Approved	1-23-86	•
	Date sk	

MINUTES OF THE <u>HOUSE</u> COMMITTEE ON .	PUBLIC HEALTH AND WELFARE
The meeting was called to order byVice-Chairs	nan Elaine Hassler at Chairperson
	, 1986 in room <u>423-s</u> of the Capitol.
All members were present event:	

All members were present except:

Chairman Littlejohn, Rep. Runnels, Rep. Pottorff, Rep. Wagnon, Rep. Branson, all excused.

Committee staff present:

Emalene Correll, Research Bill Wolff, Research Norman Furse, Revisor Sue Hill, Secretary to Committee Conferees appearing before the committee:

Barbara Sabol, Secretary of Department of Health & Environment

See Visitor's register, (Attachment No. 1.)

Vice Chairman Hassler opened the meeting informing members that Chairman Littlejohn is much improved, and should be back to work next week.

She brought to the attention of members, the minutes of meeting of January 15, 1986, were before them for approval. Rep. Friedeman moved these minutes be approved, motion seconded by Rep. Bryant, motion carried.

Vice Chairman Hassler then introduced Secretary Barbara Sabol.

Before beginning her remarks, Secy. Sabol introduced heads of Departments within the Health & Environment, i.e., Dr. Lorne Phillips, Director of Bureau of Community Health; Ruby Jones, a Governor's Fellow; Rita Wolf, Director of Division of Policy and Planning; Dr. Azzie Young, Bureau Manager of Bureau of Family Health; Dick Morrissey, Bureau Manager of Adult & Child Care Facilities of Health & Environment.

Secy. Sabol had distributed materials to committee, (See Attachment No. 2. for Annual Report Booklet, Attachment No. 3. for printed testimony and graphs.)

She began her remarks by stating their mission is "To protect and promote the health of Kansans by assuring adequate community health services, personal health services, and a safe environment for them".

Secy Sabol's comments focused on two primary areas. The first, Budget Status and its potential impact on health, and secondly, primary prevention, i.e., what their Department is doing and what they intend to do in the future. She spoke of goals, challenges, how to solve problems that are causing suffering to many Kansans. She cited three main goals. To provide access to information with respect to health, illness, disability, improving personal health, to provide services to Kansans to detect, control, help to prevent illness and disability. Further, to promote essential personal health services with adequate personnel and facilities with quality service and reasonable costs, and to protect and promote natural and occupational environments conducive to better health and preservation of natural resources.

She spoke at length of the care necessary to try and prevent increased numbers of low-birth-weight babies, and the drastic increases in costs of the neo-natal care of these babies. If there is proper pre-natal care of these at-risk mothers, and proper preventive measures are taken, these costs can be drastically reduced, and it is a small investment to make in order that lives, human suffering, and many dollars can be saved.

CONTINUATION SHEET

MINUTES OF T	HE HOUSE	COMMITTEE ON .	PUBLIC HEALTH AND	WELFARE ,
room <u>423-S</u> , S	Statehouse, at <u>1:30</u>	/d.m./p.m. on	January 16,	, 19_86

Further, she stated there will also be savings realized by the deletion of T. B. clinics around the state since that type of screening can be done in other Health Clinic facilities. There will be no deletion of service, just the deletion of the physical offices and some staff. This is just one example of savings that are to be implemented, thus allowing other programs to be better funded without increasing budgets.

Secy Sabol then distributed to committee hand-outs in regard to two bill requests. (Attachment No. 4-A, a summary of the proposed amendment of Parentage Act, and (Attachment No. 4-B), a Bill brief.

(Attachment No. 5-A), a summary of proposed legislation for reporting conditions in children who are at risk for, or diagnosed as having mental illness, mental retardation, a handicap or chronic disease, and (Attachment No. 5-B), a Bill brief of this request.

Closing her remarks after explaining these bills, Secy. Sabol respectfully requested this committee introduce these bills.

Vice Chairman Hassler asked pleasure of committee in this regard. Rep. Foster moved the bills both be introduced and referred back to committee, motion seconded by Rep. Cribbs, no discussion, motion carried.

Vice Chairman announced an amended Agenda for next week was available, and noted some future items committee will be working on, then adjourned the meeting at 2:15 p.m. Next meeting is scheduled for January 22, 1986.

GUEST REGISTER

DATE /-/63

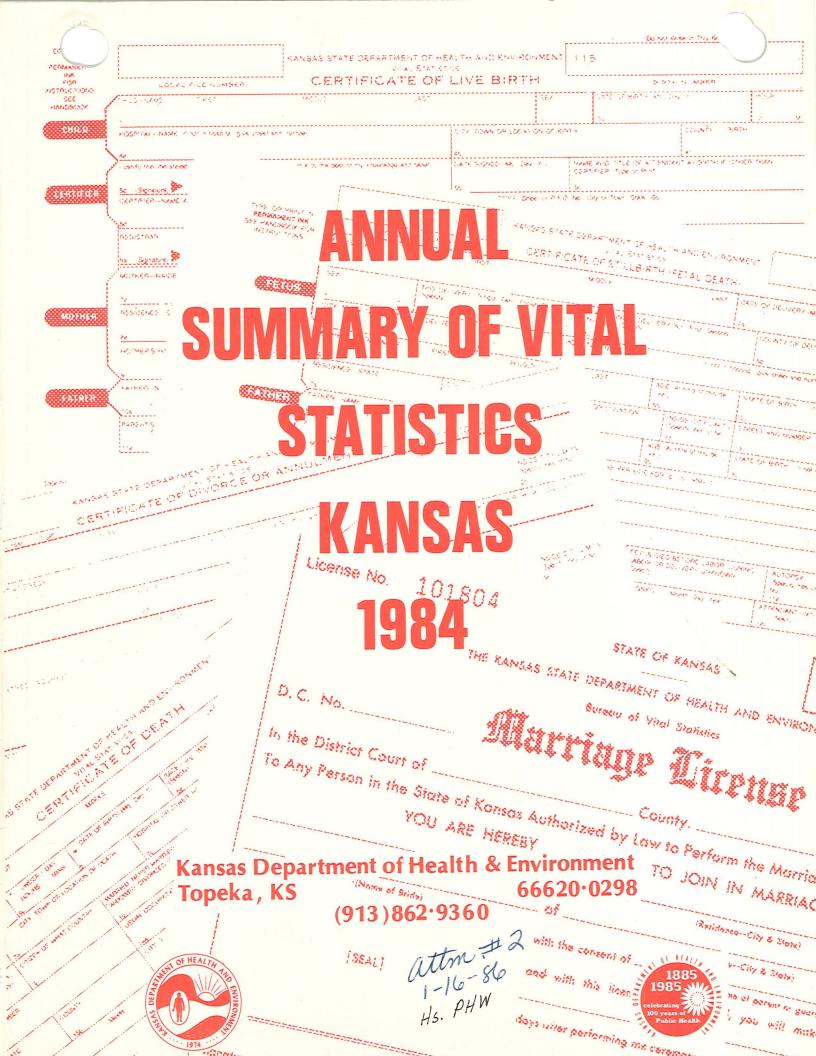
HOUSE

PUBLIC HEALTH AND WELFARE

date -1-16-86

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Attachment # 1 1-16-86 Hs. PHW



ANNUAL SUMMARY OF VITAL STATISTICS KANSAS, 1984

John Carlin, Governor

Barbara J. Sabol Secretary of Health and Environment



Prepared by
Division of Policy and Planning
Office of Information Systems and Computing
in cooperation with
Division of Health
Office of Vital Statistics
October, 1985

TABLE OF CONTENTS

Highlights	1
Introduction	3
Definitions	7
Summary of Vital Events	13
Population	19
Live Births	25
Birth-Related Mortality	35
General Mortality	47
Marriages	73
Divorces and Annulments	79
Appendix	8 <i>5</i>
Index of Tables and Figures	21

LIST OF TABLES

Table Number		Page Number
	Title	
1.	Vital Events and Percent Change, Kansas, 1984, 1983	
2.	and 1974	. 14
۷.	1974-1984	. 16
3.	Population, Natural Increase and Net Migration, Kansas, 1955-1984	. 22
4.	Live Births by Age Group of Mother by Selected	
5.	Characteristics, Kansas, 1984	
6.	1954-1984	. 42
0.	Kansas, 1984	. 45
7.	Deaths by Race and Sex, by Age Group and Average Age at Death, Kansas, 1984	. 52
8.	Selected Causes of Death by Age Group and Average Age at Death, Kansas, 1984	
9.	Ten Leading Causes of Death by Sex, by Number, Rate	
10.	and Average Age at Death, Kansas, 1984	. 55
	Kansas, 1984	. 56
11.	Selected Leading Causes of Death by Number and Rate, Kansas and the United States, 1984	. 57
12.	Heart Disease Deaths by Age Group and Sex, Kansas, 1984	
13.	Malignant Neoplasm Deaths by Site of Lesion, Age	
14.	Group and Sex, Kansas, 1984	. 62
	Kansas, 1984	. 64
15.	Selected Chronic Disease Deaths by Age Group and Sex, Kansas, 1984	. 65
16.	Accidental Deaths by Age Group and Sex, Kansas, 1984	. 66
17.	Ten Leading Causes of Death, Underlying Cause by Non-underlying Cause, Kansas, 1984	
18.	Occupation of Decedent by Selected Causes	
19.	of Death, Kansas, 1984 Type of Industry by Selected Causes of	
	Death, Kansas, 1984	. 72
20.	Marriages by Age Group of Groom, by Age Group of Bride, Kansas, 1984	
21.	Marriages by Premarital Status of Bride and Groom,	
	Kansas, 1984	. /0

List of Tables (cont.)

Table Number		Page Number
22.	Divorces and Annulments by Duration of Marriage in	
00	Years, Kansas, 1984	. 83
23.	Divorces and Annulments by Number and Percent by	0.1
24.	Number of Minor Children, Kansas, 1984 Vital Statistics by Health Service Area, Kansas,	. 84
- , •	1984	. 88
25.	Selected Causes of Death by Health Service Area,	
	Kansas, 1984	. 89
26.	Kansas, 1984	. 90
27.	Live Births by Number and Rate by County of Residence,	
28.	Kansas, 1980-1984	, 92
28.	Live Births by Age Group of Mother by County of	04
29.	Residence of Mother, Kansas, 1984 Out-of-Wedlock Births by Age Group of Mother by County	94
~~*	of Residence of Mother, Kansas, 1984	96
30.	Reported Induced Abortions by Age Group of Patient by	, , , ,
	County of Residence, Kansas, 1984	98
31.	Perinatal Period III Deaths by County of Residence,	
22	Kansas, 1984	100
32.	Infant Deaths by Component by County of Residence,	
33.	Kansas, 1984	103
JJ•	Deaths by Number and Rate by County of Residence, Kansas, 1980-1984	105
34.	Deaths by Age Group and Average Age at Death by	100
	County of Residence, Kansas, 1984	107
<i>35.</i>	Twenty Leading Causes of Death by County of Residence,	
	Kansas, 1984	110
36.	Marriages by Number and Rate by County of Marriage,	
27	Kansas, 1980-1984	114
37.	Divorces and Annulments by Number and Rate by County	
38.	of Action, Kansas, 1980-1984 Population, Live Births and Total Deaths by City	116
JU•	of Residence, Kansas, 1983 and 1984	118
	or represented remote the true true true true true true true tru	110

LIST OF FIGURES

Figure Number		Page Number
1.	Kansas Vital Statistics for 1984	. 4
2.	Selected Vital Event Rates, Kansas, 1974-1984	. 17
3.	Population Growth in Kansas, Selected Years, 1860-1984	
4.	Population Density by County, Kansas, 1984	24
5.	Birth Rates, Kansas and the United States, 1964-1984	. 26
6.	Fertility Rates, Kansas and the United States, 1964-1984	. 28
7.	Live Births: Percent Distribution by Age Group of Mother, Kansas, 1974, 1979 and 1984	
8.	Out-of-Wedlock Birth Ratios, Kansas and the United States, 1964-1984	
9.	Reported Induced Abortions by Selected Characteristics, Kansas, 1984	
10.	Fetal Deaths by Selected Characteristics, Kansas,	
11.	Perinatal Period III Mortality, Kansas, 1954-1984	41
12.	Infant Deaths by Component, Kansas, Selected Years, 1954-1984	44
13.	Maternal Mortality Rates, Kansas and the United States, 1954-1984	46
14.	Death Rates, Kansas and the United States, 1944-1984	48
15.	Death Rates by County of Residence, Kansas, 1984	50
16.	Average Age at Death by County of Residence, Kansas,	51
17.	Death Rates for Leading Causes of Death, Kansas, 1944-1984	58
18.	Leading Causes of Death by Age Group, Kansas, 1984	60
19.	Suicide and Homicide: Percent Distribution by	
274	Age Group and Sex. Kansas, 1984 ·····	68
20.	Marriage and Divorce Rates, Kansas, 1927-1984	74
21.	Marriages: Percent Distribution by Age Group, Kansas, 1984	76
22.	Divorces: Percent Distribution by Age Group, Kansas, 1984	80
23.	Annulments: Percent Distribution by Age Group,	82
24	Health Service Areas, Kansas ······	87

HIGHLIGHTS

Live Births

The Kansas live birth rate in 1984 of 16.3 represented a 1.8 percent decrease from the 1983 rate of 16.6. (p. 27)

Kansas birth rates and fertility rates have followed a pattern similar to national birth and fertility rates during the past twenty years. (Figure 5, p. 26 and Figure 6, p. 28)

Of the 39,954 births in 1984, only 175 (0.4 percent) occurred outside the hospital setting. (p. 29)

In 1984 there were 5,501 out-of-wedlock births to Kansas residents. These out-of-wedlock births represented 13.8 percent of all live births in 1984. (Table 4, p. 32 and Figure 8, p. 33)

Birth-Related Mortality

Neonatal deaths totaled 251 in 1984, an increase of 5.9 percent from the 237 recorded in 1983. (Table 1, p. 14)

In 1984 the number of abortions reported in Kansas decreased 0.9 percent, from 9,844 in 1983 to 9,754 in 1984. (p. 37)

There has been a general downward trend in the number of perinatal deaths since 1955. The number of deaths decreased from 1,604 in 1955 to 477 in 1984. (Figure 11, p. 41 and Table 5, p. 42)

In 1984 the Kansas infant death rate declined to 9.8 per thousand live births, the lowest rate on record. The Kansas rate was 7.5 percent lower than the estimated United States rate of 10.6. (p. 43)

Congenital anomalies was the most common cause of infant death in Kansas in 1984 and accounted for 27.3 percent of all infant deaths. (Table 6, p. 45)

General Mortality

The Kansas death rate increased 1.1 percent in 1984, from 9.0 per thousand population in 1983 to 9.1 in 1984. (Figure 14, p. 48)

The average age at death of Kansas residents in 1984 was 71.8 years. The average age of males in 1984 was 68.4 at the time of death; that of females was 75.5. (Table 7, p. 52)

Highlights (cont.)

Heart disease, cancer, cerebrovascular disease and accidents were the four leading causes of death among Kansans in 1984 and accounted for 71.3 percent of all deaths. (Figure 18, p. 60)

Heart disease, the number one cause of death in Kansas claimed 8,399 lives in 1984 and constituted 37.9 percent of the total number of deaths. (Figure 18, p. 60)

The cancer death rate in Kansas was 184.5 in 1984, 4.0 percent lower than the estimated national rate of 192.1. (p. 53)

The Kansas suicide rate was 12.3 in 1984, 4.2 percent higher than the estimated 1984 national rate of 11.8. (p. 63)

The Kansas homicide and legal intervention rate was 3.8 per hundred thousand population in 1984, 54.2 percent lower than the estimated national rate of 8.3. (p. 69)

In 1984, only 322 deaths were attributed to atherosclerosis; yet 1,194 of the ten leading underlying causes listed atherosclerosis as a contributing factor. (Table 17, p. 70)

Marriages

The 24,737 marriages performed in Kansas in 1984 represented a 4.4 percent decrease from the 25,877 performed in 1983. The marriage rate was 10.1, a 5.6 percent decrease from the 1983 rate of 10.7 per 1,000 population. (p. 75, and Figure 20, p. 74)

More wedding ceremonies were performed in June than any other month in 1984, with August and May being the second and third most popular months. (p. 78)

Divorces and Annulments

The number of divorces and annulments granted in Kansas increased 5.7 percent from the 12,207 in 1983 to 12,905 in 1984. The divorce and annulment rate was 5.3, a 6.0 percent increase over the 1983 rate of 5.0 per 1,000 population. (Figure 20, p. 74)

Marriages ending in divorce lasted an average of 7.9 years, while those receiving annulments lasted an average of 1.6 years. (p. 83)

INTRODUCTION

KANSAS VITAL STATISTICS FOR 1984

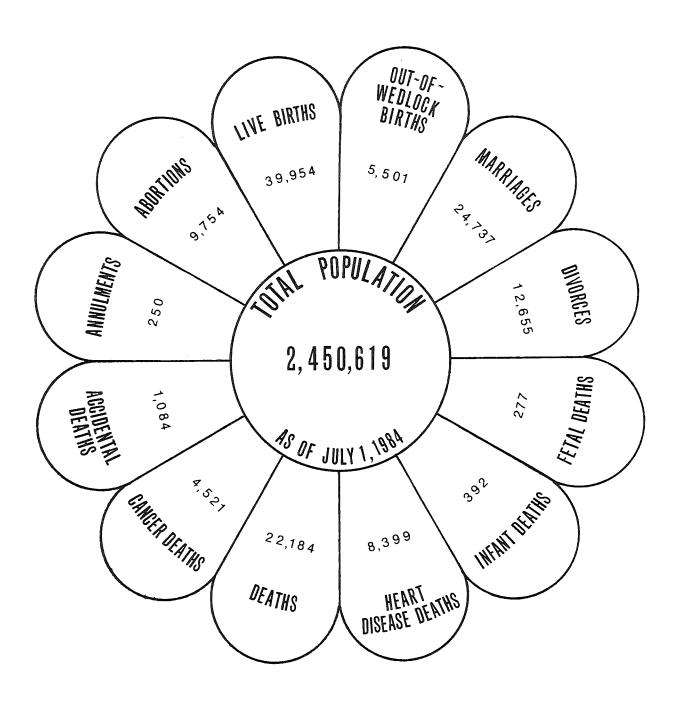


Figure 1

Marriages, divorces, annulments and abortions are displayed above as occurrence data and all other vital statistics represent residence data.

INTRODUCTION

The Kansas Department of Health and Environment presents the 1984 edition of the Annual Summary of Vital Statistics. This report is a summary of data compiled from vital and health records for the 1984 calendar year and these data are displayed in Figure 1. The contents include information on population, abortion, and such vital events as live births, fetal deaths, deaths, marriages, divorces and annulments.

Registration

The statewide registration of marriage, birth and death records was initially established as a statutory duty of the Kansas State Board of Health (now the Kansas Department of Health and Environment) in 1885. At that time, law K.S.A. 65-102 specifically provided that, "the state board of health shall supervise the registration of marriages, births and deaths, and also the registration of forms of disease prevalent in the state; and the secretary of said board shall superintend the registration of the vital statistics of the state." In 1911, systematic filing of the birth and death records at the State level was begun. Registration requirements for marriages and divorces were initiated in 1913 and 1951, respectively. Since registration of vital events began seventy-four years ago, over six million records have been processed, filed and indexed.

Technical Notes

The information presented in this report includes statistics compiled from records received during 1984 and any delayed 1984 events registered through March 15, 1985. Certificates submitted after that time are considered to be negligible for purposes of annual statistical compilations. Therefore, no adjustments have been made for under-registration.

The data contained in this annual summary are primarily residence data and refer to events happening to Kansas residents (classified by county of usual residence) regardless of where the event occurred. Mother's usual residence is utilized with reference to births and fetal deaths (stillbirths). In most instances, abortion information refers to Kansas resident abortions; however occurrence data are occasionally referenced. Marriages, divorces and annulments are occurrence data, for residents and nonresidents, in that marriages are recorded by county of marriage and divorces and annulments by county of decree. In many cases annulments have been grouped with divorces for purposes of presentation in this report.

The 1979 and 1981 through 1984 State, county and city population estimates utilized throughout the report were prepared by the Kansas Department of Health and Environment (KDHE) and were computed by using U.S. Bureau of the Census figures as a base and extrapolating by the method of least squares regression. The 1980 population figures were obtained from the U.S. Bureau of the Census. Population figures prior to 1979 were obtained from the U.S. Bureau of the Census during census years and from compilations prepared by the State Board of Agriculture from reports by county appraisers during noncensus years.

The KDHE estimates were used beginning in 1979 because (1) the Agricultural Census had been terminated by the Legislature and (2) students, military personnel, inmates of institutions and migrant workers are assigned to their last prior legal residence by the Agricultural Census and to their current place of abode by the U.S. Census. Health care needs for military, migrant workers, students, etc. can best be addressed by using their current residence rather than their permanent residence.

In many cases rates and ratios are based upon a small number of events and/or a small population or upon a different population base. Therefore, care should be exercised in the interpretation of these data as they may not be indicative of actual trends.

Comments and suggestions concerning the contents or general format of this report are welcome and should be directed to the Kansas Department of Health and Environment. Since this publication is only a summary, many details which are being tabulated for inclusion in the Department's permanent statistical files are not presented. More detailed information may be obtained from KDHE upon request.

DEFINITIONS

The following terms, formulas and symbols are defined for more meaningful interpretation of the data contained in this report.

TERMS

Abortion: (induced termination of pregnancy)

The deliberate interruption of pregnancy with the intention other than to produce a liveborn infant or to remove a dead fetus and which does not result in a live birth.

Birth Weight:

The weight of the fetus or infant at the time of delivery.

Cause of Death:

The underlying cause of death, or that condition giving rise to the chain of events leading to death.

Fetal Death:

The complete expulsion or extraction of a product of human conception from its mother, that weighs more than 350 grams and is, irrespective of the duration of pregnancy, not a live birth. (Intentionally aborted fetuses that weigh more than 350 grams are not included as fetal deaths in this report.)

Hebdomadal Death:

The death of a liveborn infant which occurs prior to the seventh day of life.

I.C.D. Code:

The disease-identifying number classified in the Ninth Revision of the <u>International Classification</u> of <u>Diseases</u> adopted in 1979.

Infant Death:

The death of a liveborn infant which occurs within the first year of life.

Live Birth:

The complete expulsion or extraction of a product of human conception from its mother, irrespective of the duration of pregnancy, that, after such expulsion or extraction, shows any evidence of life such as breathing, heart beat, pulsation of the umbilical cord, or voluntary muscle movement, whether or not the umbilical cord has been cut or the placenta attached.

Maternal Death: The death of a mother caused by complications of

pregnancy, childbirth or the puerperium.

Natural Increase: Live births minus total deaths of a population within

a given year.

Neonatal Death: The death of a liveborn infant which occurs prior to

the twenty-eighth day of life.

Net Migration: The population increase or decrease minus the

natural increase.

Occurrence Data: Vital statistics compiled on the basis of where the

vital event happened.

Out-of-Wedlock Birth: A birth occurring to a mother who is not married at

the time of birth.

Perinatal Period III Death: The death of a fetus that weighs more than 350

grams or of a liveborn infant during the hebdomadal

period (less than seven days after birth).

Population Density: The average number of inhabitants per square mile.

Premature Birth: Birth of an infant weighing less than 2,500 grams (5)

lbs. 8 oz.) at the time of birth.

Residence Data: Vital statistics compiled on the basis of the usual

place of residence of the person(s) to whom the vital

event occurred.

Total Births: All live births plus fetal deaths.

RATES AND RATIOS

Abortion Ratio: <u>induced abortions</u> X 1,000

live births

Birth Rate: live births X 1,000

total population

Death Rate: total deaths X 1,000

total population

Disease-Specific Death

Rate: disease-specific deaths X 100,000

total population

Divorce Rate:	divorces total population	x	1,000
Divorce and Annulment Rate:	divorces and annulments total population	X	1,000
Fertility Rate:	live births female population 15-44	X	1,000
Fetal Death Rate:	fetal deaths total births	X	1,000
Hebdomadal Death Rate:	hebdomadal deaths live births	X	1,000
Infant Death Rate:	infant deaths live births	X	1,000
Marriage Rate:	marriages total population	X	1,000
Maternal Death Rate:	maternal deaths live births	x	10,000
Natural Increase Rate:	live births minus total deaths total population	X	1,000
Neonatal Death Rate:	neonatal deaths live births	x	1,000
Net Migration Rate:	net migration_ total population	X	1,000
Out-of-Wedlock Birth Ratio:	out-of-wedlock births live births	X	100
Perinatal Period III Death Rate:	perinatal deaths total births	Х	1,000
Premature Birth Ratio:	premature births live births	X	100
Rural-Urban Population Ratio:	rural population urban population		

SYMBOLS AND ABBREVIATIONS

n.s.	not stated
n.a.	not available
n/a	not applicable
-	zero
0.0	quantity or percent more than zero but less than
	0.05.
•••	rate or percent not applicable
*	rate, ratio, or percent does not meet statistical
	standards of precision or reliability (designated
	whenever the denominator is less than 100).

SUMMARY OF VITAL EVENTS

Table 1
Vital Events and Percent Change
Kansas, 1984, 1983 and 1974

Vital Event	1984	1983	Percent Change 1983 to 1984	1974	Percent Change 1974 to 1984
Total Births	40,231	40,661	-1.1	33,158	21.3
Live Births Premature Out-of-wedlock Fetal Deaths	39,954 2,425 5,501 277	40,365 2,455 5,243 296	-1.0 -1.2 4.9 -6.4	32,712 2,108 2,867 446	22.1 15.0 91.9 -37.9
Total Deaths	22,184	21,816	1.7	22,156	0.1
Perinatal Deaths Hebdomadal Deaths Neonatal Deaths Infant Deaths Maternal Deaths	477 200 251 392 4	498 202 237 406 4	-4.2 -1.0 5.9 -3.4	766 320 359 514 6	-37.7 -37.5 -30.1 -23.7
Marriages	24,737	25,877	-4.4	24,491	1.0
Divorces	12,655	11,954	5.9	11,274	12.2
Annulments	250	253	-1.2	210	19.0

Residence data are presented for births and deaths.

Occurrence data are presented for marriages, divorces and annulments.

SUMMARY OF VITAL EVENTS

Registration of Kansas vital events (live births, total deaths, fetal deaths, marriages, divorces and annulments) decreased slightly from 100,561 in 1983 to 100,057 in 1984, a decrease of 0.5 percent. Table 1 compares these vital events of 1984 with those of 1983 and 1974.

The largest percentage changes between 1983 and 1984 were a 6.4 percent decrease in the number of fetal deaths and a 5.9 percent increase in the number of neonatal deaths and divorces. Between 1974 and 1984, the number of out-of-wedlock births has increased 91.9 percent and the number of fetal deaths has decreased 37.9 percent.

Another method of examining trends in vital events is the comparison of rates from year to year. Table 2 examines these rates (rate computations are described on pages 10 and 11) from 1974 to 1984 and the rates are graphically presented in Figure 2.

The total death rate in 1984 (9.1) increased 1.1 percent over the 1983 rate of 9.0. The live birth rate decreased 1.8 percent, from 16.6 in 1983 to 16.3 in 1984. The marriage rate in 1984 decreased 5.6 percent, from 10.7 in 1983 to 10.1 in 1984. The divorce and annulment rate increased 6.0 percent, from 5.0 in 1983 to 5.3 in 1984.

Infant, hebdomadal and neonatal death rates decreased considerably after 1974. In 1984, the infant death rate fell below 10.0 per 1,000 live births for the first time since statewide registration began. The fetal death rate decreased from 7.3 in 1983 to 6.9 in 1984.

The remainder of this report elaborates on each of these vital events, summarizing the data from 1984 vital and health records, depicting trends and comparing Kansas events with those for the United States where appropriate.

Table 2
Vital Events by Number, Rate and Ratio*
Kansas, 1974-1984

Vital Event	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Live Births											
Number	32,712	33,707	35,278	36,827	36,581	38,916	40,686	41,202	lio aca	110 05=	
Rate	14.2	14.6	15.2	15.7	15.5	16.5	17.2	17.2	40,757	40,365	39,954
Out-of-Wedlock Births			15•=	15.1	10.0	10.5	11.2	17.2	10.9	16.6	16.3
Number	2,867	3,205	3,491	3,873	4,183	4,593	4,979	5,086	5,259	5,243	5 504
Ratio	8.8	9.5	9.9	10.5	11.4	11.8	12.2	12.3	12.9	13.0	5,501
Fetal Deaths					'	'''	12.6	12.5	12.9	13.0	13.0
Number	379	341	364	308	331	330	340	316	336	296	277
Rate	11.5	10.0	10.2	8.3	9.0	8.4	8.3	7.6	8.2	7.3	6.9
Hebdomadal Deaths								'."		1.3	0.9
Number	354	304	310	335	254	260	226	264	234	202	200
Rate	10.8	9.0	8.8	9.1	6.9	6.7	5.6	6.4	5.7	5.0	5.0
Perinatal Period III Deaths						·	_			1	1
Number	733	645	674	643	585	590	566	580	570	498	477
Rate	22.2	18.9	18.9	17.3	15.8	15.0	13.8	14.0	13.9	12.3	11.9
Neonatal Deaths					-		,				
Number	393	341	365	373	302	301	269	322	273	237	251
Rate	12.0	10.1	10.3	10.1	8.3	7.7	6.6	7.8	6.7	5.9	6.3
Infant Deaths							1				
Number	514	468	492	480	440	427	412	452	417	406	392
Rate	15.7	13.9	13.9	13.0	12.0	11.0	10.1	11.0	10.2	10.1	9.8
Maternal Deaths		_									
Number	6	- 6	1	4	8	3	4	6	3	4	4
Rate	1.8	1.8	0.3	1.1	2.2	0.8	1.0	1.5	0.7	1.0	1.0
Total Deaths	20.456]			ļ	
Number	22,156	21,726	21,780	21,271	21,566	21,062	21,910	21,579	21,700	21,816	22,184
Rate	9.6	9.4	9.4	9.1	9.1	8.9	9.3	9.0	9.0	9.0	9.1
Marriages	011 1104	00 7/7		6							
Number	24,491	23,767	23,559	23,673	23,975	24,774	24,847	26,137	26,670	25,877	24,737
Rate Divorces and Annulments	10.7	10.3	10.1	10.1	10.2	10.5	10.5	10.9	11.1	10.7	10.1
Number	11 1101	10 561	10 000	10 (00	10.660	40 -100					
	11,484	12,561	12,833	12,629	12,668	12,749	13,410	13,737	12,392	12,207	12,905
Rate	5.0	5.4	5.5	5.4	5.4	5.4	5.7	5.7	⁻ 5.1	5.0	5.3

^{*}Rate and Ratio computations are explained on pages 10 and 11.
Residence data are presented for births and deaths.
Occurrence data are presented for marriages, divorces and annulments.

SELECTED VITAL EVENT RATES KANSAS, 1974-1984

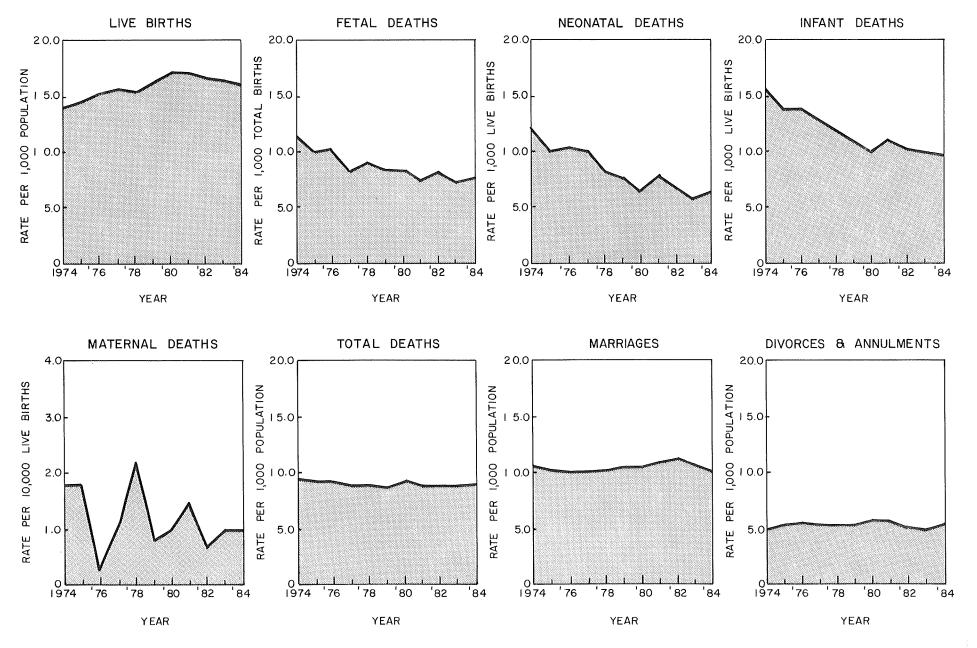
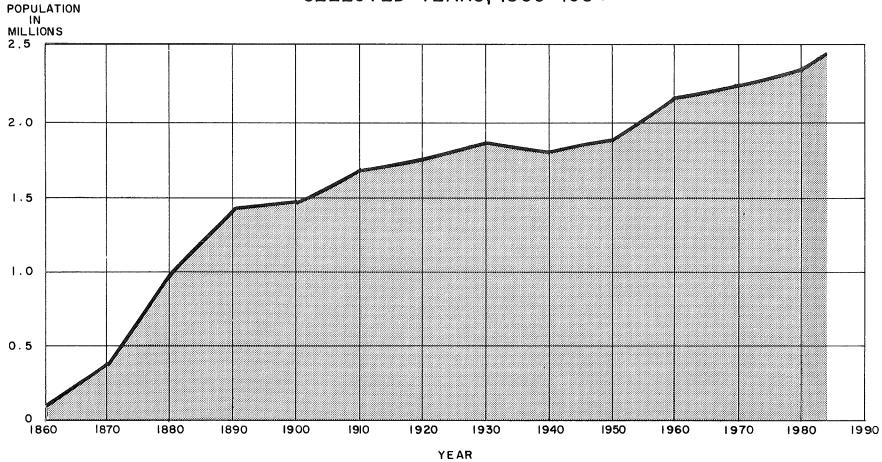


Figure 2

POPULATION GROWTH IN KANSAS SELECTED YEARS, 1860-1984



Sources of Population Counts: Kansas Department of Health and Environment (1981 - 1984)
United States Bureau of the Census (all other years)

Figure 3

POPULATION

In 1984 the population of Kansas was 2,450,619. This figure was estimated by the Kansas Department of Health and Environment and is an increase of 0.9 percent, or 21,374, over that estimated for July 1, 1983.

As depicted in Figure 3, Kansas experienced its greatest population growth during the second half of the nineteenth century. During the thirty-year period The next thirty years from 1860 to 1890 population increased thirteen-fold. demonstrated slower growth, increasing by less than two-fold from 1890 to 1920. The reduction in the birth rate and the increase in out-migration during the Depression Years of the 1930's resulted in a decrease in total population of almost four percent. Population began increasing again with the onset of World War II. The economic prosperity of the Fifties and the ensuing "Baby Boom" were reflected in a population increase of 14.3 percent from 1950 to 1960. Slowed growth was again exhibited during the Sixties when the population increased 3.2 percent, and in the Seventies, with an increase of 5.1 percent. Over the past three years the population has increased 2.6 percent. Population estimates, as well as annual increases or decreases for the past thirty years are shown in Table 3. (County population totals, 1980 to 1984, are given in Appendix Table 26. Population totals for 96 cities, 1983 and 1984, are presented in Appendix Table 38.)

Natural Increase and Net Migration

The combined factors of the natural increase (live births minus total deaths) and net migration (actual population increase or decrease minus the natural increase) determine population growth. The annual natural increase and net migration from 1955 to 1984 are exhibited in Table 3. The highest natural increase during the period was 33,878 in 1955, which represents a natural increase rate of 16.5 per thousand population. After a general downward trend in the years that followed, the natural increase again began rising in 1974 and the 1984 natural increase was 17,770. The natural increase rate decreased 3.9 percent from 7.6 per thousand population in 1983 to 7.3 in 1984. Net migration, on the other hand, has been less predictable, with sudden large fluctuations in out-migration. Considerable out-migration occurred from 1955 to 1964. The net migration for 1984 was not available at the time of publication.

Table 3
Population, Natural Increase and Net Migration
Kansas, 1955-1984

Year	Population*	Population Increase or Decrease During Year	Natural Increase	Net Migration
1984 1983 1982 1981 1980	2,450,619 2,429,245 2,408,781 2,389,202 2,363,208	n.a. 21,374 20,464 19,579 25,994	17,770 18,549 19,057 19,623 18,776	n.a. 2,825 1,407 -44 7,218
1979 1978 1977 1976	2,362,075 2,359,262 2,341,261 2,327,471 2,314,479	1,133 2,813 18,001 13,790 12,992	17,854 15,015 15,556 13,498 11,981	-16,721 -12,202 2,445 292 1,011
1974 1973 1972 1971	2,299,220 2,301,623 2,277,905 2,249,248 2,249,071	15,259 -2,403 23,718 28,657 177	10,556 9,247 10,841 13,824 16,364	4,703 -11,650 12,877 14,833 -16,187
1969 1968 1967 1966 1965	2,287,302 2,265,170 2,236,750 2,220,362 2,197,815	-38,231 22,132 28,420 16,388 22,547	14,350 13,110 13,196 14,192 17,516	-52,581 9,022 15,224 2,196 5,031
1964 1963 1962 1961	2,180,533 2,172,296 2,165,009 2,146,154 2,130,579	17,282 8,237 7,287 18,855 15,575	21,649 23,804 27,001 28,940 29,621	- 4,367 -15,567 -19,714 -10,085 -14,046
1959 1958 1957 1956 1955	2,115,441 2,100,665 2,081,654 2,077,711 2,050,478	15,138 14,776 19,011 3,943 27,233	31,891 31,401 32,706 33,408 33,878	-16,753 -16,625 -13,695 -29,465 -6,645

*Sources: Kansas Department of Health and Environment (1979, 1981-1984)
United States Bureau of the Census (1970, 1980)
Kansas Board of Agriculture/County Appraisers (all other years)

Population Density

The total land area of the State of Kansas is 81,786 square miles. The population density of the State, or the average number of inhabitants per square mile in 1984 was 30.0 as compared with 29.7 in 1983 and 29.5 in 1982.

As illustrated in Figure 4, the population density varied considerably among counties. In 1984, 21 of Kansas' 105 counties had population densities of less than 5.0. These counties were predominantly in the Western portion of the State. The most sparsely populated county was Wallace which had a density of 2.1. Seven counties had population densities of 100 or more persons per square mile. Wyandotte County was the most densely populated in Kansas, with 1,152.3 persons per square mile.

Urban and Rural

The 1980 census defines urban population as those persons living in (1) places of 2,500 or more inhabitants incorporated as cities and towns excluding persons living in rural portions of extended cities (places with low population density in one or more large parts of the area); (2) census designated places of 2,500 or more inhabitants; and (3) other territory, incorporated or unincorporated, included in urbanized areas. An urbanized area is a central city or a central core, and contiguous closely settled territory, that has a combined population of at least 50,000. Rural population is defined as that not classified as urban.

Since 1860, the rural-urban population ratio in Kansas has been consistently higher than that in the United States. The Kansas rural-urban population ratio was 8.5 compared to only a 2.5 ratio for the U.S. in 1880. A century later, the State (0.5) and national (0.4) ratios were similar, decreasing by 94.1 and 84.0 percent, respectively.

With the exception of the decade between 1870 and 1880, the rural population of Kansas decreased proportionally since its recorded high of 90.6 percent in 1860. The numbers of persons living in rural areas of the State decreased 8.2 percent from 1900 to 1940, but showed a much greater decline (24.8 percent) from 1940 to 1980. Furthermore, the rural-urban population ratio decreased 64.3 percent since 1940 to a low of 0.5 in 1980.

POPULATION DENSITY BY COUNTY KANSAS, 1984

CHEYEN	NE R	WLINS	DECATUR	NORTON	PHILLIPS	SMITH	JEWELL	REPUBLIC	WASHINGTO	N MARSH	ALL NEMA	HA BRO	WN DON	IPHAN
3.5	•	3.5	5.0	7.4	8.3	6.5	5.5	10.2	9.0	13.9	///////////////////////////////////////	///22 ///22	0 24	13
SHERMA		101440						CLÓÚĎ///					ATCHISON	J
		HOMAS	SHERIDA	N GRAHAM	ROOKS	OSBORNE	MITCHELL	//////// // 171//	CLAY//RI	LEY ///		ACKSON	41.4	PHORI'S
7.2		1.8	4.1	4.3	7.0	6.4	12.0		16.1	(7777)	VATOMIE 0.5///	18.4	JEFFER // SON /	Piori I
WALLAC	E LOG	ΔΝ	GOVE	70500	V2777777		LINCOLN	OTTAWA		111.5	S		32.4	
				TREGO	ÉLLIS	RUSSELL	5.5	8.3	DICKIN-/GE	EARY W) /ABAUNSEI	292.5	**************************************	<u>(. (</u>)
2.1	3	5.3	3.5	4.4	29.9//	9.3		SALINE		80.5	8.7		DOUGLAS	
	<u></u>						ELLSWORTH	74.1	23.7/	MORRIS -		OSAGE		622.4
REELEY	WICHITA	SCOTT	LANE	NESS	RUSH	BARTON	10.0			9.1	LYON	23.5	FRANKLIN	l
2.5	3,9	8.5	3.4	4.0	5.9	36.6	ŔĺĊĔŹŹŹŹ	McPHERSON /	MARION	CHASE	43.3		39.5	37.2
	l			•	DA14/81E E		//////////////////////////////////////	314//	14.2//	1	43.3	COFFEY	ANDER-	LÍNN
AMILTON	KEARN	FINNE	Y/////	HODGEMAN	PAWNEE					4.2		217.72	SON	
0.7				2.6	10.1	6.8	RENO	HARVE		F5///108	_ REENWOOD	1/////	15.47	14.0
2.7	4.2	19.6	GRAY		EDWARDS	STAFFORD	53.6	59	7 BUTL			WOODSOI	177777	BOURBO
				FORD / / / /		PRATT		SEDGW	IICK ////	45///	7.2	9.1	33.0/	Y 26.3
TANTON	GRANT	HASKE	6 /	22.8	KIOWA	100000000	KINGMAN	373	6			WILSON	NEOSHO	CRAWFO
3.7	13.4	7.1			5.3	15.1	10.8	9.5		E	_K	23.4	33.7/	1 63.8
ORTON	STEVEN	SEWAR	MEADE	CLARK	00014	BARBER		SUMNER	COWL	EY	6.7	MONT-	LABETT	
4.8		1111	1/1 /10	2.6	COMANCHE	5,8	HARPER	(/////		//// сн	AUTAUQUA	GOMERY	1	CHEROK
7.0	7.3	28.4	3		3,1		10.3				8,4	6 9.7	40.5	38.5

STATE POPULATION DENSITY: 30.0

Sources: Land area for each county obtained from the United States Bureau of the Census (1980). Population figures for 1984 were from the Kansas Department of Health and Environment.

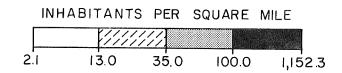
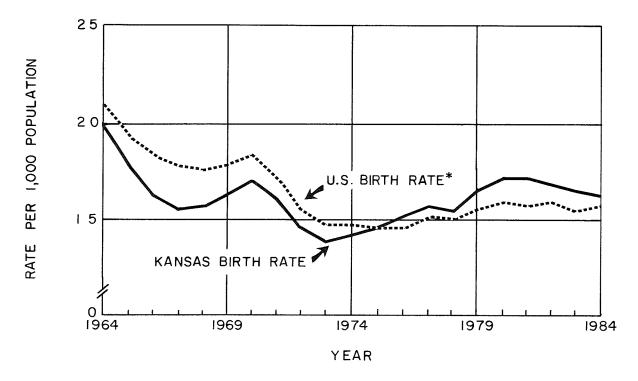


Figure 4

BIRTH RATES KANSAS AND THE UNITED STATES, 1964-1984



^{* 1983} and 1984 United States birth rates represent provisional data from the National Center for Health Statistics.

Residence data.

Figure 5

LIVE BIRTHS

During 1984, 39,954 live births were recorded for mothers with Kansas residency, representing a birth rate of 16.3 per 1,000 population. These figures reflect both a numerical decrease of 1.0 percent below the 40,365 live births in 1983, and a rate decrease of 1.8 percent below the 1983 rate of 16.6. Of the ninety-six cities presented in Appendix Table 38 with populations of at least 2,000 inhabitants, Junction City has had the highest birth rate in the State for the past ten years.

Trends

Kansas birth rates and fertility rates have followed a pattern similar to national birth and fertility rates during the past twenty years. Illustrated in Figures 5 and 6 are comparisons of Kansas birth rates and fertility rates with those of the United States.

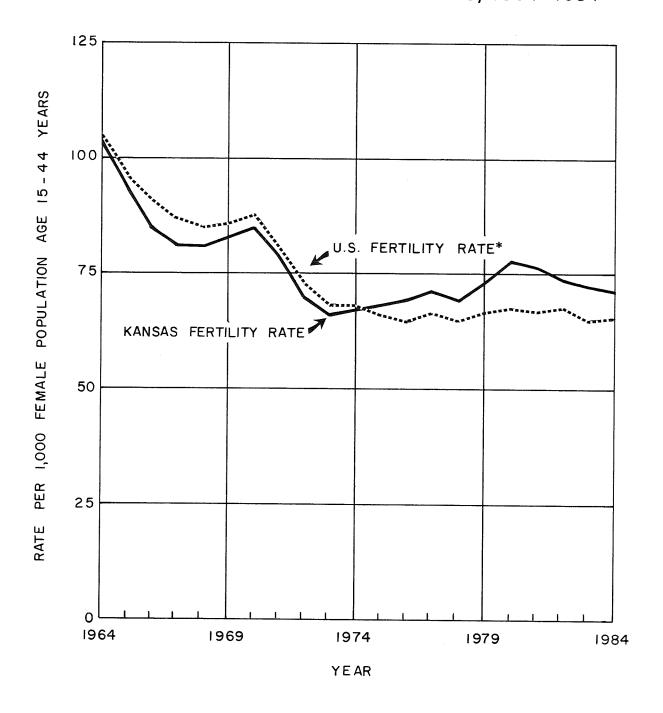
Since 1944, the Kansas birth rate has fluctuated between 26.8 per 1,000 population in 1954, the highest recorded rate in the State, and 13.9 in 1973. Just after World War II, the number of annual births in Kansas increased considerably with the onset of the national "Baby Boom". The State live birth rate increased 38.1 percent from 19.4 per 1,000 population in 1944 to 26.8 in 1954. During the next decade, this trend reversed and Kansas experienced a rate decrease of 25.7 percent. The birth rate declined to 19.9 in 1964, 5.7 percent below the national rate of 21.1. Following 1964, the Kansas birth rate dropped for three consecutive years. After reaching a low of 15.6 in 1967, the Kansas birth rate turned upward slightly in the late 1960's and 1970. After another short-term decline of three years, the Kansas birth rate reached a new low of 13.9 in 1973. In 1978, Kansas experienced a decreased birth rate for the first time in five years. The birth rate then increased to a rate of 17.2 for 1980 and 1981, followed by a three-year decline from 1982 through 1984. (The number of births and birth rates from 1980-1984 for each Kansas county are given in Appendix Table 27.)

The Kansas fertility rate was 104.0 in 1964, 0.7 percent below the national rate of 104.7. Following 1964, the fertility rate began to drop and did so for three consecutive years. After a short-term increase in 1969 and 1970, the fertility rate declined for three years. In 1978, Kansas experienced a decreased fertility rate for the first time in five years followed by an increase in 1979 and 1980. In 1984, the fertility rate in Kansas was 71.5, a 2.3 percent decrease from the 1983 rate of 73.2.

Sex of Infant, Race and Plurality

Since birth information was first recorded in Kansas in 1915, the percent distribution of live births has remained relatively constant for males and females. In 1915, the percentage breakdown for male and female live births was 51.6 percent and 48.4 percent, respectively. The distribution in 1984 was nearly identical, with 51.3 percent of the live births recorded as males and 48.7 percent as females.

FERTILITY RATES KANSAS AND THE UNITED STATES, 1964-1984



st 1983 and 1984 United States fertility rates represent provisional data from the National Center for Health Statistics.

Residence data.

		Sex of Infant		
Race of Mother	Live Births	<u>Male</u>	<u>Female</u>	
Total White Black Other Races N.S.	39,954 36,025 2,916 1,003	20,497 18,499 1,502 493 3	19,457 17,526 1,414 510 7	

White mothers gave birth to 90.2 percent of the liveborn infants in Kansas in 1984. Another 7.3 percent of the mothers were black and other races represented 2.5 percent of the live births.

In 1984, a total of 742 live births, only 1.9 percent, represented multiple births, while a total of 39,212 single births were recorded. Of the 742 multiple births, 730 were twins, and 12 were triplets.

Birth Order

First births accounted for 39.4 percent of all live births in 1984. Second-born infants represented 33.9 percent and third births, 17.3 percent. Thirty years ago, in 1954, first and second-born infants each accounted for 28.2 percent of the 53,559 live births and 20.6 percent were third births. The number and percent of live births by order of birth are presented below for 1984.

Live Births: Number and Percent by Birth Order

Birth Order	Number	Percent
Total First Second Third Fourth Fifth Sixth Seventh	39,954 15,756 13,550 6,931 2,370 786 326 113	100.0 39.4 33.9 17.3 5.9 2.0 0.8 0.3
Eighth Ninth	64 28	0.2 0.1
Tenth and Over	30	0.1

Institution of Birth and Attendant

The number of deliveries which are performed in hospitals has increased dramatically through the years. For example, in 1934, 27.9 percent of all live births occurred in a hospital. Fifty years later, in 1984, only 175 of the 39,954 live births occurred outside the hospital setting, a mere 0.4 percent.

Another factor which may affect both maternal and infant health is whether or not the attendant is present at the time of birth. Unlike the institution of birth, this factor has remained consistent for fifty years. In 1934, 99.4 percent of the births were physicians' deliveries. By 1984, the situation was virtually unchanged—99.2 percent of the births were attended by a physician.

Parental Age

The average maternal age in 1984 was 25.4 years, while the average paternal age was 28.1 years. Figure 7 shows the changing pattern in the distribution of births by maternal age for 1974, 1979 and 1984.

LIVE BIRTHS: PERCENT DISTRIBUTION BY AGE GROUP OF MOTHER KANSAS, 1974, 1979 AND 1984

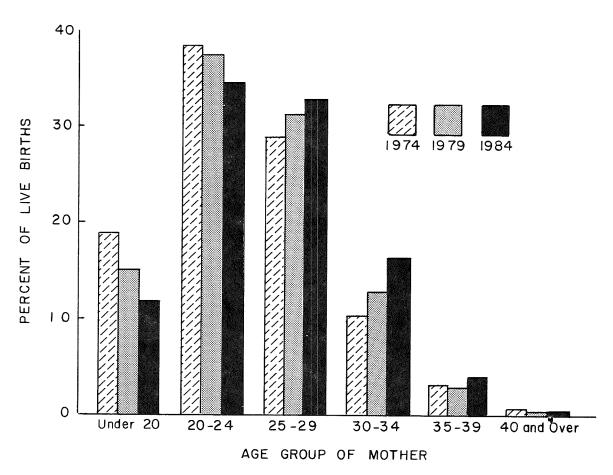


Figure 7

The ages from 20 to 24 were the most popular child-bearing ages in 1974, 1979 and 1984. During this same time frame, however, there was a gradual downward trend in the proportion of child-bearing women in the 20 to 24 year age group, and a gradual increase in the proportion of child-bearing women between 25 and 34. (Live births by county of maternal residence and age group are shown in Appendix Table 28.)

Birth Weight and Premature Births

Birth weights are classified as low, normal or heavy according to the gram limits outlined in Table 4. Ninety-two (92.0) percent of the live births in 1984 were of normal weight, between 2,500 and 4,500 grams. Babies weighing over 4,500 grams constituted only 1.9 percent of the live births.

Low birth weight babies of 2,499 grams or less is the weight category generally considered the most critical in regard to infant survival chances. This weight category comprises those deliveries herein referred to as premature births. The 2,425 premature births in 1984 accounted for 6.1 percent of all live births. The number of premature births for mothers in each age group, percent distribution and age-specific premature birth ratios (premature births as a percent of all live births within an age group) are shown in Table 4.

The age of the mother is an important factor correlated with the birth weight of the baby. A reliable indicator of the tendency for child-bearing women in a particular age group to have premature births is the age-specific premature birth ratio. In 1984, the largest age-specific premature birth ratio was 9.3 percent of the births for mothers 15-19 years of age followed by 8.6 percent of the births for mothers 40-44 years of age. Mothers 20-24 years of age accounted for the largest percentage (34.5) of all live births and the largest percentage (37.2) of premature births. Nearly twenty-seven (26.9) percent of the permature births were to mothers 25-29 years of age.

Out-of-Wedlock Births

In 1984, there were 5,501 out-of-wedlock births to Kansas residents, reflecting a 4.9 percent increase over the 1983 total of 5,243. These out-of-wedlock births represented 13.8 percent of all live births in 1984.

Although the out-of-wedlock birth ratio in Kansas was below the national ratio from 1963 to 1982 (Figure 8), the increasing trend in the out-of-wedlock birth ratio in Kansas was similar to the upward trend throughout the United States during this period.

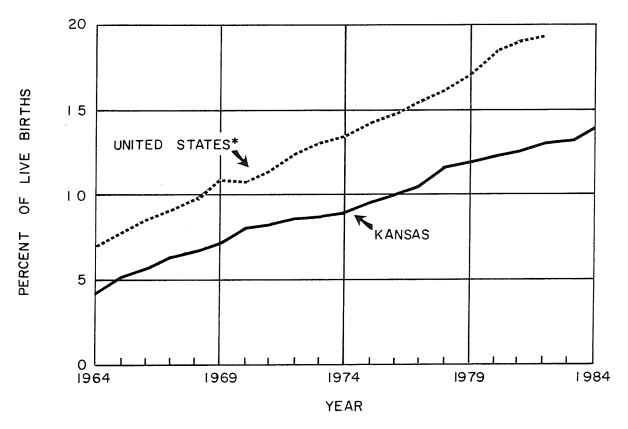
The number of out-of-wedlock births to mothers in each age group in 1984, percent distribution and age-specific out-of-wedlock birth ratios, or the out-of-wedlock births as a percent of all live births within an age group, are shown in Table 4. (Out-of-wedlock births by maternal county of residence by maternal age group are given in Appendix Table 29.)

Table 4
Live Births by Age Group of Mother, by Selected Characteristics
Kansas, 1984

					Sel	lected Charac	cteristics of	Live Births			
Age Group	ļ Ē		Birth Weig	ht (Grams)			Premature Bi	rths	Ou	t-of-Wedlock	Births
of Mother	Total	Under 2,500 (Low)	2,500 - 4,500 (Normal)	Over 4,500 (Heavy)	Not Stated	Number	Percent	Age-Specific Ratio	Number	Percent	Age-Specific Ratio
All Ages	39,954	2,425	36,756	759	14	2,425	100.0		5,501	100.0	• • •
10-14	60	7	53	-	_	7	0.3	*	56	1.0	*
15-19	4,650	432	4,170	46	2	432	17.8	9.3	2,027	36.9	43.6
20-24	13,805	901	12,681	217	6	901	37.2	6.5	2,123	38.6	15.4
25-29	13,110	651	12,187	269	3	651	26.9	5.0	865	15.7	6.6
30-34	6,501	321	6,024	154	2	321	13.2	4.9	330	6.0	5.1
35-39	1,590	93	1,434	62	1	93	3.8	5.8	85	1.5	5.3
40-44	222	19	193	10	-	19	0.8	8.6	14	0.3	6.3
45 and Over	13	1	11	1	-	1	0.0	*	_	_	· · · ·
Not Stated	3	-	3	-	_	-	_	_	1	0.0	-

-

OUT-OF-WEDLOCK BIRTH RATIOS KANSAS AND THE UNITED STATES, 1964-1984



* 1983 and 1984 data from the National Center for Health Statistics were not available at the time of publication.

Residence data.

Figure 8

Of the total number of live births to mothers under 20, almost half (44.2 percent) were out-of-wedlock. Further, of the out-of-wedlock live births 37.9 percent were to mothers under 20.

Age-specific out-of-wedlock birth ratios reveal that 43.6 percent of the births to mothers 15 to 19 years of age were out-of-wedlock in 1984. The ratio dropped to 15.4 percent with the next age group, 20-24 years.

BIRTH-RELATED MORTALITY

REPORTED INDUCED ABORTIONS BY SELECTED CHARACTERISTICS, KANSAS, 1984

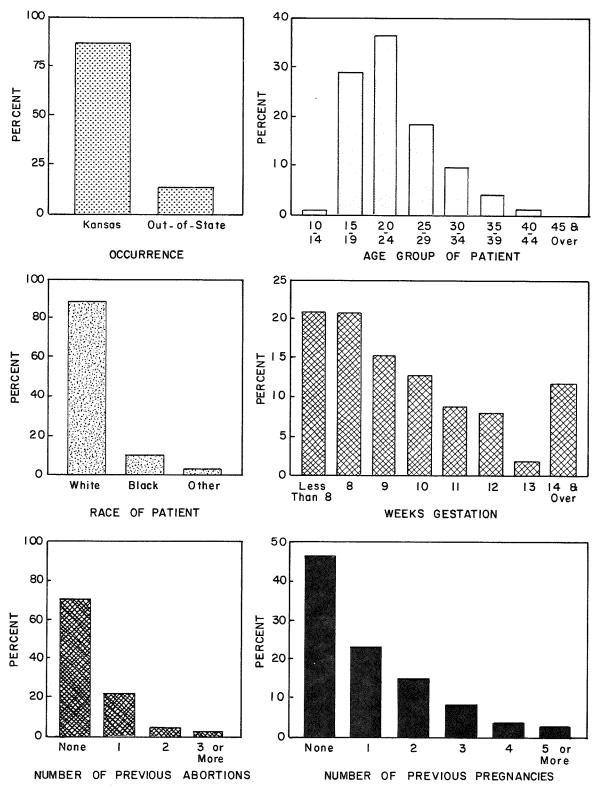


Figure 9

BIRTH-RELATED MORTALITY

This section examines mortality as it relates to pregnancy, childbirth, and infancy. For discussion purposes it is presented in five subdivisions: (1) induced abortions; (2) fetal deaths (stillbirths); (3) perinatal period III mortality; (4) infant deaths; and (5) maternal deaths.

INDUCED ABORTIONS

The Kansas liberalized abortion law was enacted in July, 1970, and from that time through 1984, 162,340 abortions were reported in Kansas. There were 9,754 abortions reported in Kansas in 1984.

The number of abortions reported in Kansas from 1971 to 1984 is shown below. The decline in the number of abortions reported in Kansas in 1974 and 1975 is attributable to the reduction in the number of out-of-state residents having abortions performed in Kansas since the 1973 United States Supreme Court ruling which legalized abortion in all states. The number of abortions reported in Kansas in 1984 represented a 0.9 percent decrease from the 1983 total of 9,844.

Number of Abortions Reported in Kansas by Year

<u>Year</u>	Number
1984	9,754
1983	9,844
1982	11,107
1981	12,137
1980	13,381
1979	13,901
1978	10,904
1977	10,898
1976	11,597
1975	10,860
1974	10,871
1973	12,612
1972	12,248
1971	9,472

Summary statistics are available only for those 8,008 abortions reported by hospitals and clinics participating in our abortion reporting system during 1984, regardless of where the abortion occurred.

In 1984, 4,614 abortions or 63.2 percent of the 7,303 that occurred in the State, were performed for Kansas residents. Of the 2,689 nonresidents who had abortions in Kansas, 93.9 percent (2,526) were Missouri residents. Residents from other states included those from Oklahoma (62), Nebraska (34), Iowa (20), Illinois (11) and Arkansas (9). Twenty-seven patients represented other states.

Kansas Residence Summary:

The following analysis refers to the 5,319 abortions reported for Kansas residents, regardless of where the abortion occurred.

Occurrence: In 1984, the Kansas Department of Health and Environment received statistics on 705 abortions performed in other states for Kansas residents. Of those 705 abortions, 613 (87.0 percent) occurred in Missouri, 68 (9.6 percent) occurred in Oklahoma, and 19 (2.7 percent) occurred in Nebraska.

Age of Patient: Most reported abortions were performed in the 15-19 and 20-24 age groups as shown in Figure 9. Enumerated below is the number of abortions by age group of patient, percent distribution and age-specific abortion ratios (number of abortions reported per thousand live births for a given age group.) Induced abortions by county of residence and age group of patient in 1984 are given in Appendix Table 30.

Abortions: Distribution by Age Group of Patient and Age-Specific Ratios

Age Group	Number	Percent	Ratio**
Total	5,319 49 1,549 1,924 976 522	100.0 0.9 29.2 36.3 18.4 9.8	333.1 139.4 74.4 80.3
35-39 40-44 45 and Over N.S	225 62 2 10	4.2 1.2 0.0	141.5 279.3 *

^{**}Age-specific abortion ratios are expressed as the number of abortions per 1,000 live births for a given age group.

Race: Most of the abortion patients, 88.5 percent (4,672), in 1984 were white. Black patients represented 9.3 percent (490), and other races constituted 2.2 percent (114). Race was not stated in 43 cases.

Marital Status of Patient: Of the 5,319 abortion patients residing in Kansas in 1984, 4,192 or 79.3 percent, were not married; 1,091 or 20.7 percent were married and 36 patients did not report their marital status.

Number of Previous Abortions: In 1984, 3,788 or 71.6 percent, of the patients had no previous abortions. Almost twenty-two (21.8) percent, or 1,154, had one previous abortion, 4.6 percent (245) had two previous abortions, and 2.0 percent (106) had three or more previous abortions. In 26 cases the number of previous abortions was not stated.

Number of Previous Pregnancies: Forty-six (46.5) percent (2,469) of the patients reported no previous pregnancies, and 22.9 percent (1,213) reported one previous pregnancy. Fifteen (15.2) percent (808) had two previous pregnancies, 15.4 percent (816) reported three or more previous pregnancies, and 13 patients did not report the number of previous pregnancies.

Method of Abortion: Ninety-seven (97.2) percent (5,169) of the abortions were performed by suction curettage. Sharp curettage was utilized in 51 cases, and intra-uterine saline instillation was performed in 7 cases. In 89 cases, other methods were used, and 3 cases did not report the method of abortion.

Weeks Gestation: Most abortions (88.3 percent) were performed within the first three months of pregnancy, or prior to the fourteenth week of gestation. Only 615, or 11.7 percent, were performed later than the thirteenth week after conception, while 77 cases did not state weeks gestation.

FETAL DEATHS (Stillbirths)

There were 277 fetal deaths recorded for Kansas residents in 1984 representing a 6.4 percent decrease from the 1983 total of 296. The fetal death rate in 1984 was 6.9 per 1,000 total births, a decrease of 5.5 percent from the 1983 rate of 7.3. The fetal death rate has declined by 39.5 percent from the decade high of 11.4 in 1974. (Table 31 in the Appendix shows the number of fetal deaths by county of residence in 1984.)

Cause of Death: In 1984, 13.7 percent of the fetal deaths were attributable to placental separation and hemorrhage (38). Other common causes of fetal deaths were: compression of umbilical cord (35), abnormalities of the placenta (23), other and unspecified conditions of umbilical cord (13), and asphyxia or anoxia (11). (Intentionally aborted fetuses that weigh more than 350 grams are not included as fetal deaths in this report.)

Weight: Fetuses weighing between 351 and 2,000 grams (12.4 oz. to 4 lb. 6 oz.) constituted 58.0 percent of the fetal deaths in 1984. Seventy (70.5) percent of all fetal deaths weighed less than 2,500 grams (5 lb. 8 oz.).

Race: While 90.2 percent of the mothers of infants born in 1984 were white, 85.4 percent of the fetal deaths involved women of this race indicating a somewhat greater fetal death rate for nonwhite races.

Fetal Deaths: Distribution by Age Group of Mother and Age-Specific Ratios

Age Group	Number	Percent	Ratio**
Total	277	100.0	• • •
10-14	3	1.1	*
15-19	32	11.6	6.9
20-24	92	33.5	6.7
25-29	79	28.7	6.0
30-34	45	16.4	6.9
35-39	19	6.9	11.9
40-44	5	1.8	22.5
45 and Over	- -	_	_
Not Stated	2	•••	• • •

^{**}Age-specific fetal death ratios are expressed as the number of fetal deaths per 1,000 live births for a given age group.

FETAL DEATHS BY SELECTED CHARACTERISTICS KANSAS, 1984

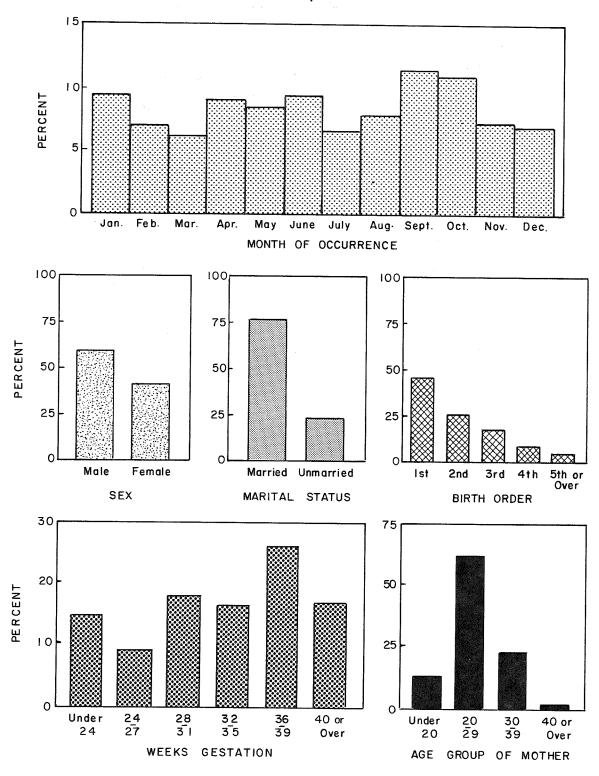


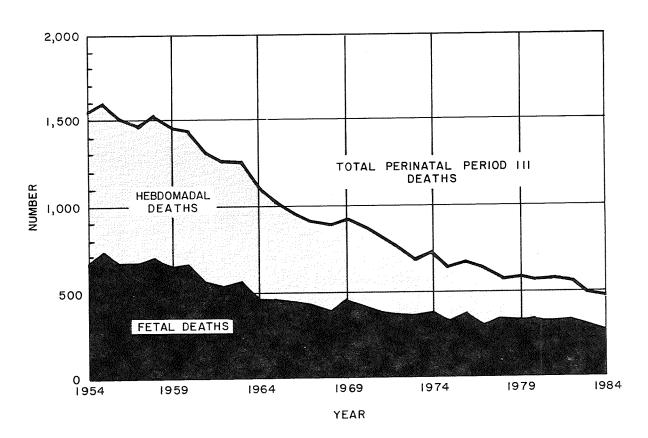
Figure 10

Other Characteristics: Selected characteristics of fetal deaths in 1984 are outlined in Figure 10. Viewing the month of occurrence, 22.7 percent of the fetal deaths occurred from September through October. No particular seasonal or monthly patterns were evident. As a comparison, 51.3 percent of the live births in 1984 were males while 59.1 percent of the fetal deaths for the year were male fetuses. Almost one-fourth (23.2 percent) of all fetal deaths were from out-of-wedlock pregnancies. The largest percentage of fetal deaths (45.1 percent) occurred with first births, with the incidence declining with higher birth order. Forty-two (42.5) percent of the fetal deaths occurred after 35 weeks of gestation.

PERINATAL PERIOD III MORTALITY

Perinatal period III mortality refers to the aggregated total of fetal deaths and hebdomadal deaths (deaths that occur prior to the 7th day of life).

PERINATAL PERIOD III MORTALITY KANSAS, 1954 - 1984



Residence data.

Figure II

Since 1955 there has been a general downward trend in the number of perinatal period III deaths. The number of deaths decreased from 1,604 in 1955 to 477 in 1984. A graphic representation of perinatal period III mortality occurring between 1954 and 1984 is presented in Figure 11.

Table 5
Perinatal Period III Mortality
Kansas, Selected Years, 1954-1984

			Perinatal Period III Deaths			
Year	Fetal Deaths*	Hebdomadal Deaths	Number	Rate		
1984 1983	277 296	200 202	477 498	11.9		
1982 1981	336 316	234 264	570 580	13.9		
1980	340	226	566	13.8		
1978 1977	330 331 308	260 254 335	590 585	15.0 15.8		
1976 1975	364 341	310 304	643 674 645	17.3 18.9		
1974	379	354	733	18.9		
1973 1972	355 375	342 410	697 785	21.6		
1971 1970	380 423	506 477	886 900	24.3 23.3		
1966 1962	455 538	522 737	977	26.7		
1958 1954	696 666	737 824 889	1,275 1,520 1,555	25.9 29.0 28.7		

^{*}Criteria for reporting fetal deaths changed from twenty weeks gestation to a fetal weight of more than 350 grams in 1963.

Examining the components that constitute perinatal period III mortality in Table 5, both the numbers of fetal deaths and hebdomadal deaths declined during the 1954 to 1984 period. Fetal deaths accounted for 58.4 percent fewer deaths in 1984 than they did in 1954 and hebdomadal deaths decreased by 77.5 percent. (Perinatal period III deaths by county of residence are given in Appendix Table 31.)

INFANT DEATHS

An infant death is defined as the death of a liveborn infant under one year of age. Below are the major components or stages of infancy that constitute the first year of life, and deaths which occur during that time are hereafter classified in a like manner.

Hebdomadal deaths - occur prior to the seventh day of life.

Post-hebdomadal deaths - occur from 7 through 27 days after birth.

Neonatal deaths - occur prior to the twenty-eighth day of life.

Post-neonatal deaths - occur after 27 days but prior to one year after birth.

These stages overlap in that neonatal deaths represent the total number of hebdomadal and post-hebdomadal deaths. Infant deaths are the sum of neonatal deaths and post-neonatal deaths.

In 1984, there were 392 infant deaths in Kansas. The number of infant deaths, as graphically presented in Figure 12, declined 70.2 percent from 1954 to 1984. Expressed as a rate per thousand live births, infant deaths dropped from 24.6 in 1954 to 9.8 in 1984, the lowest rate on record. By comparison, the estimated infant mortality rate for the United States was 10.6 in 1984. The component stages of infant deaths, neonatal deaths (including the hebdomadal and post-hebdomadal periods) and post-neonatal deaths declined in Kansas in a somewhat parallel manner during the 1954-1984 time period with the margin between the two narrowing slightly in later years. Neonatal deaths totaled 1,001 in 1954 compared to 251 in 1984, a 74.9 percent decline. Post-neonatal deaths concurrently dropped by 55.1 percent from 314 in 1954 to 141 in 1984. (Table 32 in the Appendix shows the number of infant deaths by components and county of residence in 1984.)

Cause of Death: "Congenital anomalies" was the most common cause of infant death and accounted for 107 or 27.3 percent of all infant deaths. "Sudden infant death syndrome" represented 53 or 13.5 percent of all infant deaths and was the second leading cause. All causes of infant death by age group are listed in Table 6.

INFANT DEATHS BY COMPONENT KANSAS, SELECTED YEARS, 1954-1984

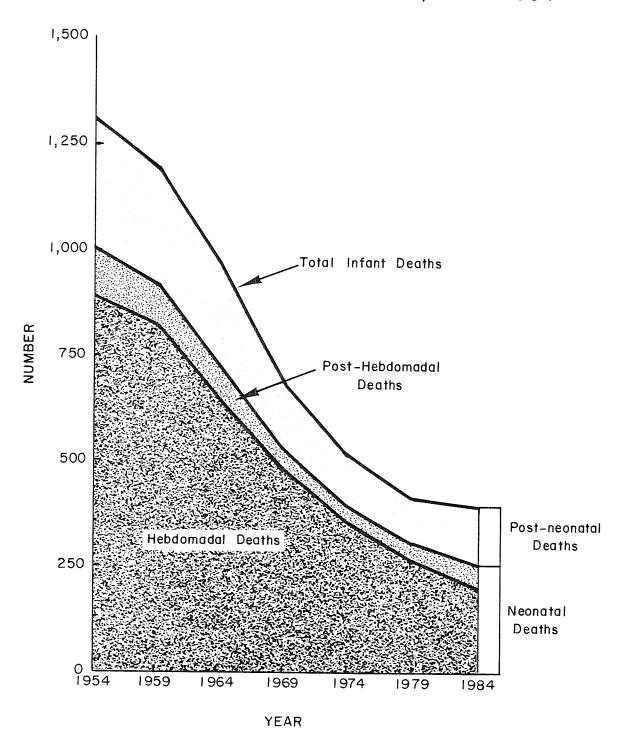


Figure 12

 $\begin{array}{c} \text{Table 6} \\ \text{Infant Deaths by Cause of Death and Age Group of Infant} \\ \text{Kansas, 1984} \end{array}$

	Age Group of Infant										
Cause of Death (ICD Code)	Under 1 day	1-6 days	Under 7 daysª	7-27 days	Under 28 days <u>b</u> /	28-364 days	Under 1 year				
All Causes	147	53	200	51	251	141	392				
Infectious and Parasitic Diseases (001-139)		-	-	1	1	3	4				
Other Diseases and Disorders (140-739)	2	5	. 7	10	17	36	53				
Congenital Anomalies (740-759)	32	22	54	21	75	32	107				
Certain Conditions Originating in the Perinatal Period (760-779)	113	26	139	12	151	6	157				
Pregnancy and Childbirth (760-761, 763-764)	23	-	23	1	24	-	24				
Cord and Membranes	13	_	13	_	13	_	13				
*Immaturity (765)	27	2	29	-	29	_	29				
*Birth Trauma (767)	3	3	6	1	7	1	8				
'Hypoxia and Birth Asphyxia	4	2	6 .	2	8	1	9				
Respiratory Distress Syndrome and Other Respiratory Conditions (769-770) Infections Specific to Perinatal	27	14	- 41	2	43	4	47				
Period (771)	1	_	1	2	3	_	3				
*Fetal and Neonatal Hemorrhage (772)	2	-	2	1	3	-	3				
*Other (773-779)	13	5	18	3	21	_	21				
Symptoms and Ill-defined Conditions (780-799)	-	_	_	6	6	50	56				
Syndrome (798)	_	_	_	5	5	48	53				
Other (780-797, 799)	_	-	-	1	1	2	3				
Poisoning (E800-E999)	-	_	_	1	1	14	15				

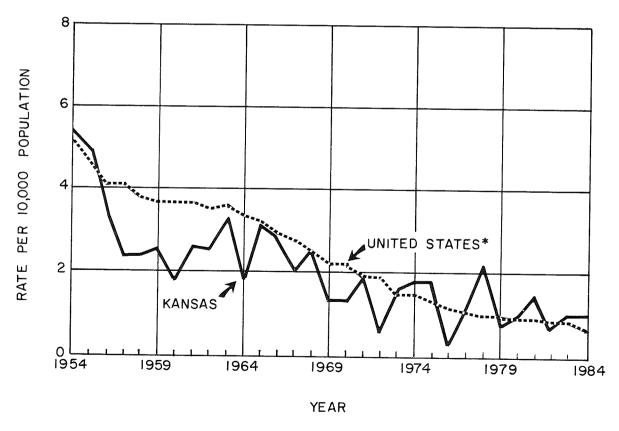
a/Hebdomadal Deaths b/Neonatal Deaths

MATERNAL DEATHS

Maternal deaths are those attributable to complications of pregnancy, childbirth or the puerperium based on the certified cause of death listed on the death certificate.

During 1984, four maternal deaths occurred to Kansas residents. Maternal mortality rates, expressed as the number of maternal deaths per ten thousand live births, for Kansas and the nation declined considerably between 1954 and 1984 as illustrated in Figure 13. While the U.S. rate showed a steady decline, the descent of Kansas' rate was somewhat more erratic. Overall, the rate of maternal deaths in Kansas was generally below that of the United States during that period. The maternal death rate for Kansas in 1984 was 1.0, an 81.5 percent decrease from the 1954 maternal death rate of 5.4.

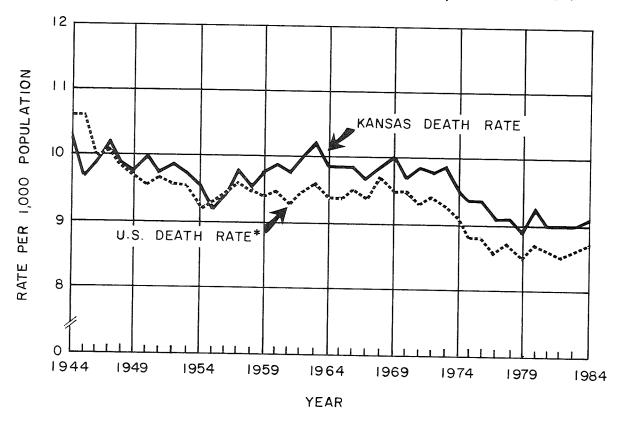
MATERNAL MORTALITY RATES KANSAS AND THE UNITED STATES, 1954-1984



*1983 and 1984 maternal mortality rates represent provisional data from the National Center for Health Statistics.

GENERAL MORTALITY

DEATH RATES KANSAS, AND THE UNITED STATES, 1944-1984



^{* 1983} and 1984 United States death rates represent provisional data from the National Center for Health Statistics.

Residence data.

Figure 14

DEATHS

A total of 22,184 resident deaths were recorded during 1984, representing a 1.7 percent increase over the 21,816 deaths recorded in 1983. The Kansas death rate in 1984 was 9.1 per thousand population, an increase of 1.1 percent over the previous year's rate (9.0). As illustrated in Figure 14, the Kansas death rate has remained relatively stable between the years 1944 and 1984, not rising above 10.3 (1944) nor falling below 8.9 (1979).

The Kansas death rate in 1984 was 4.6 percent higher than the estimated national death rate of 8.7. During the 1964-1984 period, the Kansas rate has been on the average 5.0 percent higher than the national rate. It should be noted however, that the age distribution of the population has a significant bearing on the level of the crude death rate and the percentage of the population 65 years and older is higher in Kansas than for the nation as a whole. On this basis, plus the observed higher than average life expectancy of Kansas residents, it seems likely that the death rate in Kansas compares favorably with the national rate.

Death rates by county of residence for 1984 are shown in Figure 15. Riley County had a low rate of 3.4 per 1,000 population, while Harper County had a high of 17.5. The difference in age distribution of the county population, as well as chance fluctuations when relatively small numbers are involved, should be taken into account when making county-level crude death rate comparisons. (The number of deaths and respective rates for 1980-1984 on a county of residence basis are given in Appendix Table 33. Table 38 presents total deaths and rates for selected cities, 1983-1984.)

Age, Race and Sex of Decedent

The average age at death of Kansas residents in 1984 was 71.8 years. As illustrated in Figure 16, 46 counties had an average age at death of 75 years or more. (The number of deaths by age group and average age at death by county of residence are given in Appendix Table 34.)

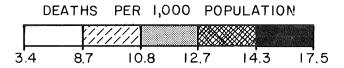
Ninety-five (94.9) percent of the Kansas decedents in 1984 were white, 4.7 percent were black and less than one percent were of other races. The average age at death for the white population was 72.3, nine years older than that of the black population, whose average age at death was 63.3. Excepting the 1-4 age group and the two oldest age groups, male deaths exceeded female deaths by a considerable margin. The distribution of 1984 Kansas resident deaths by age group, race, sex and average age at death is presented in Table 7.

Leading Causes of Death

The Kansas Department of Health and Environment has been utilizing the Automated Classification of Medical Entities (ACME) System on death certificates since January, 1980. This software system, developed by the National Center for Health Statistics (NCHS), determines the underlying (or principal) cause of death using multiple cause of death coding in accordance with the Ninth Revision of the International Classification of Diseases, (ICD) published by the World Health Organization. Thus, the coder no longer selects the underlying cause but assigns a code to all causes of death listed on the death certificate and then the underlying cause is determined through a computerized set of decision rules.

DEATH RATES BY COUNTY OF RESIDENCE KANSAS, 1984

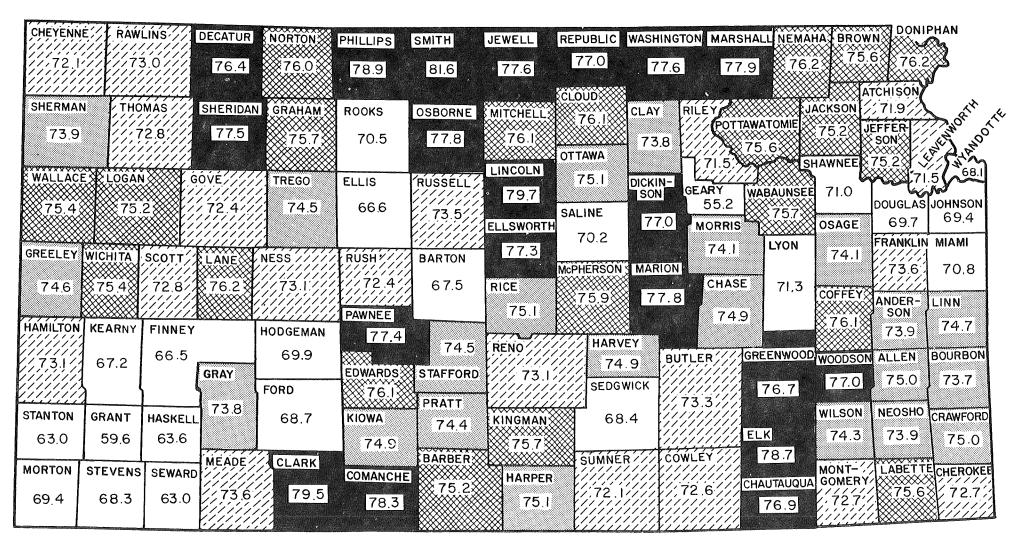
CHEYEN	NE RAV	/LINS	DECATUR	NORTON X	PHILLIPS	SMITH	JEWELL	REPUBLIC	WASHINGT	ON MARSHA	LL NEMAI	A BROW	DONI	PHAN
15.6	6	2.4	12.7	13.8	14.9	14.8	16.3	15.6	15.3	13.9	14.4	4 3.	58 II.5	Z
SHERMA	THO	OMAS / /	SHERIDAN	9.9	ROOKS 15.0	OSBORNE 16.9	MITCHELL	[15.6]	CLAY F	POTTÁW 9	ATOMIE 5	ACKSON 10.3/J	TCHISON 12.0 EFFER- SON	MORITO TO
WALLAC 12.9	***	N (30VE 8.4	TREGO 15.5	ELLIS 7,0	RUSSELL 15.2	LINCOLN 16.9 ELLSWORTH	SALINE	DICKIN- SON (3.4 GEARY 6.8 MORRIS	ABAUNSEE		DOUGLAS 5.5	JOHNSON 5.5
GREELEY	WICHITA 6.1	SCOTT 6.9	LANE 14.7	NESS (13.6	RUSH II.5 PAWNEE	BARTON//	12.5 RICE 13.7	McPHERSON	MARION 12.8	15.8 CHASE 12.7	LYON 7.0	10.8 COFFEY	IO.9 ANDER-S	IO.2
HAMILTON	KEARNY 6.6	FINNEY 6.6	GRAY	HODGEMAN 15.5	II.3 EDWARDS	14.1 STAFFORD	RÉNO.	HARVI 9.0 SEDGV	BUT		EENWOOD 17.2	9.2/) WOODSON	12.7	12.4 BOURBON 813.5
STANTON 5.1	GRANT 4.5	HASKELL 5.4			KIOWA 13.6	PRATT //IO.6	KINGMAN 11.7	7.8	3	7.8 EL		WILSON	NEOSHO	CRAWFORD
MORTON 7.4	STEVENS	}	MEADE //	CLARK 14.3	COMANCHE II. 9	通過ススメメルへいいへい パン	HARPER 17.5	SUMNER IO.9		. 8 CHA	UTAUQUA	MONT- GOMERY	LABETTE 10.9	CHEROKEE

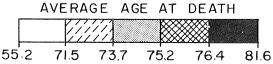


STATE RATE: 9.1

Figure 15

AVERAGE AGE AT DEATH BY COUNTY OF RESIDENCE, KANSAS, 1984





STATE AVERAGE: 71.8

Figure 16

Table 7
Deaths by Race and Sex, by Age Group and Average Age at Death
Kansas, 1984

			Age Group											
Race and Sex	Total	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	N.S.	Average Age at Death
All Races Male Female	22,184 11,436 10,748	392 223 169	84 48 36	100 70 30	385 284 101	427 312 115	510 317 193	957 595 362	2,564 1,606 958	4,693 2,799 1,894	6,393 3,210 3,183	5,677 1,971 3,706	2 1 1	71.8 68.4 75.5
WhiteMaleFemale	21,054 10,846 10,208	322 188 134	75 45 30	93 66 27	353 261 92	377 282 95	458 290 168	867 537 330	2,400 1,528 872	4,460 2,657 1,803	6,143 3,086 3,057	5,504 1,905 3,599	2 1 1	72.3 68.8 76.1
Black	1,041 535 506	59 27 32	8 3 5	6 3 3	25 16 9	41 26 15	48 24 24	80 49 31	155 74 81	216 134 82	234 114 120	169 65 104	- - -	63.3 62.1 64.7
Indian Male Female	38 23 15	1 1	-	-	4 4 -	2 - 2	1 1 -	4 4 -	7 3 4	10 4 6	7 6 1	2 - 2	 -	* *
Other Male Female	46 28 18	9 6 3	1 - 1	1 1 -	3 3 -	6 4 2	3 2 1	3 2 1	2 1 1	7 4 3	9 4 5	2 1 1	- - -	* *
Not Stated Male Female	5 4 1	1 1 -	- - -	-	-	1 - 1		3 3 -	-	- - -	- - -	- - -	- - -	* *

Table 8
Selected Causes of Death by Age Group
And Average Age at Death
Kansas, 1984

			Age Group											
Selected Causes of Death (ICD Code)	Total	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	N.S.	Average Age at Death
All Causes	22,184	392	84	100	385	427	510	957	2,564	4,693	6,393	5,677	2	71.8
Selected Causes	19,317	151	64	91	344	366	451	853	2,323	4,182	5,608	4,883	1	n.a.
Tuberculosis (010-018)	9	-	<u>-</u>		-	1	~	1	-	2	3	2	_	70.3
(140-208)	4,521	1	9	13	27	42	111	309	917	1,345	1,177	570	-	69.6
(250)	363	-	-	-	2	6	11	14	61	94	122	53	-	71.8
(401, 403)	69	-	-	_	-		1	-	5	15	19	29	-	80.3
(390-398, 402, 404-429)	8,399	16	1	-	4	31	102	281	915	1,753	2,693	2,602	1	76.9
(430-438)	1,805	2	1	1	4	12	21	40	82	292	651	699	_	79.7
Atherosclerosis (440)	322	_	-	-	_	_	_	2	5	20	89	206	_	86.1
Pneumonia and Influenza (480-487)	774	8	3	1	1	2	8	10	32	103	238	368	-	80.7
Pulmonary Diseases (490-496) Ulcer of Stomach and Duodenum	933	_	_	2	3	1	5	27	108	328	332	127	-	73.7
(531-533)	76	-	-	-	-	1	1	1	9	15	18	31	-	77.7
(571) Nephritis, Nephrotic Syndrome and Nephrosis	187	-	-	1	-	4	17	25	57	45	32	6	-	62.4
(580-589)	224	2	1	-	-	1	4	8	13	35	90	70	-	77.4
(740-759)	155	107	16	4	4	5	3	3	4	4	4	1	-	9.9
(E800-E949)	1,084	14	29	62	227	179	87	85	75	97	119	110	_	45.0
Suicide (E950-E959)	302	_	-	4	52	63	50	40	37	31	18	7	_	43.8
Homicide and Legal Intervention (E960-E978)	94	1	4	3	20	18	30	7	3	3	3	2	-	35.0

This discussion is not exhaustive of all causes of death of Kansas residents, rather it highlights the major causes in terms of magnitude of numbers of deaths from particular causes. Table 8 presents selected causes of death by age group of Kansas residents that died in 1984. (The number of deaths to Kansans from the twenty leading causes of death by county of residence appears in Appendix Table 35.)

The two leading causes of death in Kansas, heart disease and malignant neoplasms, had average ages at death of 76.9 and 69.6, respectively. Atherosclerosis, with an average age at death of 86.1 years, had the highest average age at death of any of the leading causes of death.

Half of the ten leading causes of death in 1914 caused fewer than fifty deaths in 1984. No one died as a result of typhoid in 1984 compared to 339 typhus deaths seventy years ago. Since 1914, the rate of heart disease deaths in Kansas increased 293.9 percent. The cancer death rate is up 191.5 percent while the death rate for accidents declined 27.8 percent. Death rates for pneumonia and homicide decreased about thirty-six (36.1 and 36.7, respectively) percent in the past seventy years. During this same time period, the rate for diabetes deaths increased 14.7 percent and the suicide rate rose 5.1 percent.

Examining the ten leading causes of death for Kansas residents in 1984, Table 9 shows not only the number of deaths attributable to each cause but also the disease-specific death rates and average age at death for males and females. The average age at death for female accident victims was more than twelve years greater than that for males who died accidentally. More than five times as many males as females died as a result of suicide in 1984. Deaths due to accidents and homicide and legal intervention claimed about twice the number of males as females. Female deaths were predominant for chronic diseases (atherosclerosis, diabetes and cerebrovascular disease) rather than for external causes. Table 10 gives sex and race breakdowns for the ten leading causes of death and Table 11 provides comparisons of deaths for Kansas and the United States for selected leading causes by number and rate for 1984.

Four Leading Causes: Depicted in Figure 17 are the year by year death rate trends for the four leading causes of death from 1944-1984. The rate for heart disease, the number one cause of death in Kansas, rose considerably from 1944 to 1960. After stabilizing somewhat for the next ten years, the heart disease death rate gradually declined to 340.7 in 1981. The 1984 Kansas rate of 342.7 was 6.0 percent higher than the estimated United States rate of 323.2. The heart disease rate among Kansas men was 355.2 per 100,000 population in 1984 compared to 330.8 among the female population. The male victims of fatal heart disease averaged more than seven years younger than female victims.

Cancer was the second-leading cause of death in Kansas in 1984, rising from 134.3 deaths per 100,000 population in 1944 to 187.9 in 1983. The Kansas rate (184.5) was 4.0 percent lower than the estimated United States rate of 192.1 per 100,000 population. The incidence of terminal cancer was higher for men than for women, as evidenced by the death rates of 201.9 for males and 167.9 for females.

Kansas death rates for cerebrovascular disease, the number three cause of death in 1984, remained between 107.3 and 137.0 from 1944 to 1975. However, the rate dropped to 95.7 in 1976 and 72.1 in 1983. The 1984 Kansas rate of 73.7 was 12.5 percent higher than the estimated United States rate of 65.5. Comparing the number of male and female victims in 1984, 60.8 percent were females and the sex-specific rate was 87.7 for females and 59.0 for males.

Table 9
Ten Leading Causes of Death by Sex
By Number, Rate and Average Age at Death
Kansas, 1984

Loading Course of		Number of Deaths		Disease	-Specific Dea	th Rate	Ave	Average Age at Death			
Leading Causes of Death (ICD Code)	Total	Male	Female	Total	Male	Female	Total	Male	Female		
All Causes	22,184	11,436	10,748	905.2	954.3	858.3	71.8	68.4	75.5		
Heart Disease											
(390-398, 402, 404-429)	8,399	4,256	4,143	342.7	355.2	330.8	76.9	73.4	80.6		
Malignant Neoplasms											
(140-208)	4,521	2,419	2,102	184.5	201.9	167.9	69.6	69.2	70.1		
Cerebrovascular Disease							į		_		
(430–438)	1,805	707	1,098	73.7	59.0	87.7	79.7	76.9	81.5		
Accidents (FROD FORD)	1,084	739	345	44.2	61.7	07.6	115.0	114	I		
(E800-E949)	1,004	139	345	44.2	01.7	27.6	45.0	41.1	53.4		
Pulmonary Diseases											
(490–496)	933	636	297	38.1	53.1	23.7	73.7	74.1	72.9		
Pneumonia and Influenza			>1	3.0]	-501	'3*'	, , , , ,	12.9		
(480-487)	774	384	390	31.6	32.0	31.1	80.7	78.2	83.3		
Diabetes Mellitus			·			_	·	,	1313		
(250)	363	138	225	14.8	11.5	18.0	71.8	70.2	72.8		
Atherosclerosis											
(440)	322	105	217	13.1	8.8	17.3	86.1	83.1	87.5		
Suicide							l				
(E950-E959)	302	252	50	12.3	21.0	4.0	43.8	43.8	43.9		
Nephritis, Nephrotic Syndrome											
and Nephrosis	221	112	111	0.1	0.11		77 1	76.5	70 1		
(580–589)	224	113	111	9.1	9.4	8.9	77.4	76.5	78.4		

Note: Rates are based on an estimated distribution of population of 48.9 percent male and 51.1 percent female. This distribution is based upon the "1980 Census of Population and Housing" by the United States Bureau of the Census.

Table 10
Ten Leading Causes of Death by Sex and Race
Kansas, 1984

						Causes o	of Death					
Sex and Race	Total	Heart Disease	Malignant Neoplasms	Cerebrovascular Disease	Accidents	Chronic Obstructive Pulmonary Diseases	Pneumonia and Influenza	Diabetes	Atherosolerosis	Suicide	Nephritis, Nephrotic Syndrome and Nephrosis	All Other Causes
Total	22,184	8,399	4,521	1,805	1,084	933	774	363	322	302	224	3,457
Male White Black Indian Other Unknown	11,436 10,846 535 23 28 4	4,098 149	2,419 2,286 120 6 6	707 662 42 3 - -	739 689 39 6 4	636 613 22 - 1	384 367 16 1 -	138 125 11 1 1	105 100 5 - -	252 242 9 - 1	113 102 11 - -	1,687 1,562 111 4 9
Female White Black Indian Other Unknown	10,748 10,208 506 15 18	3,957 180 5	2,102 1,999 95 4 4	1,098 1,054 43 - - 1	345 328 15 1 1	297 291 6 - -	390 379 11 - -	225 211 13 1 -	217 216 1 - -	50 48 1 1 -	111 99 11 - 1	1,770 1,626 130 3 11

Table 11
Selected Leading Causes of Death by Number and Rate
Kansas and the United States, 1984

	Kans	sas	United S (Estima	
Cause of Death (ICD Code)	Number	Rate	Number	Rate
All Causes	22,184	905.2	2,036,930	866.7
Heart Disease (390-398, 402, 404-429) Malignant Neoplasms	8,399	342.7	759,610	323.2
(140-208)	4,521	184.5	451,390	192.1
Cerebrovascular Disease (430-438)	1,805	73.7	153,890	65.5
Accidents (E800-E949)	1,084	44.2	92,950	39.6
Pulmonary Diseases (490-496)	933	38.1	69,760	29.7
Pneumonia and Influenza (480-487)	774	31.6	58,590	24.9
Diabetes Mellitus (250)	363	14.8	35,770	15.2
Atherosclerosis (440)	322	13.1	24,370	10.4
Suicide (E950-E959)	302	12.3	27,740	11.8
Nephritis, Nephrotic Syndrome and Nephrosis (580-589)	224	9.1	20,450	8.7
and Cirrhosis (571)	187	7.6	26,560	11.3
Aortic Aneurysm (441) Certain Conditions Originating	177	7.2	n.a.	n.a.
in the Perinatal Period (760-779)	160	6.5	18,740	8.0
Congenital Anomalies (740-759)	155	6.3	13,000	5.5
Homicide and Legal Intervention (E960-E978)	94	3.8	19,390	8.3

^{*}United States estimates are from the National Center for Health Statistics and are based on a 10 percent sample.

DEATH RATES FOR LEADING CAUSES OF DEATH KANSAS, 1944-1984

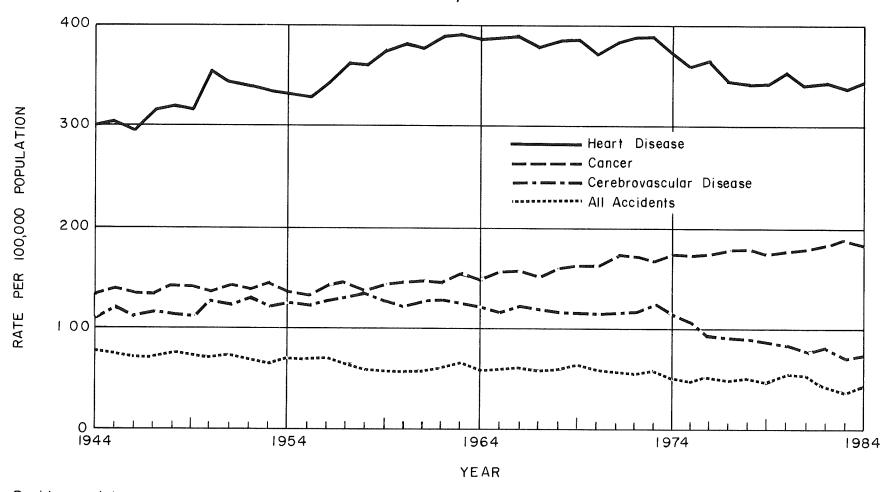
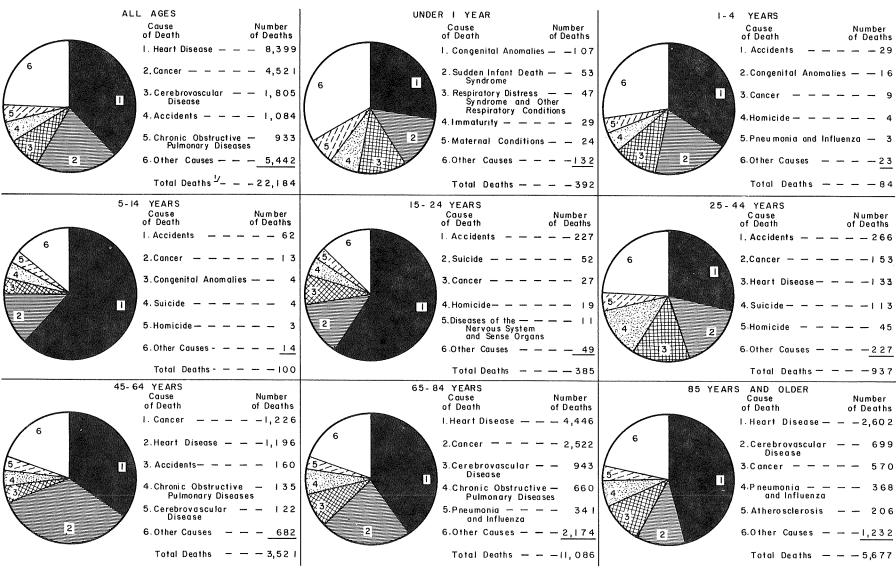


Figure 17

LEADING CAUSES OF DEATH BY AGE GROUP KANSAS, 1984



 $^{^{}L\prime}$ Two deaths by age group of decedent unknown. Residence data.

Accidental deaths accounted for 4.9 percent of all deaths in Kansas in 1984, making it the fourth-leading cause during the year. The death rate for accidents declined from 80.2 in 1944 to a record low of 39.6 in 1983. The 1984 Kansas accidental death rate (44.2) was 11.6 percent higher than the estimated United States rate of 39.6.

Leading Causes by Age Group: Variations in the most prevalent causes of death by selected age groups are presented in Figure 18. The leading causes of death for each age group are listed in order of magnitude. It is thus noted that in 1984, accidents were the most frequent cause of death for victims between 1 and 44 years of age. Heart disease was more commonly fatal to those persons over 44 years old. Cancer and cerebrovascular disease also claimed more victims of older age groups than of younger ones. Suicide and homicide had the greatest impact upon persons of the 15-24 and 25-44 categories. Pneumonia-influenza was one of the five leading causes of death of persons 1-4 and over 64 years of age. Chronic obstructive pulmonary diseases were more prevalent as a cause of death for persons over 44 years of age.

Heart Disease: The number one cause of death in Kansas, heart disease, claimed 8,399 lives in 1984 and accounted for 37.9 percent of all deaths during the year.

The classifications which constitute heart disease, the number of deaths attributable to each and the respective sex and age group distributions are presented in Table 12.

The most prevalent type of heart disease was ischemic heart disease which claimed 71.0 percent of all heart disease victims. In general, ischemic heart disease refers to an obstruction of the flow of blood from the arteries to the heart and resultant reduction of blood supply to the heart. Two forms, acute myocardial infarction and other forms of chronic ischemic heart disease, accounted for nearly all ischemic heart disease deaths, 3,347 and 2,584, respectively. Ischemic heart disease was most commonly fatal to persons over 64 years of age, especially those between 75 and 84. Nearly fifty-one (50.7) percent of the total heart disease victims were males and 49.3 percent were females, but the sex distributions by age group showed wide variations. For the age groups between 35 and 74, 67.1 percent of the victims were males while for the age group 75 years and over, only 41.1 percent were males.

<u>Cancer</u>: The 4,521 deaths in 1984 caused by cancer, or malignant neoplasms, contributed 20.4 percent to the total number of deaths and represented the second most prevalent cause of death in the State. Nearly thirty (29.8) percent of the victims were between 65 and 74 years of age and the sex distribution was 53.5 percent males and 46.5 percent females. As depicted in Table 13, malignant neoplasms of the respiratory and intrathoracic organs accounted for over one-fourth (1,198) of all cancer victims, 72.4 percent of whom were men. Cancer of the digestive organs and peritoneum claimed 1,155 victims.

Table 12 Heart Disease Deaths by Age Group and Sex Kansas, 1984

		Age Group											
Cause of Death and Sex (ICD Code)	Total	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	N.S.
Diseases of the Heart (390-398, 402, 404-429)	8,399 4,256 4,143	16 7 9	1 1 -	-	4 3 1	31 23 8	102 78 24	281 213 68	915 659 256	1,753 1,097 656	2,693 1,323 1,370	2,602 851 1,751	1 1 -
Acute Reneumatic Fever and Chronic Rheumatic Heart Disease (390-398)	68 25 43	1 - 1	- - -	- -	- - -	1 - 1	2 1 1	5 4 1	13 5 8	18 6 12	23 8 15	5 1 4	-
Hypertensive Heart Disease with or without Renal Disease (402, 404)	201 54 147	- - -	-	- - -	- - -	1 1 -	- - -	3 1 2	19 7 12	38 16 22	61 17 44	79 12 67	
Ischemic Heart Disease (410-414)	5,961 3,200 2,761	- - -	- - -	- - -	- - -	13 11 2	71 56 15	225 172 53	690 511 179	1,301 846 455	1,951 1,016 935	1,710 588 1,122	
Diseases of Pulmonary Circulation (415-417)	155 78 77	- - -	1 1 -	- - -	- - -	4 - 4	2 - 2	4 3 1	25 17 8	50 30 20	35 15 20	33 11 22	1 1 -
All Other Forms of Heart Disease (420-429)	2,014 899 1,115	15 7 8	-	- - -	4 3 1	12 11 1	27 21 6	44 33 11	168 119 49	346 199 147	623 267 356	775 239 536	-

Table 13

Malignant Neoplasm Deaths
By Site of Lesion, Age Group and Sex
Kansas, 1984

		Age Group											
Site of Lesion and Sex (ICD Code)	Total	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	
Malignant Neoplasms													
(All Sites) (140-208)	4,521	1	9	13	27	42	111	309	917	1,345	1,177	E70	
Male	2,419	'		8	16	4	1			, -		570	
		_	7	1		23	51	156	499	761	652	246	
Female	2,102	1	2	5	11	19	60	153	418	584	525	324	
Lip, Oral Cavity and Pharynx				1									
(140-149)	77	_	_	_	_	_	3	8	17	28	17	4	
Male	49	l _	_	_	_	_	1	6	1 '	20	1	2	
Female	28	_		1	_	1	1	1 -	11	1	9		
	20	_	_	-	_	-	2	2	6	8	8	2	
Digestive Organs and Peritoneum			Į.					1					
(150–159)	1,155	-	-	-	-	5	19	62	189	331	337	212	
Male	579	_	_	_	_	4	10	37	114	189	154	71	
Female	576	_	_		_	1	9	25	1		-	1	
Respiratory and Intrathoracic Organs	310	_	i –	-	-	1	9	25	75	142	183	141	
(160–165)	1,198	-	_	-	-	4	25	97	325	412	270	65	
Male	867	-	-	-	_	2	17	67	225	296	218	42	
Female	331	_	-	_	_	2	8	30	100	116	52	23	
Breast] "					_		30	100	110	52	43	
(174–175)	202											1	
	393	-	-	-	1	3	22	41	96	106	81	43	
Male	1	-	-	-	-	_	-	-	-	1	_	-	
Female	392	-	_	_	1	3	22	41	96	105	81	43	
Genital Organs			}									'	
(179–187)	574	_	_		2	8	10	31	83	172	17711	1 00	
Male	311	_		l	1		1	-	_	173	174	93	
	1	_	-	-		_	1	5	25	89	125	65	
Female	263	-	-	-	1	8	9	26	58	84	49	28	
Urinary Organs													
(188–189)	198	_	1	_	_	_	2	15	32	53	64	31	
Male	124	_	1		_	1 _	2	11	24	33	35	18	
Female	74				_	_	_	4	8			1	
Other and Unspecified Sites	'	_		-	_	1 -	-	4	0	20	29	13	
	1, 1, -		_	_						•			
(170–173, 190–199)	443	-	6	8	14	14	16	33	85	106	103	58	
Male	225	-	5	5	6	12	10	15	45	58	48	21	
Female	218	_	1	3	8	2	6	18	40	48	55	37	
Leukemia			,	,		_	1	'	70	70	رر	31	
(204–208)	210	_		-	7		-	1				l	
	1	_	-	5	1	3	7	9	32	57	57	33	
Male	116	-	-	3	7	2	5	5	19	35	24	16	
Female	94	-	-	2	-	1	2	4	13	22	33	17	
Other Lymphatic and Hematopoietic Tissue								·				1 ''	
(200–203)	273	1	2	_	3	5	7	12	58	70	77.):		
	, , ,	· ·	_					13	-	79	74	31	
Male	147	-	1	-	2	3	5	10	36	40	39	11	
Female	126	1	1	_	1 1	2	2	3	22	39	35	20	

Cerebrovascular Disease: Cerebrovascular deaths claimed 1,805 lives in 1984, making cerebrovascular disease the third leading cause of death for the year (Table 14). The average age at death of persons dying from cerebrovascular diseases was 79.7 years in 1984. One form, acute but ill-defined causes, accounted for 60.1 percent of all cerebrovascular deaths. Other categories of the disease include occlusion of cerebral arteries and transient cerebral ischemia which caused 266 deaths and subarachnoid and intracerebral hemorrhage and other and unspecified intracranial hemorrhage which accounted for 219. Overall, the sex distribution of the victims was 39.2 percent males and 60.8 percent females.

<u>Selected Chronic Diseases</u>: The seven chronic diseases listed in Table 15 represented 2,174, or 9.8 percent of all deaths during 1984. Most victims of fatal chronic diseases were in the older age groups; 56.3 percent were persons 75 years or older.

Chronic obstructive pulmonary diseases and allied conditions which (with the exception of asthma) are causally related to smoking, claimed 933 lives and was the fifth leading cause of death in Kansas in 1984. Of the 363 deaths from diabetes mellitus 62.0 percent were female. Atherosclerosis, another of the most prevalent chronic diseases claimed 322 lives. Chronic liver disease and cirrhosis, a disease commonly linked with alcohol consumption, was more often fatal to men than to women. Over half (62.0 percent) of the 187 victims of chronic liver disease and cirrhosis were male and 38.0 percent were female.

Accidental Deaths: Deaths attributable to accidents in 1984 totaled 1,084, 4.9 percent of all deaths, making accidents the fourth-leading cause of death for the year. Types of accidents are outlined in Table 16 with the number of male and female victims and age groups.

Comparing the number of male and female accident victims in 1984, over two-thirds, (68.2 percent) were males and they outnumbered females in all age groups except those 85 years and over. The average age at death for accident victims was 45.0 years. Furthermore, the average age of men dying from accidental causes was 41.1, over twelve years younger than that of female victims whose average age was 53.4 years.

Motor-vehicle accidents, the most prevalent type of fatal accident, accounted for more than half (51.9 percent) of the total in 1984. Of the 563 motor-vehicle fatalities, 22.0 percent were to males in the 15-24 year age group.

Accidental falls claimed 155 lives which represented 14.3 percent of all accidental deaths in 1984. Over two-thirds (71.6 percent) of the victims were 75 years of age or more. Of the persons 75 years or greater who died as a result of an accident, 48.5 percent were fall victims.

Suicide and Homicide: Suicide and homicide and legal intervention ranked ninth and sixteenth respectively among the leading causes of death in 1984. The average age at death from suicide was 43.8 years; that of homicide and legal intervention was 35.0, clearly emphasizing the early age of persons dying from these unnatural causes. The Kansas suicide rate was 12.3 in 1984, 4.2 percent higher than the estimated 1984 national rate of 11.8. The distribution of suicide and homicide deaths in Figure 19 compares the age group and sex of victims.

Table 14 Cerebrovascular Disease Deaths by Age Group and Sex Kansas, 1984

		Age Group												
Cause of Death and Sex (ICD Code)	Total	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over		
Cerebrovascular Disease														
(430–438)	1,805	2	1	1	4	12	21	40	82	292	651	699		
Male	707	1	-	1	3	6	12	22	44	155	256	207		
FemaleSubarachnoid and Intracerebral	1,098	1	1	-	1	6	9	18	38	137	395	492		
Hemorrhage and Other and									50	131	393	492		
Unspecified Intracranial														
Hemorrhage														
(430–432)	010		İ								1			
Male	219	1	-	-	4	10	14	26	30	43	47	44		
Female	126	1	-	-	3	5	7	14	12	21	20	10		
Occlusion and Stenosis of	120	_	-	-	1	5	7	12	18	22	27	34		
Precerebral Arteries												,		
(433)	21													
Male	14	-	- ,	-	_	1	-	1	2	8	7	2		
Female	7	_	_	-	-	1	-	1	2	5	4	1		
Occlusion of Cerebral Arteries	[']	_	-	-	-	-	-	-	-	3	3	1		
and Transient Cerebral Ischemia	ļ i													
(434-435)	266		1											
Male	106	_	_	- 1	-	-	3	4	10	47	99	102		
Female	160	_	- 1 l	_	-	-	3	3	6	20	44	30		
Acute but Ill-defined			'	_	-	-	-	1	4	27	55	72		
Cerebrovascular Disease														
(436)	1,084	_]	_	1	_	1	١,			_				
Male	428	- 1	_	1	_	_	4	9	32	169	419	449		
Female	656	_	_		_	1	2 2	5	20	98	168	135		
Other and Ill-defined		1	i		-	'		5	12	71	251	314		
Cerebrovascular Disease]											
(437)	168	1	_ [_	_	_	_		_	4.0	<i>a</i> 1.			
Male	47	_		_	_	_			6	12	64	85		
Female	121	1	-	_		_		_	3 3	4 8	14	26		
Late Effects of		į					_	-	5	o	50	59		
Cerebrovascular Disease	1						1	1			ļ			
(438)	47	-	-	-	_	_	_	_	2	12	45	455		
Male	19	-	-	-		_	_	_	1	13	15	17		
Female	28	-	-		_ 1	_		_	1	7 6	6	5 12		

Table 15
Selected Chronic Disease Deaths by Age Group and Sex
Kansas, 1984

			Age Group									
Cause of Death and Sex (ICD Code)	Total	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
Total	2,174	2	1	3	5	13	39	77	258	552	702	522
Male	1,172	2	1	3	2	8	23	42	155	327	394	215
Female	1,002	-	_	-	3	5	16	35	103	225	308	307
Diabetes Mellitus										- 1.		
(250)	363	_	-	_	2	6	11	14	61	94	122	53
Male	138	-	_		1	3	5	5	29	36	41	18
Female	225	-	-	_	1	3	6	9	32	58	81	35
Hypertension without												
mention of Heart Disease			Į						_	1-	40	
(401, 403)	69	_	-		-	-	1	-	5	15	19	29
Male	27	-	-	_	-	-	1	-	3	7	9	7
Female	42	-	-	-	l -	-	-	-	2	8	10	22
Atherosclerosis									_		00	206
(440)	322	-	-	-	-	-	-	2	5	20	89	206
Male	105	_	-	-	-	-	-	_	3	13	36	53
Female	217	-	-	-	-	-	-	2	2	7	53	153
Chronic Obstructive			İ							ļ		
Pulmonary Diseases and												
Allied Conditions				}			_			200	220	407
(490–496)	933	_	-	2	3	1	5	27	108	328	332	127
Male	636	_	-	2	1	-	3	14	67	227	235	87
Female	297	_	-] -	2	1	2	13	41	101	97	40
Ulcer of Stomach and												
Duodenum							_				18	21
(531–533)	76	-	-	-	_	1	1	1	9	15	11	31 12
Male	37	-	_	-	-	l -	1	1	7	5	7	19
Female	39	-	-	-	-	1	-	_	2	10	/	19
Chronic Liver Disease	Į					1						
and Cirrhosis] _				1	1,	4.77	0.5		45	32	6
(571)	187	-	-	1	-	4	17	25	57 40	24	17	1
Male	116	-	-	1	-	4	10	19			17	5
Female	71	-	-	-	-	_	7	6	17	21	כי))
Nephritis, Nephrotic												
Syndrome and Nephrosis	1 .						4		12	35	90	70
(580-589)	224	2	1	-	_	1		8	13	15	45	37
Male	113	2	1	-	473	1	3	3 5	7	20	45	33
Female	111	-	-	_	-	_	1)	'	20	45	33

Table 16
Accidental Deaths by Age Group and Sex
Kansas, 1984

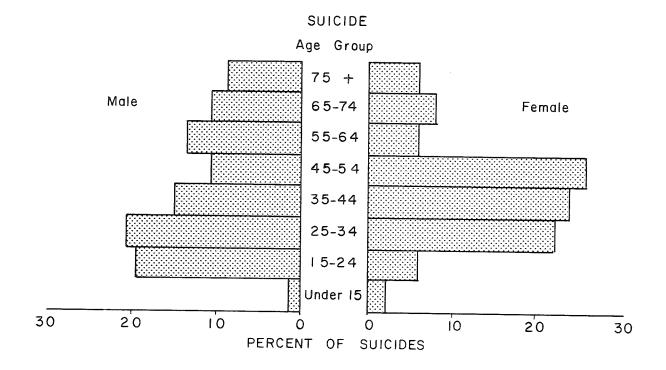
		Age Group										
			1	T	T		нде сгоир	,	T	·	-,	
Cause of Death and Sex (ICD Code)	Total	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
All Accidents												
(E800-E949)	1,084	14	29	62	227	179	87	85	75	97	119	110
Male	739	10	17	48	168	148	60	63	49	65	71	40
Female	345	4	12	14	59	31	27	22	26	32	48	70
All Motor-Vehicle Accidents			ļ						20	J2	40	10
(E810-E825)	563	2	12	42	175	123	56	45	34	36	28	10
Male	392	1	8	32	124	97	38	31	18	19	18	1
Female	171	1	4	10	51	26	18	14	16			6
Water Transport Accidents				''	٥,	20	'0	1 14	10	17	10	4
(E830-E838)	7 1	_	_	_	3	14						
Male	7	i _	_	l _	3	4	_	-	-	-	-	-
Female		_	_	İ	_	7	i -	_	-	-	-	_
Air and Space Transport	ĺ				-	_	_	-	-	-	-	-
Accidents						ļ			[]	
(E840-E845)	12	_	_	1	2						İ	ľ
Male	11	_	_	1	2	1	2	4	2	-	-	-
Female	1	_	_	'		1	1	4	2	-	-	_
Accidental Poisonings	i 'I	_	_	_		-	1	-	-	-	-	-
(E850-E869)	42				11	4.0						
Male	27	-	-	-	4	13	6	6	4	4	1	4
Female	15		-	-	2	10	4	3	3	3	_	2
Accidental Falls	ו כו	-	-	-	2	3	2	3	1	1	1	2
(E880-E888)	155											ļ
Male	155	-	-	-	2	4	2	6	10	20	51	60
Female	77	-	-	-	2	3	2	6	6	12	27	19
Accidents Caused by Fire	78	-	-	-	-	1	-	-	4	8	24	41
and Flames												
(E890-E899)	36	1	3	2	1	7	4	1	1	6	8	2
Male	22	-	1	1	-	6	3	1	1	4	5	_
Female	14	1	2	1	1	1	1	-	_	2	3	2
Accidents Due to Natural										<u> </u>	5	_
and Environmental Factors						.				ĺ		
(E900-E909)	22	-	1	-	1	-	5	1 1	2	4	Ц	4
Male	16	-	-	-	1	_	3	1	2	4	2	3
Female	6	-	1	- 1	-	-	2	_	_		2	1
Accidental Drowning and		1		Į.				ļ		·	۷.	
Submersion						1						
(E910)	36	-	4	4	7	8	2	5	2	1	2	4
Male	31	-	2	4	7	8	2	3	2	'		1
Female	5	_	2	- 1		_	_	2	-	1	2	1
Inhalation and Ingestion			ļ		ļ	İ		-	-	'	-	-
of Food Causing Obstruction	1	1		ĺ	l			l	1	Ì	İ	
or Suffocation	jį.	-	İ		ĺ		I				ļ	
(E911)	35	4	2	_ 1	3	3	1	,	_	_	,, l	
Male	21	3	2	_	-	3	. 1	3 2	5	3	4	
Female	14	1	_	_	3	<u> </u>	1		3	2	3	
					ے ا	-	'	1	2	1	1	

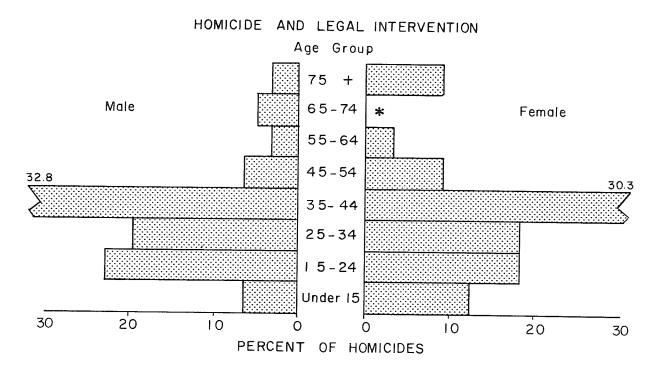
Table 16 (cont.)
Accidental Deaths by Age Group and Sex
Kansas, 1984

							Age Group					
Cause of Death and Sex (ICD Code)	Total	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
Accidents Caused by Machinery (E919)	20 20 - 18 18 - 138 97 41	- - - - - 7 6	2 2 5 2 3	1 1 - 1 1 -	2 2 - 6 6 - 21 19 2	6 6 6 6 -	2 2 - 1 1 -	2 2 2 2 -	2 2 - 1 1 -	2 2 - 1 1 - 20 18 2	1 1 - - - - 20 13	- - - - - - 22 6 16

Residence data.

SUICIDE AND HOMICIDE: PERCENT DISTRIBUTION BY AGE GROUP AND SEX





^{*}No homicide deaths occurred for females 65-74. Residence data.

Figure 19

Over four-fifths (83.4 percent) of the 302 suicide victims in 1984 were males. Male victims between 25 and 34 years of age accounted for 17.2 percent of all suicide deaths while men between 15 and 24 years of age ranked second (16.2 percent). The most prevalent age group for female suicide victims was the 45-54 year range, which accounted for 4.3 percent of all suicide deaths. The average age of male suicide victims was 43.8, while the average age of female victims was 43.9 years.

Figure 19 also illustrates the predominance of male homicide and legal intervention victims over female victims; nearly two-thirds (64.9 percent) of the 94 homicide victims in 1984 were male. Twenty-one (21.3) percent of the homicide deaths were men in the 35 to 44 age group and another 14.9 percent were in the 15 to 24 age group. Eleven (10.6) percent of the homicide victims were females in the 35-44 age group, and 6.4 percent were females between 15 and 24 years of age. The average age of male homicide victims in 1984 was 34.9 years; that of female victims was 35.3 years. The 1984 homicide and legal intervention rate for Kansas was 3.8, and was 54.2 percent lower than the estimated United States rate of 8.3.

Non-underlying Causes: The ten leading underlying causes of death are listed in Table 17 along with the number of times each of these specific underlying causes of death was mentioned as a non-underlying (contributing) cause of death. The same cause cannot appear both as an underlying and non-underlying cause; therefore, all of the diagonal cells of the table are blank. Each non-underlying cause is counted only once in the same column but the same death may be counted in more than one column.

In Kansas, in 1984, heart disease accounted for a total of 8,399 underlying causes and 680, or 8.1 percent of these deaths listed cerebrovascular disease as a non-underlying cause. Cancer accounted for a total 4,521 underlying causes and 1,009, or 22.3 percent of these deaths listed heart disease as a non-underlying cause. Only 322 deaths were attributed to atherosclerosis in 1984; yet 1,194 of the leading underlying causes listed atherosclerosis as a contributing factor.

Occupation and Industry of Decedent: In 1983, the Kansas Department of Health and Environment began using the Classified Index of Industries and Occupations developed by the U.S. Department of Commerce for categorizing such data. The occupations of decedents for selected causes of death are presented in Table 18.

More than 6,500 Kansas housewives died in 1984 representing 30.5 percent of the total deaths. Persons employed in managerial and professional specialty occupations comprised 12.7 percent of deaths and another 12.4 percent worked in technical, sales and administrative support occupations. Sixteen percent of accident victims, 29.8 percent of deaths due to homicide and legal intervention and nearly one-fifth (19.9 percent) of those who committed suicide were operators, fabricators and laborers.

The agriculture, forestry and fisheries industry employed the highest percentage (12.0) of 1984 Kansas decedents. Another 9.5 and 9.3 percent, respectively, worked in professional services and manufacturing. The dominant industry for deaths due to suicide, chronic liver disease and cirrhosis and homicide and legal intervention was construction. Type of industry by selected causes of death is shown in Table 19.

Table 17
Ten Leading Causes of Death^a
Underlying Cause by Non-underlying Cause
Kansas, 1984

						Non-und	erlying Causes	s of Death	/			
Leading Underlying Causes of Death (ICD Code)	Total	Total	Heart Disease	Malignant Neoplasms	Cerebrovascular Disease	Accidents	Chronic Obstructive Pulmonary Diseases	Pneumonia and Influenza	Diabetes Mellitus	Atherosclerosis	Suicide	Nephritis, Nephrotic Syndrome and Nephrosis
Leading Causes	18,727	9,761	2,887	529	981	468	871	1,151	900	1,194	-	780
Heart Disease (390-398,402,404-429).	8,399	3,582	-	307	680	225	492	370	542	644	-	322
Malignant Neoplasms (140-208)	4,521	2,146	1,009	_	110	118	232	318	106	36	_	217
Cerebrovascular Disease (430-438)	1,805	1,433	476	49	-	63	51	199	146	404	_	45
Accidents (E800-E949)	1,084	274	176	14	21	-	18	13	10	9	_	13
Chronic Obstructive Pulmonary Diseases (490-496)	933	772	414	60	40	25	-	172	23	9	-	29
Pneumonia and Influenza (480-487)	774	554	264	54	60	11	45	-	39	37	_	ង ង
Diabetes Mellitus (250)	363	482	247	13	53	15	10	27	-	48	-	69
Atherosclerosis (440)	322	276	156	10	-	6	8	34	21	-	-	41
Suicide (E950-E959)	302	27	8	11	_	1	5	1	1	_	_	-
Nephritis, Nephrotic Syndrome and Nephrosis (580-589)	224	215	137	11	17	4	10	17	12	7	***	-

 $[\]frac{a}{b}$ /This table represents only 84.4 percent of the total 22,184 resident deaths in 1984. Non-underlying causes represent the frequency with which these causes are mentioned on the death certificate as other than the underlying cause of death.

Table 18 Occupation of Decedent by Selected Causes of Death Kansas, 1984

						Selec	ted Cause o	of Death				
Occupation of Decedent	Total	Heart Disease	Malignant Neoplasms	Cerebro- vascular Disease	Accidents	Athero- sclerosis	Suicide	Chronic Liver Disease and Cirrhosis	Homicide and Legal Intervention	Ulcer of Stomach and Duodenum	Hyper- tension	All Other Causes
Total	22,184	8,399	4,521	1,805	1,084	322	302	187	94	76	69	5,325
Housewives	6,757	2,841	1,186	723	155	151	17	45	9	25	29	1,576
Managerial and Professional Specialty	2,817	1,107	674	218	95	41	39	19	ī†	6	7	607
Technical, Sales and Administrative Support		1,046	633	220	124	37	45	29	7	11	12	585
Farming, Forestry and Fishing	2,616	1,080	524	223	104	42	25	14	1	10	8	585
Operators, Fabricators and Laborers	2,334	817	517	137	173	15	60	33	28	10	5	539
Precision Production, Craft and Repair	2,158	795	514	137	129	20	55	22	13	8	2	463
Service Workers	1,261	430	286	94	64	11	18	13	12	4	5	324
Students	219	4	27		129	_	19	1	6	_	-	29
No Occupation	392	50	26	10	36	2	10	3	4	1	-	250
Children Under 5 Years	298	13	9	2	34	-	_	_	5	_	_	235
Other and Not Stated	583	216	125	37	41	3	14	8	5	1	1	132

Residence data.

Table 19 Type of Industry by Selected Causes of Death Kansas, 1984

						Selec	ted Cause	of Death				
Type of Industry	Total	Heart Disease	Malignant Neoplasms	Cerebro- vascular Disease	Accidents	Athero- sclerosis	Suicide	Chronic Liver Disease and Cirrhosis	Homicide and Legal Intervention	Ulcer of Stomach and Duodenum	Hyper- tension	All Other Causes
Total	22,184	8,399	4,521	1,805	1,084	322	302	187	94	76	69	5,325
Agriculture, Forestry and Fisheries	2,666	1,102	530	231	107	4 4	26	13	1	9	8	595
Professional Services	2,116	810	507	202	72	30	25	10	3	7	3	447
Manufacturing	2,065	772	549	127	127	17	35	15	11	5	4	403
Retail Trade	1,665	613	356	125	86	25	26	12	8	7	9	398
Transportation, Communications and Public												
Utilities	1,627	625	336	111	73	14	30	18	7	7	5	401
Construction	1,193	417	273	64	84	12	41	21	15	2	2	262
Public Administration	576	219	133	41	24	2	11	6	3	-	-	137
Finance, Insurance and Real Estate	510	180	136	35	23	3	7	7	1	4	1	113
Business and Repair Services.	455	148	114	29	30	4	18	9	6	2	1	94
Personal Services	487	187	90	36	11	7	5	6	8	2	2	133
Wholesale Trade.	416	179	89	24	26	4	10	7	1	1	2	73
Mining	335	118	71	15	39	6	10	5	-	3	-	68
Entertainment and Recreation Services	85	26	19	6	5	1	1	1	_		2	24
Other and N.S.*	7,988	3,003	1,318	759	377	153	57	57	30	27	30	2,177

 $^{{}^*\}mathrm{This}$ category includes housewives, students, children and those who were never employed. Residence Data.

MARRIAGE AND DIVORCE RATES KANSAS, 1927 - 1984

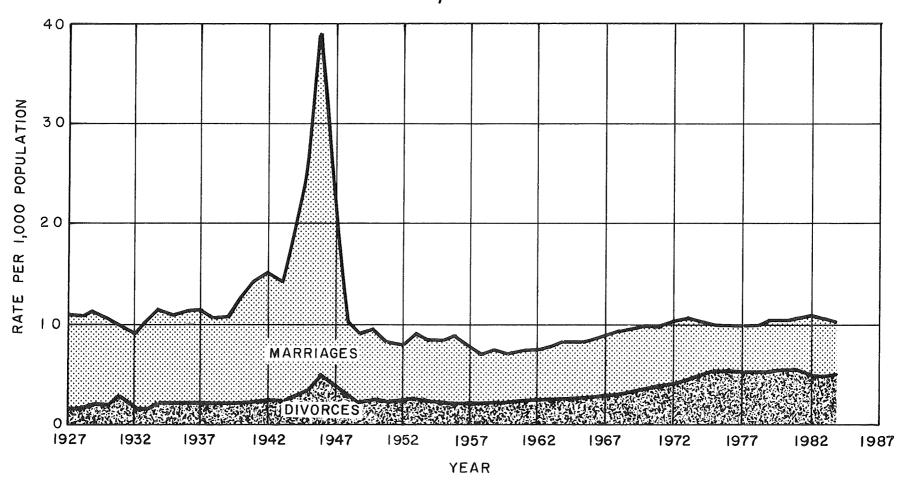


Figure 20

MARRIAGES

In 1984, there were 24,737 marriages performed in Kansas, a decrease of 4.4 percent from the 1983 total of 25,877. Twenty-one (21.2) percent of the persons who exchanged vows in Kansas in 1984 were residents of other states while 78.8 percent were Kansas residents. However, the data presented in this summary refer to all marriages which occurred in the State. The greatest number of marriages (4,440) occurred in Sedgwick County, but Geary County had the highest marriage rate (25.1) per 1,000 population in 1984. (The number of marriages performed in each county and corresponding marriage rates appear in Appendix Table 36.)

Trends

In 1946, after World War II, marriage rates in Kansas reached a record high of 38.8 per thousand population as outlined in Figure 20. After falling sharply in the late 1940s and during the Korean War in the early 1950s, the rates dipped slightly between 1955 and 1960. In 1961 when the rate was 7.6 per 1,000 population, marriage rates in Kansas began to rise again. Upon reaching 10.0 in 1970, the rates stabilized between 10.0 and 10.9 from 1970 to 1981. In 1983 the Kansas marriage rate was 10.7 and in 1984 it dropped to 10.1 which was 3.8 percent lower than the estimated national rate of 10.5.

Nuptial Age

As illustrated in Figure 21, the highest percentage of those who married in 1984 were between 20 and 24 years of age. Nearly thirty-seven (36.9) percent of the brides and 36.7 percent of the grooms were in that age group. A decade ago, 42.5 percent of all Kansas brides were 20 years of age or younger while 23.6 percent of grooms were of that age group. Over one-fourth (27.3 percent) of brides and only 13.8 percent of grooms were 20 years or younger in 1984. In 1974, brides and grooms averaged 24.8 and 27.2 years, respectively. The average age of all brides in 1984 was 27.0 and that of grooms was 29.6. Women marrying for the first time averaged 22.2 years of age while first-time grooms averaged 24.4 years. Of those persons who remarried during 1984, women were, on the average 34.6 years old and men were 38.2 years of age. The number of brides and grooms by age group in 1984 is shown in Table 20. The most common age combination was 21-year-old brides and 22-year-old grooms.

Race

Most of the marriages (96.6 percent) performed in Kansas in 1984 were between partners of the same race. Of the 847 interracial marriages, over one-third (36.7 percent) were between whites and blacks and 32.7 percent were between whites and Indians. The most prevalent interracial marriage (250) was between white women and black men. While marriages in Kansas have increased a mere 1.0 percent in the last ten years, the number of interracial marriages has increased 61.3 percent since 1974. The white-Indian racial combination was most common in 1974, accounting for 37.0 percent of the 525 interracial marriages compared to 34.3 percent for marriages between blacks and whites.

MARRIAGES: PERCENT DISTRIBUTION BY AGE GROUP KANSAS, 1984

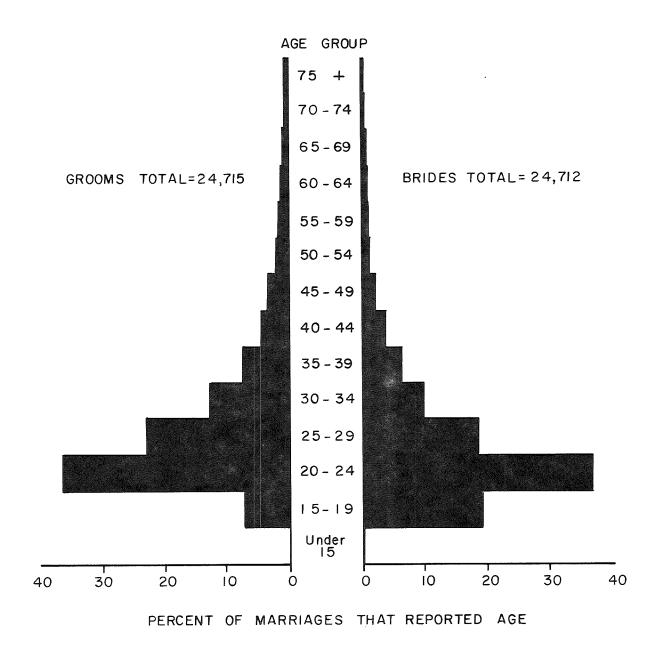


Figure 21

Table 20 Marriages by Age Group of Groom, by Age Group of Bride Kansas, 1984

								Age (roup of	Bride						
Age Group of Groom	Total	Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & Over	Not Stated
Total	24,737	13	4,673	9,114	4,592	2,499	1,448	846	496	293	234	194	160	93	57	25
Under 15 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59	1,756 9,064 5,623 3,028 1,879 1,092 725 448 322	4 2 -	1 1,310 2,749 475 89 35 4 3 1	3 379 5,233 2,481 674 234 66 24 8	42 825 1,932 1,104 463 137 54 27	- 13 181 550 831 529 246 84 35 20	1 50 142 253 439 308 171 51 24	- 14 25 60 130 231 195 99 50	- 1 2 9 12 36 74 123 119 59	- 1 - 2 4 6 15 49 68 61	- - - 2 8 14 26 67	- 1 1 1 1 2 6 12 26	- - - 1 2 1 4	- 1 - - - 1	- - - - - 1	- 2 4 - 4 - 1 1
60-64 65-69 70-74 75 & Over Not Stated	279 202 152 141 22	- - - -	- - - - 4	1 2 - 7	2 - 1 - 1	6 2 - - 2	3 2 4 -	27 12 2 1	38 16 4 3	52 20 9 6	63 33 13 7	45 53 33 13	36 42 43 31	4 16 27 44 -	2 3 15 36 -	1 1 - 7

Premarital Status

Marriages where neither party had been previously married accounted for 12,516 or 50.6 percent of all marriages. More specifically, 61.2 percent of brides and 62.1 percent of grooms had never been married, compared with 70.1 and 70.2 percent respectively for brides and grooms in 1974. Most of those remarrying (89.5 percent) in 1984 had been divorced. More than one-third of brides and grooms were divorced (34.1 and 33.8 percent, respectively) while only about one-fourth of persons marrying ten years ago had been divorced. Of those who remarried in 1984, 9.2 percent were widowed and 1.3 percent had obtained annulments. Shown in Table 21 is the number of brides and grooms in 1984 by their premarital status.

Table 21
Marriages by Premarital Status of Bride and Groom
Kansas, 1984

			Premari	tal Status of	Bride	
Premarital Status of Groom	Total	Never Married	Divorced	Annulled	Widowed	Not Stated
Total	24,737	15,147	8,442	128	911	109
Never Married Divorced Annulled Widowed Not Stated	15,370 8,364 118 812 73	12,516 2,489 57 71 14	2,660 5,412 44 304 22	58 52 10 7 1	91 378 7 429 6	45 33 - 1 30

<u>Seasonality</u>

June accounted for 3,455 or 14.0 percent of the marriages performed in Kansas in 1984. August was the second most popular month and accounted for 10.1 percent of the 1984 marriages. The distribution of marriages by month of ceremony is presented below.

Marriages: Number and Percent by Month

	Number	Percent
Total	24,737	100.0
January February March April May June July August	1,300 1,402 1,658 1,715 2,451 3,455 2,277 2,509	5.3 5.7 6.7 6.9 9.9 14.0 9.2 10.1
September October November December	2,254 1,861 1,825 2,030	9.1 7.5 7.4 8.2

DIVORCES AND ANNULMENTS

DIVORCES: PERCENT DISTRIBUTION BY AGE GROUP KANSAS, 1984

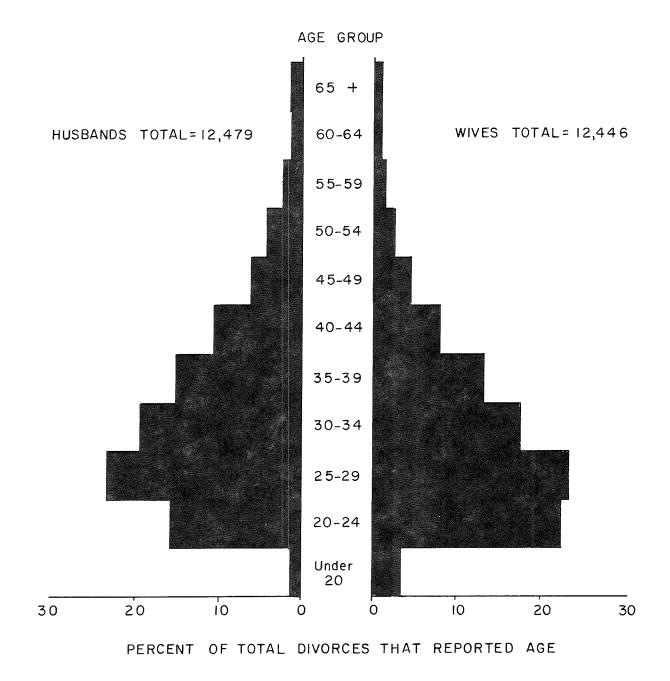


Figure 22

DIVORCES AND ANNULMENTS

There were 12,905 marriage dissolutions in Kansas in 1984, an increase of 5.7 percent over the 12,207 granted in 1983. The number of divorces increased from 11,954 in 1983 to 12,655 in 1984 while the number of annulments decreased from 253 in 1983 to 250 in 1984.

Whereas a divorce is the dissolution of a legally binding marriage contract, an annulment voids the marriage contract of an invalid marriage. It is therefore as expected that annulments represent a minor portion of all marriage dissolutions in Kansas (1.9 percent in 1984). In many cases annulments have been grouped with divorces for purposes of presentation in this summary. (The total divorces and annulments in each county from 1980 through 1984 are shown by number and rate in Appendix Table 37.)

Trends

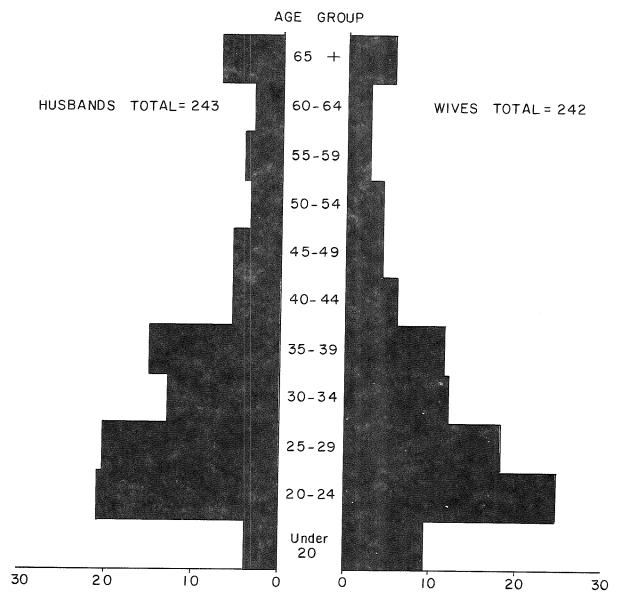
Prior to and during World War II the divorce rates remained relatively stable as shown in Figure 20. In 1946 however, the divorce rate reached a peak of 5.0 per 1,000 population. Following this increase the divorce rates stabilized along the average annual rate of 2.5 per 1,000 population from 1949 to 1966. Since that time, the divorce rate has generally increased, reaching a high of 5.6 in 1980 and 1981 and then decreasing in 1983 to a rate of 4.9. In 1984, the divorce rate increased to 5.2 per thousand population. The Kansas divorce and annulment rate in 1984 was 5.3, a figure that is 8.2 percent greater than the estimated national rate of 4.9.

The number of annulments increased from 65 in 1952 to 253 in 1983. The annulment rate per thousand population fluctuated very little remaining between 0.03 and 0.12 during that time period. In 1984, the annulment rate decreased to 0.10.

Ages of Spouses

As shown in Figure 22, the most common age group involved in divorces was 25 to 29 years with the incidence decreasing with the older age groups. This age group accounted for 23.4 percent and 23.6 percent of all newly divorced men and women respectively. The average age of husbands who were divorced was 34.3 and that of wives was 31.8.

The ages between 20 and 24 were the most prevalent ages during which annulments were granted to husbands and wives in 1984. The average age of wives of annulled marriages was 33.3 while that of husbands was 35.8. Illustrated in Figure 23 is the percent distribution of annulments by husbands' and wives' ages.



PERCENT OF TOTAL ANNULMENTS THAT REPORTED AGE

Figure 23

Duration of Marriage

Over half (55.9 percent) of the marriages dissolved in 1984 were terminated before the sixth year of marriage as outlined in Table 22. Marriages ending in divorce lasted an average of 7.9 years, 18.6 percent shorter than the average duration (9.7 years) of marriages ended by divorce in 1964. Couples who received annulments had been married an average of 1.6 years and nearly two-thirds (64.3 percent) of annulments were granted during the first year of marriage.

Table 22
Divorces and Annulments
By Duration of Marriage in Years
Kansas, 1984

Duration of	Total Divorces and	Divorces	Annulments
Marriage	Annulments	Divorces	Amuments
Total	12,905	12,655	250
Under 1 year	994	834	160
1 year	1,559	1,519	40
2 years	1,480	1,459	21
3 years	1,212	1,198	14
4 years	1,172	1,166	6
	796	796	_
5 years	770		
6	670	669	1
6 years	564	562	2
7 years	491	491	_
8 years	432	430	2
9 years	363	362	1
10 years	707]	
11 years	360	360	_
12 years	315	315	_
	287	287	_
13 years	243	243	_
14 years	208	208	_
15 years	200		
16 years	184	184	_
17 years	153	153	_
18 years	158	158	_
19 years	140	139	1
20-24 years	531	531	_
20-24 years			
25-29 years	294	294	-
30-34 years	125	125	_
35-39 years	103	103	-
40 years & Over	46	45	1
Not Stated	25	24	1
101 514164		<u> </u>	<u>L </u>

Number of Minor Children

As shown in Table 23, 13,781 minor children were involved in the 12,905 divorces and annulments in 1984, an increase of 68.7 percent over the 8,168 children affected by divorces and annulments twenty years ago. At least one minor child was reported in over half (58.3 percent) of the marriages ending in divorce. Two percent (2.4) of the annulments involved minor children.

Table 23
Divorces and Annulments by Number and Percent
By Number of Minor Children
Kansas, 1984

Number of Minor	Divo	rces	Annul	ments	Total Children
Children Reported	Number	Percent	Number	Percent	Number*
Total	12,655	100.0	250	100.0	13,781
None 1 2 3 4 or More Not Stated	5,275 3,025 2,734 1,025 473 123	42.1 24.1 21.8 8.2 3.8 n/a	241 4 2 - - 3	97.6 1.6 .8 - - n/a	3,029 5,472 3,075 2,205 n/a

Occurrence data.

Race

Nearly all (97.3 percent) of the divorces and annulments in 1984 were granted to partners of the same race. Ninety-two (92.1) percent were granted to white couples, 4.9 percent to black couples, 0.3 percent to other nonwhite couples of the same race and 2.7 percent to partners of different races.

^{*}This represents the number of children reported in marriages ending in divorce or annulment.

Kansas, 1984

		T	.		
Vital Statistic	Kansas	HSA I	HSA II	HSA III	HSA IV
Population Population Density	2,450,619	428,069 9.3	616,256 38.2	882,626 47.7	523,668 480.4
Live Births Birth Rate Premature Births Premature Birth Ratio. Out-of-Wedlock Births Out-of-Wedlock Birth Ratio	39,954	7,355	9,799	14,522	8,278
	16.3	17.2	15.9	16.5	15.8
	2,425	385	565	913	562
	6.1	5.2	5.8	6.3	6.8
	5,501	774	1,169	2,146	1,412
Reported Induced Abortions* Abortion Ratio Fetal Deaths Fetal Death Rate Hebdomadal Deaths Perinatal Deaths Infant Deaths Maternal Deaths	5,319 133.1 278 6.9 200 478 392 4	478 65.0 47 6.3 35 82 78	1,627 166.0 73 7.4 47 120 91 2	1,405 96.7 106 7.2 70 176 136 2	1,789 216.1 52 6.2 48 100 87
Deaths (Total) Death Rate	22,184	4,455	5,406	8,560	3,763
	9.1	10.4	8.8	9.7	7.2
Marriages Marriage Rate	24,737	4,477	6,260	8,992	5,008
	10.1	10.5	10.2	10.2	9.6
Divorces and Annulments. Divorce and Annulment Rate	12,905	2,172	3,025	5,295	2,413
	5.3	5.1	4.9	6.0	4.6

^{*}Twenty abortions by county of residence unknown.
Residence data are presented for births, deaths and abortions.
Occurrence data are presented for marriages, divorces and annulments.

HEALTH SERVICE AREAS* KANSAS

HSA I

HSA II

HSA III

CHEYENNI	E RAW	LINS	DECATUR	NORTON	PHILLIPS	SMITH	JEWELL	REPUBLIC	WASHINGTON	MARSHALL	NEMAHA	BROW	DONIE	PHAN
								CLOUD			Liac	KSON	CHISON	, k
SHERMAN	1 THO	MAS	SHERIDAN	GRAHAM	ROOKS	OSBORNE	MITCHELL		CLAY RIL	POTTAWAT		JE	FFER SON	A PACE HE
WALLACE	LOGA	ı l	GOVE	TREGO	ELLIS	RUSSELL	LINCOLN	OTTAWA	DICKIN- GE	ARY WAB	7	WNEE	~ \	
							ELLSWORTH	SALINE		MORRIS WAS	AUNSEE	SAGE		JOHNSON
GREELEY	WICHITA	SCOTT	LANE	NESS	RUSH	BARTON		McPHERSON	MARION	•	LYON		FRANKLIN	MIAMI
					PAWNEE		RICE			CHASE	d	OFFEY	ANDER- SON	LINN
HAMILTON	KEARNY	FINNE	1	HODGEMAN			RENO	HARV	/EY BUTLI	ER GREE	ENWOOD	OODSON	ALLEN	BOURBON
ļ	Ι		GRAY	FORD	EDWARDS	STAFFORD		SEDG	WICK					
STANTON	GRANT	HASKEL	L	:	KIOWA	PRAII	KINGMAN			ELK		VILSON	NEOSHO	CRAWFORD
MORTON	STEVENS	SEWAR	MEADE	CLAŔK	COMANCHE	BARBER	HARPER	SUMNE	R COWL	İ	N AUQUAT(MONT- SOMERY	LABETTI	CHEROKEE
										100				

NOTE:

HSA IV includes Cass, Clay, Jackson, Platte and Ray counties in Missouri. *Current Health Service Area alignment was effective April II, 1977.

Table 25 Selected Causes of Death by Health Service Area Kansas, 1984

	Kans	sas	HSA	I	HSA	II	HSA	III	HSA	IV
Cause of Death (ICD Code)	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
All Causes	22,184	905.2	4,455	1040.7	5,406	877.2	8,560	969.8	3,763	718.6
Tuberculosis (010-018)	9	0.4	2	0.5	2	0.3	3	0.3	2	0.4
(038)	158	6.4	30	7.0	30	4.9	54	6.1	44	8.4
Malignant Neoplasms (140-208) Diabetes Mellitus	4,521	184.5	882	206.0	1,076	174.6	1,756	199.0	807	154.1
(250)	363	14.8	76	17.8	92	14.9	139	15.7	56	10.7
(390-398, 402, 404-429)	8,399	342.7	1,696	396.2	1,977	320.8	3,367	381.5	1,359	259.5
Hypertension (401, 403)	69	2.8	12	2.8	18	2.9	26	2.9	13	2.5
Cerebrovascular Disease (430-438)	1,805	73.7	350	81.8	465	75.5	720	81.6	270	51.6
Atherosclerosis (440)	322	13.1	88	20.6	110	17.8	99	11.2	25	4.8
Pneumonia and Influenza (480-487)	774	31.6	161	37.6	226	36.7	267	30.3	120	22.9
Chronic Obstructive Pulmonary Diseases and Allied Conditions (490-496)	933	38.1	187	43.7	247	40.1	336	38.1	163	31.1
Ulcer of Stomach and Duodenum (531-533)	76	3.1	19	4.4	19	3.1	30	3.4	8	1.5
Chronic Liver Disease and Cirrhosis (571)	187	7.6	30	7.0	43	7.0	79	9.0	35	6.7
Nephritis, Nephrotic Syndrome and Nephrosis (580-589)	224	9.1	51	11.9	47	7.6	94	10.7	32	6.1
Congenital Anomalies (740-759) Certain Conditions Originating in	155	6.3	30	7.0	32	5.2	55	6.2	38	7.3
the Perinatal Period (760-779)	160	6.5	28	6.5	41	6.7	60	6.8	31	5.9
Motor-Vehicle Accidents (E810-E825)	563	23.0	136	31.8	133	21.6	202	22.9	92	17.6
Nonmotor-Vehicle Accidents (E800-E807, E826-E949)	521	21.3	102	23.8	138	22.4	195	22.1	86	16.4
Suicide (E950-E959)	302	12.3	66	15.4	61	9.9	100	11.3	75	14.3
Homicide and Legal Intervention (E960-E978)	94	3.8	12	2.8	22	3.6	28	3.2	32	6.1
All Other Causes (residual)	2,549	104.0	497	116.1	627	101.7	950	107.6	475	90.7

Residence data.

Table 26 Population by County Kansas, 1980-1984

County of		4116.411	Year		
Residence	1980	1981	1982	1983	1984
Kansas	2,363,208	2,389,202	2,408,781	2,429,245	2,450,619
Allen	15,654	16,100	16,278	16,472	16,684
Anderson	8,749	8,761	8,829	8,903	8,985
AtchisonBarber	18,397	17,945	17,899	17,862	17,833
Barton	6,548 31,343	6,534 31,943	6,549 32,188	6,575 32,457	6,612 32,750
Bourbon	15,969	16,222	16,402	16,599	16,811
Brown	11,955	12,053	12,211	12,389	12,587
Butler	44,782	45,886	47,089	48,370	49,728
Chase	3,309	3,314	3,289	3,263	3,238
Chautauqua	5,016	4,974	5,096	5,234	5,388
Cherokee	22,304	22,181	22,337	22,507	22,693
Cheyenne	3,678	3,727	3,664	3,599	3,533
Clark	2,599	2,622	2,589	2,555	2,521
Clay	9,802	10,008	10,048	10,095	10,147
Cloud	12,494	12,521	12,433	12,344	12,256
Coffey	9,370	9,599	9,999	10,430	10,892
Comanche	2,554	2,539	2,508	2,477	2,446
Cowley	36,824	36,748	37,368	38,051	38,795
Crawford	37,916	37,728	37,806	37,888	37,975
Decatur	4,509	4,623	4,573	4,523	4,473
Dickinson	20,175	20,353	20,307	20,261	20,215
Doniphan	9,268	9,199	9,242	9,290	9,344
Douglas	67,640	67,644	68,183	68,667	69,096
Edwards	4,271	4,348	4,313	4,278	4,243
Elk	3,918	4,054	4,147	4,252	4,370
Ellis	26,098	26,781	26,856	26,913	26,954
Ellsworth	6,640	6,680	6,830	6,998	7,183
Finney	23,825	24,462	24,882	25,303	25,723
Ford	24,315 21,813	24,530	24,702	24,875	25,048
I I dill'IIII	21,015	21,826	22,137	22,466	22,814
Geary	29,852	30,189	30,245	30,301	30,357
Gove	3,726	3,843	3,830	3,818	3,805
GrahamGrant	3,995	4,058	3,987	3,916	3,845
Gray	6,977 5,138	7,379 5,260	7,484 5,307	7,589 5,355	7,694 5,403
·		Í			, -
Greeley	1,845	1,890	1,910	1,932	1,958
Hamilton	8,764 2,514	8,480 2,718	8,369	8,258	8,147
Harper	7,778	7,960	2,699 8,055	2,680 8,164	2,661 8,289
Harvey	30,531	30,862	31,317	31,791	32,285
Haskell	3.814	4,146	11 120	11 400	11 400
Hodgeman	2,269	2,359	4,138 2,324	4,123 2,288	4,103 2,253
Jackson	11,644	11,853	11,940	12,027	2,253 12,114
Jefferson	15,207	15,770	16,270	16,796	17,348
Jewell	5,241	5,242	5,153	5,065	4,976
Johnson	270,269	278,863	285,074	291,284	297,495
Kearny	3,435	3,544	3,571	3,598	3,625
Kingman	8,960	9,065	9,138	9,221	9,314
Kiowa	4,046	3,918	3,891	3,864	3,837
Labette	25,682	25,843	26,025	26,227	26,451
Lane	2,472	2,522	2,498	2,474	2,449
Leavenworth	54,809	54,919	54,809	54,661	54,475
Lincoln	4,145	4,147	4,086	4,025	3,964
Linn	8,234	8,351	8,367	8,382	8,397
Logan	3,478	3,583	3,561	3,539	3,517

Table 26 (cont.)
Population by County
Kansas, 1980-1984

			Year		
County of Residence	1980	1981	1982	1983	1984
Lyon Marion Marshall McPherson	35,108	35,358	35,746	36,134	36,522
	13,522	13,454	13,446	13,444	13,450
	12,720	12,596	12,475	12,354	12,233
	26,855	27,138	27,493	27,868	28,263
Meade	4,788	4,833	4,807 21,743	4,781 21,854	4,755 21,966
Miami Mitchell Montgomery Morris Morton	8,117	8,252	8,358	8,477	8,608
	42,281	42,433	43,211	44,071	45,014
	6,419	6,435	6,400	6,364	6,329
	3,454	3,537	3,525	3,511	3,495
Nemaha	11,211	11,064	10,984	10,903	10,823
Neosho	18,967	19,014	19,125	19,249	19,385
Ness	4,498	4,456	4,412	4,369	4,325
Norton	6,689	6,575	6,526	6,480	6,435
Osage	15,319	15,424	15,706	16,003	16,315
Osborne Ottawa Pawnee Phillips Pottawatomie	5,959	5,829	5,759	5,689	5,619
	5,971	6,071	6,042	6,013	5,983
	8,065	7,934	7,835	7,735	7,636
	7,406	7,499	7,444	7,389	7,334
	14,782	15,269	15,805	16,376	16,981
PrattRawlinsRenoRepublicRice	10,275	10,468	10,648	10,851	11,079
	4,105	3,947	3,891	3,835	3,779
	64,983	65,479	66,105	66,762	67,447
	7,569	7,497	7,431	7,369	7,311
	11,900	11,685	11,594	11,503	11,412
Riley Rooks Rush Russell Saline	63,505	65,530	65,808	66,007	66,129
	7,006	6,600	6,468	6,335	6,203
	4,516	4,492	4,418	4,343	4,268
	8,868	8,438	8,316	8,194	8,072
	48,905	50,814	51,607	52,488	53,457
Scott	5,782	6,021	6,040	6,057	6,073
	366,531	364,973	368,496	372,251	376,238
	17,071	17,449	17,672	17,910	18,160
	154,916	158,553	159,221	159,889	160,557
	3,544	3,725	3,700	3,676	3,652
ShermanSmithStaffordStantonStevens	7,759	7,846	7,765	7,672	7,567
	5,947	6,046	5,966	5,886	5,807
	5,539	5,596	5,521	5,446	5,372
	2,339	2,542	2,544	2,544	2,543
	4,736	4,996	5,098	5,207	5,323
Sumner Thomas Trego Wabaunsee Wallace	24,928	25,200	25,606	26,050	26,532
	8,451	8,532	8,596	8,660	8,725
	4,165	4,113	4,057	4,000	3,943
	6,867	6,864	6,882	6,900	6,917
	2,045	2,048	2,015	1,979	1,940
Washington Wichita Wilson Woodson Wyandotte	8,543	8,416	8,316	8,216	8,117
	3,041	3,078	2,986	2,884	2,773
	12,128	12,468	12,759	13,079	13,428
	4,600	4,432	4,457	4,488	4,527
	172,335	173,882	173,154	172,426	171,698

Sources: Kansas Department of Health and Environment (1979, 1981-1984) United States Bureau of the Census (1980)

Table 27
Live Births by Number and Rate
By County of Residence
Kansas, 1980-1984

	Year									
0	198	30	198	31	198	32	198	13	198	34
County of Residence	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Kansas	40,686	17.2	41,202	17.2	40,757	16.9	40,365	16.6	39,954	16.3
Allen	273	17.4	239	14.8	242	14.9	252	15.3	268	16.1
Anderson	147	16.8	137	15.6	158	17.9	130	14.6	121	13.5
Atchison	270	14.7	305	17.0	268	15.0	253	14.2	272	15.3
Barber	106 544	16.2 17.4	134 619	20.5 19.4	121 646	18.5	123	18.7	116	17.5
Dar coll	244	17.4	019	19.4	040	20.1	595	18.3	642	19.6
Bourbon	259	16.2	230	14.2	262	16.0	286	17.2	249	14.8
Brown	188	15.7	183	15.2	197	16.1	196	15.8	168	13.3
Butler	753	16.8	752	16.4	748	15.9	693	14.3	712	14.3
Chase	44	13.3	48	14.5	47	14.3	48	14.7	49	15.1
Chautauqua	63	12.6	68	13.7	73	14.3	75	14.3	70	13.0
Cherokee	306	13.7	310	14.0	299	13.4	290	12.9	307	13.5
Cheyenne	44	12.0	52	14.0	51	13.9	56	15.6	47	13.3
Clark	30	11.5	33	12.6	39	15.1	30	11.7	40	15.9
Clay	145	14.8	127	12.7	141	14.0	145	14.4	130	12.8
Cloud	177	14.2	186	14.9	162	13.0	185	15.0	186	15.2
Coffey	161	17.2	144	15.0	143	14.3	150	14.4	143	13.1
Comanche	39	15.3	33	13.0	34	13.6	38	15.3	31	12.7
Cowley	599 599	16.3	588	16.0	584 584	15.6	556	14.6	571	14.7
Crawford	538	14.2	546	14.5	544 544	14.4	557	14.0	529	13.9
Decatur	60	13.3	83	18.0	72	15.7	69	15.3	66	14.8
Dickinson	251	12.4	271	12.2	286	14.1	070		054	
Doniphan	181	19.5	145	13.3 15.8	200 142		270	13.3	251	12.4
Douglas			1 -			15.4	124	13.3	128	13.7
Edwards	964	14.3	1,030	15.2	948	13.9	934	13.6	977	14.1
	61	14.3	65	14.9	66	15.3	49	11.5	62	14.6
Elk	36	9.2	48	11.8	46	11.1	36	8.5	40	9.2
Ellis	480	18.4	503	18.8	500	18.6	464	17.2	491	18.2
Ellsworth	101	15.2	85	12.7	93	13.6	97	13.9	86	12.0
Finney	590	24.8	577	23.6	685	27.5	784	31.0	739	28.7
Ford	509	20.9	517	21.1	528	21.4	556	22.4	518	20.7
Franklin	325	14.9	325	14.9	339	15.3	351	15.6	331	14.5
Geary	1,272	42.6	1,372	45.4	1,311	43.3	1,275	42.1	1,247	41.1
Gove	60	16.1	64	16.7	67	17.5	59	15.5	64	16.8
Graham	58	14.5	70	17.2	82	20.6	71	18.1	66	17.2
Grant	180	25.8	152	20.6	149	19.9	177	23.3	136	17.7
Gray	100	19.5	110	20.9	103	19.4	109	20.4	119	22.0
	1				-	-				
Greeley	42 100	22.8	43 115	22.8	27	14.1	42	21.7	26	13.3
Greenwood	109	12.4	115	13.6	118	14.1	118	14.3	112	13.7
Hamilton	36	14.3	40	14.7	33	12.2	42	15.7	39	14.7
Harper	116	14.9	96	12.1	109	13.5	103	12.6	117	14.1
Harvey	531	17.4	487	15.8	491	15.7	493	15.5	430	13.3
Haskell	97	25.4	72	17.4	96	23.2	72	17.5	75	18.3
Hodgeman	37	16.3	35	14.8	37	15.9	46	20.1	49	21.7
Jackson	176	15.1	183	15.4	183	15.3	171	14.2	178	14.7
Jefferson	252	16.6	223	14.1	242	14.9	255	15.2	195	11.2
Jewell	66	12.6	81	15.5	80	15.5	68	13.4	62	12.5
Johnson	4,032	14.9	4,122	14.8	3,965	13.9	4,220	14.5	4,329	14.6
Kearny	79	23.0	100	28.2	70	19.6	94	26.1	72	19.9
Kingman	136	15.2	151	16.7	143	15.6	140	15.2	149	16.0
Kiowa	70	17.3	71	18.1	71	18.2	63	16.3	57	14.9
Labette	427	16.6	416	16.1	371	14.3	409	15.6	359	13.6
Lane	40	16.2	40	15.9	40	16.0	44	17.8	34	13.9
Leavenworth	777	14.2	827	15.1	799	14.6	805	14.7	784	14.4
Lincoln	51	12.3	69	16.6	46	11.3	37	9.2	45	11.4
Linn	126	15.3	117	14.0	104	12.4	119	14.2	120	14.3
Logan	60	17.3	63	17.6	69	19.4	49	13.8	51	14.5

Table 27 (cont.)
Live Births by Number and Rate
By County of Residence
Kansas, 1980-1984

					Yea	r				****
	198	o [198	1	198	2	198	3	198	4
County of Residence	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Lyon Marion Marshall McPherson Meade	653	18.6	671	19.0	672	18.8	643	17.8	721	19.7
	171	12.6	174	12.9	152	11.3	171	12.7	187	13.9
	193	15.2	211	16.8	236	18.9	199	16.1	185	15.1
	422	15.7	419	15.4	404	14.7	446	16.0	423	15.0
	83	17.3	79	16.3	89	18.5	71	14.9	87	18.3
Miami Mitchell Montgomery Morris Morton	321	14.8	328	15.2	327	15.0	327	15.0	326	14.8
	134	16.5	128	15.5	111	13.3	123	14.5	110	12.8
	703	16.6	691	16.3	758	17.5	703	16.0	665	14.8
	77	12.0	89	13.8	93	14.5	92	14.5	87	13.7
	70	20.3	73	20.6	78	22.1	69	19.7	60	17.2
Nemaha Neosho Ness Norton	190 291 82 95 235	16.9 15.3 18.2 14.2 15.3	211 333 86 89 222	19.1 17.5 19.3 13.5 14.4	179 306 81 77 212	16.3 16.0 18.4 11.8 13.5	179 297 83 88 234	16.4 15.4 19.0 13.6 14.6	185 302 78 83 201	17.1 15.6 18.0 12.9 12.3
Osborne Ottawa Pawnee Phillips Pottawatomie	77	12.9	87	14.9	77	13.4	75	13.2	78	13.9
	87	14.6	68	11.2	76	12.6	91	15.1	75	12.5
	135	16.7	131	16.5	144	18.4	137	17.7	104	13.6
	106	14.3	101	13.5	106	14.2	105	14.2	104	14.2
	273	18.5	302	19.8	255	16.1	280	17.1	273	16.1
Pratt Rawlins Reno Republic	182	17.7	167	16.0	201	18.9	186	17.1	165	14.9
	66	16.1	72	18.2	77	19.8	75	19.6	49	13.0
	1,114	17.1	992	15.1	1,002	15.2	1,011	15.1	931	13.8
	96	12.7	97	12.9	80	10.8	87	11.8	94	12.9
	183	15.4	187	16.0	170	14.7	200	17.4	164	14.4
Riley Rooks Rush Russell	944 112 71 132 813	14.9 16.0 15.7 14.9 16.6	1,008 129 63 135 804	15.4 19.5 14.0 16.0	1,002 131 49 157 817	15.2 20.3 11.1 18.9 15.8	1,030 119 64 157 846	15.6 18.8 14.7 19.2 16.1	955 113 48 124 798	14.4 18.2 11.2 15.4 14.9
Scott Sedgwick Seward Shawnee Sheridan	95 7,094 404 2,588 60	16.4 19.4 23.7 16.7	102 7,378 407 2,490 62	16.9 20.2 23.3 15.7 16.6	112 7,238 439 2,480 61	18.5 19.6 24.8 15.6 16.5	94 6,923 383 2,429 64	15.5 18.6 21.4 15.2 17.4	109 7,327 385 2,363 51	17.9 19.5 21.2 14.7 14.0
Sherman Smith Stafford Stanton Stevens	138	17.8	122	15.5	134	17.3	135	17.6	133	17.6
	79	13.3	75	12.4	75	12.6	63	10.7	60	10.3
	74	13.4	98	17.5	83	15.0	70	12.9	90	16.8
	54	23.1	49	19.3	53	20.8	46	18.1	36	14.2
	89	18.8	74	14.8	86	16.9	93	17.9	92	17.3
Sumner Thomas Trego Wabaunsee Wallace	432	17.3	420	16.7	451	17.6	386	14.8	385	14.5
	146	17.3	132	15.5	167	19.4	164	18.9	145	16.6
	63	15.1	76	18.5	63	15.5	76	19.0	70	17.8
	95	13.8	88	12.8	94	13.7	90	13.0	99	14.3
	41	20.0	39	19.0	39	19.4	44	22.2	38	19.6
Washington Wichita Wilson Woodson Wyandotte	113	13.2	105	12.5	117	14.1	95	11.6	94	11.6
	62	20.4	57	18.5	64	21.4	58	20.1	57	20.6
	180	14.8	158	12.7	154	12.1	157	12.0	162	12.1
	72	15.7	64	14.4	58	13.0	81	18.0	63	13.9
	3,522	20.4	3,557	20.5	3,400	19.6	3,253	18.9	3,165	18.4

Table 28
Live Births by Age Group of Mother
By County of Residence of Mother
Kansas, 1984

0.700					Age Gr	oup of Mo	other			
County of Residence	Total	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	N.S.
Kansas	39,954	60	4,650	13,805	13,110	6,501	1,590	222	13	3
Allen	268	_	41	103	82	30	10	2	_	_
Anderson	121	-	16	50	30	19	5	1	_	
Atchison	272	_	46	88	97	29	9	3	_	_
Barber	116	_	9	53	41	10	3] -	_	
Barton	642	-	71	234	232	83	16	6	-	_
Bourbon	249	_	47	97	63	32	8	1	1	_
Brown	168	_	23	67	47	26	4	l i	_	_
Butler	712	1	75	240	235	134	23	3	1	_
Chase	49	_	1	21	18	6	2	1	_	_
Chautauqua	70	-	9	25	24	10	2		_	_
Cherokee	307	1	59	124	85	31	6	1	•••	_
Cheyenne	47	_	4	15	15	10	3		_	1 -
Clark	40	_	5	14	12	7	2		-	_
Clay	130	_	17	40	43	24		1 1	-	-
Cloud	186	_	21	74	60	24 25	3 6	3 -	-	_
Coffey	1)10		16	br br		_		_		
Comanche	143	-	16	44	49	26	6	2	-	-
Conlor	31	-	2	14	8	5	2	-	-	-
Cowley	571	-	93	233	161	74	10	-	-	_
Crawford	529	1	59	210	153	84	18	3	1	_
Decatur	66	-	3	25	29	8	1	-	-	-
Dickinson	251	-	34	100	73	40	3	_	-	1
Doniphan	128	-	9	44	57	13	3	2	_	_
Douglas	977	2	80	300	337	202	49	7	_	_
Edwards	62	-	6	24	24	7	1	_	_	_
Elk	40	-	9	15	13	3	_	-	_	-
Ellis	491	2	39	177	179	70	23	_	1	_
Ellsworth	86	_	9	24	39	13	1	_		_
Finney	739	3	101	284	221	100	25	4	_ 1	
Ford	518	2	61	184	185	67	25 17	2	'	-
Franklin	331	-	46	138	91	42	10	4	_	- -
Geary	1,247	2	190	592	321	115	22	4		
Gove	64	_	3	24	23		23		-	-
Graham	66	_	9	27	24	9	5	-	-	_
Grant	136		14			6	-	-	-	
Gray	119	-		61	38	18	5	-	-	-
	119	-	5	37	51	21	5	-	-	-
Greeley	26	-	5	9	9	2	1	_	_	_
Greenwood	112	-	13	47	32	14	4	2	-	_
Hamilton	39	-	3	15	10	7	3	1	_	_
Harper	117	-	11	49	39	15	3	_	_	_
Harvey	430	1	47	133	152	79	13	5	-	_
Haskell	75	_	9	30	21	11	3	_	1	_
Hodgeman	49	1	7	16	14	7	2	2	ı	-
Jackson	178	<u>.</u>	8	64	70	22	11	1	-	-
Jefferson	195	_	17	69	70	29	10	3	-	-
Jewell	62	-	5	22	24	9	10	1	-	_
Johnson	4,329	2	225	930	1 5117	1 210	20-	24		-
Kearny	72	1			1,647	1,218	285	21	-	1
Kingman		1	10	27	23	9	2	-	-	
Kingman	149	-	19	54	47	22	6	1	-	-
Kiowa	57	-	7	20	18	9	3	-	-	-
Labette	359	-	53	149	97	48	11	1	-	-
Lane	34	-	2	14	11	6	1	-	_	
Leavenworth	784	2	87	286	235	122	48	4	_	_
							, .	7	- 1	
Lincoln	45	- 1	1	16	18	10	_	_	_	
Lincoln Linn Logan	45 120	-	1 18	16 50	18 31	10 14	- 6	-	-	_ 1

Table 28 (cont.)
Live Births by Age Group of Mother
By County of Residence of Mother
Kansas, 1984

					Age Gro	oup of Mot	her	***************************************		
County of Residence	Total	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	N.S.
Lyon Marion Marshall McPherson Meade	721 187 185 423 87	- - - -	58 19 16 31 14	278 51 56 149 31	234 71 71 146 26	116 32 30 80 11	26 11 9 15 4	8 3 1 1	1 - - 1 -	- - - -
Miami Mitchell Montgomery Morris Morton	326 110 665 87 60	- 3 -	49 8 103 13 9	115 31 252 27 26	95 49 185 32 19	55 17 96 13 5	9 3 24 2 1	3 2 2 -	- - - -	- - -
Nemaha Neosho Ness Norton	185 302 78 83 201	- - - -	9 53 5 8 21	68 132 28 33 75	69 82 35 31 73	27 24 9 11 24	10 9 1 - 8	2 2 - -	- - - -	
Osborne Ottawa Pawnee Phillips Pottawatomie.	78 75 104 104 273	- - - -	10 4 11 16 26	27 34 36 42 96	26 20 33 26 94	10 15 19 16 41	2 4 4 16	3 - 1 - -	-	- - - -
Pratt Rawlins Reno Republic Rice	165 49 931 94 164	- - - -	15 2 119 4 24	67 17 346 27 49	52 16 293 41 57	26 12 144 17 28	5 1 26 5 4	- 1 3 - 2	-	- - - -
Riley Rooks Rush Russell	955 113 48 124 798	- - - -	113 10 2 14 86	346 53 12 42 279	314 31 19 46 270	139 14 12 16 130	39 4 3 6 27	4 1 - - 6	- - - -	- - - -
Scott Sedgwick Seward Shawnee Sheridan	7,327 385 2,363 51	- 13 - 6 -	6 903 59 271 4	43 2,426 172 746 21	41 2,459 108 783 16	16 1,180 30 444 9	3 295 13 104 1	48 2 9	3 1 -	- - - -
Sherman Smith Stafford Stanton Stevens	133 60 90 36 92		19 6 8 3 6	46 23 30 17 43	42 16 36 13 29	19 12 11 3 12	7 2 5 - 2	1		- - - -
Sumner Thomas Trego Wabaunsee Wallace	385 145 70 99 38	1 - - -	42 12 5 10	155 53 33 37 14	121 58 23 32 18	55 17 7 14 5	10 3 2 6 -	1 1	1 - - -	
Washington Wichita Wilson Woodson Wyandotte	94 57 162 63 3,165	- - - 16	8 6 27 8 594	24 28 54 29 1,158	31 13 43 13 913	23 9 26 11 352	6 1 10 2 115	2 - 2 - 17	- - - -	

Table 29
Out-of-Wedlock Births by Age Group of Mother
By County of Residence of Mother
Kansas, 1984

		Age Group of Mother								
County of Residence	Total	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	N.S.
Kansas	5,501	56	2,027	2,123	865	330	85	14	_	1
AllenAnderson	29 13	_	12 8	11	5	1	_	_	_	_
Atchison	50 50	-	26	14	2 7	1	-	-	-	-
Barber	4	_	20	2		3 -	-	-	-	-
Barton	74	-	27	33	11	2	1	_	-	
Bourbon	26	_	14	11	1	_	_	_	_	_
Brown	26	_	8	15	2	1	_	<u>-</u>	_	_
Butler	64	1	25	22	8	8	-	_	_	-
Chase Chautauqua	4 6		- 2	3	- 1	_	_	_	<u>-</u>	_
Cherokee	51	1			-			_	_	_
Cheyenne	ا ر 4	_	19 2	23	6 2	2	-	-	-	-
Clark	2	_	2	_	_	_		_	-	-
Clay	11	_	7	2	1	_		1	_	_
Cloud	15	-	7	7	1	-	-	-	_	_
Coffey	7	_	2	1	2	1	1	_	_	_
Comanche	1	-	1		-	_	-	-	_	_
Cowley	77	-	29	30	14	4	-	-	-	-
Crawford	69	1	16	33	10	7	2	-	-	-
Decatur	3	-	1	-	2	_	-	-	-	-
Dickinson	21	_	10	7	3	1	_	_	_	_
Doniphan	12	-	3	5	3	-	1	1 -	-	-
Douglas Edwards	121	2	40	35	28	12	3	1	-	-
Elk	3	-	1 2	1 2	1	-	<u>-</u>	_	-	-
Ellis	49					_		-	_	_
Ellsworth	49 5	2	12	25	9	-	1	-	-	-
Finney	111	3	3 36	- 42	2 16	10	-	-	-	_
Ford	78	1	24	33	17	10 3	3	1	_	-
Franklin	36	-	14	16	3	2	_	1	_	-
Geary	136	2	37	66	24	6	1	_	_	_
Gove	2	-	1	-	1	-	_	_	_	_
Graham	10	-	5	4	1	-	_	-	_	_
Grant	16	-	5	9	1	1		-	-	_
	0	-	-	1	2	3	-	-	-	-
Greeley	1	-	-	1	-	-	-	-	_	_
Greenwood	13	-	4	7	1	1	-	-	-	-
Hamilton	7	-	- 4	2 2	1	1	-	-	-	-
Harvey	37	1	14	18	1	- 2	-	1	-	-
Haskell	4	_	1	2	1					
Hodgeman	6	1	4	1	_	-	_	-	-	-
Jackson	23	_ [7	11	5	-	_	_	-	_
Jefferson	12	-	6	4	1	-	1	_	_	_
Jewell	2	-	1	1	-	-	-	-	-	-
Johnson	276	2	105	101	41	17	9	_	_	1
Kearny	10	1	4	4	1	_	-	_	_	_
Kingman	11	-	4	4	2	1	-	-	-	-
Kiowa Labette	1 53	-	17	1 27	7	- 2	-	-	-	-
1					'		-	-	-	-
Lane Leavenworth	102	-	-	1	-	1	-	-	-	-
Lincoln	102	2	40	41 2	17	2	-	-	-	-
Linn	16	-	4	6	4	2	-	_	-	-
Logan	2	_	_	2	_	-	_	_	_	-

Table 29 (cont.) Out-of-Wedlock Births by Age Group of Mother By County of Residence of Mother Kansas, 1984

					Age Gro	oup of Mo	ther			
County of Residence	Total	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	N.S.
Lyon Marion Marshall McPherson Meade	69 16 5 35 6	- - - -	22 6 4 11 2	31 3 - 15 2	9 5 1 6 2	6 - - 3 -	1 2 - -		- - -	1
Miami Mitchell Montgomery Morris Morton	41 7 110 6 2	- - 1 -	15 6 44 4 2	16 1 45 2 -	9 - 15 - -	1 - 3 - -	- 2 -	- - - -	- - -	- - -
Nemaha Neosho Ness Norton Osage	7 37 4 9 17	- - - -	2 16 1 4 9	3 [,] 16 1 2 6	- 3 1 3 2	2 1 1 -	- 1 - -	- - - -	-	
Osborne Ottawa Pawnee Phillips Pottawatomie.	10 7 12 8 17	- - - -	4 2 6 6 5	3 5 3 2 7	2 - 1 - 3	- 2 - 1	- - - 1	1 - - -	- - - -	- - - -
PrattRawlinsRenoRepublicRice	10 3 133 4 16	- - - -	3 1 57 1 7	6 1 49 3 3	- 1 17 - 5	1 - 7 - 1	- 2 -	- 1 -	- - - -	-
RileyRooksRushRussell	76 9 3 10 130	- - - -	21 3 1 5 43	33 3 1 2 60	11 3 1 2 16	8 - - - 9	3 - 1 1	- - - 1	- - - -	- - - -
Scott Sedgwick Seward Shawnee Sheridan	1,293 60 434	12 - 6 -	1 483 21 168 1	2 473 29 152	1 206 10 76 –	- 92 - 25 -	23 - 7 -	- 4 - -	- - -	- - - -
Sherman Smith Stafford Stanton Stevens	18 5 5 2 9	- - - -	6 3 1 - 3	6 - 2 2 4	4 1 2 - 1	2 1 - -	- - - 1	- - - -	- - - -	- - - -
Sumner Thomas Trego Wabaunsee Wallace	42 9 3 5 -	1 - - - -	12 7 - 3 -	22 1 2 1 -	4 1 1 1 -	3 - - -	- - - -	- - - -	- - - -	- - - -
Washington Wichita Wilson Woodson Wyandotte	4 7 17 - 1,034	- - - - 16	3 3 6 - 375	- 3 6 - 397	- 3 - 167	1 1 2 - 60	- - - - 17	- - - - 2	- - - -	-

Table 30 Reported Induced Abortions by Age Group of Patient By County of Residence Kansas, 1984

					Age Gro	oup of Pa	tient		- Tomas - Toma	
County of Residence	Total	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	N.S.
Kansas	5,319	49	1,549	1,924	976	522	225	62	2	10
Allen	30	-	13	7	3	4	2	1	_	_
Anderson	7	_	2	4	1	-	_	_	-	_
Atchison	32	-	13	13	3	3	_	_	_	_
Barber	8	-	4	1	2	_	_	-	1	-
Barton	42	-	13	11	11	5	2	-	-	-
Bourbon	21	_	7	7	3	2	1	1	_	_
Brown	6	_	1	3	_	1	1	_	_	_
Butler	46	2	14	19	9	_	2	_	_	-
Chase	3	-	1	1	_	1	-	i -	_	-
Chautauqua	7	_	2	3	-	1	1	_	-	-
Cherokee	30	1	8	11	4	6	_	_	_	_
Cheyenne	2	_	_	_	_	2	_	_	_	_
Clark	2	_	1	1	_	_	_	_	_	_
Clay	2	_	1	1	_	_	_	_	_	_
Cloud	9	-	3	3	3	-	-		_	-
Coffey	13	_	3	7	2	1	_	_	_	_
Comanche	2		2		_		_	_	_	-
Cowley	44	_	13	19	8	1	1	2	_	_
Crawford	87	1	28	38	12	3	5	_	_	_
Decatur	2		2	-	-	-	-	_	_	_
Dickinson	8		2	2	_					
Doniphan	15	_	3 8	4	2 2	_	_	1	_	1 _
Douglas	351	1	89	156	64	26	10	14	_	1
Edwards	5	<u>'</u>	2	1 1	1	1	-	_	_	
Elk	2	_	1	1			_	_	_	_
Ellis	85	_	26	41	10	7	1		_	
Ellsworth	3	_	1	1	-		1	_	_	_
Finney	38	_	10	13	8	4	2	1	_	_
Ford	42	1	15	9	6	10	1		_	_
Franklin	48	_	17	15	9	6	_	1	_	_
Coomer	36	2		10	_					
Geary	1	_	9	12	9 1	2	2	-	_	-
Graham	3		1 1	_		1	_	_	_	_
Grant	14	_	1	1	1		1	_	_	_
Gray	3	-	_	2	1	_		_	_	_
Greeley										
Greenwood	3		2	-	_ 1	_		_	_	_
Hamilton	1	_	_	1		_	_	_	_	_
Harper	7	_	2	3	1	_	_	_	_	1
Harvey	30	; -	13	14	3	_	_	_	-	_
Haskell	4	_	1	1	1	_	1			
Hodgeman	-	_	_		<u> </u>	_		-	-	_
Jackson	20	, <u> </u>	8	7	_	1	3	1		_
Jefferson	26	_	12	8	4	2	_	_	_	_
Jewell	-	-	_	-	-	_	-	-	-	_
Johnson	1,155	8	328	393	212	133	65	14	1	1
Kearny	1,100	_	J20 -	1	- Z	- '23	-	'-		
Kingman	7	_	1	3	3	_	_	_	_	
Kiowa	1	-	1	-	_	_	_	_	_	_
Labette	45	1	21	13	5	2	2	1	_	_
Lane	3	_	2	_	1	_	_	_		_
Leavenworth	92	_	26	36	21	4	4	1	_	_
Lincoln	1	_	-	-	_	1	_		_	_
Linn	9	-	5	-	_	1	2	1	_	_
Logan	3	_	1	2	_	_	_		_	_

Table 30 (cont.) Reported Induced Abortions by Age Group of Patient By County of Residence Kansas, 1984

					Age Gro	up of Pat	ient			
County of Residence	Total	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45 & Over	N.S.
Lyon Marion Marshall McPherson Meade	128 5 6 28 4	3 - - -	40 1 4 9 3	54 3 2 10 1	16 - - 3 -	13 - - 4 -	1 1 - 2 -	1 - - -	- - - -	- - - -
Miami Mitchell Montgomery Morris	30 5 37 2 2	- 1 -	13 1 18 1	9 2 11 - 1	5 - 4 - -	2 2 - -	1 - 1 1 -	- - - -	- - - -	- - - -
Nemaha Neosho Ness Norton	11 17 4 4 27	- - - - 1	5 3 4 2 10	4 7 - 1 5	- 3 - 1 5	- 1 - - 5	- 3 - - 1	2		- - - -
Osborne Ottawa Pawnee Phillips Pottawatomie	5 3 5 4 26	- - - -	2 1 - 3 12	1 1 2 1 6	- 2 - 6	1 - - 1	- 1 - 1	1 - 1 -	- - -	- - - -
PrattRawlinsRenoRepublicRice	8 1 90 3 8	- - - -	- 1 29 1 3	2 - 30 1 4	2 - 19 - 1	1 - 9 - -	3 - 3 -	- - 1 -	- - - -	- - - -
Riley Rooks Rush Russell Saline	225 5 2 12 69	1 - - - 1	54 2 1 5 25	108 1 1 3 19	38 2 - 1 8	14 - - 2 6	8 - - 5	2 - - 3	- - - -	- - 1 2
Scott Sedgwick Seward Shawnee Sheridan	2 824 42 578	10 1 1 11	215 14 157 1	1 303 6 205	1 165 14 106	- 82 3 72 -	- 37 2 22 -	10 1 5	- - - -	2 1 -
Sherman Smith Stafford Stanton Stevens	- 6 6 6 4	- - - -	- 2 5 1 3	- 2 - 2 -	- 2 - 1	- - - 1	- - 2 -	- 1 -	- - - -	- - - -
Sumner Thomas Trego Wabaunsee Wallace	18 8 1 12 -	- - 1 -	9 5 - 1 -	3 2 1 5 -	3 1 - 3 -	1 - 1 -	1 - - 1	1 - - -	- - - -	- - - -
Washington Wichita Wilson Woodson	6 1 14 5 542	- - - 2	3 - 4 1 130	1 1 5 1 199	1 - 4 3 124	- - - - 68	- 1 - 16	1 - - 3		- - - -
Not Stated	20	_	7	8	4	_	1	_	_	-

Table 31
Perinatal Period III Deaths
By County of Residence
Kansas, 1984

		Perinatal Period III Deaths					
County of Residence	Total	Fetal Deaths	Hebdomadal Deaths				
Kansas	477	277	200				
Allen	3	2	. 1				
	5	3	2				
	5	4	1				
	2	2	-				
	8	3	5				
Bourbon Brown Butler Chase Chautauqua	3	2	. 1				
	5	4	1				
	5	5	-				
	1	-	1				
	-	-	-				
Cherokee Cheyenne Clark Clay Cloud	3	1 .	2				
	1	-	1				
	-	-	-				
	3	1	2				
	2	2	-				
CoffeyComancheCowleyCrawfordDecatur	1	1	-				
	-	-	-				
	5	3	2				
	8	5	3				
	-	-	-				
Dickinson Doniphan Douglas Edwards Elk	3 - 12 - 1	3 - 5 - 1	7 - -				
Ellis Ellsworth Finney Ford Franklin	3	2	1				
	1	1	-				
	10	4	6				
	6	3	3				
	4	3	1				
GearyGoveGrahamGrantGray	14	5	9				
	1	1	-				
	-	-	-				
	3	2	1				
	-	-	-				

Table 31 (cont.)
Perinatal Period III Deaths
By County of Residence
Kansas, 1984

		Perinatal Period III Deaths					
County of Residence	Total	Fetal Deaths	Hebdomadal Deaths				
Greeley	1	1	- -				
Hamilton	1	-	1				
Harper	1	1	-				
Harvey	6	4	2				
Haskell	1	1	- 3				
Hodgeman	4	<u> </u>	J _				
Jackson	<u>-</u> 4	4	_				
Jefferson	-	<u>-</u>	-				
Johnson	39	17	22				
Kearny	1	1					
Kingman	1	1	-				
Kiowa	2	1	1 4				
Labette	5	1	4				
Lane	-	-	_				
Leavenworth	3	3	_				
Lincoln	_	_	_				
Logan	-	_	-				
	·	6	3				
Lyon	9	2	1				
Marion Marshall	3 4	4	_				
McPherson	<u>-</u>	_	_				
Meade	1	1	_				
Miami	_	_	_				
Mitchell	-	_					
Montgomery	7	5 2	2				
Morris	2	2 2					
Morton	2	2					
Nemaha	3	3					
Neosho	2	1	1				
Ness	-	_	_				
Norton	2	_	2				
Osage							

Table 31 (cont.) Perinatal Period III Deaths By County of Residence Kansas, 1984

		Perinatal Period III Deaths		
County of Residence	Total	Fetal Deaths	Hebdomadal Deaths	
Osborne	_	-	-	
Pawnee	1		1	
Phillips	-	_	- -	
Pottawatomie	2	2	-	
Pratt	1	1	-	
Rawlins	1	1	-	
Renublic	16	11	5	
Republic	1 3	1	-	
nii co	3	'	2	
Riley	8	6	2	
Rooks	1	-	1	
Rush	4	2	2	
Russell	1	-	1	
Dallie	10	5	5	
Scott	2	1	1	
Sedgwick	92	51	41	
Seward	3	2	1	
Shawnee	30	17	13	
oner ruan	-	-	-	
Sherman	-	_	-	
Smith	2	2	-	
Stafford	-	-	-	
Stevens	_	-	-	
	_	-	-	
Sumner	9	6	3	
Thomas	2	2	***	
Trego	1 2	-	1	
Wallace	2	-	2	
		_	-	
Washington	. 1	_	1	
Wichita	1	1	-	
Wilson	2	2	-	
Woodson	_	_	-	
Wyandotte	58	32	26	

Table 32
Infant Deaths by Component
By County of Residence
Kansas, 1984

· · · · · · · · · · · · · · · · · · ·	Components and Infant Age						
County of	Hebdomadal Deaths	Post-Hebdomadal Deaths	Neonatal Deaths	Post-Neonatal Deaths	Total Infant Deaths		
Residence	Under 7 days	7-27 days	Under 28 days	28-364 days	Under 1 year		
Kansas	200	51	251	141	392		
Allen	1	_	1	1	2		
Anderson	2		2	-	2 2		
Atchison	1	-	1	1	- -		
Barber	_	-	- 5	6	11		
Barton	5		י	Ŭ			
Bourbon	1	-	1	1	2 1		
Brown	1	-	1 1	-	2		
Butler	-	2	2	<u>-</u>	1		
Chase	1	-	1 _	_	<u>-</u>		
Chautauqua	_	-	_				
Cherokee	2	_	2	1	3		
Cheyenne	1	-	1	-	1_		
Clark	_	-	_	-	2		
Clay	2	_	2	1	1		
Cloud	_	_	_	·	·		
Coffey	_	_	-	-	_		
Comanche	_	-	-	-	_ 4		
Cowley	2	-	2	2 2	5		
Crawford	3	-	3 -	_	_		
Decatur	_	_	_				
Dickinson	_	_	_	2	2		
Doniphan	-	-	- 7	_ 4	11		
Douglas	7	-	7	_	_		
Edwards	-	_		_	_		
Elk	-	_					
Ellis	1	3	4	2 2	6 2		
Ellsworth		2	8	2	10		
Finney	6 3	3	6	2	8		
Ford	1	-	1	1	2		
			11	11	22		
Geary	9	2	11	1	1		
Gove	-	_	_		_		
Graham	1	1	2	_	2		
Gray		_	_	1	1		
		_	_	-	_		
Greeley	_	_	_	_	_		
Hamilton	1	_	1	_	1		
Harper		_	-	-	_		
Harvey	2	_	2	-	2		
		_	_	1	1		
Haskell	3		3	_	3		
Hodgeman) -	_	_	_	-		
Jackson	_	_	_	1	1		
Jewell	_	1	1	-	1		
Tohnasa	22	3	25	11	36		
Johnson	-	-	_	_	-		
Kingman	_	_	-	-	-		
Kiowa	1	_	1	-	1 5		
Labette	4	1	5	_)		
Lane	_	_	_	_			
Leavenworth	_	_	-	1	. 1		
Lincoln	_	-	-		- 2		
Linn	-	1	1	1 -	_		
		1					

Table 32 (cont.) Infant Deaths by Component By County of Residence Kansas, 1984

		Comp	conents and Infant	Age	
County of	Hebdomadal Deaths	Post-Hebdomadal Deaths	Neonatal Deaths	Post-Neonatal Deaths	Total Infant Deaths
Residence	Under 7 days	7-27 days	Under 28 days	28-364 days	Under 1 year
Lyon	3	2	5	1	6
Marion	1	-	1	_	1
Marshall	-	_	-	_	_
McPherson	-	_	-	1	1
Meade	-	-	_	1	1
Miami	-	1	1	2	3
Mitchell	-	_	_	_	-
Montgomery	2	2	4	3	7
Morris	-	1	1	_	1
Morton	-	-	-	-	-
Nemaha	-	_	_	_	_
Neosho	1	_	1	3	14
Ness	-	-		1	1
Norton	- 1	-	_		-
Osage	2	-	2	1	3
Osborne		-	_	2	2
Ottawa	_	-	_	_	2
Pawnee	1	_	1	_	- 1
Phillips	_	_	<u>.</u>	_,	i
Pottawatomie	-	-	-	-	-
Pratt	_				
Rawlins	_	-	-	1	1
Reno	5	1	- 6	-	-
Republic	_	<u>.</u>		. 2	8
Rice	2	1	3	1	4
Riley	_		_	_	
Rooks	2	-	2	2	4
Rush	2	-	1	-	1
Russell	1	-	2	-	2
Saline	5	3	1 8	2	1
		5	0	2	10
Scott	1 41	- 10	1 52	_	1
Sedgwick	41	12	53	28	81
Shawnee	13	1 4	2	3	5
Sheridan	-	-	17	6	23
				_	-
Sherman	-	-	-	-	-
Smith	-	-	-	-	-
Stafford	-	-	-	1	1
Stevens	-	-	-	_	-
			_	-	-
Sumner	3	-	3	-	3
Thomas	-	-	-	-	_
Trego	1	-	1	-	1
Wabaunsee	2 -	_	2	-	2
		_	-	-	-
Washington	1	-	1	-	1
Wichita	-	-	-	-	-
Wilson	-	1	1	-	1
Woodson	26	3	- 29	1	1
				21	50

Table 33
Deaths by Number and Rate
By County of Residence
Kansas, 1980-1984

					Yea	ar				
	198	10	198	31	198	32	198	33	198	34
County of Residence	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Kansas	21,910	9.3	21,579	9.0	21,700	9.0	21,816	9.0	22,184	9.1
AllenAndersonAtchisonBarberBarton	231	14.8	209	13.0	200	12.3	182	11.0	186	11.1
	99	11.4	131	15.0	131	14.8	131	14.7	114	12.7
	176	9.6	221	12.3	201	11.2	211	11.8	214	12.0
	88	13.4	106	16.2	101	15.4	84	12.8	88	13.3
	313	10.0	329	10.3	307	9.5	311	9.6	340	10.4
Bourbon	221	13.8	228	14.1	222	13.5	248	14.9	227	13.5
Brown	177	14.8	171	14.2	157	12.9	174	14.0	170	13.5
Butler	413	9.2	400	8.7	412	8.7	358	7.4	388	7.8
Chase	57	17.2	41	12.4	63	19.2	40	12.3	41	12.7
Chautauqua	73	14.6	68	13.7	94	18.4	81	15.5	76	14.1
CherokeeCheyenneClarkClayCloud.	339	15.2	274	12.4	285	12.8	274	12.2	320	14.1
	51	13.9	40	10.7	39	10.6	49	13.6	55	15.6
	33	12.7	30	11.4	38	14.7	41	16.0	36	14.3
	149	15.2	134	13.4	118	11.7	131	13.0	141	13.9
	181	14.5	191	15.3	165	13.3	163	13.2	191	15.6
Coffey Comanche Cowley Crawford Decatur	114	12.2	119	12.4	116	11.6	102	9.8	100	9.2
	35	13.7	31	12.2	36	14.4	41	16.6	29	11.9
	421	11.4	439	11.9	435	11.6	435	11.4	456	11.8
	510	13.5	500	13.3	480	12.7	514	13.6	506	13.3
	78	17.3	57	12.3	60	13.1	42	9.3	57	12.7
Dickinson Doniphan Douglas Edwards Elk	261	12.9	232	11.4	254	12.5	257	12.7	224	11.1
	112	12.1	94	10.2	97	10.5	98	10.5	107	11.5
	373	5.5	356	5.3	345	5.1	364	5.3	377	5.5
	62	14.5	46	10.6	63	14.6	49	11.5	54	12.7
	68	17.4	56	13.8	53	12.8	75	17.6	68	15.6
Ellis Ellsworth Finney Ford Franklin	168	6.4	170	6.3	179	6.7	201	7.5	190	7.0
	87	13.1	88	13.2	111	16.3	104	14.9	90	12.5
	180	7.6	138	5.6	156	6.3	151	6.0	169	6.6
	215	8.8	204	8.3	188	7.6	209	8.4	247	9.9
	226	10.4	232	10.6	254	11.5	250	11.1	248	10.9
Geary	208	7.0	171	5.7	206	6.8	206	6.8	207	6.8
Gove	35	9.4	37	9.6	45	11.7	30	7.9	32	8.4
Graham	46	11.5	41	10.1	47	11.8	53	13.5	38	9.9
Grant	42	6.0	46	6.2	53	7.1	42	5.5	35	4.5
Gray	48	9.3	49	9.3	36	6.8	46	8.6	43	8.0
Greeley Greenwood Hamilton Harper Harvey	15	8.1	24	12.7	15	7.9	13	6.7	28	14.3
	128	14.6	117	13.8	135	16.1	145	17.6	140	17.2
	30	11.9	36	13.2	28	10.4	26	9.7	32	12.0
	107	13.8	95	11.9	119	14.8	122	14.9	145	17.5
	279	9.1	284	9.2	271	8.7	251	7.9	291	9.0
Haskell Hodgeman Jackson Jefferson Jewell	27	7.1	24	5.8	30	7.2	21	5.1	22	5.4
	32	14.1	34	14.4	33	14.2	37	16.2	35	15.5
	126	10.8	116	9.8	116	9.7	125	10.4	125	10.3
	151	9.9	139	8.8	176	10.8	162	9.6	157	9.1
	71	13.5	91	17.4	77	14.9	87	17.2	81	16.3
Johnson	1,460	5.4	1,545	5.5	1,607	5.6	1,562	5.4	1,638	5.5
Kearny	28	8.2	20	5.6	27	7.6	28	7.8	24	6.6
Kingman	119	13.3	92	10.1	100	10.9	106	11.5	109	11.7
Kiowa	35	8.7	52	13.3	30	7.7	47	12.2	52	13.6
Labette	282	11.0	306	11.8	268	10.3	312	11.9	287	10.9
Lane	26	10.5	33	13.1	24	9.6	31	12.5	36	14.7
Leavenworth	421	7.7	438	8.0	452	8.2	427	7.8	461	8.5
Lincoln	68	16.4	63	15.2	57	14.0	58	14.4	67	16.9
Linn	103	12.5	122	14.6	99	11.8	117	14.4	104	12.4
Logan	55	15.8	43	12.0	36	10.1	35	9.9	38	10.8

Table 33 (cont.)
Deaths by Number and Rate
By County of Residence
Kansas, 1980-1984

					Yea	ır				
0	198	0	198	31	198	32	198	33	198	34
County of Residence	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Lyon. Marion. Marshall. McPherson. Meade.	327	9.3	284	8.0	310	8.7	296	8.2	256	7.0
	175	12.9	158	11.7	168	12.5	141	10.5	172	12.8
	179	14.1	180	14.3	193	15.5	170	13.8	170	13.9
	288	10.7	273	10.1	257	9.3	254	9.1	257	9.1
	41	8.6	58	12.0	69	14.4	47	9.8	50	10.5
Miami Mitchell Montgomery Morris Morton	214	9.9	226	10.4	213	9.8	224	10.2	224	10.2
	99	12.2	111	13.5	118	14.1	97	11.4	85	9.9
	544	12.9	516	12.2	487	11.3	539	12.2	471	10.5
	107	16.7	99	15.4	77	12.0	102	16.0	100	15.8
	26	7.5	21	5.9	26	7.4	34	9.7	26	7.4
Nemaha	119	10.6	134	12.1	118	10.7	142	13.0	156	14.4
Neosho	232	12.2	223	11.7	244	12.8	244	12.7	226	11.7
Ness	63	14.0	58	13.0	66	15.0	51	11.7	59	13.6
Norton	89	13.3	92	14.0	93	14.3	94	14.5	89	13.8
Osage	206	13.4	163	10.6	167	10.6	186	11.6	176	10.8
Osborne. Ottawa. Pawnee. Phillips. Pottawatomie.	89	14.9	86	14.8	86	14.9	108	19.0	95	16.9
	78	13.1	76	12.5	78	12.9	94	15.6	76	12.7
	73	9.1	96	12.1	94	12.0	88	11.4	86	11.3
	87	11.9	90	12.0	91	12.2	117	15.8	109	14.9
	149	10.1	125	8.2	121	7.7	150	9.2	161	9.5
Pratt. Rawlins. Reno. Republic. Rice.	115	11.2	129	12.3	104	9.8	119	11.0	117	10.6
	51	12.4	51	12.9	44	11.3	44	11.5	47	12.4
	595	9.2	554	8.5	669	10.1	588	8.8	636	9.4
	118	15.6	127	16.9	136	18.3	112	15.2	114	15.6
	161	13.5	146	12.5	146	12.6	138	12.0	156	13.7
RileyRooksRushRussell	255	4.0	246	3.8	235	3.6	265	4.0	227	3.4
	90	12.8	82	12.4	105	16.2	91	14.4	93	15.0
	66	14.6	62	13.8	55	12.4	60	13.8	49	11.5
	118	13.3	111	13.2	121	14.6	123	15.0	123	15.2
	404	8.3	410	8.1	424	8.2	447	8.5	418	7.8
Scott	36	6.2	45	7.5	62	10.3	59	9.7	42	6.9
	2,717	7.4	2,820	7.7	2,764	7.5	2,819	7.6	2,920	7.8
	127	7.4	115	6.6	125	7.1	119	6.6	137	7.5
	1,380	8.9	1,300	8.2	1,321	8.3	1,320	8.3	1,395	8.7
	26	7.3	45	12.1	37	10.0	47	12.8	39	10.7
Sherman. Smith. Stafford. Stanton. Stevens.	75	9.7	82	10.5	60	7.7	95	12.4	68	9.0
	87	14.6	102	16.9	77	12.9	69	11.7	86	14.8
	77	13.9	83	14.8	83	15.0	87	16.0	76	14.1
	9	3.8	17	6.7	24	9.4	15	5.9	13	5.1
	42	8.9	35	7.0	41	8.0	35	6.7	54	10.1
Sumner Thomas Trego Wabaunsee Wallace	322 59 56 69 19	12.9 7.0 13.4 10.0 9.3	288 60 39 98 24	11.4 7.0 9.5 14.3	314 76 34 92 18	12.3 8.8 8.4 13.4 8.9	286 71 50 76 14	11.0 8.2 12.5 11.0 7.1	288 92 61 88 25	10.9 10.5 15.5 12.7 12.9
Washington Wichita Wilson Woodson Wyandotte	120	14.0	108	12.8	106	12.7	115	14.0	124	15.3
	24	7.9	34	11.0	25	8.4	26	9.0	17	6.1
	159	13.1	159	12.8	147	11.5	181	13.8	170	12.7
	60	13.0	73	16.5	67	15.0	57	12.7	65	14.4
	1,835	10.6	1,712	9.8	1,665	9.6	1,651	9.6	1,664	9.7

Table 34

Deaths by Age Group and Average Age at Death

By County of Residence

Kansas, 1984

					****			Age Gr	oup					
County of Residence	Total	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	N.S.	Average Age at Death
Kansas	22,184	392	84	100	385	427	510	957	2,564	4,693	6,393	5,677	2	71.8
AllenAndersonAtchisonBarberBarton	186 114 214 88 340	2 2 2 - 11	- - - 1	- 1 1 2	4 - 4 - 15	1 3 7 3 14	5 4 7 1 12	4 6 7 3 15	17 8 28 12 29	36 14 41 13 73	57 47 58 28 93	60 30 59 27 75	- - - -	75.0 73.9 71.9 75.2 67.5
BourbonBrownButlerChaseChautauqua	227 170 388 41 76	2 1 2 1	- - - -	- 1 2 -	4 2 9 1 -	1 2 8 - 2	2 2 8 -	10 5 13 1	26 18 37 4 7	63 36 89 8 19	63 49 112 13 29	56 54 108 13	- - - -	73.7 75.6 73.3 74.9 76.9
Cherokee Cheyenne Clark Clay Cloud	320 55 36 141 191	3 1 - 2 1	- - - -	1 - - 1	5 1 - 1 1	6 1 1 4 4	4 1 - 4 1	14 2 - 2 3	35 8 3 17 17	83 11 8 29 46	97 15 10 42 61	72 15 14 40 56	- - -	72.7 72.1 79.5 73.8 76.1
Coffey Comanche Cowley Crawford Decatur	100 29 456 506 57	- - 4 5 -	- 1 -	1 - 6 1 -	2 1 7 1 2	1 - 10 7 1	1 - 6 3 -	- 1 18 14 1	9 1 49 59 8	22 6 94 130 5	34 10 139 153 22	30 10 122 133 18	- - -	76.1 78.3 72.6 75.0 76.4
Dickinson Doniphan Douglas Edwards	224 107 377 54 68	2 - 11 - -	1 - 2 -	3 -	2 1 6 - 1	1 1 11 1 1	2 2 9 1 -	7 4 16 2 2	20 9 48 6 3	43 22 83 9 15	58 40 97 18 24	88 28 91 17 23		77.0 76.2 69.7 76.1 78.7
Ellis Ellsworth Finney Ford Franklin	190 90 169 247 248	6 2 10 8 2	2 - 3 3 3	2 1	4 - 4 4 3	8 1 8 10 1	4 1 5 6 3	9 1 7 20 15	28 6 21 19 20	41 16 35 58 55	55 32 47 56 79	31 31 32 63 66	- - - -	66.6 77.3 66.5 68.7 73.6
Geary Gove Graham Grant Gray	207 32 38 35 43	22 1 - 2 1	2	3	18 - 3 4 -	11 1 - - 2	8 - - 2 1	13 1 1 3 -	29 4 - 4 2	39 7 5 9 11	36 10 14 7 13	26 8 15 4 13		55.2 72.4 75.7 59.6 73.8

Table 34 (cont.)

Deaths by Age Group and Average Age at Death

By County of Residence

Kansas, 1984

								Age Gr	oup					
County of Residence	Total	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	N.S.	Average Age at Death
Greeley	28	-	_	_	_	1	PO4	-	5	7	7	8	_	74.6
Greenwood	140	_	_	_	1	1	3	3	13	34	42	43	-	76.7
Hamilton	32	1	_	_		1	1	1	2	8	6	12	j -	73.1
Harper	145	_		_	2	1	3	7	17	31	41	43	_	75.1
Harvey	291	2	-	2	3	5	5	14	27	45	97	91	-	74.9
Haskell	22	1	_	_	_	2	1	2	5	. 2	5	4	_	63.6
Hodgeman	35	3	_	_		_	_	1	1	11	11	8	-	69.9
Jackson	125	_	1	1 1	1	3	3	4	11	25	33	43	_	75.2
Jefferson	157	1	-	_	2	3	3	5	15	33	48	47	-	75.2
Jewell	81	1	-	-	1	_	_	4	9	12	23	31	-	77.6
Johnson	1,638	36	7	7	25	39	60	85	231	358	444	346	_	69.4
Kearny	24	_			3	_	1	3	2	3	7	5	_	67.2
Kingman	109	_	2	_	1 1	1	2	5	8	20	34	36	_	75.7
Kiowa	52	1	_	_	-	-	1	2	8	11	11	18		74.9
Labette	287	5	-	2	4	1	3	8	26	52	91	95	-	75.6
Lane	36	-	1	_	_	_		2	5	5	12	11	_	76.2
Leavenworth	461	1	_	2	6	11	15	25	67	103	126	105	1 –	71.5
Lincoln	67	_	_	_	_	-	2	2	3	8	29	23	_	79.7
Linn	104	2	_	_	_	_	-	24	14	22	40	22	_	74.7
Logan	38	-	-	-	1	1	-	1	3	7	11	14	-	75.2
Lyon	256	6	1	2	5	14	7	6	29	54	81	61	_	71.3
Marion	172	1	1	_	1	1	6	2	8	36	48	68	_	77.8
Marshall	170	_	1		1	1	1	2	16	36	55	57	_	77.9
McPherson	257	1	_	_	3	4	4	7	22	50	89	77	_	75.9
Meade	50	1	-	-	_	1	1	2	6	11	14	14	-	73.6
Miami	224	3	_	4	4	8	5	12	23	39	71	55		70.8
Mitchell	85	_	_		2	_	1	3	10	17	28	24	-	76.1
Montgomery	471	7	2	3	4	5	10	20	55	99	155	111		72.7
Morris	100	1	1	1	2	1	3	4	6	18	31	32		74.1
Morton	26	_	_	_	1	1	-	4	2	6	7	5	-	69.4
Nemaha	156	_	_	2	2	1	2	6	9	31	54	49	_	76.2
Neosho	226	4	1	1	4	2	5	5	16	50	80	58	_	73.9
Ness	59	1		1 1	_	_	2	3	6	12	16	18		73.1
Norton	89	_	-	_	3	_		3	6	22	30	25		76.0
Osage	176	3	_	-	3	2	8	3	17	34	56	50		74.1
	',"		l		1		1	1	1	1		1	1	1

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Table 34 (cont.)
Deaths by Age Group and Average Age at Death
By County of Residence
Kansas, 1984

								Age Gr	oup					
County of Residence	Total	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	N.S.	Average Age at Death
Osborne	95	2	_	-	_	_	2	3	7	14	32	35	_	77.8
Ottawa	76	_	_		1	1	-	1	10	20	24	19	-	75.1
Pawnee	86	1	_	-	-	-	-	3	2	22	29	29	-	77.4
Phillips	109	-	1	1	1	1	1	2	5	21	24	52	_	78.9
Pottawatomie	161	-	-	-	1	2	4	5	18	30	49	51	1	75.6
Pratt	117	1	_	-	3	2	1	2	10	28	41	29	_	74.4
Rawlins	47	_		_	4	-	_	-	6	10	13	14	-	73.0
Reno	636	8	4	1	10	12	15	31	75	108	177	195	_	73.1
Republic	114	_	1	_	2	3	1	3	8	16	39	41	_	77.0
Rice	156	4	-	-	3	-	1	7	14	28	41	58	-	75.1
Riley	227	4	2	_	5	5	5	7	28	50	55	65	1	71.5
Rooks	93	1 1	-	1	1	5	2	3	12	21	25	22	_	70.5
Rush	49	2	_	_	_	_	_	3	3	14	17	10	_	72.4
Russell	123	1	_	_	2	1	6	6	10	25	37	35	_	73.5
Saline	418	10	1	6	7	4	19	24	42	82	121	102	_	70.2
Scott	42	1	-	_	_	_	1	1	6	15	7	11	_	72.8
Sedgwick	2,920	81	17	19	60	59	80	165	425	665	765	584	_	68.4
Seward	137	5	3	3	8	3	2	9	24	21	38	21	_	63.0
Shawnee	1,395	23	5	6	33	33	27	70	182	305	350	361	_	71.0
Sheridan	39	_	-	-	-	2	_	1	3	6	11	16	-	77.5
Sherman	68	_	1	_	2	2	_	2	5	10	30	16	_	73.9
Smith	86	-	_	_	_	-	1	1	4	13	25	42	-	81.6
Stafford	76	1		-	2	_	1	2	7	13	35	15	_	74.5
Stanton	13	-	1	_	1	_	1	1	1	1	5	2	_	63.0
Stevens	54	-	_	-	-	2	2	5	11	13	10	11	_	68.3
Sumner	288	3	1	1	6	14	6	18	30	63	85	71	_	72.1
Thomas	92		<u> </u>	2	1	2	2	4	6	16	36	22	_	72.8
Trego	61	1		_		2	_	4	5	12	17	20	_	74.5
Wabaunsee	88	2	_	_	_	2	2	1	5	19	28	29	-	75.7
Wallace	25	_	-	-	-	_	1	2	2	4	10	6	-	75.4
Washington	124	1	3	_	_	_	3	_	5	26	42	44	_	77.6
Wichita	17	_	_	-	_	_	1	_	2	3	8	3	_	75.4
Wilson	170	1	1	1	1	2	7	3	21	23	63	47	_	74.3
Woodson	65	1	_	_	_	_	1	1 1	5	16	21	20		77.0
Wyandotte	1,664	50	9	5	36	45	52	87	251	374	432	323		68.1
,	',''		 			'		"		"	',,		1	1

Table 35
Twenty Leading Causes of Death
By County of Residence
Kansas, 1984

									Cai	use of De	eath			140						
County of Residence	Heart Disease	Malignant Neoplasms	Cerebrovascular Disease	Arcidents	Chronic Obstructive Pulmonary Diseases	Pneumonia and Influenza	Diabetes Mellitus	Atherosclerosis	Suicide	Nephritis, Nephrotic Syndrome and Nephrosis	Chronic Liver Disease and Cirrhosis	Aortic Aneurysm	Certain Conditions Originating in the Perinatal Period	Septicemia	Congenital Anomalies	Homicide and Legal Intervention	Intestinal Obstruction without Hernía	Nonpsychotic Mental Disorder	Ulcer of Stomach and Duodenum	Parkinson's Disease
Kansas	8,399	4,521	1,805	1,084	933	774	363	322	302	224	187	177	160	158	155	94	87	82	76	72
Allen	78 49 83 28 130	35 22 34 17 76	16 8 17 9 23	7 5 13 5 30	10 4 13 4 7	6 4 7 3 9	4 5 3 6 3	1 - 3 3 6	4 1 2 1 10	- 1 2 1	1 - 1 2 2	3 1 - - 4	- 1 2 - 4	2 - 1 1	1 1 1 - 3	1 - 1 -	- 2 2 - 1	— 4 — 1	- - - - 1	- 1 -
BourbonBrownButlerChaseChautauqua	89 64 156 20 31	44 43 89 4 17	27 11 41 6 4	9 4 15 - 4	10 7 18 1	6 5 1 4	4 3 6 - 1	2 13 3 - 3	1 2 3 - 1	4 2 4 2	- 1 5 -	2 1 1 1 1	1 1 2 1	3 1 5 -	1 - - -		- 1 - 1 1	- 1 - 2	1 - 1	1 - - 1
Cherokee	139 24 19 53 71	66 12 4 33 47	18 2 2 12 15	17 2 3 4 12	14 3 2 5 12	6 1 3 10 4	5 1 - 3 3	4 - - 3 4	6 1 - 3	3 2 1 1	4 1 - 2 1	2 - - 1	1 - - 2	- - 1 3	2 1 - -	- - - 1	1 - 2 -	1 - 1 2	- - 2	2 - - 1
Coffey	38 9 181 213 25	23 4 87 103 8	6 3 38 43 3	4 2 14 27 1	5 1 17 26 1	- 2 18 7 4	4 - 2 8 3	1 1 5 1	1 - 5 4 1	3 1 7 4	2 - 3 6 1	- - 4 4 2	- 2 1	- 3 4	- 3 2 -	- 1 2 -	- 1 2 2	3 - 3 5 -	- 1 2 - 1	- 1 1
Dickinson Doniphan Douglas Edwards Elk	80 48 112 29 31	45 20 79 13 14	28 16 32 1 4	8 4 19 - 2	8 3 17 1	13 2 14 3 2	2 1 2 3 1	6 1 4 1 1	2 - 7 - 1	2 2 1 -	3 - 1 - 1	1 1 6 - 2	- - 3 - -	1 - 3 -	2 - 8 -	1 1 1 1	1 - 3 -	2	- 1 - 1	1 1 1 -
Ellis Ellsworth Finney Ford Franklin	59 28 57 98 94	41 19 37 46 44	13 13 17 11 22	11 1 9 15 9	13 2 8 11 13	6 4 6 6 15	4 2 2 5 4	1 2 1 4	5 1 2 6 -	3 1 2 4	2 - 2 3 5	4 - 3 4 6	- 6 2	- 2 1 1 3	6 1 2 4 1	- 1 4 -	1 1 1	1 - 1 2	- 1 2	- 2 1

Table 35 (cont.) Twenty Leading Causes of Death By County of Residence Kansas, 1984

									Ca	use of De	ath									
County of Residence	Heart Disease	Malignant Neoplasms	Cerebrovascular Disease	Accidents	Chronic Obstructive Pulmonary Diseases	Pneumonia and Influenza	Diabetes Mellitus	Atherosclerosis	Suicide	Nephritis, Nephrotic Syndrome and Nephrosis	Chronic Liver Disease and Cirrhosis	Aortic Aneurysm	Certain Conditions Originating in the Perinatal Period	Septicemia	Congenital Anomalies	Homicide and Legal Intervention	Intestinal Obstruction Without Hernia	Nonpsychotic Mental Disorder	Ulcer of Stomach and Duodenum	Parkinson's Disease
Geary	52 12 7 10 17	37 4 9 8 6	15 5 2 2 1	29 2 2 2 5 3	7 3 3 2 5	7 1 - 1 2	2 1 1 - 2	3 - - 1	4 - 2 -	2 - 1 1	5 - 1 -	- 2 1 -	8 - - 1	2	4 1 - 1	6 - - -	1 - 2 -	- 1 -	-	-
Greeley Greenwood Hamilton Harper	5 64 15 52 98	3 24 5 32 55	4 17 3 17 33	1 7 - 13 17	2 3 2 1 12	2 2 - 5 11	3 1 2 2	2 1 2 2	2 - 1 1 2	3 - 2 -	1 1 - 1 7	- 3 - 1 4	- - 1 - 1	- - 2 2	1 - 1 1	-	- 1 - - 4	-	- - 3 1	- - 1 2
Haskell Hodgeman Jackson Jefferson Jewell	8 14 47 49 32	3 9 21 35 15	2 4 13 19 4	1 - 3 8 1	1 1 6 5 6	- 11 6 5	- 2 3	1 - 7 1 6	- 1 3 -	2 - 5 -	1 - - -	- 1 -	3 - -	- - 2 1	- - - -	- - - -	- - - 1	-	- 1 1	1 1 1 -
Johnson Kearny Kingman Kiowa Labette	600 11 35 22 120	378 1 18 11 51	123 2 15 8 25	66 4 7 1	60 1 4 2 10	49 - 10 1 11	17 - 1 3 4	10 1 1 - 3	39 - 3 - 4	15 1 1 1 3	13 - 2 - 3	14 - - 3	9 - - 1 4	13 - 1 - 2	25 - - - -	8 - - -	4 - 1 - 2	7 - - -	- - - 4	6 - 1 - 1
Lane Leavenworth Lincoln Linn Logan	17 171 40 36 12	6 110 7 27 7	3 29 2 7 4	3 17 2 4 1	1 24 2 2 -	1 12 2 7 3	9 - 3 -	- 4 - 3 1	1 9 1 - 1	1 5 - 2 2	1 5 - 1 1	3 1 2	-	- 4 1 -	- 1 - 1 1	1	2 - 1 1	-	1 - - -	1
Lyon Marion Marshall MoPherson Meade	97 76 88 104 17	46 37 29 50 6	18 6 7 16 4	22 7 8 14 3	15 4 6 16	8 13 11 12 -	3 1 1 2 4	3 4 2 8 -	2 1 1 1 -	2 2 2 1 1	1 1 1 -	4 1 1 1	3 1 - -	3 2	1 - - 1 -		1 1 2 3	-	1 1 1 1 2	1 - 1

Table 35 (cont.) Twenty Leading Causes of Death By County of Residence Kansas, 1984

									Са	use of D	eath				A STATE OF THE STA					
County of Residence	Heart Disease	Malignant Neoplasms	Cerebrovascular Disease	Accidents	Chronic Obstructive Pulmonary Diseases	Pneumonia and Influenza	Diabetes Mellitus	Atherosclerosis	Suicide	Nephritis, Nephrotic Syndrome and Nephrosis	Chronic Liver Disease and Cirrhosis	Aortic Aneurysm	Certain Conditions Originating in the Perinatal Period	Septicemia	Congenital Anomalies	Homicide and Legal Intervention	Intestinal Obstruction without Hernia	Nonpsychotic Mental Disorder	Ulcer of Stomach and Duodenum	Parkinson's Disease
Miami Mitchell Montgomery Morris Morton	93 24 194 33 6	41 15 114 17 6	13 5 47 6 2	15 2 16 10 2	9 3 11 8 3	12 4 18 3	7 - 9 6 -	3 17 1 1	4 1 3 -	1 1 4 2	- - 5 -	- 1 3 1	- - 4 -	1 -	1 - 1 1	3 - 1 -	- - - -	- 1 -	1 - 1 -	- 1 2 - 1
Nemaha Neosho Ness Norton	49 100 26 31 62	27 39 13 24 33	22 18 4 6 17	5 7 4 7 6	7 4 1 4 8	11 6 - 4 4	5 1 1 - 2	- 3 2 2 15	2 5 1 2 2	1 1 - - 1	1 - - 2	1 2 - 3 1	1 - - 2	- 3 1 1	- 3 1 -	- - -	2 -	3 4 - 1	1 3 - - 1	2 1 - 4
Osborne Ottawa Pawnee Phillips Pottawatomie	51 31 47 40 56	8 21 16 14 36	6 12 3 10 14	7 1 1 4 6	1 1 3 6 11	4 1 6 12 10	1 2 1 - 5	3 - - 2 7	1 - 1 1 4	- 1 - 1 1	- - - 1	1 1 1 1	- - - -	- 1 3 1	1 - 2 -	- - - 2	- - - 1	1 - - -	1 - 2 -	1 1
PrattRawlinsRenoRepublicRice	42 20 267 50 70	20 6 130 19 20	4 3 61 17 22	5 4 27 4 5	5 2 15 1 4	2 1 26 7 6	4 2 12 1 4	3 - 3 1	2 3 10 4 3	3 - 6 1	1 - 6 1	- 7 2	- - 3 - 2	2 1 1	1 - 3 - 1	- - 6 1 -	- 4 1	3	1 1 3 1	1 1 3 -
Riley Rooks Rush Russell	80 41 16 61 155	47 17 18 22 91	20 1 7 8 41	10 8 1 7 21	12 4 - 4 20	10 6 2 1 13	3 1 - 1 4	4 2 - 4	3 1 - 2 4	1 2 - 2 1	3 2 1 1 2	2 3 - 3 1	2 - 2 - 5	2 2	4 - - 1 1	1 - - 2	1 - - -	- - - 1	2 - - 1	-
ScottSedgwickSewardShawneeShawnee	14 1,064 44 516 21	10 627 30 294 7	7 207 8 108 4	2 147 18 66 1	2 129 5 64 1	- 74 6 46	2 54 1 20	38 3 22 -	- 38 1 19	47 - 11	26 - 14 -	- 17 - 13 1	- 33 2 13 -	1 21 - 6 -	2 32 - 6 -	16 2 6	- 9 - 5 -	11 - 6 -	- 10 1 7 -	12 - 6 1

Table 35 (cont.)
Twenty Leading Causes of Death
By County of Residence
Kansas, 1984

									Cau	se of De	ath									
County of Residence	Heart Disease	Malignant Neoplasms	Cerebrovascular Disease	Accidents	Chronic Obstructive Pulmonary Diseases	Pneumonia and Influenza	Diabetes Mellitus	Atherosclerosis	Suicide	Nephritis, Nephrotic Syndrome and Nephrosis	Chronic Liver Disease and Cirrhosis	Aortic Aneurysm	Certain Conditions Originating in the Perinatal Period	Septicemia	Congenital Anomalies	Homicide and Legal Intervention	Intestinal Obstruction without Hernia	Nonpsychotic Mental Disorder	Ulcer of Stomach and Duodenum	Parkinson's Disease
Sherman Smith Stafford Stanton Stevens	18 34 23 3 15	15 16 16 3 11	2 8 9 - 2	2 1 3 2 5	8 1 5 1 2	6 2 3 1 7	1 - 2 -	1 3 3 -	1 - - -	1 2 - - 3	1 - - 1	- 1 - -	- - - -	2 - 1 - 2	1	-	1 - 1 - 1	- 4 1 -	1	- 1 - -
Sumner Thomas Trego Wabaunsee Wallace	104 36 17 31 4	64 17 16 18 5	21 8 9 9	13 3 - 3 2	11 2 3 7 2	7 1 1 2 2	9 3 2 1	9 4 1 4 -	2	1 3 - - 2	4 - - -	1 1 - 2 -	3 - 1 2 -	2 1 1 1 -	2 - - -	1	- - - -	1 1 - -	1 1	-
Washington Wichita Wilson Woodson	47 10 82 19 588	21 2 30 10 319	19 - 12 12 118	6 1 9 2 95	4 10 5 79	7 - 11 1 59	2 - 2 2 30	- 1 1 1	1 - 2 - 27	- 2 1 - 12	- 1 1 1	1 - 1 1 6	- - 1 22	2 - - - 27	1 - 1 - 12	- - - 23	1 - - - 9	- - 4 3	1 - - 3	- - - 3

Table 36 Marriages by Number and Rate By County of Marriage Kansas, 1980-1984

					Yea	ır				
	198	30	198	1	198	32	198	33	19	34
County of Marriage	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Kansas	24,847	10.5	26,137	10.9	26,670	11.1	25,877	10.7	24,737	10.1
Allen	164	10.5	178	11.1	133	8.2	140	8.5	170	10.2
	82	9.4	98	11.2	87	9.9	88	9.9	68	7.6
	183	9.9	173	9.6	188	10.5	172	9.6	180	10.1
	83	12.7	65	9.9	70	10.7	78	11.9	52	7.9
	426	13.6	422	13.2	429	13.3	342	10.5	398	12.2
Bourbon Brown Butler Chase Chautauqua	174	10.9	164	10.1	189	11.5	200	12.0	145	8.6
	109	9.1	122	10.1	122	10.0	102	8.2	100	7.9
	343	7.7	423	9.2	435	9.2	397	8.2	394	7.9
	35	10.6	33	10.0	34	10.3	28	8.6	17	5.3
	49	9.8	73	14.7	68	13.3	69	13.2	48	8.9
Cherokee	183	8.2	189	8.5	167	7.5	179	8.0	161	7.1
	35	9.5	38	10.2	47	12.8	31	8.6	28	7.9
	16	6.2	25	9.5	26	10.0	31	12.1	22	8.7
	85	8.7	111	11.1	89	8.9	89	8.8	86	8.5
	108	8.6	107	8.5	133	10.7	126	10.2	112	9.1
Coffey Comanche Cowley Crawford Decatur	87	9.3	92	9.6	100	10.0	86	8.2	90	8.3
	19	7.4	26	10.2	23	9.2	30	12.1	31	12.7
	410	11.1	436	11.9	458	12.3	411	10.8	402	10.4
	304	8.0	340	9.0	321	8.5	286	7.5	287	7.6
	62	13.8	78	16.9	69	15.1	81	17.9	50	11.2
Dickinson Doniphan Douglas Edwards Elk	187	9.3	201	9.9	236	11.6	223	11.0	176	8.7
	68	7.3	102	11.1	99	10.7	91	9.8	85	9.1
	745	11.0	658	9.7	709	10.4	723	10.5	706	10.2
	39	9.1	33	7.6	45	10.4	46	10.8	43	10.1
	34	8.7	32	7.9	46	11.1	40	9.4	33	7.6
Ellis. Ellsworth. Finney. Ford. Franklin.	377	14.4	314	11.7	317	11.8	301	11.2	285	10.6
	44	6.6	73	10.9	61	8.9	54	7.7	45	6.3
	297	12.5	315	12.9	387	15.6	355	14.0	318	12.4
	326	13.4	324	13.2	365	14.8	345	13.9	316	12.6
	242	11.1	239	11.0	205	9.3	206	9.2	222	9.7
Geary	651	21.8	781	25.9	826	27.3	897	29.6	761	25.1
	18	4.8	38	9.9	35	9.1	37	9.7	34	8.9
	53	13.3	50	12.3	51	12.8	34	8.7	36	9.4
	83	11.9	68	9.2	77	10.3	80	10.5	83	10.8
	43	8.4	60	11.4	57	10.7	50	9.3	41	7.6
Greeley Greenwood Hamilton Harper Harvey	28	15.2	21	11.1	21	11.0	18	9.3	19	9.7
	74	8.4	95	11.2	98	11.7	93	11.3	83	10.2
	23	9.1	36	13.2	21	7.8	28	10.4	27	10.1
	104	13.4	89	11.2	74	9.2	69	8.5	80	9.7
	421	13.8	304	9.9	360	11.5	339	10.7	354	11.0
Haskell Hodgeman Jackson Jefferson Jewell.	38	10.0	49	11.8	38	9.2	44	10.7	40	9.7
	27	11.9	10	4.2	15	6.5	22	9.6	19	8.4
	84	7.2	83	7.0	84	7.0	82	6.8	97	8.0
	87	5.7	164	10.4	147	9.0	154	9.2	134	7.7
	49	9.3	44	8.4	50	9.7	47	9.3	40	8.0
Johnson Kearny Kingman Kiowa Labette	2,301	8.5	2,472	8.9	2,576	9.0	2,607	9.0	2,584	8.7
	43	12.5	59	16.6	38	10.6	55	15.3	44	12.1
	96	10.7	96	10.6	87	9.5	84	9.1	85	9.1
	42	10.4	46	11.7	57	14.6	27	7.0	34	8.9
	172	6.7	180	7.0	188	7.2	172	6.6	191	7.2
Lane	23	9.3	24	9.5	24	9.6	18	7.3	22	9.0
Leavenworth	477	8.7	564	10.3	521	9.5	539	9.9	485	8.9
Lincoln	46	11.1	31	7.5	28	6.9	30	7.5	26	6.6
Linn	45	5.5	67	8.0	66	7.9	61	7.3	56	6.7
Logan	49	14.1	41	11.4	48	13.5	32	9.0	35	10.0

Table 36 (cont.)
Marriages by Number and Rate
By County of Marriage
Kansas, 1980-1984

					Yea	r				
	198	0	198	1	198	2	198	3	198	4
County of Marriage	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Lyon Marion Marshall McPherson Meade	477	13.6	431	12.2	425	11.9	420	11.6	443	12.1
	97	7.2	128	9.5	134	10.0	121	9.0	106	7.9
	125	9.8	133	10.6	126	10.1	126	10.2	126	10.3
	261	9.7	255	9.4	259	9.4	289	10.4	227	8.0
	41	8.6	59	12.2	57	11.9	57	11.9	61	12.8
Miami Mitchell Montgomery Morris Morton	204 80 424 55 32	9.4 9.9 10.0 8.6 9.3	215 67 420 90 39	9.9 8.1 9.9 14.0	230 75 488 58 39	10.6 9.0 11.3 9.1 11.1	207 69 423 69 38	9.5 8.1 9.6 10.8 10.8	192 98 394 48 43	8.7 11.4 8.8 7.6 12.3
Nemaha Neosho Ness Norton	102 189 39 57 127	9.1 10.0 8.7 8.5 8.3	104 199 38 63 159	9.4 10.5 8.5 9.6 10.3	121 189 56 85 171	11.0 9.9 12.7 13.0 10.9	107 170 43 71 166	9.8 8.8 9.8 11.0 10.4	98 167 41 81 153	9.1 8.6 9.5 12.6 9.4
Osborne Ottawa Pawnee Phillips Pottawatomie	50	8.4	49	8.4	43	7.5	48	8.4	49	8.7
	60	10.0	70	11.5	61	10.1	47	7.8	53	8.9
	72	8.9	112	14.1	101	12.9	81	10.5	73	9.6
	77	10.4	77	10.3	78	10.5	68	9.2	72	9.8
	95	6.4	141	9.2	142	9.0	118	7.2	124	7.3
Pratt Rawlins Reno Republic	103	10.0	111	10.6	100	9.4	128	11.8	103	9.3
	24	5.8	31	7.9	39	10.0	33	8.6	36	9.5
	710	10.9	784	12.0	776	11.7	776	11.6	713	10.6
	76	10.0	89	11.9	72	9.7	74	10.0	80	10.9
	99	8.3	124	10.6	129	11.1	118	10.3	94	8.2
RileyRooksRushRussell.Saline	628	9.9	540	8.2	534	8.1	570	8.6	483	7.3
	61	8.7	83	12.6	80	12.4	75	11.8	76	12.3
	27	6.0	41	9.1	32	7.2	32	7.4	39	9.1
	100	11.3	89	10.5	101	12.1	80	9.8	93	11.5
	604	12.4	627	12.3	618	12.0	659	12.6	582	10.9
ScottSedgwickSewardShawneeSheridan	50 4,646 207 1,696 20	8.6 12.7 12.1 10.9 5.6	80 4,811 256 1,656 49	13.3 13.2 14.7 10.4 13.2	65 4,870 260 1,680 26	10.8 13.2 14.7 10.6 7.0	61 4,764 270 1,647	10.1 12.8 15.1 10.3 10.1	61 4,440 248 1,706 21	10.0 11.8 13.7 10.6 5.8
Sherman Smith Stafford Stanton Stevens	96	12.4	77	9.8	99	12.7	71	9.3	73	9.6
	62	10.4	64	10.6	61	10.2	55	9.3	47	8.1
	38	6.9	49	8.8	65	11.8	63	11.6	54	10.1
	24	10.3	32	12.6	21	8.3	21	8.3	22	8.7
	45	9.5	61	12.2	57	11.2	52	10.0	41	7.7
Sumner Thomas Trego Wabaunsee Wallace	214	8.6	317	12.6	303	11.8	277	10.6	267	10.1
	106	12.5	82	9.6	87	10.1	96	11.1	62	7.1
	30	7.2	32	7.8	41	10.1	31	7.8	27	6.8
	25	3.6	61	8.9	69	10.0	70	10.1	53	7.7
	21	10.3	14	6.8	21	10.4	14	7.1	18	9.3
Washington Wichita Wilson Woodson Wyandotte	70	8.2	72	8.6	93	11.2	66	8.0	56	6.9
	24	7.9	20	6.5	39	13.1	26	9.0	23	8.3
	95	7.8	115	9.2	134	10.5	106	8.1	116	8.6
	39	8.5	31	7.0	47	10.5	40	8.9	35	7.7
	1,850	10.7	1,934	11.1	1,968	11.4	1,858	10.8	1,939	11.3

Table 37
Divorces and Annulments by Number and Rate
By County of Action
Kansas, 1980-1984

	Year									
County of	19	80	198	31	19	82	198	1983 198		
Action	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Kansas	13,410	5.7	13,737	5.7	12,392	5.1	12,207	5.0	12,905	5.3
Allen	115	7.3	91	5.7	90	5.5	105	6.4	108	6.5
	33	3.8	30	3.4	45	5.1	36	4.0	39	4.3
	92	5.0	103	5.7	79	4.4	96	5.4	98	5.5
	28	4.3	29	4.4	47	7.2	23	3.5	27	4.1
	206	6.6	230	7.2	162	5.0	175	5.4	180	5.5
Bourbon Brown Butler Chase Chautauqua	96	6.0	98	6.0	98	6.0	100	6.0	86	5.1
	48	4.0	34	2.8	47	3.8	51	4.1	51	4.1
	260	5.8	244	5.3	228	4.8	207	4.3	209	4.2
	9	2.7	19	5.7	10	3.0	6	1.8	7	2.2
	22	4.4	23	4.6	11	2.2	18	3.4	25	4.6
Cherokee Cheyenne Clark Clay Cloud	146	6.5	152	6.9	118	5.3	128	5.7	121	5.3
	19	5.2	16	4.3	17	4.6	15	4.2	15	4.2
	10	3.8	7	2.7	3	1.2	3	1.2	2	0.8
	34	3.5	28	2.8	36	3.6	34	3.4	41	4.0
	44	3.5	54	4.3	29	2.3	49	4.0	53	4.3
Coffey Comanche Cowley Crawford Decatur	63	6.7	45	4.7	69	6.9	79	7.6	84	7.7
	9	3.5	10	3.9	5	2.0	13	5.2	7	2.9
	306	8.3	314	8.5	225	6.0	233	6.1	267	6.9
	232	6.1	240	6.4	176	4.7	187	4.9	205	5.4
	15	3.3	23	5.0	19	4.2	11	2.4	24	5.4
Dickinson Doniphan Douglas Edwards Elk	74	3.7	101	5.0	79	3.9	88	4.3	87	4.3
	37	4.0	30	3.3	42	4.5	26	2.8	47	5.0
	454	6.7	377	5.6	398	5.8	341	5.0	385	5.6
	25	5.9	19	4.4	14	3.2	12	2.8	27	6.4
	21	5.4	16	3.9	12	2.9	16	3.8	14	3.2
Ellis Ellsworth Finney Ford Franklin	131	5.0	163	6.1	110	4.1	136	5.1	143	5.3
	29	4.4	33	4.9	19	2.8	18	2.6	17	2.4
	192	8.1	191	7.8	203	8.2	185	7.3	188	7.3
	131	5.4	166	6.8	136	5.5	146	5.9	171	6.8
	115	5.3	135	6.2	115	5.2	110	4.9	104	4.6
GearyGoveGrahamGrantGray	347	11.6	386	12.8	355	11.7	383	12.6	363	12.0
	10	2.7	13	3.4	9	2.3	7	1.8	4	1.1
	25	6.3	20	4.9	21	5.3	20	5.1	26	6.8
	43	6.2	33	4.5	42	5.6	47	6.2	45	5.8
	11	2.1	18	3.4	16	3.0	18	3.4	21	3.9
Greeley Greenwood Hamilton Harper Harvey	11	6.0	12	6.3	10	5.2	20	10.4	11	5.6
	47	5.4	44	5.2	46	5.5	34	4.1	42	5.2
	17	6.8	10	3.7	16	5.9	8	3.0	14	5.3
	33	4.2	37	4.6	38	4.7	32	3.9	39	4.7
	134	4.4	133	4.3	135	4.3	128	4.0	27	0.8
Haskell Hodgeman Jackson Jefferson Jewell	15	3.9	18	4.3	7	1.7	16	3.9	13	3.2
	7	3.1	4	1.7	9	3.9	6	2.6	8	3.6
	39	3.3	41	3.5	53	4.4	43	3.6	54	4.5
	62	4.1	40	2.5	49	3.0	44	2.6	53	3.1
	17	3.2	22	4.2	22	4.3	13	2.6	19	3.8
Johnson Kearny Kingman Kiowa Labette	1,091	4.0	1,086	3.9	983	3.4	1,081	3.7	1,182	4.0
	14	4.1	13	3.7	20	5.6	18	5.0	12	3.3
	37	4.1	22	2.4	39	4.3	31	3.4	35	3.8
	11	2.7	17	4.3	11	2.8	17	4.4	12	3.1
	127	4.9	155	6.0	147	5.6	130	5.0	122	4.6
LaneLeavenworthLincolnLinnLogan	7	2.8	7	2.8	6	2.4	6	2.4	10	4.1
	283	5.2	337	6.1	371	6.8	327	6.0	358	6.6
	14	3.4	11	2.7	14	3.4	12	3.0	9	2.3
	37	4.5	39	4.7	33	3.9	45	5.4	41	4.9
	20	5.8	18	5.0	15	4.2	14	4.0	19	5.4

Table 37 (cont.) Divorces and Annulments by Number and Rate By County of Action Kansas, 1980-1984

	Year										
	1980		1981		198	2	1983		198	4	
County of Action	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
Lyon Marion Marshall McPherson Meade	229	6.5	215	6.1	200	5.6	202	5.6	184	5.0	
	49	3.6	31	2.3	48	3.6	42	3.1	48	3.6	
	37	2.9	45	3.6	39	3.1	39	3.2	31	2.5	
	121	4.5	118	4.3	73	2.7	100	3.6	121	4.3	
	12	2.5	25	5.2	23	4.8	15	3.1	19	4.0	
Miami Mitchell Montgomery Morris Morton	139	6.4	124	5.7	125	5.7	101	4.6	100	4.6	
	17	2.1	34	4.1	18	2.2	29	3.4	18	2.1	
	237	5.6	310	7.3	282	6.5	261	5.9	289	6.4	
	39	6.1	34	5.3	26	4.1	28	4.4	23	3.6	
	22	6.4	19	5.4	19	5.4	15	4.3	19	5.4	
Nemaha Neosho Ness Norton	22	2.0	21	1.9	16	1.5	20	1.8	28	2.6	
	81	4.3	100	5.3	70	3.7	66	3.4	78	4.0	
	9	2.0	25	5.6	20	4.5	13	3.0	17	3.9	
	23	3.4	38	5.8	20	3.1	29	4.5	20	3.1	
	55	3.6	61	4.0	69	4.4	53	3.3	54	3.3	
Osborne Ottawa Pawnee Phillips Pottawatomie	29	4.9	19	3.3	22	3.8	20	3.5	19	3.4	
	24	4.0	35	5.8	27	4.5	29	4.8	25	4.2	
	32	4.0	48	6.0	45	5.7	42	5.4	41	5.4	
	26	3.5	34	4.5	25	3.4	30	4.1	19	2.6	
	58	3.9	37	2.4	61	3.9	70	4.3	58	3.4	
PrattRawlinsRepublicRice.	50	4.9	49	4.7	72	6.8	75	6.9	65	5.9	
	12	2.9	9	2.3	15	3.9	7	1.8	6	1.6	
	473	7.3	466	7.1	451	6.8	424	6.4	414	6.1	
	29	3.8	25	3.3	20	2.7	12	1.6	28	3.8	
	34	2.9	23	2.0	27	2.3	19	1.7	21	1.8	
Riley Rooks Rush Russell Saline	236	3.7	262	4.0	198	3.0	23 ⁴	3.5	201	3.0	
	23	3.3	24	3.6	31	4.8	22	3.5	17	2.7	
	4	0.9	12	2.7	11	2.5	6	1.4	11	2.6	
	40	4.5	55	6.5	51	6.1	33	4.0	41	5.1	
	297	6.1	359	7.1	243	4.7	287	5.5	365	6.8	
Scott Sedgwick Seward Shawnee Sheridan	14 3,160 83 909 4	2.4 8.6 4.9 5.9	32 3,242 146 803 4	5.3 8.9 8.4 5.1	27 2,963 95 821 2	4.5 8.0 5.4 5.2 0.5	33 2,865 108 794 10	5.4 7.7 6.0 5.0 2.7	35 2,847 129 851 2	5.8 7.6 7.1 5.3 0.5	
Sherman Smith Stafford Stanton Stevens	67	8.6	50	6.4	41	5.3	37	4.8	45	5.9	
	14	2.4	24	4.0	21	3.5	14	2.4	11	1.9	
	17	3.1	28	5.0	29	5.3	18	3.3	22	4.1	
	10	4.3	12	4.7	9	3.5	12	4.7	15	5.9	
	17	3.6	28	5.6	26	5.1	23	4.4	32	6.0	
Sumner Thomas Trego Wabaunsee Wallace	91 38 17 15 2	3.7 4.5 4.1 2.2 1.0	125 35 11 19 3	5.0 4.1 2.7 2.8 1.5	105 43 19 20	4.1 5.0 4.7 2.9	81 36 12 20 5	3.1 4.2 3.0 2.9 2.5	76 44 14 20 5	2.9 5.0 3.6 2.9 2.6	
Washington Wichita Wilson Woodson Wyandotte	23	2.7	15	1.8	15	1.8	10	1.2	21	2.6	
	21	6.9	9	2.9	13	4.4	10	3.5	11	4.0	
	69	5.7	77	6.2	66	5.2	55	4.2	80	6.0	
	18	3.9	20	4.5	18	4.0	26	5.8	21	4.6	
	907	5.3	840	4.8	603	3.5	568	3.3	873	5.1	

Table 38
Population, Live Births and Total Deaths
By City of Residence
Kansas, 1983 and 1984

					1984						
City of	Danulatian	Live B	irths	Total Deaths			Live Births		Total I	eaths	
Residence	Population	Number	Rate	Number	Rate	Population	Number	Rate	Number	Rate	
AbileneAndoverAnthony	6,600	75	11.4	109	16.5	6,585	94	14.3	85	12.9	
	3,025	49	16.2	1	0.3	3,110	51	16.4	11	3.5	
	2,792	34	12.2	55	19.7	2,836	36	12.7	54	19.0	
Arkansas City	13,641	191	14.0	182	13.3	13,908	206	14.8	197	14.2	
Atchison	11,075	165	14.9	144	13.0	11,057	182	16.5	157	14.2	
Augusta	7,526	118	15.7	72	9.6	7,738	115	14.9	76	9.8	
Baldwin City	2,873	25	8.7	23	8.0	2,890	24	8.3	28	9.7	
Baxter Springs	4,816	73	15.2	48	10.0	4,856	50	10.3	63	13.0	
Belleville	2,731	28	10.3	45	16.5	2,709	33	12.2	54	19.9	
Beloit	4,561	53	11.6	49	10.7	4,631	53	11.4	45	9.7	
Bonner Springs	6,270	108	17.2	52	8.3	6,243	89	14.3	46	7.4	
Burlington	3,229	53	16.4	30	9.3	3,372	45	13.3	35	10.4	
Chanute	10,662	176	16.5	134	12.6	10,738	169	15.7	132	12.3	
Cherryvale	2,886	40	13.9	46	15.9	2,948	40	13.6	34	11.5	
Clay Center	5,096	73	14.3	87	17.1	5,122	62	12.1	98	19.1	
Coffeyville	15,828	272	17.2	197	12.4	16,167	248	15.3	194	12.0	
Colby	5,681	120	21.1	47	8.3	5,724	96	16.8	56	9.8	
Columbus	3,457	50	14.5	53	15.3	3,486	64	18.4	78	22.4	
Concordia Derby Dodge City	6,765	114	16.9	83	12.3	6,717	97	14.4	105	15.6	
	9,938	170	17.1	54	5.4	10,030	167	16.7	48	4.8	
	18,415	435	23.6	144	7.8	18,544	416	22.4	175	9.4	
Edwardsville El Dorado Ellinwood	3,366	73	21.7	41	12.2	3,352	61	18.2	34	10.1	
	11,352	178	15.7	138	12.2	11,671	167	14.3	156	13.4	
	2,598	35	13.5	26	10.0	2,621	46	17.6	37	14.1	
Emporia	26,025	473	18.2	209	8.0	26,305	521	19.8	172	6.5	
Eudora	2,979	45	15.1	25	8.4	2,997	44	14.7	23	7.7	
Eureka	3,228	49	15.2	66	20.4	3,184	44	13.8	69	21.7	
Fairway	4,978	44	8.8	42	8.4	5,084	58	11.4	37	7.3	
Fort Scott	9,244	158	17.1	164	17.7	9,362	140	15.0	154	16.4	
Fredonia	3,285	33	10.0	70	21.3	3,374	40	11.9	54	16.0	
FrontenacGalenaGarden City	2,584	43	16.6	20	7.7	2,590	29	11.2	22 ₋	8.5	
	3,619	48	13.3	56	15.5	3,650	48	13.2	52	14.2	
	19,389	568	29.3	135	7.0	19,710	537	27.2	147	7.5	
GarnettGirardGoodland	3,369	48	14.2	69	20.5	3,399	52	15.3	55	16.2	
	2,886	39	13.5	55	19.1	2,892	38	13.1	43	14.9	
	5,644	96	17.0	78	13.8	5,567	91	16.3	52	9.3	
Great Bend	17,199	355	20.6	163	9.5	17,354	361	20.8	169	9.7	
Hays	16,811	335	19.9	123	7.3	16,836	343	20.4	133	7.9	
Haysville	8,131	97	11.9	33	4.1	8,206	109	13.3	33	4.0	
Herington Hesston	2,942	38	12.9	40	13.6	2,936	30	10.2	46	15.7	
	3,138	47	15.0	10	3.2	3,186	39	12.2	23	7.2	
	3,836	55	14.3	57	14.9	3,898	42	10.8	55	14.1	
Hillsboro	2,701	34	12.6	33	12.2	2,703	40	14.8	34	12.6	
Hoisington	3,809	60	15.8	36	9.5	3,843	68	17.7	49	12.8	
Holton	3,234	34	10.5	51	15.8	3,258	46	14.1	59	18.1	
Hugoton Hutchinson Independence	3,480	62	17.8	26	7.5	3,557	68	19.1	41	11.5	
	41,386	681	16.5	396	9.6	41,811	637	15.2	424	10.1	
	11,047	187	16.9	163	14.8	11,283	185	16.4	118	10.5	

Table 38 (cont.)
Population, Live Births and Total Deaths
By City of Residence
Kansas, 1983 and 1984

	1983									
City of Residence		Live Births		Total Deaths			Live Births		Total Deaths	
	Population	Number	Rate	Number	Rate	Population	Number	Rate	Number	Rate
Iola Junction City Kansas City	7,301 19,595 161,173	122 745 3,037	16.7 38.0 18.8	93 162 1,543	12.7 8.3 9.6	7,395 19,632 160,492	122 698 2,987	16.5 35.6 18.6	94 154 1,572	12.7 7.8 9.8
Kingman	3,667 5,293 4,614	40 77 76	10.9 14.5 16.5	55 28 60	15.0 5.3 13.0	3,704 5,275 4,555	46 77 59	12.4 14.6 13.0	39 33 65	10.5 6.3 14.3
.awrence	53,554 33,565 14,399	755 389 131	14.1 11.6 9.1	258 279 111	4.8 8.3 7.7	53,873 33,451 14,706	784 411 126	14.6 12.3 8.6	260 303 74	4.8 9.1 5.0
LenexaLiberalLindsborg	20,088 15,644 3,274	342 344 30	17.0 22.0 9.2	102 110 47	5.1 7.0 14.4	20,517 15,862 3,320	311 347 37	15.2 21.9 11.1	108 123 31	5.3 7.8 9.3
Lyons Manhattan Marysville	4,013 33,935 3,564	79 748 58	19.7 22.0 16.3	58 187 51	14.5 5.5 14.3	3,982 34,010 3,511	60 689 45	15.1 20.3 12.8	64 174 57	16.1 5.1 16.2
McPherson Medicine Lodge Merriam	12,196 2,393 11,633	225 46 164	18.4 19.2 14.1	93 40 71	7.6 16.7 6.1	12,369 2,407 11,881	195 40 149	15.8 16.6 12.5	107 38 77	8.7 15.8 6.5
Mission Mission Hills Mulvane	9,316 4,208 4,349	113 17 79	12.1 4.0 18.2	79 31 30	8.5 7.4 6.9	9,514 4,297 4,410	128 12 68	13.5 2.8 15.4	77 33 27	8.1 7.7 6.1
Neodesha Newton	3,682 17,006 3,294	54 269 50	14.7 15.8 15.2	46 151 48	12.5 8.9 14.6	3,780 17,270 3,271	39 241 53	10.3 14.0 16.2	56 161 57	14.8 9.3 17.4
Olathe Osage City Osawatomie		967 39 66	24.1 14.0 14.6	163 44 60	4.1 15.8 13.3	41,011 2,840 4,531	979 26 66	23.9 9.2 14.6	205 37 60	5.0 13.0 13.2
Ottawa Overland Park	. 88,143	195 1,053 56		137 442 59	5.0	11,391 90,023 4,630		15.9 13.3 17.1	160 443 61	14.0 4.9 13.2
Parsons Phillipsburg Pittsburg	13,171	215 45 271	14.0	179 55 243	17.1	13,284 3,198 18,799	47	14.9 14.7 15.1	145 49 266	10.9 15.3 14.1
Plainville Prairie Village Pratt	. 2,223 . 26,575	50 351 124	13.2	30 166 94	6.2	2,176 27,141 7,424	309	19.3 11.4 14.4	32 175 81	14.7
Roeland Park Russell	. 8,581 5,014		20.3	55 73 405	14.6	1 1	68		58 75 368	15.3
Scott City Shawnee Topeka	4,352 31,958	69	14.9	116 1,148	5 3.6	32,640	500	15.3	38 125 1,210	1
Ulysses Valley Center	5,061 3,352	2 5	0 14.9	1 ^	7 8.1	3,38	2 67	19.8	32 48	13.
Wamego Wellington Wichita Winfield	8,58 283,63	2 14 0 5,86	0 20.7	2,46	5 8.	7 286,23	3 6,24	4 21.8	2,584	9

Source: Kansas Department of Health and Environment

INDEX OF TABLES AND FIGURES

ABORTIONS	
Reported Induced Abortions by Selected Characteristics, 1984 (Figure 9) Number of Abortions Reported in Kansas by Year, 1971-1984 (text table)	
Number of Abortions by Selected Characteristics, 1984 (Figure 9) Abortions: Distribution by Age Group of Patient and Age-Specific Ratios, 1984 (text table) Reported Induced Abortions by Age Group of Patient and Age-Specific Ratios, 1984 (text table)	2.
Abortions: Distribution by Age Group of Patient and Age-Specific Ratios, 1984 (text table) Reported Induced Abortions by Age Group of Patient by County of Residence, 1984 (Appendix Texture)	. 36 . 37
Region ted induced Abortions by Age Group of Patient by County of Residence 1984 (text table)	38
The first table 30	98
ANNULMENTS (See Divorces)	
LIVE BIRTHS	
Birth Rates, Kansas and the U.S. Lo	
Birth Rates, Kansas and the United States, 1964-1984 (Figure 5) Fertility Rates, Kansas and the United States, 1964-1984 (Figure 6) Live Births: Distribution by Race of Mother by Sex of Infant, 1984 (text table)	
	26 28
The office of the control of the con	29
Out-of-wedlock Birth Ratios Kapana and it was a second of the first able 4	
Dive Dirths by Number and Rate by County of B	32 33
Bive Dirths by Age (from of Mother by Courty of B. 1704 Appendix Table 27)	92
Out-of-wedlock Births by Age Croup of Waste 1 20 Mountain, 1764 Appendix Table 28).	94
Population, Live Births and Total Deaths by City of Residence, 1983 and 1984 (Appendix Table 29)	96
DEATHS	118
Death Rates, Kansas and the United States, 1944-1984 (Figure 14). Death Rates by County of Residence, 1984 (Figure 15)	48
Average Age at Death by County of Basidan at 1994 (7)	50
Deaths by Race and Sex, by Age Group and Average Age at Death, 1984 (Table 7). Selected Causes of Death by Age Group and Average Age at Death, 1984 (Table 7).	51
Selected Causes of Death by Age Group and Average Age at Death, 1984 (Table 7). Ten Leading Causes of Death by Sex, by Number, Rate and Average Age at Death, 1984 (Table 8).	52
1984 (Table 9)	54
Ten Leading Causes of Death by Sex and Race, 1984 (Table 10) Selected Leading Causes of Death by Number and Rate, Kapsas and the Unit of Section 1984.	55
Selected Leading Causes of Death by Number and Rate, Kansas and the United States, 1984 (Table 1)	56
Death Rates for Leading Causes of Dooth 1984, 1994 (7)	57
Leading Causes of Death by Age Group, 1984 (Birm, 198	58
Heart Disease Deaths by Age Group and Sex. 1984 (Table 12) Malignant Neoplasm Deaths by Site of Lesion, Age Group and Sex. 1984 (Table 12)	60
Cerebrovascular Disease Deaths by Age County and Sex, 1984 (Table 13)	61 62
Selected Chronic Disease Deaths by Ago Crown and S. 1994 (falle 14)	64
Accidental Deaths by Age Group and Sex, 1984 (Table 16) Suicide and Homicide: Percent Distribution by Age Group and Sex, 1984 (Table 16)	65
Suicide and Homicide: Percent Distribution by Age Group and Sex, 1984 (Figure 19) Ten Leading Causes of Death, Underlying Cause by Non-underlying Cause 1906 (7)	66
Ten Leading Causes of Death, Underlying Cause by Non-underlying Cause, 1984 (Figure 19) Occupation of Decedent by Selected Causes of Death, 1984 (Table 17)	68 70
Type of Industry by Selected Causes of Death 1004 (7)	71
Selected Causes of Death by Health Service Assaulter 19	72
Deaths by Number and Rate by County of Residence, 1980-1984 (Appendix Table 25) Deaths by Age Group and Average Age at Death by County of Residence, 1980-1984 (Appendix Table 33)	89
wenty Leading Causes of Death by Court of Residence, 1984 (Appendix Table 34)	105 107
	110
and 1984 (Appendix Table 38)	118
DIVORCES AND ANNULMENTS	
Marriage and Divorce Rates, 1927-1984 (Figure 20)	
Appulments Percent Distribution by Age Group, 1984 (Figure 22)	74
Divorces and Appulments by Age Group, 1984 (Figure 23)	80
Divorces and Annulments by Number and Passant Land (Table 22)	82 83
Marriage and Divorce Rates, 1927-1984 (Figure 20) Divorces: Percent Distribution by Age Group, 1984 (Figure 22) Annulments: Percent Distribution by Age Group, 1984 (Figure 23) Divorces and Annulments by Duration of Marriage in Years, 1984 (Table 22) Divorces and Annulments by Number and Percent by Number of Minor Children, 1984 (Table 23) Divorces and Annulments by Number and Rate by County of Action, 1980-1984 (Appendix Table 23)	84
	116
FETAL DEATHS (Stillbirths)	
Fetal Deaths: Distribution by Ago Crown of M. d.	
Fetal Deaths by Selected Characteristics, 1984 (Figure 10)	39
,	40

Index of Tables and Figures (cont.)

HEALTH SERVICE AREAS Health Service Areas (Appendix Figure 24) Vital Statistics by Health Service Area, 1984 (Appendix Table 24) Selected Causes of Death by Health Service Area, 1984 (Appendix Table 25)	87 88 89
INFANT DEATHS Infant Deaths by Component, Selected Years, 1954-1984 (Figure 12) Infant Deaths by Cause of Death and Age Group of Infant, 1984 (Table 6) Infant Deaths by Component by County of Residence, 1984 (Appendix Table 32)	44 45 103
MARRIAGES Marriage and Divorce Rates, 1927-1984 (Figure 20) Marriages: Percent Distribution by Age Group, 1984 (Figure 21) Marriages by Age Group of Groom, by Age Group of Bride, 1984 (Table 20) Marriages by Premarital Status of Bride and Groom, 1984 (Table 21) Marriages: Number and Percent by Month, 1984 (text table) Marriages by Number and Rate by County of Marriage, 1980-1984 (Appendix Table 36)	74 76 77 78 78 114
MATERNAL DEATHS Maternal Mortality Rates, Kansas and the United States, 1954-1984 (Figure 13)	46
PERINATAL PERIOD III MORTALITY Perinatal Period III Mortality, 1954-1984 (Figure 11) Perinatal Period III Mortality, Selected Years, 1954-1984 (Table 5) Perinatal Period III Deaths by County of Residence, 1984 (Appendix Table 31)	41 42 100
POPULATION Population Growth in Kansas, Selected Years, 1860-1984 (Figure 3) Population, Natural Increase and Net Migration, 1955-1984 (Table 3) Population Density by County, 1984 (Figure 4) Population by County, 1980-1984 (Appendix Table 26) Population, Live Births and Total Deaths by City of Residence, 1983 and 1984 (Appendix Table 38)	20 22 24 90
VITAL EVENTS Kansas Vital Statistics for 1984 (Figure 1)	4 14 16 17

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HOUSE PUBLIC HEALTH AND WELFARE COMMITTEE

January 16, 1986

HEALTH STATUS

Problems, Programs and Issues

Barbara J. Sabol

Secretary

Kansas Department of Health and Environment

As we end the centennial year of public health in Kansas and start our second century of progress, I wish to review some health trends and point out some significant issues. I will discuss problems that will become greater over the next decade. I will point to problems for which the cause is known, but solutions difficult, and to problems which are decreasing although not as rapidly as other similar problems. In addition, I shall describe some of the Department's health programs which relate to these issues.

Legislative authority for the various programs of the Department of Health and Environment appears in many sections of the Kansas statutes. This large set of public health laws forms the basis for the mission of the Department:

"To protect and promote the health of Kansans by assuring adequate community health services, personal health services, and a safe environment."

In order to carry out this basic mission, the Department has established three major goals. Program areas have been developed in relation to these major goals, with program responsibility assigned to one or more administrative units within the Department.

GOAL I: To provide access to a broad range of information with respect to health, illness, disability and ways in which individuals can protect or improve their own health; and to provide needed services to detect and control, primarily through prevention, illness and disability.

Health Education Programs are one major approach to attaining this goal. Health Education programs are designed to: (1) transfer health information and knowledge, and (2) motivate people toward positive health behaviors. Health education spans the continuum of human life, with programs for family planning, prenatal risk-reduction, infant and child care, school health, adult health promotion and elderly health promotion. Health education is an essential factor in assuring the continuing trend toward self-motivation and self-responsibility for good health.

Individual Health Protection Programs are the second major approach to goal attainment. These programs consist of such activities as: (1) immunizations; (2) well-person maintenance; (3) dental plaque control.

attm :# 3 1-16-86 Hs. PHW Detection Programs are the third approach to achieving the first goal. These programs include such activities as (1) condition-specific screening, (2) contact follow-up, and (3) multi-phasic screening.

GOAL II: To promote access, as needed, to essential personal health services with adequate personnel and facilities, quality protection and reasonable costs.

Diagnostic and Treatment Services are provided to a limited number of high risk mothers and children (obstetrical care, diagnostic radiology, dental care and general medical care).

Rehabilitation Services consisting of both medical rehabilitation and provision of prosthetic services is provided annually to over 2,000 children through our Chronically III and Crippled Children program.

Health Planning including analysis, policy planning, goal setting, and implementation strategy development is a major program of the Department.

Regulation is another major program necessary to achieve our second goal. This includes facility and manpower licensure and certification.

GOAL III: To protect and promote natural and occupational environments conducive to: (a) optimum human and animal health and, (b) preservation of natural resources.

Environmental Quality Management consists of a broad approach including major sub-program emphasis in water supply; wastewater disposal; solid waste disposal; air pollution; housing hazards control; vector control; toxic substances; radiation hazards.

The Food Protection Program deals with safety concerns related to the processing and sale of food products and the preparation and vending of foods.

Occupational Health and Safety Program responsibility is shared with another state agency. The role of the Department is primarily in the area of health hazards.

The Biomedical and Consumer Product Safety Program is concerned with hazardous drugs and medical devices and other hazardous substances and products.

The preceding summary of goals, programs and operating responsibility demonstrates the complexity of the Department's activities and the resultant necessity for a complex set of interrelated functional responsibilities within the Department. The Department of Health and Environment is, in fact, an association of many technical, professional and administrative experts organized around the basic mission and goals of the agency.

Since the beginnings of public health in Kansas the state department's programs have been implemented largely through the efforts of local health departments. The partnership between the state and county departments of health has fabricated an effective public health structure in Kansas. State funding to local health departments will continue. In 1982, legislation was enacted which established a new funding allocation process to health departments that encourages fiscal responsibility at the local level.

The health of Kansans generally is good when using almost any indicator and steadily getting better. Our death rate continues to decrease (see Figure 1) and when adjusted for age, the Kansas rate is significantly lower than the national rate (see Figure 2). This indicates that Kansans are living longer and dying at an older age. The department's efforts over the past 100 years in the areas of infection control, sanitation, infant and maternal mortality, health education, and attention to the quality of food have played a part in the increasing longevity of Kansans. The large decrease in infant and maternal mortality over the last several decades has been a major influence in the decreasing death rates (see Figures 3 and 4).

The health objectives of our department are directed toward (1) reducing or eliminating premature deaths, (2) eliminating or postponing unnecessary disability and chronic disease, and (3) increasing the quality of life for those individuals whose years now regularly extend into the 80's. None of these objectives can be achieved unless we maintain our commitment and efforts toward clean air, clean and abundant water and productive land.

A review of trends helps to determine where we are now and helps to identify the remaining and emerging problems which have resulted, paradoxically in some cases, from the improved health status of Kansans.

It is important to begin with some of the data that we know about Kansas health. The $\underline{\text{Annual Summary of Vital Statistics for Kansas}} - 1984$ contains most of this information.

Problems Related to our Decreasing Death Rates:

In 1900 only 4% of the population of the United States were age 65 or older. By 1980 the national proportion had increased to 11.3% and in Kansas the elderly category equals 13% of the population. As the baby boom children of the 1940's and 1950's grow older the proportion of population 65 and older will reach 18-22%. In Kansas substantial changes have taken place. In the two decades between 1960 and 1980 our total Kansas population increased by 8.5%. The population over age 65 has increased by 27.5% and the population over age 75 has increased by 46.7%. Our population over the age of 85 is growing faster than any other age group. It should be obvious that the population structure per se has implications for the health of the state and special consideration is warranted for people in the age group, 75 and older. During the last

decade the provision of long term care services emerged as one of the most important health and social issues. As you can see the basis for this concern will not diminish. Our department has many interests and responsibilities in this area. We are concerned with the standards of care for individuals living in adult care facilities, and for community services for individuals living in their own homes. We are concerned that these conditions are safe, and healthy; that individuals enjoy their basic rights and will live their remaining years in dignity. Our Department also adopted regulations that will require 24 hour staffing in Intermediate Care Homes with licensed nurses. This will be accomplished in July, 1986. We believe that this is extremely important to better assure quality care We are taking additional for the elderly and disabled in those homes. steps to assure that complaint procedures are adequate and effective in dealing with problems in adult care facilities. Additional legislation allows the department to assess fines more rapidly upon the discovery of infractions which jeopardize the health or safety of individuals in adult care facilities.

While the department has a deep and abiding concern for the quality of care of the elderly and disabled in adult care homes, we have an equal concern for the elderly living in their own homes in the community. any one time only about 5% of our elderly reside in adult care homes, while the other 95% are attempting to live independently. Efforts directed toward keeping the elderly active and independent is cost effective as well as humane. The LIVELY program (Life, Interest and Vigor Entering Later Years), which includes screening, wellness programming and case management is now operating in 14 counties of the state through the efforts of local health departments. The Department of Health and Environment, Department of Aging, and Department of Social and Rehabilitation Services are jointly developing a new initiative on health promotion services for the aging. The intent of these efforts is to build local coalitions among agencies serving the elderly and the elderly, themselves, which will bring health promotion and support services to our senior citizens in all areas of the state.

2. Populations Which Are Not Fully Represented by the Decreasing Mortality Rate:

I will address two, namely, the overall black mortality rate and the black infant mortality rate. Blacks die when they are about 10 years younger than whites. In part, this is related to the black infant mortality rate which I will discuss later. However, earlier death in blacks is also due to high blood pressure, other specific diseases such as sickle cell disease and certain kinds of cancer. The department has a program specifically directed at sickle cell disease in Kansas. Laboratory screening is available for anyone through local health departments. There is a program to address the health care needs associated with the morbidity of sickle cell disease as well. The prevalence rate of high blood pressure is greater among blacks than whites. However, both will

benefit from the hypertension programs which exist in counties and which have been specifically targeted to populations which include both blacks and the aged. In Wichita a program of high blood pressure detection and control is run in the black community by the churches there.

The black infant mortality rate is not falling at the same degree as the overall infant mortality rate or the white infant mortality rate in Kansas. Figure 5 shows the changes in infant mortality rate since 1954. Whereas the white infant mortality rate has decreased from 23.5 to 8.9, the black infant mortality rate has decreased from 42.1 to 20.2 A comparison of rates shows the ratio of the black to white rate in 1954 to be 1.8 to 1, in 1984 the ratio is 2.3 to 1. Clearly the black rate is improving more slowly than the white rate. In the past year we have targeted monies and programs to address this concern with a specific focus on education, nutrition, and health services during the prenatal period. Approximately 85% of the births to black individuals and approximately that portion of the deaths occur in 4 counties, namely, Wyandotte, Sedgwick, Shawnee and Geary. We have begun to integrate all health services and whatever other services we can identify in these counties so that the high risk pregnancies are identified early. Follow-up home visits are initiated if necessary, and a resource person by way of a home visitor is identified for Attention is given to the nutrition needs of this each family at risk. group and to the follow-up of the infants after birth. The socio-economic factors in this group, traditional health and health provider practices in these communities are complex and not easily changed. Poverty is a major factor. In Kansas City we are working directly with the Kansas Children's Service League Black Adoption Program in an attempt to influence the teenage pregnancy rate in that community. We believe that these efforts, if properly targeted and supported, will have benefit in the long term.

3. Programs Which Have Identifiable Causes But Difficult Cures:

You will note from Figure 6 that the causes of premature death have changed. Infections and infant and maternal mortality have decreased; chronic disease and cancer are decreasing also, but violent deaths ("accidents") and suicide are increasing.

In the first example, Figure 7, auto vehicle deaths are equal to all other "accidental" deaths and victims are generally young males. Deaths are in great part alcohol related (Figure 8) and victims seldom use seat belts (Figure 9). There are probably 1,500 occurrences of combined severe and moderate head injuries annually. These represent an enormous cost to the state, not only through lost productivity of its citizens but actual costs (private and public) for medical and other health services. Several state programs relate to "accidents" and "accident" outcome. Educational programs and legislation can increase the use of seat restraints which will reduce the risk of injury.

In 1984, 96% of Kansans killed in traffic accidents were $\underline{\text{not}}$ wearing seat belts at the time of the accident and only 4% were. A risk factor

survey conducted in 1982, revealed that nearly half of adult Kansans never fasten their seat belts and another 20% seldom do. Only 18% reported they always use their seat belt.

According to the Kansas Highway Safety Plan for FY 86, in 1984, 322 fatalities occurred in Kansas. Seat belt effectiveness in fatality prevention would have been 76% if all drivers had used belts when available. Utilizing this measure 245 deaths could have been prevented.

Seventeen (17) states including Nebraska, Oklahoma and Missouri have enacted legislation mandating seat belt use in motor vehicles.

The Kansas Department of Health and Environment recommends that all vehicle occupants be properly restrained, whether by a seat belt or an infant/child restraint system and that the law apply to relevant vehicles on all public roadways.

Most cost effective, however, would be the prevention of accidents. My own view is that calling them accidents is misleading. The causes are clear in over half of the cases: 1) The driving behaviors of young males, and 2) the use of alcohol while driving. The state needs clear strategies for changing these behaviors. Our department nor any other department alone can effect these changes. There needs to be statewide strategies. Some of these are beginning, and our department is participating fully in them. We need clear disincentives to driving under the influence of alcohol. The public needs to be educated on what are probably not "accidents" per se. Strategies to change the driving behaviors of young individuals should be developed. These issues represent instances where the cause is clear and the objectives for our efforts are clear, but the methods of achieving the objectives are extremely complex and difficult.

The second similar example is that of the relationship between lung cancer and smoking. Smoking is considered the number one public health hazard at this time. There is a clear causal relationship between smoking and lung cancer, chronic obstructive pulmonary disease, heart disease and other problems. Not only are the death and morbidity rates high from smoking (it is estimated that 300,000 unnecessary deaths occur annually in the U.S. - about 3,000 of these are in Kansas), but the cost of health care associated with this morbidity and subsequent mortality is also The nonsmoker is often not protected from the ambient extremely high. pollution caused by those who do smoke. The annoyance and the risk to nonsmokers in terms of cancer, allergies, chronic lung disease, eye, nose and throat irritation is significant. Our department strongly supports a policy of no smoking in the workplace and is working with other state agencies to provide workers with options for achieving no smoking in the workplace as well as other health promotion options.

The department chairs the Interdepartmental Task Force on the Hazards of Tobacco Consumption, which is composed of the Cancer, Lung and Heart

Associations in addition to state agencies. The hazards of smokeless tobacco has also been highlighted as an important health awareness issue. The department is supportive of city ordinances which restrict smoking. Presently, Wichita and Overland Park have passed a smoking restriction ordinance and Topeka has one in process.

A new challenge facing the country as well as our state is the infectious disease AIDS. The cause of AIDS is known but a cure or vaccine has not been developed. Our Department is involved with public education and have established alternate test sites at local health departments. Counseling and testing for the presence of HTLV-III antibody are conducted at these sites.

4. Health Care Costs:

The issue of health care costs is very complex and interrelated. The escalation of these costs have been the result of an increase in technological developments in health which have increased the types and costs of patient treatment. The medicare and medicaid programs along with their original payment mechanism, as well as general inflation within the economy has been another significant factor.

Developing and implementing solutions to the problem of increasing health care costs requires the joint efforts of government and the private sector. The federal government initiated the effort through a prospective payment system for medicare providers. Kansas Blue Cross and Blue Shield has taken the Gad, among its counterparts in the country, in implementing a prospective payment system for all its members. The direction of health care cost control clearly lies in changes in the health care market place and in the ways health care is delivered.

It appears that much of the responsibility for health care in the next few years will gradually shift from the state and federal governments to local agencies and to families, themselves. The trend toward earlier release of sick patients from the hospital, restrictions on in-hospital admissions and more use of out-patient surgery and facilities mean that more and more frequently, family members must be provided with the support and skills necessary in order for them to care for the patient at home. As our population balance swings more to the elderly, as medical technology continues to prolong life and as the health care dollar dwindles, families and local agencies, such as local health departments and home health agencies, will be called upon to do more and more.

5. Rural Hospitals:

Rural hospitals today are faced with a number of problems and issues that affect not only their financial viability but their very existence. The issues that are presently being addressed are the need to maintain high occupancy levels, the higher proportion of elderly and poor being

served in rural hospitals, the difficulty of attracting and retaining medical personnel, the limited ability to purchase expensive high-tech equipment necessary to expand services necessary to attract physicians, and changes in reimbursement for hospital services under Medicare (DRGs).

Regardless of these problems, rural hospitals do have options that would increase their chances for survival. Such options include in-house long-range planning, marketing, diversification of services, corporate restructuring, innovative recruitment and staffing techniques and informal and formal multi-hospital arrangements.

6. General Programs:

For the general health of Kansans, lifestyle factors are emerging, as major determinants for health outcomes. Some of these have already been mentioned, e.g., smoking, alcohol usage, and the country's driving habits, eating habits, physical fitness, attention to stress and safety for others. In FY 1985, the Governor established a Cabinet Sub-Committee on State Employees Health Promotion and Wellness Program called "Health Promotion PLUS." Our department, is chairing that committee. The adoption of healthful lifestyles in the workplace will improve employee job satisfaction and performance and will reduce health care costs. This program is being promoted through Health Promotion PLUS worksite wellness training programs that our department is offering to both county health departments and state agencies.

Prenatal care is a high priority of KDHE. Many women do not receive adequate care (see Figure 10). The Healthy Start Home Visitor Program of the Department has expanded to provide information on prenatal risk reduction, infant care and prenatal adjustment to families in 30 Kansas Counties. Prenatal risk reduction efforts have also included a Fetal Alcohol Awareness Project. With the voluntary cooperation of liquor store owners, we have distributed 150 signs informing the public about the dangers of drinking during pregnancy. Efforts are continuing to assure professional education and awareness of fetal alcohol and other prenatal risk factors such as general nutrition, smoking and the need for early prenatal care.

Recent research findings on Fetal Alcohol Syndrome and Alcohol Related Birth Defects have indicated a surprisingly high rate of susceptibility of black women to alcohol related birth defects, seven times that of white women. These findings indicate a need for alcohol abuse prevention programs specifically targeted toward black women of childbearing age.

The Department of Health and Environment is taking an active role in the Cabinet Subcommittee on Preschool Handicapped Children as it plans for early identification, follow-along, and development of services for infants and preschool children with high risk for handicapping conditions. To assist with this program the Crippled and Chronically Ill Children's

Program has expanded services to include seizures, severe visual impairments and cranio facial anomalies.

The Supplemental Food Program for eligible pregnant breast feeding women, infants and children has been expanded to all 105 Kansas counties. The purpose of this program is to prevent or correct health problems related to poor nutrition.

Family planning services have been provided in 65 communities to 45,000 men and women in 1985. Early pregnancy tests and referrals for comprehensive prenatal care are included in this service.

The ongoing training of school health personnel is an essential factor in the early detection of health problems and early education of children regarding the importance of healthy lifestyles.

For years, there has been an active program for the identification, control and treatment of tuberculosis (TB). The number of active cases have been reduced from 194 in 1975 to 82 in 1985. The Governor has recommended, for FY 1987, that funding to the TB clinics be eliminated.

Because of the widespread use of asbestos and its potential hazard to public health, the Department of Health and Environment is taking the lead, working closely with the Departments of Human Resources and Education, to deal with the problems and respond to school districts for inspections necessary to meet EPA requirements.

In Summary:

Health problems today are vastly different from those one hundred years ago or even 25 years ago. The improvements in life expectancy have uncovered pockets resisting improvement, have created new problems — those associated with old age. The changing times have given us greater understanding of some diseases, but have placed new challenges on our ability to understand other diseases and our ability to prevent them. We are attempting to focus and rechannel our limited resources to address these changing problems.

A significant change has occurred in the population's health status since the turn of the century. Due to public health efforts, there has been a steady decline in morbidity and mortality rates related to a number of acute and infectious diseases. As a result, life expectancy has significantly increased.

However, countering these improvements, there has been a steady increase in morbidity and mortality associated with chronic disorders. The elderly population, especially the 75 years of age and older are at high risk of chronic disease, disability and institutionalization. This aging of the population will continue in the future. However, the challenge lies not only in providing needed services to the elderly, but also to ensure a healthy

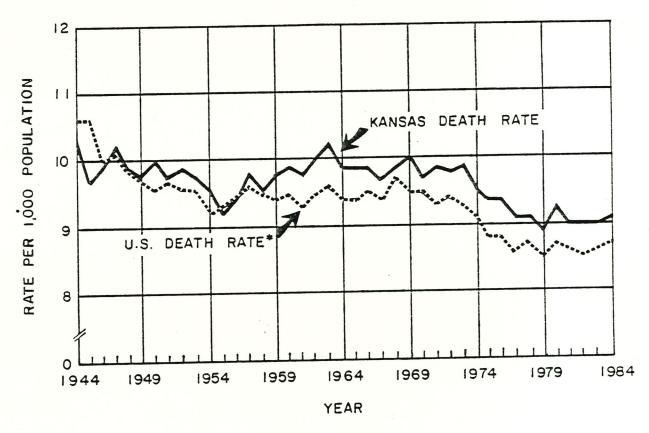
start for the very young.

The health status of our population depends on the adoption of healthy lifestyles, the availability of accessible and affordable health care services for all age groups and implementing appropriate health care legislation. With these concepts in mind, I wish to reiterate the importance of comprehensive prenatal care, 24 hour care in intermediate adult care homes, mandatory seatbelt usage and continuation of funding to local health departments.

attm. # 3

FIGURE 1





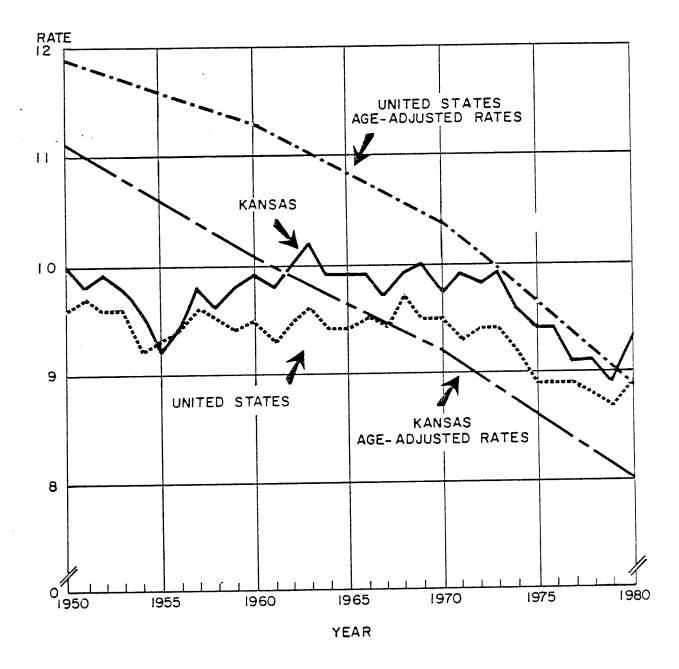
*1983 and 1984 United States death rates represent provisional data from the National Center for Health Statistics.

Residence data.

Source: Kansas Department of Health and Environment

Attm.# 3 1-16-86

CRUDE DEATH RATES BY YEAR KANSAS AND THE UNITED STATES, 1950-1980 AND AGE-ADJUSTED RATES, KANSAS AND THE UNITED STATES, 1950, 1960, 1970, 1980

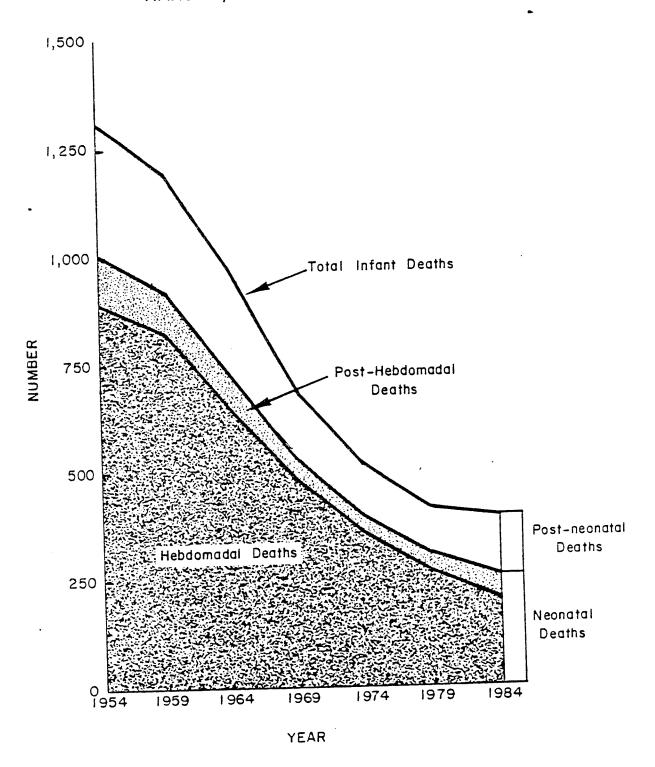


Residence data.
United States 1979 and 1980 rates are provisional.
The 1980 United States population was used as the standard for computing all age-adjusted death rates.

Sources:

Kansas Department of Health and Environment National Center for Health Statistics

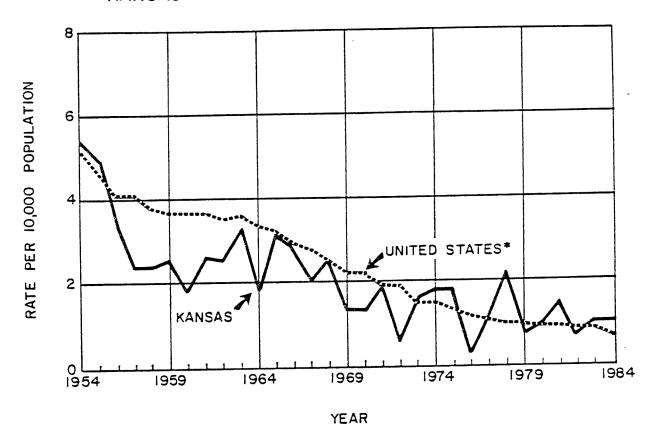
INFANT DEATHS BY COMPONENT KANSAS, SELECTED YEARS, 1954-1984



Residence data.

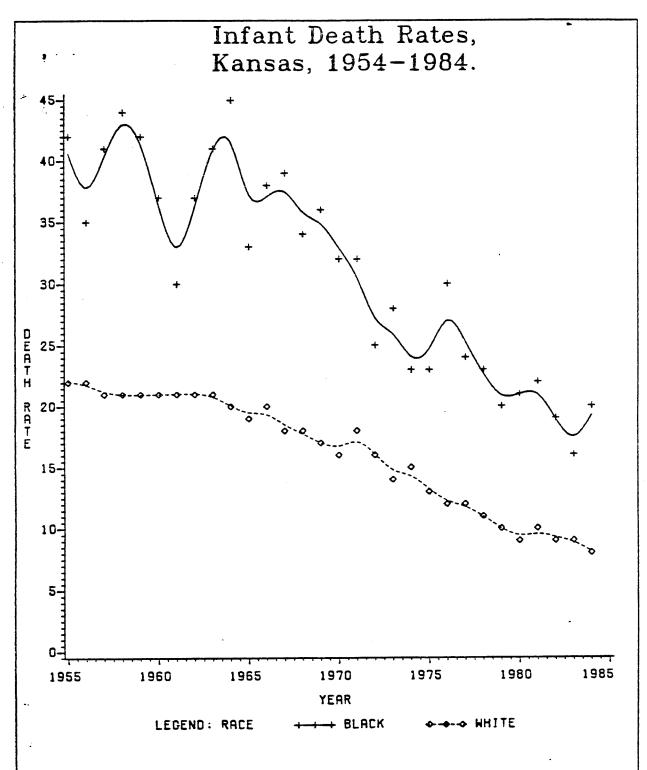
Source: Kansas Department of Health and Environment

MATERNAL MORTALITY RATES - KANSAS AND THE UNITED STATES, 1954-1984



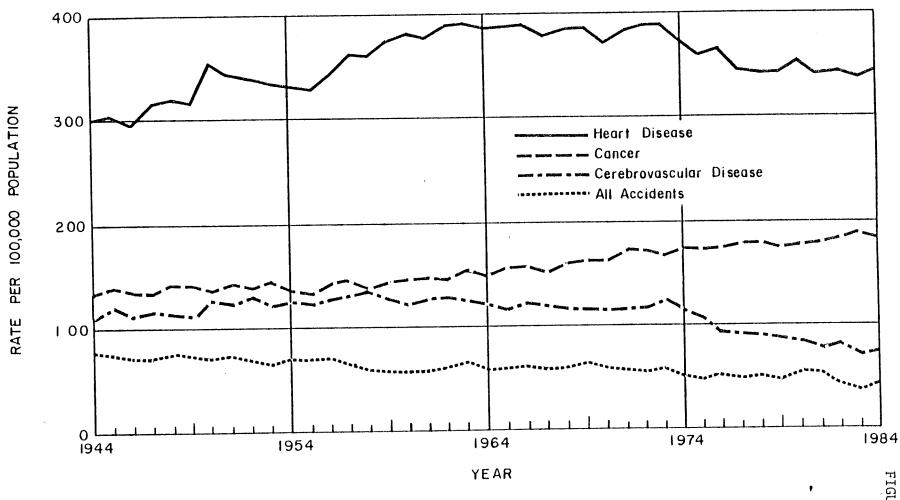
*1983 and 1984 maternal mortality rates represent provisional data from the National Center for Health Statistics.

Source: Kansas Department of Health and Environment



Source: Kansas Department of Health & Environment Note: Trend lines shown are smoothed splines fitted to the data.

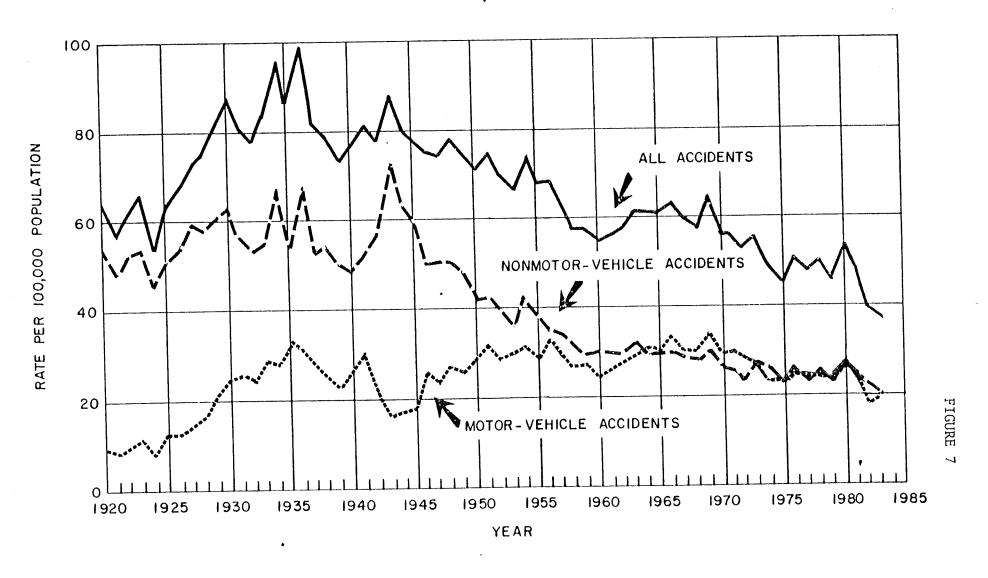
DEATH RATES FOR LEADING CAUSES OF DEATH KANSAS, 1944-1984



Residence data.

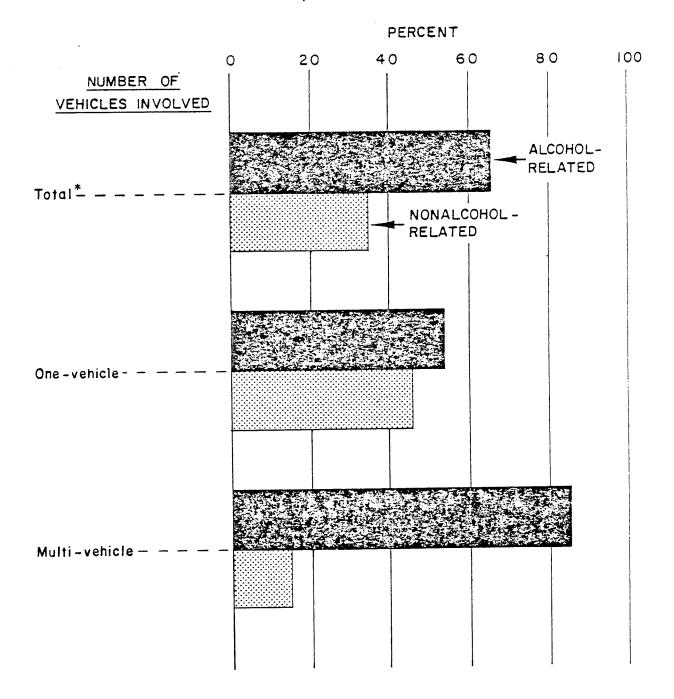
Source: Kansas Department of Health and Environment

ACCIDENTAL DEATH RATES BY TYPE OF ACCIDENT KANSAS, 1920-1983



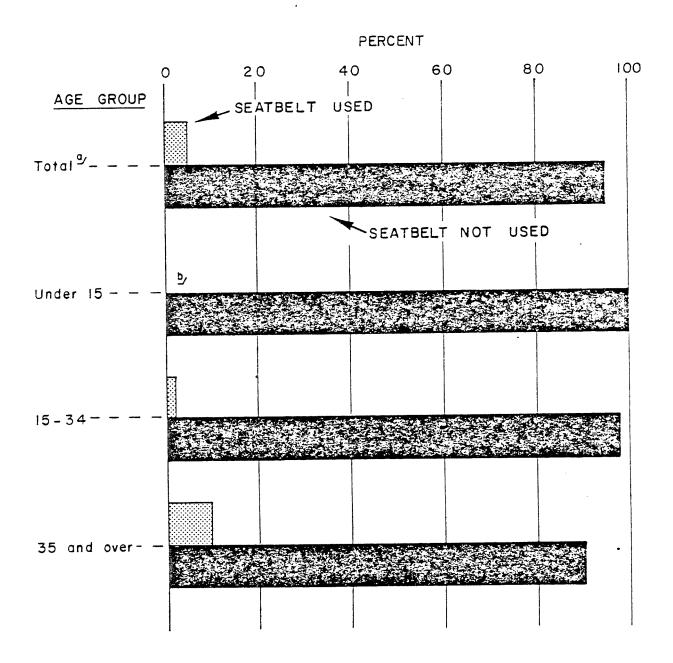
Source: Kansas Department of Health and Environment

MOTOR-VEHICLE ACCIDENT DEATHS: PERCENT DISTRIBUTION OF ALCOHOL STATUS BY NUMBER OF VEHICLES INVOLVED KANSAS, 1982 - 1983



^{*}This total (426) does not include pedestrian accidents, pedal cyclist accidents or those accidents that did not specify condition of the driver(s) on the Kansas Motor-Vehicle Accident Death Statistical Transcript Source: Kansas Department of Health and Environment

MOTOR-VEHICLE ACCIDENT DEATHS: PERCENT DISTRIBUTION OF SEATBELT USE BY AGE GROUP OF DECEDENT, KANSAS, 1982-1983

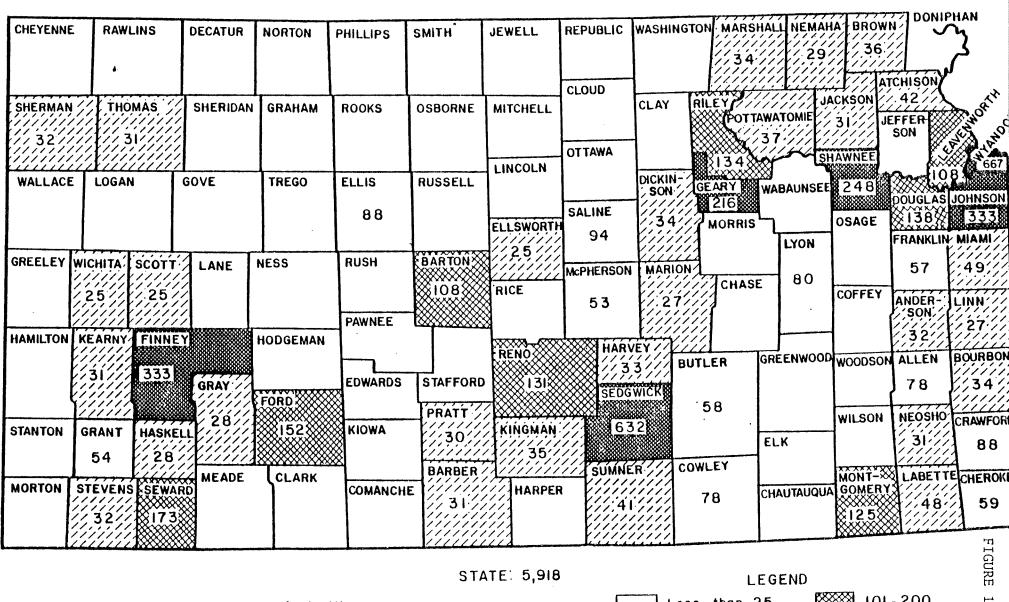


This total (519) does not include pedestrian accidents, pedal cyclist accidents, motorcycle accidents or those accidents that did not specify seatbelt use on the Kansas Motor-Vehicle Accident Statistical Transcript.

Source: Kansas Department of Health and Environment

by None of the decedents under 15 years of age used a seatbelt.

PRENATAL CARE NUMBER OF WOMEN WHO DID NOT RECEIVE ADEQUATE PRENATAL CARE BY COUNTY OF RESIDENCE, KANSAS, 1984



101-200 Less than 25 Source: Kansas Department of Health and Environment Over 200 25-50 51-100

Summary of Proposed Amendment of Parentage Act 1986 Legislative Session

K.S.A. 65-2422 was amended during the 1985 legislative session, per the Parentage Act, to remove any reference to illegitimacy on birth certifications made to applicants. In doing so the wording was changed to read: "No information concerning the birth of a child shall be disclosed in a manner that enables determination of whether the child's parents were married at the time of the child's birth....."

As per the above, K.S.A. 65-2422 now requires special handling of every certified copy request for birth certificates of individuals born between 1911 and 1948, because those certificates contain marital information in the portion of the certificate to be certified. The special handling requires that a copy be produced from the microfilm, marital information deleted, and a second copy produced from the first and certified.

Since one of the objectives of the Parentage Act was to protect the confidentiality and privacy of those individuals born out-of-wedlock, it seems the problems could be resolved simply by changing the wording as proposed. Such a change would allow staff to process the majority of requests as normal and would require special handling only of those certificates whereby the individual was born out-of-wedlock; therefore, we would still be protecting the confidentiality of those that were born out-of-wedlock in the manner we are presently. We therefore recommend the wording change as indicated in K.S.A. 1985 Supp. 65-2422b. of the drafted bill.

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AN ACT enacting the Kansas parentage act; amending K.S.A. 1985 Supp. 65-2422 and repealing the existing section.

Be it enacted by the Legislature of the State of Kansas:

Section 1. K.S.A. 1985 Supp. 65-2422 is hereby amended to read as follows: 65-2422. (a) The records and files of the division of health pertaining to vital statistics shall be open to inspection, subject to the provisions of this act and regulations of the secretary. It shall be unlawful for any officer or employee of the state to disclose data contained in vital statistical records, except as authorized by this act and the secretary and it shall be unlawful for any officer or employee of the state to disclose data contained in vital statistical records, except as authorized by this act and the secretary, and it shall be unlawful for anyone who possesses, stores or in any way handles vital statistics records under contract with the state to disclose any data contained in the records, except as authorized by law.

- (b) No information concerning the birth of a child shall be disclosed in a manner that enables determination of-whether that the ehild's child parents-were-married-at-the-time-of-the ehild's-birth was born out of wedlock, except upon order of a court in a case where the information is necessary for the determination of personal or property rights and then only for that purpose.
- (c) The state registrar shall not permit inspection of the records or issue a certified copy of a certificate or part thereof unless the state registrar is satisfied that the applicant therefor has a direct interest in the matter recorded and that the information contained in the record is necessary for

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the determination of personal or property rights. The state registrar's decision shall be subject, however, to review by the secretary or a court under the limitations of this section.

- (d) The secretary shall permit the use of data contained in vital statistical records for research purposes only, but no identifying use of them shall be made.
- (e) Subject to the provisions of this section the secretary may direct local registrars to make a return upon the filing of birth, death and stillbirth certificates with them of certain data shown thereon to federal, state or municipal agencies. Payment by those agencies for the services may be made through the state registrar to local registrars as the secretary directs.
- (f) On or before the 20th day of each month, the state registrar shall furnish to the county election officer of each county, without charge a list of deceased residents of the county who were at least 18 years of age and for whom death certificates have been filed in the office of the state registrar during the preceding calendar month. The list shall include the name, age, or date of birth, address and date of death of each of the deceased persons and shall be used solely by the election officer for the purpose of correcting records of their offices.
- (g) No person shall prepare or issue any certificate which purports to be an original, certified copy or copy of a certificate of birth, death or fetal death, except as authorized in this act or regulations adopted under this act.

Sec. 2. K.S.A. 1985 Supp. 65-2422 is hereby repealed.

Sec. 3. This act shall take effect and be in force from and after its publication. in Kansas Register.

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KDHE REVIEW OF PROPOSED LEGISLATION

Reporting of conditions in children who are at risk for, or diagnosed as having, mental illness, mental retardation, a handicap or chronic disease.

Summary

The purpose of the bill is to require primary care physicians to report conditions in preschool children ages zero through five that are likely to lead to, or that indicate the existence of mental illness, mental retardation, a handicap or chronic disease. The purpose of this reporting is to collect information concerning the number of preschool children within the state who are at risk for, or who have, handicapping conditions in order to plan for and make available services to these children and their families. This information will be used only as aggregate data for research and statistical purposes and may not be used to identify a child without permission from that child's parent or guardian.

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AN ACT relating to reporting of conditions of children in certain situations.

Be it enacted by the Legislature of the State of Kansas:

New Section 1: Definitions. As used in this act:

- (a) "Adaptive behavior" means the effectiveness or degree with which an individual meets the standards of personal independence and social responsibility expected of that person's age, cultural group and community.
- (b) "Handicap or chronic disease" is an organic disease, defect or condition which may hinder the achievement of normal physical growth and development.
- abilities which disrupt the individual's academic or developmental progress, family or interpersonal relationships, and have continued for an extended period of time or on the basis of specific diagnosis are judged likely to continue for an extended period of time.
- (d) "Mental retardation" means significantly subaverage general intellectual functioning existing concurrently with deficits in adaptive behavior.
- (e) "Physician" means a person licensed to practice medicine and surgery.
- (f) "Secretary" means the secretary of health and environment.
- (g) "Significantly subaverage general intellectual functioning" means performance which is two or more standard deviations from the mean score on a standardized intelligence test specified by the secretary.

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New Sec. 2. Reporting of conditions in children who are at risk for, or diagnosed as having, mental illness, mental retardation, a handicap or chronic disease. The secretary of health and environment shall supervise the reporting of conditions in preschool children ages 0 through 5 that are likely to lead to, or that indicate the existence of mental illness, mental retardation, a handicap or chronic disease. Every primary care physician treating a child with such condition as defined in rules and regulations promulgated by the secretary under this act, shall report the case to the secretary of health and environment on forms provided by the secretary. The purpose of this reporting is to collect and compile complete and accurate information concerning the number of preschool children within the state who are at risk for, or who have, handicapping conditions in order to plan for and make available services to these children and their families. This information will be used only as aggregate data for research and statistical purposes and may not be used to identify a child without permission from that child's parent or guardian.

New Sec. 3. Immunity from liability. Any physician who reports the information required to be reported in good faith and without malice shall have immunity from any liability, civil or criminal, that might otherwise be incurred or imposed in an action resulting from such report. Any such person shall have the same immunity with respect to participation in any judicial proceeding resulting from such report.

New Sec. 4. Confidentiality of information; exceptions. Information obtained by the secretary under the provisions of this act is confidential and shall not be disclosed except as provided in this section. The secretary may disclose information obtained under the provisions of this act: (a) Upon the consent, in writing, of the person who is the subject of the

information, or if such person is under eighteen (18) years of age, by such person's parent or guardian; or (b) upon the request of an organization or individual conducting a scholarly investigation for legitimate research or data collection purposes, so long as such information is disclosed in a manner which will not reveal the identity of the persons who are the subject of the information or the identity of the physician reporting such information.

New Sec. 5. Removal of records. The secretary shall remove the records of a child whose parent or guardian requests in writing such action.

New Sec. 6. Penalty for disclosure of confidential information. Any person, association, firm, corporation, organization or other agency willfully or knowingly permitting or encouraging the disclosure of information obtained pursuant to the provisions of this act and not otherwise authorized to be disclosed under the provisions of this act shall be quilty of a class C misdmeanor.

New Sec. 7. Act not to effect mode of treatment. Nothing in this act shall be construed or operate to empower or authorize the secretary to restrict in any manner the right of a physician to recommend a mode of treatment for mental illness, mental retardation, handicaps or chronic diseases or to restrict in any manner an individual's right to select the mode of treatment of his or her choice.

New Sec. 8. Rules and regulations. The secretary may adopt reasonable rules and regulations necessary to carry out the provisions of this act.

New Sec. 9. This act shall take effect and be $% \left(1\right) =0$ in force from and after its publication in the statute book.