,445	1,483	1,022	1,023	142
Alcona	1	-	1	-	-	21	7	3	4	2	-	-
Alger	3	-	1	-	-	4	2	1	1	1	-	-
Allegan	5	-	1	5	2	70	44	19	25	12	1	-
Alpena	3	-	1	-	1	43	15	6	9	2	-	-
Antrim	4	-	1	1	-	21	11	3	8	2	-	-
Arenac	3	-	3	1	-	12	15	9	6	1	1	-
Baraga	-	-	1	-	-	6	5	1	4	-	1	-
Barry	5	-	3	2	4	39	25	17	8	9	-	-
Bay	8	-	3	1	6	91	29	13	16	21	2	1
Benzie	-	-	1	-	-	14	9	6	3	3	-	-
Berrien	13	1	6	5	4	155	76	34	42	11	20	1
Branch	-	-	1	-	4	42	18	9	9	9	2	-
Calhoun	17	-	7	6	5	129	58	19	39	16	11	-
Cass	4	-	2	4	2	38	23	16	7	7	2	-
Charlevoix	2	-	-	1	-	23	10	7	3	2	2	-
Cheboygan	1	-	2	3	1	26	8	2	6	4	-	-
Chippewa	-	-	3	2	-	31	9	6	3	2	-	1
Clare	2	-	3	2	1	32	11	9	2	5	1	-
Clinton	4	-	1	-	3	41	6	4	2	7	3	-
Crawford	3	-	-	1	-	12	4	-	4	4	-	-
Delta	5	-	3	4	2	35	17	6	11	5	2	-
Dickinson	5	-	1	-	1	28	12	3	9	6	-	-
Eaton	14	-	1	3	6	69	30	14	16	4	3	-
Emmet	6	-	1	-	-	36	15	9	6	5	-	1
Genesee	46	-	23	53	23	349	147	83	64	46	64	5
Gladwin	2	-	-	-	1	29	7	2	5	4	1	-
Gogebic	4	-	1	1	2	21	9	3	6	4	-	-
Gd. Traverse	5	-	1	1	2	69	24	10	14	9	1	-
Gratiot	6	-	-	2	2	33	15	9	6	3	0	-
Hillsdale	9	-	4	3	2	50	22	8	14	2	2	-
Houghton	6	-	2	-	-	43	12	8	4	2	-	-
Huron	7	-	1	1	-	34	12	5	7	8	1	-
Ingham	30	-	10	16	13	210	82	34	48	29	10	4
Ionia	2	-	3	1	4	42	21	9	12	9	2	-
Iosco	4	-	1	3	2	42	11	6	5	4	1	-
Iron	1	-	-	-	2	15	4	1	3	2	-	1
Isabella	3	-	2	6	-	28	12	9	3	6	3	1
Jackson	25	-	12	10	3	146	42	24	18	12	7	5
Kalamazoo	19	-	5	12	7	213	74	38	36	21	12	-
Kalkaska	2	-	-	1	-	13	15	9	6	2	-	-

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

Table 4.14 (continued)
Number of Deaths by Underlying Cause and County
 Michigan Residents, 1994

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	36	-	35	27	16	478	159	80	79	52	29	6
Keweenaw	-	-	-	-	-	2	-	-	-	-	-	-
Lake	2	-	-	1	2	10	5	4	1	3	-	-
Lapeer	5	-	1	-	2	44	33	18	15	13	1	-
Leelanau	4	-	-	1	1	24	9	5	4	-	-	-
Lenawee	6	-	3	2	-	71	34	21	13	8	1	-
Livingston	4	-	4	2	5	80	39	28	11	10	1	-
Luce	-	-	-	-	-	13	1	-	1	-	-	-
Mackinac	1	-	-	-	-	9	4	1	3	1	-	-
Macomb	87	-	26	31	17	519	158	73	85	65	27	3
Manistee	-	-	2	-	-	21	9	4	5	8	-	-
Marquette	10	-	2	4	1	86	25	14	11	8	-	-
Mason	3	-	-	-	1	26	11	3	8	4	1	-
Mecosta	-	-	2	2	2	34	19	8	11	6	-	-
Menominee	3	-	3	-	1	18	19	13	6	3	-	-
Midland	6	-	3	8	3	51	24	15	9	10	1	-
Missaukee	2	-	-	-	-	18	4	3	1	-	1	-
Monroe	16	-	5	7	5	107	39	24	15	12	5	-
Montcalm	4	-	2	-	3	50	34	22	12	10	1	-
Montmorency	1	-	-	-	2	15	5	3	2	5	-	-
Muskegon	13	1	12	9	7	139	53	22	31	21	15	-
Newaygo	8	-	3	1	1	26	24	16	8	4	-	-
Oakland	73	-	38	50	32	802	229	94	135	120	64	35
Oceana	3	-	-	2	1	21	16	7	9	1	1	-
Ogemaw	2	-	-	2	1	9	11	6	5	6	1	-
Ontonagon	-	-	-	-	1	11	6	4	2	2	-	-
Osceola	-	-	1	-	-	21	7	4	3	4	1	-
Oscoda	1	-	1	-	1	10	3	2	1	2	-	-
Otsego	2	-	1	1	-	22	5	3	2	3	1	-
Ottawa	10	-	4	16	10	155	61	34	27	14	6	1
Presque Isle	3	-	-	-	1	19	5	1	4	1	-	2
Roscommon	4	-	2	-	3	16	13	5	8	2	1	1
Saginaw	22	-	12	18	15	172	55	24	31	21	24	2
St. Clair	17	-	8	11	6	127	52	26	26	18	7	1
St. Joseph	3	-	4	2	-	48	28	14	14	7	-	-
Sanilac	6	-	3	1	3	43	22	12	10	6	1	-
Schoolcraft	2	-	1	1	-	14	7	2	5	1	1	-
Shiawassee	11	-	2	1	2	50	23	13	10	4	-	1
Tuscola	2	-	4	2	1	45	35	21	14	3	3	-
Van Buren	9	-	4	-	4	72	26	14	12	8	2	-
Washtenaw	10	1	8	16	5	200	72	36	36	24	18	2
Wayne	233	4	111	238	104	2,013	560	267	293	221	654	67
Wexford	5	1	-	-	2	25	15	5	10	8	-	-
Unknown	-	-	-	1	-	-	1	-	1	-	-	1

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

Table 4.15
Reported Cases of Certain Communicable Diseases by County
 Michigan Residents, 1994

Area	Total	Gonorrhea	Chicken Pox	Hepatitis (all types)	Salmonella Infections	Tuberculosis	Syphilis	Mumps	Dysentery Bacillary	Measles	Rubella	Meningococcal Infections	Whooping Cough
Michigan	59,007	18,100	37,982	997	869	447	321	59	42	26	9	59	96
Alcona	2	-	-	-	2	-	-	-	-	-	-	-	-
Alger	-	-	-	-	-	-	-	-	-	-	-	-	-
Allegan	185	20	152	4	5	3	-	-	-	-	-	1	-
Alpena	47	-	35	7	4	-	-	-	-	1	-	-	-
Antrim	21	2	8	8	1	-	-	1	-	-	-	-	1
Arenac	3	-	-	-	1	-	-	-	-	-	-	-	2
Baraga	1	-	1	-	-	-	-	-	-	-	-	-	-
Barry	59	7	40	6	4	1	-	-	-	-	-	1	-
Bay	723	36	675	6	4	1	-	1	-	-	-	-	-
Benzie	20	-	11	1	4	1	-	1	-	2	-	-	-
Berrien	1,523	643	817	18	11	6	21	1	4	-	-	2	-
Branch	190	4	177	5	3	-	-	-	-	-	-	-	1
Calhoun	495	314	73	84	17	2	5	-	-	-	-	-	-
Cass	297	59	219	7	8	3	-	-	-	-	-	-	1
Charlevoix	42	-	37	1	4	-	-	-	-	-	-	-	-
Cheboygan	4	-	2	1	1	-	-	-	-	-	-	-	-
Chippewa	103	4	93	2	4	-	-	-	-	-	-	-	-
Clare	43	1	-	1	1	-	-	-	-	-	-	-	40
Clinton	40	11	1	6	18	1	-	-	3	-	-	-	-
Crawford	23	4	17	1	1	-	-	-	-	-	-	-	-
Delta	101	1	83	5	8	-	-	2	-	-	-	1	1
Dickinson	320	-	315	2	3	-	-	-	-	-	-	-	-
Eaton	179	19	146	5	7	-	-	-	1	-	-	1	-
Emmet	12	-	-	5	6	1	-	-	-	-	-	-	-
Genesee	2,830	1,606	1,142	15	31	15	19	-	-	-	-	2	-
Gladwin	103	-	96	2	1	2	-	1	-	-	-	-	1
Gogebic	48	-	46	-	-	2	-	-	-	-	-	-	-
Gd. Traverse	208	17	172	8	10	-	-	-	-	-	-	-	1
Gratiot	258	6	249	3	-	-	-	-	-	-	-	-	-
Hillsdale	229	6	213	5	3	-	-	-	1	-	-	-	1
Houghton	298	2	293	-	3	-	-	-	-	-	-	-	-
Huron	2	-	-	-	-	2	-	-	-	-	-	-	-
Ingham	967	611	259	20	40	12	4	-	10	5	-	-	6
Ionia	122	3	117	1	1	-	-	-	-	-	-	-	-
Iosco	20	-	18	1	1	-	-	-	-	-	-	-	-
Iron	11	1	10	-	-	-	-	-	-	-	-	-	-
Isabella	60	13	37	2	5	-	1	2	-	-	-	-	-
Jackson	563	237	297	4	11	4	7	2	-	1	-	-	-
Kalamazoo	1,090	491	521	52	19	2	1	-	1	-	-	3	-
Kalkaska	12	1	6	2	2	1	-	-	-	-	-	-	-

Source: Bureau of Infectious Disease Control, Disease Control Division, MDPH

Table 4.15 (continued)
Reported Cases of Certain Communicable Diseases by County
 Michigan Residents, 1994

Area	Total	Gonorrhea	Chicken Pox	Hepatitis (all types)	Salmonella Infections	Tuberculosis	Syphilis	Mumps	Dysentery Bacillary	Measles	Rubella	Meningococcal Infections	Whooping Cough
Kent	2,949	1,292	1,542	23	30	22	23	2	4	-	3	7	1
Keweenaw	-	-	-	-	-	-	-	-	-	-	-	-	-
Lake	13	10	-	3	-	-	-	-	-	-	-	-	-
Lapeer	549	5	520	5	17	-	-	1	-	-	-	1	-
Leelanau	8	1	3	2	2	-	-	-	-	-	-	-	-
Lenawee	379	20	337	4	14	2	1	1	-	-	-	-	-
Livingston	506	6	473	3	9	3	-	6	-	2	-	-	4
Luce	1	-	-	-	-	1	-	-	-	-	-	-	-
Mackinac	1	1	-	-	-	-	-	-	-	-	-	-	-
Macomb	3,494	167	3,179	47	73	15	1	-	-	-	3	-	9
Manistee	13	2	7	3	1	-	-	-	-	-	-	-	-
Marquette	64	14	27	4	15	3	-	-	1	-	-	-	-
Mason	174	5	168	1	-	-	-	-	-	-	-	-	-
Mecosta	303	39	257	1	1	2	2	-	-	-	1	-	-
Menominee	56	3	49	-	3	-	-	-	-	-	-	1	-
Midland	339	7	321	4	6	-	-	-	-	-	-	1	-
Missaukee	9	1	2	2	4	-	-	-	-	-	-	-	-
Monroe	614	67	517	13	12	3	-	1	-	-	-	-	1
Montcalm	80	7	65	1	2	3	-	-	2	-	-	-	-
Montmorency	10	1	6	1	1	1	-	-	-	-	-	-	-
Muskegon	881	447	388	20	13	4	8	-	-	-	-	1	-
Newaygo	179	6	163	6	1	-	-	-	-	-	-	1	2
Oakland	7,130	1,396	5,449	75	101	49	10	19	6	2	-	9	14
Oceana	28	2	19	3	3	1	-	-	-	-	-	-	-
Ogemaw	17	-	15	2	-	-	-	-	-	-	-	-	-
Ontonagon	14	1	13	-	-	-	-	-	-	-	-	-	-
Osceola	88	-	87	-	-	-	-	-	-	1	-	-	-
Oscoda	-	-	-	-	-	-	-	-	-	-	-	-	-
Otsego	25	-	22	1	2	-	-	-	-	-	-	-	-
Ottawa	693	63	593	15	14	4	-	-	1	-	2	1	-
Presque Isle	28	-	27	1	-	-	-	-	-	-	-	-	-
Roscommon	22	6	12	1	1	2	-	-	-	-	-	-	-
Saginaw	1,503	766	684	9	13	4	24	-	1	-	-	2	-
St. Clair	1,000	31	939	15	11	4	-	-	-	-	-	-	-
St. Joseph	135	24	100	8	1	2	-	-	-	-	-	-	-
Sanilac	55	2	50	-	3	-	-	-	-	-	-	-	-
Schoolcraft	1	-	-	-	-	1	-	-	-	-	-	-	-
Shiawassee	283	3	273	2	3	-	-	1	-	-	-	1	-
Tuscola	365	6	349	5	5	-	-	-	-	-	-	-	-
Van Buren	352	54	271	8	5	3	4	-	4	2	-	1	-
Washtenaw	346	207	45	46	30	8	2	-	1	-	-	3	4
Wayne	24,998	9,317	14,605	371	212	251	188	17	2	10	-	19	6
Wexford	48	2	27	2	17	-	-	-	-	-	-	-	-

Source: Bureau of Infectious Disease Control, Disease Control Division, MDPH

Table 4.16
Number of Deaths by Cause
Michigan Residents, 1994

ICD List Number	Cause of Death	Number
I. INFECTIOUS AND PARASITIC DISEASES (001-139)		
3	Other salmonella infections	1
7	Other protozoal intestinal diseases	1
8	Intestinal infections due to other organisms	19
9	Ill-defined intestinal infections	13
11	Pulmonary tuberculosis	32
12	Other respiratory tuberculosis	1
13	Tuberculosis of meninges and central nervous system	2
14	Tuberculosis of intestines, peritoneum and mesenteric glands	1
17	Tuberculosis of other organs	1
18	Miliary tuberculosis	7
27	Other zoonotic bacterial diseases	1
31	Diseases due to other mycobacteria	3
36	Meningococcal infection	3
38	Septicemia	634
39	Actinomycotic infections	2
40	Other bacterial diseases	9
41	Bacterial infection in conditions classified elsewhere and of unspecified site	4
42	Human immunodeficiency virus infection [AIDS] with specified conditions	715
43	Human immunodeficiency virus infection [AIDS] causing other specified conditions	14
44	Other human immunodeficiency virus infection [AIDS]	28
46	Slow virus infection of central nervous system	5
48	Other enterovirous diseases of central nervous system	2
49	Other non-arthropod-borne viral diseases of central nervous system	8
52	Chickenpox	10
53	Herpes zoster	4
54	Herpes simplex	5
70	Viral hepatitis	77
78	Other diseases due to viruses and Chlamydiae	16
79	Viral infection in conditions classified elsewhere and of unspecified site	9
85	Leishmaniasis	1
94	Neurosyphilis	1
112	Candidiasis	15
115	Histoplasmosis	3
117	Other mycoses	32
135	Sarcoidosis	19
136	Other and unspecified infections and parasitic diseases	15
137	Late effects of tuberculosis	5
138	Late effects of acute poliomyelitis	12
139	Late effects of other infectious and parasitic diseases	3
II. NEOPLASMS (140-239)		
140	Malignant neoplasm of lip	2
141	Malignant neoplasm of tongue	72
142	Malignant neoplasm of major salivary glands	16
143	Malignant neoplasm of gum	2
144	Malignant neoplasm of floor of mouth	10
145	Malignant neoplasm of other and unspecified parts of mouth	52

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

Table 4.16 (continued)
Number of Deaths by Cause
 Michigan Residents, 1994

ICD List Number	Cause of Death	Number
146	Malignant neoplasm of oropharynx	42
147	Malignant neoplasm of nasopharynx	17
148	Malignant neoplasm of hypopharynx	13
149	Malignant neoplasm of other and ill-defined sites within the lip, oral cavity and pharynx	49
150	Malignant neoplasm of esophagus	426
151	Malignant neoplasm of stomach	466
152	Malignant neoplasm of small intestine, including duodenum	43
153	Malignant neoplasm of colon	1,755
154	Malignant neoplasm of rectum, rectosigmoid junction and anus	293
155	Malignant neoplasm of liver and intrahepatic bile ducts	376
156	Malignant neoplasm of gallbladder and extrahepatic bile ducts	131
157	Malignant neoplasm of pancreas	970
158	Malignant neoplasm of retroperitoneum and peritoneum	30
159	Malignant neoplasm of other and ill-defined sites within the digestive organs and peritoneum	61
160	Malignant neoplasm of nasal cavities, middle ear and accessory sinuses	20
161	Malignant neoplasm of larynx	168
162	Malignant neoplasm of trachea, bronchus and lung	5,401
163	Malignant neoplasm of pleura	12
164	Malignant neoplasm of thymus, heart and mediastinum	16
170	Malignant neoplasm of bone and articular cartilage	47
171	Malignant neoplasm of connective and other soft tissue	120
172	Malignant melanoma of skin	187
173	Other malignant neoplasm of skin	43
174	Malignant neoplasm of female breast	1,666
175	Malignant neoplasm of male breast	18
179	Malignant neoplasm of uterus, part unspecified	114
180	Malignant neoplasm of cervix uteri	181
181	Malignant neoplasm of placenta	2
182	Malignant neoplasm of body of uterus	130
183	Malignant neoplasm of ovary and other uterine adnexa	467
184	Malignant neoplasm of other and unspecified female genital organs	31
185	Malignant neoplasm of prostate	1,201
186	Malignant neoplasm of testis	17
187	Malignant neoplasm of penis and other male genital organs	10
188	Malignant neoplasm of bladder	441
189	Malignant neoplasm of kidney and other and unspecified urinary organs	430
190	Malignant neoplasm of eye	8
191	Malignant neoplasm of brain	482
192	Malignant neoplasm of other and unspecified parts of nervous system	9
193	Malignant neoplasm of thyroid gland	32
194	Malignant neoplasm of other endocrine glands and related structures	30
195	Malignant neoplasm of other and ill-defined sites	154
199	Malignant neoplasm without specification of site	1,142
200	Lymphosarcoma and reticulosarcoma	44
201	Hodgkin's disease	58
202	Other malignant neoplasm of lymphoid and histiocytic tissue	794
203	Multiple myeloma and immunoproliferative neoplasms	390
204	Lymphoid leukemia	234
205	Myeloid leukemia	281

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

Table 4.16 (continued)
Number of Deaths by Cause
Michigan Residents, 1994

ICD List Number	Cause of Death	Number
206	Monocytic leukemia	9
207	Other specified leukemia	3
208	Leukemia of unspecified cell type	192
211	Benign neoplasm of other parts of digestive system	8
212	Benign neoplasm of respiratory and intrathoracic organs	6
214	Lipoma	1
215	Other benign neoplasm of connective and other soft tissue	2
216	Benign neoplasm of skin	2
220	Benign neoplasm of ovary	1
225	Benign neoplasm of brain and other parts of nervous system	27
227	Benign neoplasm of other endocrine glands and related structures	6
228	Hemangioma and lymphangioma, any site	2
229	Benign neoplasm of other and unspecified sites	2
235	Neoplasm of uncertain behavior of digestive and respiratory systems	6
237	Neoplasm of uncertain behavior of endocrine glands and nervous system	4
238	Neoplasm of uncertain behavior of other and unspecified sites and tissues	55
239	Neoplasm of unspecified nature	108
III. ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES AND IMMUNITY DISORDERS (240-279)		
240	Simple and unspecified goiter	1
242	Thyrotoxicosis with or without goiter	3
244	Acquired hypothyroidism	33
250	Diabetes mellitus	2,224
251	Other disorders of pancreatic internal secretion	5
252	Disorders of parathyroid gland	4
253	Disorders of the pituitary gland and its hypothalamic control	11
255	Disorders of adrenal glands	7
259	Other endocrine disorders	4
260	Kwashiorkor	2
261	Nutritional marasmus	10
263	Other and unspecified protein-calorie malnutrition	153
265	Thiamine and niacin deficiency states	1
269	Other nutritional deficiencies	3
270	Disorders of amino-acid transport and metabolism	2
272	Disorders of lipid metabolism	106
273	Disorders of plasma protein metabolism	19
274	Gout	1
275	Disorders of mineral metabolism	15
276	Disorders of fluid, electrolyte and acid-base balance	242
277	Other and unspecified disorders of metabolism	66
278	Obesity and other hyperalimentation	66
279	Disorders involving the immune mechanism	31
IV. DISEASES OF BLOOD AND BLOOD-FORMING ORGANS (280-289)		
280	Iron deficiency anemias	4
281	Other deficiency anemias	6
282	Hereditary hemolytic anemias	32

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

Table 4.16 (continued)
Number of Deaths by Cause
Michigan Residents, 1994

ICD List Number	Cause of Death	Number
283	Acquired hemolytic anemias	4
284	Aplastic anemias	48
285	Other and unspecified anemia	87
286	Coagulation defects	43
287	Purpura and other hemorrhagic conditions	31
288	Diseases of white blood cells	15
289	Other diseases of blood and blood-forming organs	100
V. MENTAL DISORDERS (290-319)		
290	Senile and presenile organic psychotic conditions	481
291	Alcoholic psychoses	13
293	Transient organic psychotic conditions	1
294	Other organic psychotic conditions (chronic)	4
295	Schizophrenic disorders	4
296	Affective psychoses	3
298	Other nonorganic psychoses	284
300	Neurotic disorders	2
303	Alcohol dependence syndrome	157
304	Drug dependence	1
305	Nondependent abuse of drugs	172
307	Special symptoms or syndromes, not elsewhere classified	4
308	Acute reaction to stress	4
310	Specific nonpsychotic mental disorders following organic brain damage	78
311	Depressive disorder, not elsewhere classified	18
319	Unspecified mental retardation	8
VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS (320-389)		
320	Bacterial meningitis	5
322	Meningitis of unspecified cause	11
323	Encephalitis, myelitis and encephalomyelitis	7
324	Intracranial and intraspinal abscess	5
325	Phlebitis and thrombophlebitis of intracranial venous sinuses	2
326	Late effects of intracranial abscess or pyogenic infection	4
330	Cerebral degenerations usually manifest in childhood	9
331	Other cerebral degenerations	579
332	Parkinson's disease	322
333	Other extrapyramidal disease and abnormal movement disorders	29
334	Spinocerebellar disease	7
335	Anterior horn cell disease	169
336	Other diseases of spinal cord	11
340	Multiple sclerosis	97
341	Other demyelinating diseases of central nervous system	2
342	Hemiplegia	10
343	Infantile cerebral palsy	53
344	Other paralytic syndromes	24
345	Epilepsy	115
348	Other conditions of brain	145
349	Other and unspecified disorders of the nervous system	6

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

Table 4.16 (continued)
Number of Deaths by Cause
Michigan Residents, 1994

ICD List Number	Cause of Death	Number
352	Disorders of other cranial nerves	2
355	Monneuritis of lower limb	2
356	Hereditary and idiopathic peripheral neuropathy	21
357	Inflammatory and toxic neuropathy	8
358	Myoneural disorders	23
359	Muscular dystrophies and other myopathies	49
365	Glaucoma	1
376	Disorders of the orbit	1
382	Suppurative and unspecified otitis media	2
VII. DISEASES OF THE CIRCULATORY SYSTEM (390-459)		
391	Rheumatic fever with heart involvement	5
394	Diseases of mitral valve	85
395	Diseases of aortic valve	3
396	Diseases of mitral and aortic valves	22
397	Diseases of other endocardial structures	15
398	Other rheumatic heart disease	35
401	Essential hypertension	162
402	Hypertensive heart disease	846
403	Hypertensive renal disease	210
404	Hypertensive heart and renal disease	87
410	Acute myocardial infarction	9,023
411	Other acute and subacute forms of ischemic heart disease	45
412	Old myocardial infarction	21
413	Angina pectoris	48
414	Other forms of chronic ischemic heart disease	9,402
415	Acute pulmonary heart disease	269
416	Chronic pulmonary heart disease	95
417	Other diseases of pulmonary circulation	4
421	Acute and subacute endocarditis	27
422	Acute myocarditis	11
423	Other diseases of pericardium	18
424	Other diseases of endocardium	488
425	Cardiomyopathy	1,052
426	Conduction disorders	19
427	Cardiac dysrhythmias	977
428	Heart failure	1,808
429	Ill-defined descriptions and complications of heart disease	3,790
430	Subarachnoid hemorrhage	266
431	Intracerebral hemorrhage	634
432	Other and unspecified intracranial hemorrhage	141
433	Occlusion and stenosis of precerebral arteries	55
434	Occlusion of cerebral arteries	886
435	Transient cerebral ischemia	8
436	Acute but ill-defined cerebrovascular disease	2,845
437	Other and ill-defined cerebrovascular disease	431
438	Late effects of cerebrovascular disease	414
440	Atherosclerosis	805
441	Aortic aneurysm	594

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

Table 4.16 (continued)
Number of Deaths by Cause
 Michigan Residents, 1994

ICD List Number	Cause of Death	Number
442	Other aneurysm	31
443	Other peripheral vascular disease	207
444	Arterial embolism and thrombosis	62
446	Polyarteritis nodosa and allied conditions	31
447	Other disorders of arteries and arterioles	48
451	Phlebitis and thrombophlebitis	68
453	Other venous embolism and thrombosis	15
454	Varicose veins of lower extremities	10
455	Haemorrhoids	1
456	Varicose veins of other sites	19
457	Noninfective disorders of lymphatic channels	5
458	Hypotension	29
459	Other disorders of circulatory system	33
VIII. DISEASES OF THE RESPIRATORY SYSTEM (460-519)		
464	Acute laryngitis and tracheitis	3
465	Acute upper respiratory infections of multiple or unspecified sites	2
466	Acute bronchitis and bronchiolitis	22
473	Chronic sinusitis	2
478	Other diseases of upper respiratory tract	2
480	Viral pneumonia	18
481	Pneumococcal pneumonia	67
482	Other bacterial pneumonia	91
483	Pneumonia due to other specified organism	7
485	Bronchopneumonia, organism unspecified	97
486	Pneumonia, organism unspecified	2,551
487	Influenza	46
490	Bronchitis, not specified as acute or chronic	21
491	Chronic bronchitis	89
492	Emphysema	768
493	Asthma	193
494	Bronchiectasis	26
495	Extrinsic allergic alveolitis	2
496	Chronic airways obstruction, not elsewhere classified	2,348
500	Coal workers' pneumoconiosis	5
501	Asbestosis	9
502	Pneumoconiosis due to other silica or silicates	1
505	Pneumoconiosis, unspecified	3
506	Respiratory conditions due to chemical fumes and vapours	1
507	Pneumonitis due to solids and liquids	246
508	Respiratory conditions due to other and unspecified external agents	4
510	Empyema	7
511	Pleurisy	31
512	Pneumothorax	13
513	Abscess of lung and mediastinum	9
514	Pulmonary congestion and hypostasis	27
515	Postinflammatory pulmonary fibrosis	301
516	Other alveolar and parietoalveolar pneumopathy	27
518	Other diseases of lung	173

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

Table 4.16 (continued)
Number of Deaths by Cause
Michigan Residents, 1994

ICD List Number	Cause of Death	Number
519	Other diseases of respiratory system	21
IX. DISEASES OF THE DIGESTIVE SYSTEM (520-579)		
527	Diseases of the salivary glands	1
528	Disorders of the oral soft tissues, excluding lesions specific for gingiva and tongue	2
530	Diseases of esophagus	64
531	Gastric ulcer	71
532	Duodenal ulcer	55
533	Peptic ulcer, site unspecified	83
534	Gastrojejunal ulcer	2
535	Gastritis and duodenitis	28
536	Disorders of function of stomach	3
537	Other disorders of stomach and duodenum	11
540	Acute appendicitis	8
550	Inguinal hernia	6
551	Other hernia of abdominal cavity, with gangrene	7
552	Other hernia of abdominal cavity with obstruction, without mention of gangrene	21
553	Other hernia of abdominal cavity without mention of obstruction or gangrene	17
555	Regional enteritis	17
556	Idiopathic proctocolitis	11
557	Vascular insufficiency of intestine	269
558	Other noninfective gastroenteritis and colitis	49
560	Intestinal obstruction without mention of hernia	205
562	Diverticula of intestine	131
564	Functional digestive disorders, not elsewhere classified	7
565	Anal fissure and fistula	3
566	Abscess of anal and rectal regions	7
567	Peritonitis	59
568	Other disorders of peritoneum	10
569	Other disorders of intestine	79
570	Acute and subacute necrosis of liver	17
571	Chronic liver disease and cirrhosis	1,035
572	Liver abscess and sequelae of chronic liver disease	110
573	Other disorders of liver	70
574	Cholelithiasis	35
575	Other disorders of gallbladder	42
576	Other disorders of biliary tract	34
577	Diseases of pancreas	127
578	Gastrointestinal hemorrhage	237
579	Intestinal malabsorption	7
X. DISEASES OF THE GENITOURINARY SYSTEM (580-629)		
580	Acute glomerulonephritis	2
581	Nephrotic syndrome	6
582	Chronic glomerulonephritis	34
583	Nephritis and nephropathy, not specified as acute or chronic	7
584	Acute renal failure	159
585	Chronic renal failure	243
586	Renal failure, unspecified	454

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

Table 4.16 (continued)
Number of Deaths by Cause
 Michigan Residents, 1994

ICD List Number	Cause of Death	Number
587	Renal sclerosis, unspecified	1
588	Disorders resulting from impaired renal function	2
590	Infections of kidney	37
591	Hydronephrosis	2
592	Calculus of kidney and ureter	7
593	Other disorders of kidney and ureter	128
595	Cystitis	6
596	Other disorders of bladder	10
599	Other disorders of urethra and urinary tract	424
600	Hyperplasia of prostate	10
602	Other disorders of prostate	5
607	Disorders of penis	1
608	Other disorders of male genital organs	3
616	Inflammatory disease of cervix, vagina and vulva	4
618	Genital prolapse	1
619	Fistula involving female genital tract	1
620	Noninflammatory disorders of ovary, fallopian tube and broad ligament	1
623	Noninflammatory disorders of vagina	1
XI. COMPLICATIONS OF PREGNANCY, CHILDBIRTH, AND THE PUERPERIUM (630-676)		
648	Other current conditions in the mother classifiable elsewhere but complicating pregnancy, childbirth and the puerperium	1
658	Other problems associated with amniotic cavity and membranes	1
666	Postpartum haemorrhage	2
670	Major puerperal infection	1
671	Venous complications in pregnancy and the puerperium	1
674	Other and unspecified complications of the puerperium, not elsewhere classified	2
XII. DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE (680-709)		
682	Other cellulitis and abscess	25
686	Other local infections of skin and subcutaneous tissue	5
694	Bullous dermatoses	6
695	Erythematous conditions	5
696	Psoriasis and similar disorders	1
707	Chronic ulcer of skin	92
709	Other disorders of skin and subcutaneous tissue	1
XIII. DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE (710-739)		
710	Diffuse diseases of connective tissue	124
711	Arthropathy associated with infections	10
714	Rheumatoid arthritis and other inflammatory polyarthropathies	84
715	Osteoarthritis and allied disorders	26
716	Other and unspecified arthropathies	9
718	Other derangement of joint	1
720	Ankylosing spondylitis and other inflammatory spondylopathies	1
721	Spondylosis and allied disorders	5

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

Table 4.16 (continued)
Number of Deaths by Cause
Michigan Residents, 1994

ICD List Number	Cause of Death	Number
722	Invertebral disc disorders	1
723	Other disorders of cervical region	1
724	Other and unspecified disorders of back	2
728	Disorders of muscle, ligament and fascia	13
729	Other disorders of soft tissues	10
730	Osteomyelitis, periostitis and other infections involving bone	35
731	Osteitis deformans and osteopathies associated with other disorders classified elsewhere	5
732	Osteochondropathies	1
733	Other disorders of bone and cartilage	22
737	Curvature of spine	8
738	Other acquired deformity	1
XIV. CONGENITAL ANOMALIES (740-759)		
740	Anencephalus and similar anomalies	12
741	Spina bifida	3
742	Other congenital anomalies of nervous system	66
744	Congenital anomalies of ear, face and neck	1
745	Bulbus cordis anomalies and anomalies of cardiac septal closure	32
746	Other congenital anomalies of heart	91
747	Other congenital anomalies of circulatory system	44
748	Congenital anomalies of respiratory system	34
750	Other congenital anomalies of upper alimentary tract	1
751	Other congenital anomalies of digestive system	5
752	Congenital anomalies of genital organs	1
753	Congenital anomalies of urinary system	30
756	Other congenital musculoskeletal anomalies	19
757	Congenital anomalies of the integument	3
758	Chromosomal anomalies	40
759	Other and unspecified congenital anomalies	37
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	6
761	Fetus or newborn affected by maternal complications of pregnancy	45
762	Fetus or newborn affected by complications of placenta, cord and membranes	29
763	Fetus or newborn affected by other complications of labor and delivery	11
764	Slow fetal growth and fetal malnutrition	1
765	Disorders relating to short gestation and unspecified low birthweight	243
767	Birth trauma	11
768	Intrauterine hypoxia and birth asphyxia	15
769	Respiratory distress syndrome	83
770	Other respiratory conditions of fetus and newborn	73
771	Infections specific to the perinatal period	22
772	Fetal and neonatal hemorrhage	10
773	Hemolytic disease of fetus or newborn, due to isoimmunization	4
775	Endocrine and metabolic disturbances specific to the fetus and newborn	2
776	Hematological disorders of fetus and newborn	4
777	Perinatal disorders of digestive system	11
778	Conditions involving the integument and temperature regulation of fetus and newborn	8

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

Table 4.16 (continued)
Number of Deaths by Cause
Michigan Residents, 1994

ICD List Number	Cause of Death	Number
779	Other and ill-defined conditions originating in the perinatal period	30
XVI. SYMPTOMS, SIGNS AND ILL-DEFINED CONDITIONS (780-799)		
780	General symptoms	11
781	Symptoms involving nervous and musculoskeletal systems	2
785	Symptoms involving cardiovascular system	28
786	Symptoms involving respiratory system and other chest symptoms	7
790	Nonspecific findings on examination of blood	3
791	Nonspecific findings on examination of urine	3
797	Senility without mention of psychosis	3
798	Sudden death, cause unknown	180
799	Other ill-defined and unknown causes of morbidity and mortality	129
XVII. EXTERNAL CAUSES OF INJURY AND POISONING (E800-E999)		
E805	Hit by rolling stock [railway]	10
E810	Motor vehicle traffic accident involving collision with train	19
E812	Other motor vehicle traffic accident involving collision with another motor vehicle	705
E813	Motor vehicle traffic accident involving collision with other vehicle	23
E814	Motor vehicle traffic accident involving collision with pedestrian	194
E815	Other motor vehicle traffic accident involving collision on the highway	157
E816	Motor vehicle traffic accident due to loss of control, without collision on the highway	156
E817	Noncollision motor vehicle traffic accident while boarding or alighting	1
E818	Other noncollision motor vehicle traffic accident	17
E819	Motor vehicle traffic accident of unspecified nature	143
E820	Nontraffic accident involving motor-driven snow vehicle	12
E821	Nontraffic accident involving other off-road motor vehicle	3
E822	Other motor vehicle nontraffic accident involving collision with moving object	8
E823	Other motor vehicle nontraffic accident involving collision with stationary object	1
E825	Other motor vehicle nontraffic accident of other and unspecified nature	6
E826	Pedal cycle accident	1
E828	Accident involving animal being ridden	1
E830	Accident to watercraft causing submersion	14
E831	Accident to watercraft causing other injury	3
E832	Other accidental submersion or drowning in water transport accident	8
E838	Other and unspecified water transport accident	3
E840	Accident to powered aircraft at takeoff or landing	3
E841	Accident to powered aircraft, other and unspecified	14
E844	Other specified air transport accidents	2
E850	Accidental poisoning by analgesics, antipyretics, antirheumatics	20
E851	Accidental poisoning by barbituates	1
E854	Accidental poisoning by other psychotropic agents	2
E855	Accidental poisoning by other drugs acting on central and autonomic nervous systems	10
E856	Accidental poisoning by antibiotics	3
E858	Accidental poisoning by other drugs	59
E860	Accidental poisoning by alcohol, not elsewhere classified	2
E861	Accidental poisoning by cleaning and polishing agents, disinfectants, paints and varnishes	1
E862	Accidental poisoning by petroleum products, other solvents and their vapours, not elsewhere classified	2
E866	Accidental poisoning by other and unspecified solid and liquid substances	4

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

Table 4.16 (continued)
Number of Deaths by Cause
 Michigan Residents, 1994

ICD List Number	Cause of Death	Number
E867	Accidental poisoning by gas distributed by pipeline	2
E868	Accidental poisoning by other utility gas and other carbon monoxide	17
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	2
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	47
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	22
E880	Fall on or from stairs or steps	48
E881	Fall on or from ladders or scaffolding	8
E882	Fall from or out of building or other structure	8
E884	Fall into hole or other opening in surface	33
E885	Fall on same level from slipping, tripping or stumbling	25
E887	Fracture, cause unspecified	155
E888	Other and unspecified fall	198
E890	Conflagration in private dwelling	154
E891	Conflagration in other and unspecified building or structure	7
E892	Conflagration not in building or structure	2
E898	Accident caused by other specified fire and flames	2
E899	Accident caused by unspecified fire	9
E900	Excessive heat	11
E901	Excessive cold	32
E904	Hunger, thirst, exposure, neglect	12
E905	Venomous animals and plants as the cause of poisoning and toxic reactions	2
E906	Other injury caused by animals	1
E907	Lightning	2
E910	Accidental drowning and submersion	98
E911	Inhalation and ingestion of food causing obstruction of respiratory tract or suffocation	28
E912	Inhalation and ingestion of other object causing obstruction of respiratory tract or suffocation	51
E913	Accidental mechanical suffocation	49
E916	Struck accidentally by falling object	28
E917	Striking against or struck accidentally by objects or persons	3
E918	Caught accidentally in or between objects	5
E919	Accidents caused by machinery	20
E920	Accidents caused by cutting and piercing instruments or objects	3
E921	Accidents caused by explosion of pressure vessel	1
E922	Accident caused by firearm missile	29
E923	Accident caused by explosive material	2
E924	Accident caused by hot substance or object, caustic or corrosive material and steam	1
E925	Accident caused by electric current	22
E926	Exposure to radiation	1
E928	Other and unspecified environmental and accidental causes	116
E929	Late effects of accidental injury	41
E935	Analgesics, antipyretics and antiheumatics	1
E939	Psychotropic agents	1
E947	Other and unspecified drugs and medicaments [medicinal substances]	9
E950	Suicide and self-inflicted poisoning by solid or liquid substance	103
E951	Suicide and self-inflicted poisoning by gases in domestic use	1

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

Table 4.16 (continued)
Number of Deaths by Cause
 Michigan Residents, 1994

ICD List Number	Cause of Death	Number
E952	Suicide and self-inflicted poisoning by other gases and vapors	90
E953	Suicide and self-inflicted injury by hanging, strangulation and suffocation	182
E954	Suicide and self-inflicted injury by submersion [drowning]	8
E955	Suicide and self-inflicted injury by firearms and explosives	594
E956	Suicide and self-inflicted injury by cutting and piercing instrument	12
E957	Suicide and self-inflicted injuries by jumping from high place	10
E958	Suicide and self-inflicted injury by other and unspecified means	22
E960	Fight, brawl, rape	2
E962	Assault by poisoning	3
E963	Assault by hanging and strangulation	40
E964	Assault by submersion [drowning]	1
E965	Assault by firearms and explosives	732
E966	Assault by cutting and piercing instrument	118
E967	Child battering and other maltreatment	13
E968	Assault by other and unspecified means	104
E969	Late effects of injury purposely inflicted by other persons	2
E970	Injury due to legal intervention by firearms	8
E980	Poisoning by solid or liquid substances, undetermined whether accidentally or purposely inflicted	88
E981	Poisoning by gases in domestic use, undetermined whether accidentally or purposely inflicted	1
E982	Poisoning by other gases, undetermined whether accidentally or purposely inflicted	1
E983	Hanging, strangulation or suffocation, undetermined whether accidentally or purposely inflicted	2
E984	Submersion [drowning], undetermined whether accidentally or purposely inflicted	10
E985	Injury by firearms and explosives, undetermined whether accidentally or purposely inflicted	20
E987	Falling from high place, undetermined whether accidentally or purposely inflicted	2
E988	Injury by other and unspecified means, undetermined whether accidentally or purposely inflicted	14
E989	Late effects of injury, undetermined whether accidentally or purposely inflicted	3
E999	Late effects of injury due to war operations	1

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

Table 4.17
Population Changes by County
Michigan, 1982 and 1992

Area	Population Estimate July 1, 1982	Population Estimate July 1, 1992	Net Change	Percent Change	Natural Increase	Estimated Net Migration
Michigan	9,118,373	9,433,666	315,292	3.5	631,143	-315,851
Alcona	9,798	10,254	456	4.7	-348	804
Alger	9,091	9,349	258	2.8	-12	270
Allegan	82,846	93,078	10,232	12.4	7,375	2,857
Alpena	31,934	31,000	-934	-2.9	999	-1,933
Antrim	16,520	18,897	2,377	14.4	428	1,949
Arenac	15,004	15,625	621	4.1	480	141
Baraga	8,413	7,828	-585	-7.0	50	-635
Barry	46,039	51,196	5,157	11.2	3,181	1,976
Bay	118,101	112,131	-5,970	-5.1	6,633	-12,603
Benzie	11,047	12,616	1,569	14.2	346	1,223
Berrien	165,498	161,466	-4,032	-2.4	9,714	-13,746
Branch	39,178	41,871	2,693	6.9	2,343	350
Calhoun	139,377	138,381	-996	-0.7	7,214	-8,210
Cass	48,548	49,112	564	1.2	1,792	-1,228
Charlevoix	19,713	22,225	2,512	12.7	1,235	1,277
Cheboygan	20,810	21,780	970	4.7	638	332
Chippewa	29,096	35,640	6,544	22.5	1,005	5,539
Clare	24,185	26,384	2,199	9.1	676	1,523
Clinton	55,268	59,397	4,129	7.5	4,792	-663
Crawford	9,635	12,972	3,337	34.6	633	2,704
Delta	39,509	38,208	-1,301	-3.3	1,489	-2,790
Dickinson	25,319	27,014	1,695	6.7	444	1,251
Eaton	88,098	95,253	7,155	8.1	6,009	1,146
Emmet	23,243	26,057	2,814	12.1	1,329	1,485
Genesee	440,354	433,508	-6,846	-1.6	34,960	-41,806
Gladwin	20,439	23,007	2,568	12.6	654	1,914
Gogebic	19,561	17,891	-1,670	-8.5	-739	-931
Grand Traverse	56,224	67,290	11,066	19.7	4,623	6,443
Gratiot	39,434	39,450	16	0.0	1,703	-1,687
Hillsdale	41,493	44,407	2,914	7.0	2,501	413
Houghton	37,869	35,831	-2,038	-5.4	444	-2,482
Huron	36,256	34,977	-1,279	-3.5	1,162	-2,441
Ingham	271,472	281,798	10,326	3.8	27,256	-16,930
Ionia	51,911	57,986	6,075	11.7	4,512	1,563
Iosco	28,968	30,211	1,243	4.3	2,672	-1,429
Iron	13,598	13,136	-462	-3.4	-657	195
Isabella	53,474	56,212	2,738	5.1	3,821	-1,083
Jackson	148,506	151,740	3,234	2.2	8,612	-5,378
Kalamazoo	214,042	225,648	11,606	5.4	17,202	-5,596
Kalkaska	11,178	14,038	2,860	25.6	979	1,881

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

Table 4.17 (continued)
Population Changes by County
 Michigan, 1982 and 1992

Area	Population Estimate July 1, 1982	Population Estimate July 1, 1992	Net Change	Percent Change	Natural Increase	Estimated Net Migration
Kent	451,847	511,997	60,150	13.3	53,635	6,515
Keweenaw	2,016	1,706	-310	-15.4	-152	-158
Lake	8,149	9,029	880	10.8	-165	1,045
Lapeer	69,535	78,526	8,991	12.9	5,661	3,330
Leelanau	14,363	17,292	2,929	20.4	780	2,149
Lenawee	88,538	94,132	5,594	6.3	5,558	36
Livingston	100,247	122,658	22,411	22.4	8,467	13,944
Luce	6,162	5,604	-558	-9.1	57	-615
Mackinac	10,166	10,752	586	5.8	177	409
Macomb	687,901	728,220	40,319	5.9	41,568	-1,249
Manistee	22,420	21,925	-495	-2.2	-76	-419
Marquette	72,845	71,428	-1,417	-1.9	5,645	-7,062
Mason	26,489	26,420	-69	-0.3	680	-749
Mecosta	36,888	38,553	1,665	4.5	1,762	-97
Menominee	26,004	24,593	-1,411	-5.4	577	-1,988
Midland	73,957	77,950	3,993	5.4	6,539	-2,546
Missaukee	10,388	12,739	2,351	22.6	732	1,619
Monroe	132,011	135,962	3,951	3.0	8,537	-4,586
Montcalm	48,555	55,445	6,890	14.2	3,581	3,309
Montmorency	7,427	9,355	1,928	26.0	-301	2,229
Muskegon	155,444	161,980	6,536	4.2	11,891	-5,355
Newaygo	35,690	40,756	5,066	14.2	2,841	2,225
Oakland	1,000,033	1,118,611	118,578	11.9	74,877	43,701
Oceana	21,931	22,954	1,023	4.7	1,582	-559
Ogemaw	16,836	19,640	2,804	16.7	370	2,434
Ontonagon	10,183	8,761	-1,422	-14.0	-123	-1,299
Osceola	19,560	20,638	1,078	5.5	1,110	-32
Oscoda	7,007	8,222	1,215	17.3	67	1,148
Otsego	15,167	19,096	3,929	25.9	1,088	2,841
Ottawa	159,978	197,297	37,319	23.3	18,991	18,328
Presque Isle	13,989	13,865	-124	-0.9	75	-199
Roscommon	17,397	20,861	3,464	19.9	-367	3,831
Saginaw	223,166	212,477	-10,689	-4.8	16,575	-27,264
St. Clair	137,720	150,085	12,365	9.0	8,192	4,173
St. Joseph	57,096	59,388	2,292	4.0	3,825	-1,533
Sanilac	39,993	40,810	817	2.0	1,546	-729
Schoolcraft	8,516	8,478	-38	-0.4	26	-64
Shiawassee	69,608	70,832	1,224	1.8	4,816	-3,592
Tuscola	55,817	56,130	313	0.6	3,293	-2,980
Van Buren	66,511	72,331	5,820	8.8	4,354	1,466
Washtenaw	260,799	288,025	27,226	10.4	24,846	2,380
Wayne	2,243,320	2,096,179	-147,141	-6.6	138,432	-285,573
Wexford	25,654	27,099	1,445	5.6	1,493	-48

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

Table 4.18
Population by Age, Race and Sex
Michigan Residents, 1992

Age in Years	All Races			White			Black			All Other		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
<1	138,684	70,764	67,920	105,312	53,761	51,551	30,120	15,305	14,815	3,252	1,698	1,554
1-4	575,565	294,137	281,428	460,483	235,965	224,518	101,307	51,142	50,165	13,775	7,030	6,745
5-9	694,130	355,548	338,582	567,974	291,891	276,083	109,598	55,321	54,277	16,558	8,336	8,222
10-14	695,735	356,001	339,734	560,531	287,919	272,612	118,836	59,893	58,943	16,368	8,189	8,179
15-19	662,245	337,261	324,984	518,321	265,345	252,976	126,667	63,063	63,604	17,257	8,853	8,404
20-24	712,213	353,561	358,652	582,654	291,992	290,662	112,751	52,899	59,852	16,808	8,670	8,138
25-29	717,175	353,631	363,544	600,913	300,237	300,676	99,962	45,218	54,744	16,300	8,176	8,124
30-34	800,239	392,383	407,856	673,567	334,964	338,603	110,987	49,513	61,474	15,685	7,906	7,779
35-39	782,349	385,156	397,193	658,963	329,853	329,110	108,580	48,287	60,293	14,806	7,016	7,790
40-44	702,933	345,923	357,010	596,757	297,755	299,002	92,463	42,017	50,446	13,713	6,151	7,562
45-49	572,864	281,962	290,902	495,633	246,017	249,616	66,943	30,915	36,028	10,288	5,030	5,258
50-54	452,002	220,284	231,718	394,144	193,989	200,155	50,413	22,450	27,963	7,445	3,845	3,600
55-59	387,635	186,092	201,543	336,645	163,513	173,132	46,073	20,198	25,875	4,917	2,381	2,536
60-64	389,197	185,304	203,893	340,691	163,878	176,813	44,656	19,740	24,916	3,850	1,686	2,164
65-69	367,746	167,190	200,556	323,690	147,714	175,976	41,230	18,229	23,001	2,826	1,247	1,579
70-74	301,583	128,178	173,405	269,009	114,712	154,297	30,706	12,734	17,972	1,868	732	1,136
75-79	227,715	90,118	137,597	203,839	80,927	122,912	22,611	8,682	13,929	1,265	509	756
80-84	140,978	49,315	91,663	127,685	44,401	83,284	12,604	4,589	8,015	689	325	364
85+	112,678	31,696	80,982	101,586	28,036	73,550	10,669	3,491	7,178	423	169	254
Total	9,433,666	4,584,504	4,849,162	7,918,397	3,872,869	4,045,528	1,337,176	623,686	713,490	178,093	87,949	90,144

Source: Office of the State Demographer, Michigan Department of Management and Budget. Estimates Branch, Bureau of the Census, U.S. Department of Commerce.

Table 4.19
Abridged Life Table
Michigan Residents, 1994

Age	$nx(1)^1$	$lx(2)^1$	$ndx(3)^1$	$nLx(4)^1$	$Tx(5)^1$	$ex(6)^1$
0-1	0.00854	100,000	854	99,249	7,521,221	75.2
1-5	0.00183	99,146	181	396,129	7,421,972	74.9
5-10	0.00089	98,965	88	494,585	7,025,843	71.0
10-15	0.00138	98,878	136	494,125	6,531,258	66.1
15-20	0.00459	98,742	453	492,655	6,037,133	61.1
20-25	0.00520	98,289	511	490,177	5,544,479	56.4
25-30	0.00515	97,778	503	487,663	5,054,301	51.7
30-35	0.00676	97,275	657	484,815	4,566,638	46.9
35-40	0.00942	96,617	909	480,939	4,081,823	42.2
40-45	0.01317	95,708	1,260	475,585	3,600,884	37.6
45-50	0.01950	94,448	1,841	467,977	3,125,298	33.1
50-55	0.03121	92,607	2,890	456,254	2,657,321	28.7
55-60	0.04438	89,717	3,982	439,174	2,201,067	24.5
60-65	0.06421	85,735	5,505	415,791	1,761,893	20.6
65-70	0.10212	80,231	8,193	381,920	1,346,101	16.8
70-75	0.15962	72,038	11,499	332,579	964,181	13.4
75-80	0.22545	60,539	13,648	269,575	631,602	10.4
80-85	0.34753	46,891	16,296	193,752	362,027	7.7
85+	1.00000	30,595	30,595	168,275	168,275	5.5

¹ Definitions of life table values are contained in the Technical Notes.

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

Table 4.20
Abridged Life Table for Males
Michigan Residents, 1994

Age	$nxq(1)^1$	$lx(2)^1$	$ndx(3)^1$	$nLx(4)^1$	$Tx(5)^1$	$ex(6)^1$
0-1	0.00892	100,000	892	99,223	7,210,394	72.1
1-5	0.00200	99,108	198	395,946	7,111,170	71.8
5-10	0.00109	98,910	107	494,257	6,715,224	67.9
10-15	0.00180	98,803	178	493,687	6,220,967	63.0
15-20	0.00664	98,626	655	491,620	5,727,280	58.1
20-25	0.00805	97,971	788	487,908	5,235,661	53.4
25-30	0.00784	97,183	761	484,045	4,747,753	48.9
30-35	0.00977	96,422	942	479,857	4,263,708	44.2
35-40	0.01309	95,480	1,249	474,424	3,783,851	39.6
40-45	0.01741	94,231	1,640	467,270	3,309,427	35.1
45-50	0.02462	92,591	2,279	457,655	2,842,156	30.7
50-55	0.03924	90,312	3,544	443,225	2,384,502	26.4
55-60	0.05522	86,768	4,791	422,492	1,941,277	22.4
60-65	0.07990	81,978	6,550	394,543	1,518,786	18.5
65-70	0.12908	75,428	9,736	354,218	1,124,242	14.9
70-75	0.20348	65,692	13,367	296,085	770,024	11.7
75-80	0.28188	52,325	14,749	225,301	473,939	9.1
80-85	0.42604	37,576	16,008	147,272	248,638	6.6
85+	1.00000	21,567	21,567	101,365	101,365	4.7

¹ Definitions of life table values are contained in the Technical Notes.

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

Table 4.21
Abridged Life Table for Females
Michigan Residents, 1994

Age	$nxq(1)^1$	$lx(2)^1$	$ndx(3)^1$	$nLx(4)^1$	$Tx(5)^1$	$ex(6)^1$
0-1	0.00805	100,000	805	99,285	7,821,730	78.2
1-5	0.00165	99,195	163	396,355	7,722,445	77.9
5-10	0.00068	99,031	67	494,971	7,326,090	74.0
10-15	0.00093	98,964	92	494,627	6,831,119	69.0
15-20	0.00246	98,872	243	493,783	6,336,492	64.1
20-25	0.00239	98,629	235	492,559	5,842,709	59.2
25-30	0.00253	98,394	249	491,379	5,350,149	54.4
30-35	0.00386	98,146	378	489,849	4,858,770	49.5
35-40	0.00584	97,767	571	487,513	4,368,921	44.7
40-45	0.00904	97,196	878	483,958	3,881,408	39.9
45-50	0.01452	96,318	1,398	478,377	3,397,450	35.3
50-55	0.02352	94,920	2,232	469,389	2,919,073	30.8
55-60	0.03425	92,688	3,174	455,964	2,449,684	26.4
60-65	0.04974	89,513	4,452	437,177	1,993,720	22.3
65-70	0.07908	85,062	6,726	409,618	1,556,543	18.3
70-75	0.12582	78,335	9,856	368,296	1,146,925	14.6
75-80	0.18637	68,480	12,762	311,941	778,629	11.4
80-85	0.30160	55,718	16,804	237,098	466,688	8.4
85+	1.00000	38,914	38,914	229,590	229,590	5.9

¹ Definitions of life table values are contained in the Technical Notes.

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

Table 4.22
Abridged Life Table for Whites
Michigan Residents, 1994

Age	$q_x(1)^1$	$l_x(2)^1$	$nd_x(3)^1$	$nL_x(4)^1$	$T_x(5)^1$	$ex(6)^1$
0-1	0.00636	100,000	636	99,445	7,642,149	76.4
1-5	0.00140	99,364	139	397,109	7,542,704	75.9
5-10	0.00072	99,225	71	495,930	7,145,595	72.0
10-15	0.00125	99,154	124	495,524	6,649,665	67.1
15-20	0.00376	99,030	372	494,273	6,154,141	62.1
20-25	0.00371	98,658	366	492,379	5,659,868	57.4
25-30	0.00386	98,293	379	490,545	5,167,489	52.6
30-35	0.00517	97,914	505	488,381	4,676,945	47.8
35-40	0.00765	97,408	745	485,277	4,188,563	43.0
40-45	0.01003	96,664	969	481,052	3,703,287	38.3
45-50	0.01558	95,695	1,491	475,072	3,222,235	33.7
50-55	0.02683	94,204	2,527	465,159	2,747,164	29.2
55-60	0.04013	91,677	3,678	449,762	2,282,005	24.9
60-65	0.05991	87,999	5,272	427,714	1,832,242	20.8
65-70	0.09663	82,727	7,994	394,937	1,404,529	17.0
70-75	0.15313	74,733	11,444	346,334	1,009,592	13.5
75-80	0.22308	63,290	14,119	282,295	663,258	10.5
80-85	0.34421	49,171	16,925	203,609	380,964	7.7
85+	1.00000	32,246	32,246	177,355	177,355	5.5

¹ Definitions of life table values are contained in the Technical Notes.

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

Table 4.23
Abridged Life Table for White Males
Michigan Residents, 1994

Age	$q_x(1)^1$	$l_x(2)^1$	$nd_x(3)^1$	$nL_x(4)^1$	$T_x(5)^1$	$ex(6)^1$
0-1	0.00664	100,000	664	99,428	7,356,354	73.6
1-5	0.00155	99,336	153	396,973	7,256,926	73.1
5-10	0.00090	99,183	88	495,671	6,859,953	69.2
10-15	0.00169	99,094	167	495,143	6,364,282	64.2
15-20	0.00514	98,928	508	493,447	5,869,140	59.3
20-25	0.00549	98,420	540	490,762	5,375,693	54.6
25-30	0.00575	97,880	562	488,033	4,884,931	49.9
30-35	0.00738	97,318	718	484,896	4,396,898	45.2
35-40	0.01086	96,600	1,049	480,494	3,912,003	40.5
40-45	0.01342	95,551	1,282	474,717	3,431,508	35.9
45-50	0.01964	94,269	1,851	467,091	2,956,792	31.4
50-55	0.03333	92,418	3,079	454,924	2,489,701	26.9
55-60	0.04941	89,338	4,414	436,329	2,034,777	22.8
60-65	0.07430	84,924	6,309	409,932	1,598,448	18.8
65-70	0.12235	78,615	9,618	370,527	1,188,515	15.1
70-75	0.19556	68,997	13,493	312,466	817,989	11.9
75-80	0.27820	55,504	15,441	239,642	505,523	9.1
80-85	0.42352	40,063	16,967	157,330	265,881	6.6
85+	1.00000	23,096	23,096	108,551	108,551	4.7

¹ Definitions of life table values are contained in the Technical Notes.

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

Table 4.24
Abridged Life Table for White Females
Michigan Residents, 1994

Age	$nqx(1)^1$	$lx(2)^1$	$ndx(3)^1$	$nLx(4)^1$	$Tx(5)^1$	$ex(6)^1$
0-1	0.00601	100,000	601	99,469	7,915,293	79.2
1-5	0.00125	99,399	124	397,275	7,815,824	78.6
5-10	0.00053	99,275	52	496,230	7,418,549	74.7
10-15	0.00079	99,223	78	495,954	6,922,319	69.8
15-20	0.00232	99,144	229	495,173	6,426,365	64.8
20-25	0.00193	98,915	190	494,093	5,931,192	60.0
25-30	0.00197	98,725	194	493,162	5,437,098	55.1
30-35	0.00297	98,531	292	491,977	4,943,936	50.2
35-40	0.00442	98,239	433	490,187	4,451,959	45.3
40-45	0.00664	97,806	649	487,551	3,961,772	40.5
45-50	0.01156	97,157	1,123	483,252	3,474,221	35.8
50-55	0.02049	96,034	1,968	475,629	2,990,969	31.1
55-60	0.03125	94,066	2,939	463,454	2,515,340	26.7
60-65	0.04641	91,127	4,228	445,800	2,051,887	22.5
65-70	0.07453	86,898	6,476	419,436	1,606,087	18.5
70-75	0.12029	80,422	9,674	379,300	1,186,651	14.8
75-80	0.18478	70,748	13,073	322,628	807,350	11.4
80-85	0.29824	57,676	17,201	245,922	484,722	8.4
85+	1.00000	40,475	40,475	238,800	238,800	5.9

¹ Definitions of life table values are contained in the Technical Notes.

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

Table 4.25
Abridged Life Table for Blacks
Michigan Residents, 1994

Age	$nqx(1)^1$	$lx(2)^1$	$ndx(3)^1$	$nLx(4)^1$	$Tx(5)^1$	$ex(6)^1$
0-1	0.01644	100,000	1,644	98,539	6,843,148	68.4
1-5	0.00363	98,356	357	392,530	6,744,608	68.6
5-10	0.00178	98,000	174	489,520	6,352,078	64.8
10-15	0.00198	97,826	193	488,776	5,862,559	59.9
15-20	0.00827	97,632	806	486,365	5,373,782	55.0
20-25	0.01292	96,826	1,250	481,098	4,887,417	50.5
25-30	0.01323	95,575	1,264	474,784	4,406,319	46.1
30-35	0.01663	94,312	1,568	467,772	3,931,535	41.7
35-40	0.02053	92,744	1,904	459,276	3,463,764	37.3
40-45	0.03401	90,840	3,089	446,964	3,004,488	33.1
45-50	0.04839	87,751	4,246	428,640	2,557,524	29.1
50-55	0.06587	83,505	5,500	404,098	2,128,884	25.5
55-60	0.07436	78,005	5,800	375,793	1,724,786	22.1
60-65	0.09401	72,205	6,788	344,774	1,348,994	18.7
65-70	0.14140	65,417	9,250	305,052	1,004,220	15.4
70-75	0.21407	56,167	12,024	251,114	699,168	12.4
75-80	0.24610	44,144	10,864	193,688	448,054	10.2
80-85	0.37984	33,280	12,641	134,658	254,366	7.6
85+	1.00000	20,639	20,639	119,708	119,708	5.8

¹ Definitions of life table values are contained in the Technical Notes.

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

Table 4.26
Abridged Life Table for Black Males
 Michigan Residents, 1994

Age	$nx(1)^1$	$lx(2)^1$	$ndx(3)^1$	$nLx(4)^1$	$Tx(5)^1$	$ex(6)^1$
0-1	0.01732	100,000	1,732	98,468	6,359,322	63.6
1-5	0.00398	98,268	391	392,121	6,260,854	63.7
5-10	0.00226	97,877	221	488,778	5,868,733	60.0
10-15	0.00242	97,656	236	487,918	5,379,954	55.1
15-20	0.01348	97,420	1,313	484,219	4,892,036	50.2
20-25	0.02254	96,107	2,166	475,281	4,407,817	45.9
25-30	0.02221	93,941	2,086	464,540	3,932,536	41.9
30-35	0.02613	91,855	2,399	453,388	3,467,996	37.8
35-40	0.02921	89,456	2,613	441,092	3,014,608	33.7
40-45	0.04668	86,843	4,053	424,651	2,573,516	29.6
45-50	0.06460	82,790	5,348	401,201	2,148,864	26.0
50-55	0.09088	77,442	7,038	369,953	1,747,663	22.6
55-60	0.09889	70,405	6,962	334,751	1,377,710	19.6
60-65	0.12093	63,443	7,672	298,661	1,042,959	16.4
65-70	0.17881	55,771	9,972	254,910	744,298	13.3
70-75	0.27077	45,799	12,401	198,104	489,388	10.7
75-80	0.31454	33,398	10,505	140,292	291,284	8.7
80-85	0.45014	22,893	10,305	88,050	150,992	6.6
85+	1.00000	12,588	12,588	62,942	62,942	5.0

¹ Definitions of life table values are contained in the Technical Notes.

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

Table 4.27
Abridged Life Table for Black Females
 Michigan Residents, 1994

Age	$nx(1)^1$	$lx(2)^1$	$ndx(3)^1$	$nLx(4)^1$	$Tx(5)^1$	$ex(6)^1$
0-1	0.01533	100,000	1,533	98,633	7,316,001	73.2
1-5	0.00327	98,467	321	393,033	7,217,369	73.3
5-10	0.00129	98,146	127	490,383	6,824,336	69.5
10-15	0.00153	98,020	150	489,761	6,333,953	64.6
15-20	0.00307	97,870	300	488,658	5,844,192	59.7
20-25	0.00434	97,570	423	486,848	5,355,534	54.9
25-30	0.00574	97,147	558	484,434	4,868,686	50.1
30-35	0.00892	96,590	861	480,950	4,384,252	45.4
35-40	0.01352	95,729	1,294	475,690	3,903,301	40.8
40-45	0.02334	94,435	2,204	467,054	3,427,611	36.3
45-50	0.03428	92,231	3,161	453,634	2,960,558	32.1
50-55	0.04531	89,070	4,035	435,574	2,506,924	28.1
55-60	0.05476	85,035	4,656	413,902	2,071,350	24.4
60-65	0.07212	80,379	5,796	388,155	1,657,448	20.6
65-70	0.11066	74,583	8,253	353,444	1,269,293	17.0
70-75	0.17154	66,330	11,378	303,777	915,848	13.8
75-80	0.20024	54,952	11,003	247,958	612,071	11.1
80-85	0.33602	43,949	14,767	183,188	364,113	8.3
85+	1.00000	29,181	29,181	180,924	180,924	6.2

¹ Definitions of life table values are contained in the Technical Notes

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

Table 4.28
Age-Adjusted Death Rates¹ by Race and Sex
 Michigan² and United States Residents, 1970 - 1994


Place	Year	All Races			White			Black		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
Mich.	1970	717.5	925.9	537.3	685.5	889.4	510.8	1,017.1	1,274.1	787.8
	1971	707.9	922.9	524.0	672.5	881.2	495.7	1,034.2	1,315.0	785.3
	1972	711.1	928.2	526.4	677.2	888.0	499.4	1,017.8	1,302.6	767.1
	1973	694.3	906.3	513.7	658.4	862.6	486.0	1,014.1	1,309.1	757.9
	1974	660.7	865.1	488.0	628.4	824.6	464.2	948.4	1,235.6	698.6
	1975	640.2	840.3	472.4	610.1	800.5	452.0	904.1	1,198.8	649.8
	1976	636.1	838.5	469.1	607.2	801.4	448.5	889.6	1,170.5	650.8
	1977	614.4	814.8	449.4	587.3	781.6	428.8	851.7	1,116.5	628.0
	1978	606.3	797.8	449.8	578.7	765.7	426.8	842.7	1,085.5	640.3
	1979	585.4	775.6	431.4	557.9	742.5	409.7	812.6	1,063.9	604.2
	1980	588.0	773.9	438.7	557.1	735.5	414.9	829.5	1,091.4	615.2
	1981	567.4	752.1	424.5	542.2	718.5	403.0	823.9	1,075.3	619.6
	1982	556.9	739.5	416.8	531.9	705.4	395.6	807.8	1,055.2	607.2
	1983	557.1	735.0	421.2	531.1	698.7	399.3	816.6	1,065.3	615.7
	1984	564.5	736.5	431.3	533.7	694.8	407.2	813.3	1,072.4	605.0
	1985	570.0	747.3	427.6	534.9	701.2	402.8	840.4	1,121.8	612.3
	1986	566.9	734.8	431.0	529.2	685.4	404.0	857.1	1,136.4	632.4
	1987	556.4	713.6	428.4	516.1	658.8	400.9	866.4	1,159.1	632.0
	1988	545.0	698.0	419.1	504.9	647.2	388.6	858.2	1,120.2	647.9
	1989	531.5	675.4	412.0	494.3	634.9	377.3	883.6	1,163.5	659.9
	1990	527.9	681.2	405.4	488.0	628.2	377.1	797.9	1,069.2	585.2
	1991	533.6	686.6	412.0	492.4	631.9	383.3	814.8	1,081.1	603.2
	1992	525.3	677.3	404.4	483.1	623.7	372.4	806.8	1,060.0	608.6
	1993	525.8	671.6	408.1	482.1	614.3	376.6	814.7	1,077.6	607.1
	1994	525.2	669.8	407.9	481.3	611.1	377.0	819.9	1,097.0	601.9
U.S.	1970	714.3	931.6	532.5	679.6	893.4	501.7	1,044.0	1,318.6	814.4
	1971	697.6	913.3	519.1	663.7	876.0	489.1	1,007.8	1,276.1	784.6
	1972	698.0	918.0	516.6	664.0	879.3	487.6	1,009.5	1,296.6	772.8
	1973	687.3	905.9	508.1	654.0	868.5	479.3	993.1	1,272.1	640.9
	1974	659.5	870.9	487.0	629.0	836.1	461.0	940.4	1,215.5	717.1
	1975	630.4	837.2	462.5	602.2	804.3	439.0	890.8	1,163.0	670.6
	1976	618.5	820.9	455.0	591.3	789.3	432.5	870.5	1,138.3	654.5
	1977	602.1	801.3	441.8	575.7	770.6	419.6	849.3	1,112.1	639.6
	1978	595.0	791.4	437.4	569.5	761.1	416.4	831.8	1,093.9	622.7
	1979	577.0	768.6	423.1	551.9	738.4	402.5	840.1	1,090.4	636.1
	1980	585.8	777.2	432.6	559.4	745.3	411.1	842.5	1,112.8	631.1
	1981	568.6	753.8	420.8	544.8	724.8	401.5	807.0	1,068.8	602.7
	1982	554.7	734.2	411.9	532.3	706.8	393.6	782.1	1,035.4	585.9
	1983	552.5	729.4	412.5	529.4	701.6	393.3	787.4	1,037.5	595.3
	1984	548.1	721.6	410.5	525.2	693.6	391.7	783.3	1,035.9	590.1
	1985	548.9	723.0	410.3	524.9	693.3	391.0	793.6	1,053.4	594.8
	1986	544.8	716.2	407.6	520.1	684.9	388.1	796.8	1,061.9	594.1
	1987	539.2	706.8	404.6	513.7	674.2	384.8	796.4	1,063.6	592.4
	1988	539.9	706.1	406.1	512.8	671.3	385.3	809.7	1,083.0	601.0
	1989	528.0	689.3	397.3	499.6	652.2	376.0	805.9	1,082.8	594.3
	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
	1992Pr.	504.5	656.0	380.3	477.5	620.9	359.9	767.5	1,026.9	568.4
	1993Pr.	514.0	---	---	---	---	---	---	---	---
	1994	---	---	---	---	---	---	---	---	---

¹ 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.

² Michigan rates for 1981-1985 have been revised based upon revisions to population estimates; see Technical Notes.

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

Figure 4.2
Michigan Live Birth Certificate

 STATE OF MICHIGAN
DEPARTMENT OF PUBLIC HEALTH 49

LF _____ 121 - _____ STATE FILE NUMBER
CF _____ 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 **6b CERTIFIER'S NAME & TITLE (print or type)**

SIGNATURE **7a REGISTRAR'S SIGNATURE** **7b DATE RECEIVED BY LOCAL REGISTRAR - (Month, Day, Year)**

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 (Check one box and specify)** **8g COUNTY** **8h STATE**

☐ INSIDE CITY OR VILLAGE OF **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)**

☐ TWP. OF _____

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**

SIGNATURE (PARENT OR OTHER INFORMANT) ☐ YES ☐ NO

CONFIDENTIAL INFORMATION FOR PUBLIC HEALTH USE ONLY

11 ANCESTRY - Mexican, Puerto Rican, Cuban, Central or South American, Chicano, other Hispanic, Afro-American, Arab, English, French, Finnish, etc. (Specify below) **12 RACE - American Indian, Black, White, etc. If Asian, give nationality (i.e. Chinese, Filipino, Asian Indian, etc. (Specify below))** **13 EDUCATION (Specify only highest grade completed)** Elementary/Secondary (0-12) College (13 or 14)

11a **12a** **13a**

11b **12b** **13b**

14 EXPECTED SOURCE OF PAYMENT FOR MEDICAL SERVICES (Private insurance, Medicaid, etc.) **15 MOTHER'S MAILING ADDRESS (STREET NUMBER, CITY OR VILLAGE, STATE, ZIP)**

16a MEDICAL RECORD NUMBER - OF MOTHER **16b MEDICAL RECORD NUMBER OF CHILD** **17 DATE LAST NORMAL MENSTRUATION BEGAN (Month, Day, Year)** **18 MONTH OF PREGNANCY PRENATAL CARE BEGAN** **19 TOTAL PRENATAL VISITS**

20 LIVE BIRTHS (Do not include this child) **20a OTHER TERMINATIONS (Spontaneous and induced at any time after conception)** **21a MOTHER TRANSFERRED PRIOR TO DELIVERY (If yes enter name of facility transferred from)** **22 ATTENDANT AT BIRTH**

20a NOW LIVING **20b NOW DEAD** **21b INFANT TRANSFERRED (If yes enter name of facility transferred to)** **23 INFANT ADMITTED TO NICU?** **24 BIRTHWEIGHT (Specify unit)** **25 ESTIMATED WEEK OF GESTATION** **26 APGAR SCORE** **27 PLACE OF BIRTH**

28 MEDICAL RISK FACTORS FOR THIS PREGNANCY (Check all that apply) **31 COMPLICATIONS OF LABOR AND/OR DELIVERY (Check all that apply)** **34 APPARENT CONGENITAL ANOMALIES OF NEWBORN (Check all that apply)**

29 OTHER RISK FACTORS FOR THIS PREGNANCY **32 METHOD OF DELIVERY (Check all that apply)** **35 ABNORMAL CONDITIONS OF THE NEWBORN (Check all that apply)**

30 OBSTETRIC PROCEDURES (Check all that apply) **36 OTHER (Specify)**

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 3 <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 6 <input type="checkbox"/> OTHER (SPECIFY)
	WEEKS					
MOTHER	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 <input type="checkbox"/> OUTSIDE CITY OR VILLAGE OF TWP. OF	
	2d. ZIP CODE					
MOTHER	3. ANCESTRY - Mexican, Puerto Rican, Cuban, Central or South American, Chinese, other Hispanic, Afro-American, Arab, English, French, Finnish, etc. (Specify below)	4. RACE - American Indian, Black, White, etc. If Asian, give nationality i.e. Chinese, Filipino, Asian Indian, etc. (Specify below)	5. EDUCATION (Specify only highest grade completed) Elementary/Secondary (0-12) College (14 or 5+)		6. OCCUPATION AND BUSINESS/INDUSTRY (Worked during last year) Occupation Business/Industry	
	7. AGE (At Time of Delivery)					
FATHER	3a.	4a.	5a.	6a.	7a.	
	3b.	4b.	5b.	6b.	7b.	
MEDICAL AND PREGNANCY HISTORY INFORMATION	8. EXPECTED SOURCE OF PAYMENT FOR MEDICAL SERVICES (Private insurance, Medicaid, etc.)		9. MOTHER TRANSFERRED PRIOR TO DELIVERY? <input type="checkbox"/> YES <input type="checkbox"/> NO. If yes, enter name of facility transferred from:			
	10. PREGNANCY HISTORY (Complete each section)		11. DATE LAST NORMAL MENSTRUATION BEGAN (Month, Day, Year)			
	LIVE BIRTHS 10a. NOW LIVING Number <input type="checkbox"/> 10b. NOW DEAD Number <input type="checkbox"/>		12. PLURALITY - Single, Twin, Triplet, etc. (Specify)		13. IF NOT SINGLE BIRTH - Born First, Second, Third, etc. (Specify)	
	10c. DATE OF LAST LIVE BIRTH (Mo., Year)		10d. DATE OF LAST OTHER TERMINATION (Mo., Year)		14b. 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)		20. PART I: Fetal or maternal condition directly causing fetal death		
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		21. FETUS DIED BEFORE LABOR, DURING LABOR OR DELIVERY, UNKNOWN (Specify)		22. 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
N^o 0187597

TYPE/PRINT IN PERMANENT BLACK INK

NAME OF DECEDENT FOR USE BY PHYSICIAN OR INSTITUTION

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 4c UNDER 1 DAY 5 DATE OF BIRTH (Month, Day, Year) 6 COUNTY OF DEATH

7a LOCATION OF DEATH (Enter place officially pronounced dead in 7a, 7b, 7c.) 7b IF HOSP OR INST. Inpatient, Op./Emer. Room, DOA (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) 10d STREET AND NUMBER
☐ INSIDE CITY OR VILLAGE OF
☐ TWP. OF

10e ZIP CODE 11 BIRTHPLACE (City and State or Foreign Country) 12 MARITAL STATUS - Married, Never Married, Widowed, Divorced (Specify) 13 SURVIVING SPOUSE (If applicable, give full name and date 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, Black, White, Asian, Pacific Islander, etc. (Specify) 17 DECEDENT'S EDUCATION (Specify only highest grade completed)
Elementary/Secondary (0-12) College (1-4 or 5+)

18 FATHER'S NAME (First, Middle, Last) 19 MOTHER'S NAME (First, Middle, Surname before first married)

20a INFORMANT'S NAME (Type/Print) 20b MAILING ADDRESS (Street and Number or Rural Route Number, City or Village, State, ZIP Code)

21 METHOD OF DISPOSITION - Burial, Cremation, Removal, Donation, Other (Specify) 22a PLACE OF DISPOSITION (Name of Cemetery, Crematory, or other place) 22b LOCATION - City or Village, State

23 SIGNATURE OF FUNERAL SERVICE LICENSEE 24 LICENSE NUMBER (of Licensee) 25 NAME AND ADDRESS OF FACILITY

26 PART I Enter the diseases, injuries, or complications that caused the death. Do NOT enter the mode of dying, such as cardiac or respiratory arrest, shock, or heart failure. List only one cause on each line. Approximate interval Between Onset and Death

IMMEDIATE CAUSE (Final disease or condition resulting in death) a DUE TO (OR AS A CONSEQUENCE OF)

Sequentially list conditions, IF ANY, leading to immediate cause. Enter UNDERLYING CAUSE (Disease or injury that initiated events resulting in death) LAST b DUE TO (OR AS A CONSEQUENCE OF)

c DUE TO (OR AS A CONSEQUENCE OF)

d

PART II Other significant conditions contributing to death but not resulting in the underlying cause given in Part I 27a WAS AN AUTOPSY PERFORMED? (Yes or No) 27b WERE AUTOPSY FINDINGS AVAILABLE PRIOR TO COMPLETION OF CAUSE OF DEATH? (Yes or No)

28 ACTUAL PLACE OF DEATH (Home, Nursing Home, Hospital, Ambulance) (Specify) 29 WAS CASE REFERRED TO MEDICAL EXAMINER? (Specify Yes or No) 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 examination and of investigation, in my opinion death occurred at the time, date and place and due to the cause(s) stated. (Signature and Title) 31b DATE SIGNED (Mo., Day, Yr.) 31c CASE NUMBER 31d PRONOUNCED DEAD (Mo., Day, Yr.) 31e TIME OF DEATH

32a NAME AND ADDRESS OF PERSON WHO COMPLETED CAUSE OF DEATH (ITEM 26) (Type or Print) 32b LICENSE NUMBER

33a ACC SUICIDE, HOM. 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 RFD No. City, Village or Twp. State

34a REGISTRAR'S SIGNATURE 34b DATE FILED (Month, Day, Year)

CERTIFYING PHYSICIAN

CERTIFIER

MEDICAL EXAMINER

MEDICAL EXAMINER

B-36
Rev. 1/89

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

except for signature, spaces left
blank must be completed by typewriter
or printed legibly.

By Authority of MCL 333.2813


Marriage License
State of Michigan

DATE OF APPLICATION _____ STATE FILE NO. _____
DATE CERTIFICATE FILED _____ LOCAL FILE NO. **0166087**

To any person legally authorized to solemnize marriage in the State of Michigan,
Marriage must be solemnized In the State of Michigan on or before _____ DATE _____

_____ between _____
and _____

FULL NAME OF MALE (FIRST, MIDDLE, LAST) _____ FULL NAME OF FEMALE (FIRST, MIDDLE, LAST) _____

LAST NAME BEFORE FIRST MARRIED, IF DIFFERENT _____

PRESENT AGE _____ DATE OF BIRTH _____ PRESENT AGE _____ DATE OF BIRTH _____

RESIDENCE NO. _____ STREET _____ RESIDENCE NO. _____ STREET _____

CITY, STATE, AND ZIP CODE _____ CITY, STATE, AND ZIP CODE _____

RESIDENCE COUNTY _____ NUMBER OF TIMES PREVIOUSLY MARRIED _____ RESIDENCE COUNTY _____ NUMBER OF TIMES PREVIOUSLY MARRIED _____

BIRTHPLACE - CITY AND STATE _____ BIRTHPLACE - CITY AND STATE _____

FATHER'S FULL NAME _____ FATHER'S FULL NAME _____

MOTHER'S FULL NAME BEFORE FIRST MARRIED _____ MOTHER'S FULL NAME BEFORE FIRST MARRIED _____

FATHER'S BIRTHPLACE _____ MOTHER'S BIRTHPLACE _____

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,
CITY, VILLAGE, OR TOWNSHIP
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.

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 _____ <small>First, Middle, Last</small>		2. Husband's Birthdate _____ <small>Month, Day, Year</small>	
3. Husband's Residence _____ <small>City, Village or Township County State</small>			
4. Husband's Birthplace _____ <small>State or Foreign Country</small>		5. Number of this Marriage _____ <small>First, Second, etc. (Specify)</small>	
6. Wife's Name _____ <small>First, Middle, Last</small>		7. Wife's Birthdate _____ <small>Month, Day, Year</small>	
8. Wife's Last Name Before First Married _____			
9. Wife's Residence _____ <small>City, Village or Township County State</small>			
10. Wife's Birthplace _____ <small>State or Foreign Country</small>		11. Number of this Marriage _____ <small>First, Second, etc. (Specify)</small>	
12. Place of this Marriage _____ <small>City, Village or Township County State or Foreign Country</small>			
13. Date of this Marriage _____ <small>Month, Day, Year</small>		14. Date Couple Last Resided _____ in Same Household <input type="checkbox"/> Check If Not Separated <small>Month, Day, Year</small> <small>Month, Day, Year</small>	
15. Number of Minor Children in Household at Separation Date (Filing Date if Not Separated)		<input type="checkbox"/> Check If None Number _____	
16. Plaintiff <input type="checkbox"/> Husband <input type="checkbox"/> Wife <input type="checkbox"/> Other		17. Plaintiff's Attorney _____ <small>Name (Type or Print) Bar Number</small>	
18. Attorney's Address _____ <small>Number and Street City State ZIP Code</small>			
19. Judgement of _____ <small>Divorce/Annulment (Specify)</small>		20. Number of Minor Children whose Physical Custody was Awarded to: Husband _____ Wife _____ Joint _____ Other _____ <small>Number Number Number Number</small> <input type="checkbox"/> No Children	
21. Judgement Recorded on _____ <small>Month, Day, Year</small>		22. I certify that this Divorce was granted on _____ <small>Month, Day, Year</small>	
23. Certifying Official _____ <small>Signature Title Date Signed</small>			

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.

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