

**Institute for Public Policy and Business Research
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Economic Trends for Northeast Kansas:

Atchison County
Brown County
Doniphan County
Jackson County
Jefferson County
Nemaha County

Prepared for the Northeast Kansas Coalition for Regional Economic Development
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Foreword

The Kansas Center for Community Economic Development (KCCED) is a joint center of the Institute for Public Policy and Business Research at the University of Kansas and the Kansas Center for Rural Initiatives at Kansas State University. Its purpose is to enhance economic development efforts by bringing university expertise to rural Kansas.

This economic trend report was prepared by the KCCED at the University of Kansas for Northeast Coalition for Regional Economic Development (NEKCRED). NEKCRED was formed in 1995 “to identify, coordinate, and implement regional economic development efforts, which will strengthen the economy of Northeast Kansas.” The coalition includes Atchison, Brown, Doniphan, Jackson, Jefferson, and Nemaha Counties. Looking at data trends is important because it provides a new perspective on the community and allows for a greater understanding of internal and external forces that influence a community.

KCCED is funded by a grant from the Economic Development Administration of the U.S. Department of Commerce. The statements, findings, and conclusions of this report are those of the authors and do not necessarily reflect the views of the U.S. Government, the University of Kansas, or any other individual or organization.

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ECONOMIC TRENDS FOR NORTHEAST KANSAS

INTRODUCTION

The use of data in economic development is important because it helps a community to evaluate its current situation across several different areas of economic and demographic performance. However, data by itself does not lead to a well-founded understanding of the community. Data must be analyzed and interpreted, considering the intuition of those within the community about what the overall trends really mean. In other words, data serves as the foundation for an analysis which concludes: 1) what is happening in the community compared with other regions over time, and 2) what potential impacts or consequences are suggested from the data.

This report will discuss key demographic and economic variables for a coalition of counties in Northeast Kansas called NEKCRED.¹ The report will include the following areas:

- Population
- Employment and Earnings
- Business and Manufacturing
- Agriculture
- Income
- Education

POPULATION

Population size and economic activity are closely related. Generally, areas of population growth are also areas of economic growth while areas of population loss are areas that have suffered previous economic decline. Changes in population size are directly linked to employment opportunities, wage differentials between regions, and a community's overall economic conditions and quality of life. Communities with growing populations are generally better able to adapt to a changing economic environment due to the opportunities presented by new residents as additional consumers, taxpayers and suppliers of labor. Without population growth, communities face problems of a tightening labor market, lack of new customers for businesses, a shrinking tax base and an overall decline in economic activity.

Population characteristics are regarded as indicators of a region's economic conditions and economic potential. A minimum population is necessary to sustain a basic level of public and private services and facilities. Past and projected changes in population indicate community economic trends that can be compared with other counties and the statewide and national averages.

¹NEKCRED - Northeast Kansas Coalition for Regional Economic Development. NEKCRED counties refer to Atchison, Brown, Doniphan, Jackson, Jefferson, and Nemaha Counties.

Migration is linked to job opportunities, demand, and wage differentials. Counties with low rates of job creation will face higher worker mobility due to a "push" factor (lack of opportunity) or a "pull" phenomenon by urban areas with higher wages, better job opportunities, and a perceived better quality of life. Other determinants of regional migration are age and education. Generally, there is a life cycle pattern to migration with the population aged 18-45 being the most mobile age group. The effect of education on migration is reflected by the movement of well-educated workers toward better job matches for themselves and their spouses and their attempts to raise their income levels by migrating to areas with employment opportunities.

This section consists of population tables, figures and maps on population totals and growth rates from 1890 to 1997, population change from 1960 to 1997, percent net migration from 1980 to 1997, and population rankings.

Key Findings: Population

- During the period 1890 to 1997, NEKCRED's population was at its highest in 1900 at 121,080; the current estimated population for 1997 was 75,240 (**Table 1**). NEKCRED's population dipped to 74,045, its lowest level, in 1991. From 1990 to 1997, population grew 1.6 percent. In 1996, population grew nearly twice as fast (ratio: 1.89) as the state. NEKCRED's share of state population has decreased from 8.23 percent in 1890 to 2.9 percent in 1997. [*For individual county population totals, see Appendix A.*]
- NEKCRED's population did not grow as much as some of the surrounding counties in Kansas. From 1940 to 1990, Douglas, Johnson, Leavenworth and Shawnee Counties all improved their population ranks. Within NEKCRED, Atchison, Brown, Doniphan, and Nemaha declined in rank, while Jackson and Jefferson Counties improved their population ranks (**Table 2**).
- The percentage of population 65 and older in NEKCRED increased from 15.2 percent in 1990 to 17.7 percent in 1996 (**Tables 4 and 4a**). The 25-44 age group also saw its share of total population increase from 23.5 percent in 1990 to 26.3 percent in 1996. NEKCRED's 1-19 age group saw a decline of nearly ten percentage points from 1990 to 1996. The State saw a similar decline in this age group.
- As a percentage of total population, the NEKCRED counties have an older population than Kansas with 17.7 percent of its population over 65 in 1996 compared to 13.3 percent for Kansas (**Table 4a**). NEKCRED also has a smaller percentage of its population in the prime working age (25-44) at 26.3 percent compared to 30.4 percent for Kansas (**Table 4a**).

- The counties surrounding NEKCRED in Kansas, Nebraska, and Missouri experienced more population growth from 1960 to 1997 than the NEKCRED region (**Table 3**). **Figure 1** further illustrates that population growth for NEKCRED has lagged behind its neighboring counties and Kansas as a whole from 1960 to 1997.
- The decline in population for some NEKCRED Counties from 1990 to 1997 when compared with increases elsewhere suggests that these counties and the area may lack competitiveness with other regions of Kansas (**Map 1**). Jackson and Jefferson Counties, however, have experienced population increases from 1990 to 1997.
- The NEKCRED counties as a whole have experienced out migration during the 1980s, indicating that the area lags behind other parts of the state, particularly Douglas and Johnson Counties, in job opportunities and wages (**Maps 2 and 2a**). Given the continued decline in population for the NEKCRED counties, the area could be facing difficulty in maintaining the level of public and private services if the trend is not reversed.

TABLE 1. POPULATION TOTALS, GROWTH RATES, RANK & SHARE
ACTUAL 1920-1990, ESTIMATES 1991-1997

YEAR	NEKCRED		KANSAS		NEKCRED
	Population Total	Growth Rate	Population Total	Growth Rate	Share (%)
1890	111,107	--	1,427,096	--	7.79
1900	121,080	9.0	1,470,495	3.0	8.23
1910	115,602	-4.5	1,690,949	15.0	6.84
1920	106,530	-7.8	1,769,257	4.6	6.02
1930	105,808	-0.7	1,880,999	6.3	5.63
1940	95,414	-9.8	1,801,028	-4.3	5.30
1950	83,169	-12.8	1,905,299	5.8	4.37
1960	78,159	-6.0	2,178,611	14.3	3.59
1970	74,069	-5.2	2,249,071	3.2	3.29
1980	77,682	4.9	2,364,236	5.1	3.29
1990	74,070	-4.6	2,477,588	4.8	2.99
1991*	74,045	0.0	2,491,659	0.6	2.97
1992*	74,062	0.0	2,517,791	1.0	2.94
1993*	74,275	0.3	2,534,668	0.7	2.93
1994*	74,309	0.0	2,553,889	0.8	2.91
1995*	74,326	0.0	2,569,619	0.6	2.89
1996*	74,846	0.7	2,579,149	0.4	2.90
1997*	75,240	0.5	2,594,840	0.6	2.90

⁺ Growth Index is equal to County Growth Rate divided by Kansas Growth Rate.

* Estimate

Source: Population Totals: U.S. Bureau of the Census, Fifteenth Census of the United States, 1930 Vol. 1; "Census of Population, 1960: Number of Inhabitants; 1980 Census of Population", Vol. 1, Chapter A, Part 18; "1990 Decennial Census", mimeographed sheet; 1991-1997 Population Estimates, U.S. Bureau of Census.

TABLE 2. POPULATION OF NEKCRED AND NEIGHBORING COUNTIES
(THOUSANDS)
1940 & 1990

1940			1990		
County	Population	RANK	County	Population	Rank
Shawnee	91	3	Johnson	355	2
Leavenworth	41	7	Shawnee	161	4
Johnson	33	9	Douglas	82	5
Douglas	25	16	Leavenworth	64	7
Atchison	22	20	Atchison	17	30
Marshall	21	23	Pottawatomie	16	31
Brown	17	32	Jefferson	16	32
Nemaha	17	36	Marshall	12	37
Pottawatomie	14	41	Jackson	12	38
Jackson	13	43	Brown	11	39
Doniphan	13	46	Nemaha	10	42
Jefferson	13	47	Doniphan	8	50
Wabaunsee	9	67	Wabaunsee	7	60

Source: University of Kansas, Institute for Public Policy and Business Research, "Kansas Statistical Abstract", 1993-1994, "Population of Kansas Counties, 1890-1980; U.S. Bureau of the Census, "Fifteenth Census of the United States, 1930, Vol. 1"; "Census of Population, 1960: Number of Inhabitants"; "1980 Census of Population, Vol. 1, Chapter A, Part 18"; "1990 Decennial Census". Population Projections, 1990-2030, "Kansas Division of the Budget, September, 1992. Calculations: IPPBR.

TABLE 3. POPULATION GROWTH RATES
NEKCRED, NEIGHBORING COUNTIES, KANSAS, AND UNITED STATES
1960 - 1997

	1960-70	1970-80	1980-90	1990-97
Atchison	-8.3%	-4.0%	-8.0%	-3.6%
Brown	-11.7	2.3	-6.9	-0.8
Doniphan	-4.9	1.8	-12.2	-5.8
Jackson	0.3	12.6	-1.0	4.4
Jefferson	6.2	27.3	4.6	12.7
Nemaha	-8.3	-5.2	-6.8	-1.8
NEKCRED	-5.2	4.9	-4.6	1.6
Douglas	32.5	16.8	20.9	11.4
Johnson	53.0	22.8	31.4	17.6
Pottawatomie	-1.7	25.8	9.1	12.9
Leavenworth	9.9	2.8	17.4	9.0
Shawnee	9.9	-0.3	3.9	2.5
Wabaunsee	-3.8	7.3	-3.8	1.5
Marshall	-15.8	-2.7	-8.5	-4.8
Andrew (MO)	7.7	17.4	4.7	4.7
Buchanan (MO)	-4.0	1.1	-5.5	-1.6
Holt (MO)	-15.6	3.4	-12.3	-6.7
Platte (MO)	37.4	44.4	24.9	18.7
Pawnee (NE)	-16.5	-12.0	-15.7	-4.4
Richardson (NE)	-11.7	-7.8	-12.2	-3.8
Total Neighboring Counties	19.3	11.9	15.8	10.6
Kansas	3.2	5.1	4.8	4.7
United States	13.4	11.4	9.8	7.3

Source: U.S. Bureau of the Census, "Census of Population, 1960"; Final Report: "1980 Census of Population"; PC90-1-A-18; "1990 Decennial Census"; Population Estimates, U.S. Bureau of Census "Population and Housing Unit Estimates (1997)".

TABLE 4. AGE GROUPS AS A PERCENTAGE OF TOTAL POPULATION
NEKCRED COUNTIES AND KANSAS
1990

	1-19	20-25	26-44	45-64	65+
Atchison	40.0%	6.0%	22.8%	16.4%	14.8%
Brown	40.1	3.9	22.1	15.4	18.5
Doniphan	38.5	5.2	24.0	16.3	16.0
Jackson	41.5	4.3	24.0	16.5	13.7
Jefferson	39.8	4.2	25.8	17.7	12.5
Nemaha	41.4	3.8	21.7	15.6	17.4
NEKCRED	40.3	4.6	23.5	16.4	15.2
Kansas	39.9	6.4	27.0	15.2	11.6

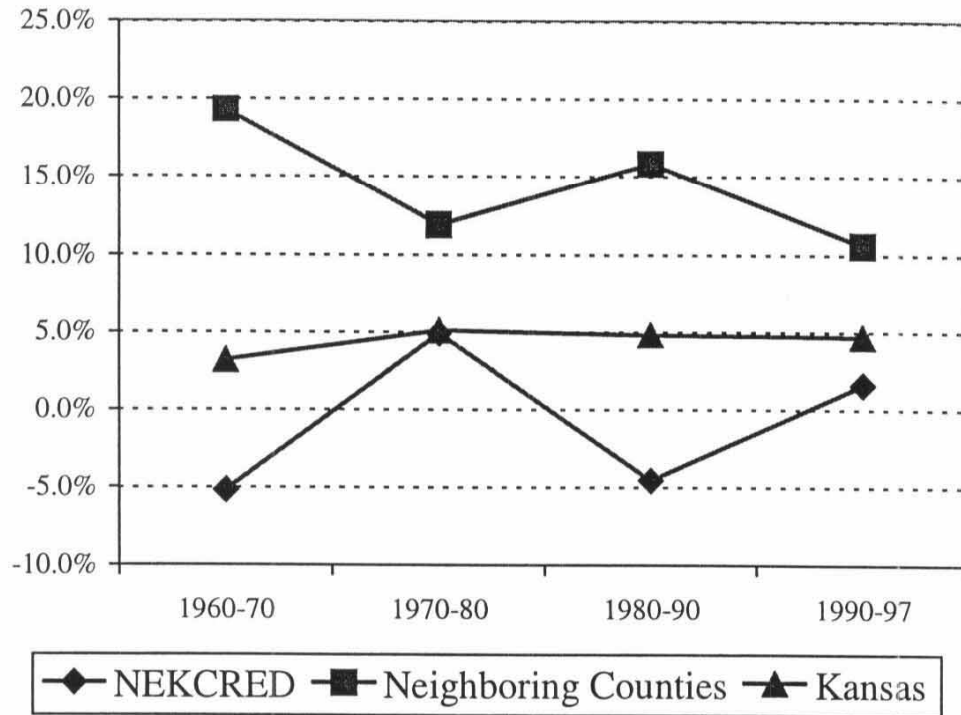
Source: U.S. Bureau of Census; Estimates of the Population of Counties by Age, Sex, and Race/Hispanic Origin," published December 1997, <<http://www.census.gov/population/estimates/county/casrh/casrh20.txt>>; Calculations, KCCED/IPPBR.

TABLE 4A. AGE GROUPS AS A PERCENTAGE OF TOTAL POPULATION
NEKCRED COUNTIES AND KANSAS
1996

	1-19	20-24	25-44	45-64	65+
Atchison	31.7%	5.0%	25.2%	20.8%	17.3%
Brown	29.6	4.1	24.9	19.5	21.9
Doniphan	30.4	5.6	26.0	19.9	18.1
Jackson	31.0	4.5	27.2	21.2	16.1
Jefferson	29.6	4.5	28.8	22.7	14.4
Nemaha	30.7	4.2	24.3	19.8	21.0
NEKCRED	30.5	4.6	26.3	20.9	17.7
Kansas	29.7	6.7	30.4	19.3	13.3

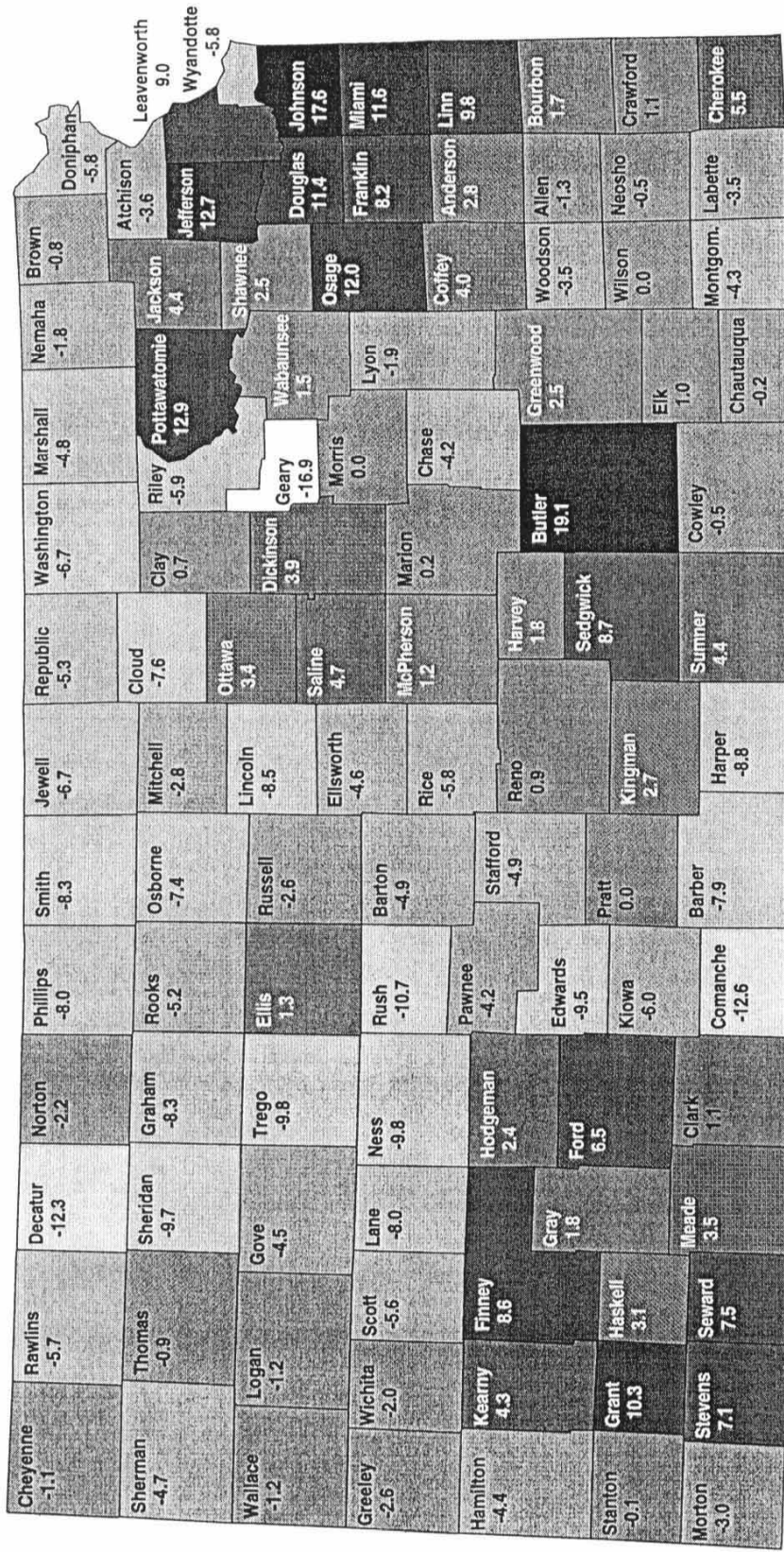
Source: U.S. Bureau of Census; "Estimates of the Population of Counties by Age, Sex, and Race/Hispanic Origin," published December 1997, <<http://www.census.gov/population/estimates/county/casrh/casrh20.txt>>; Calculations, KCCED/IPPBR.

FIGURE 1. RATES OF POPULATION CHANGE
NEKCREC COUNTIES, NEIGHBORING COUNTIES, AND KANSAS
1960 - 1997

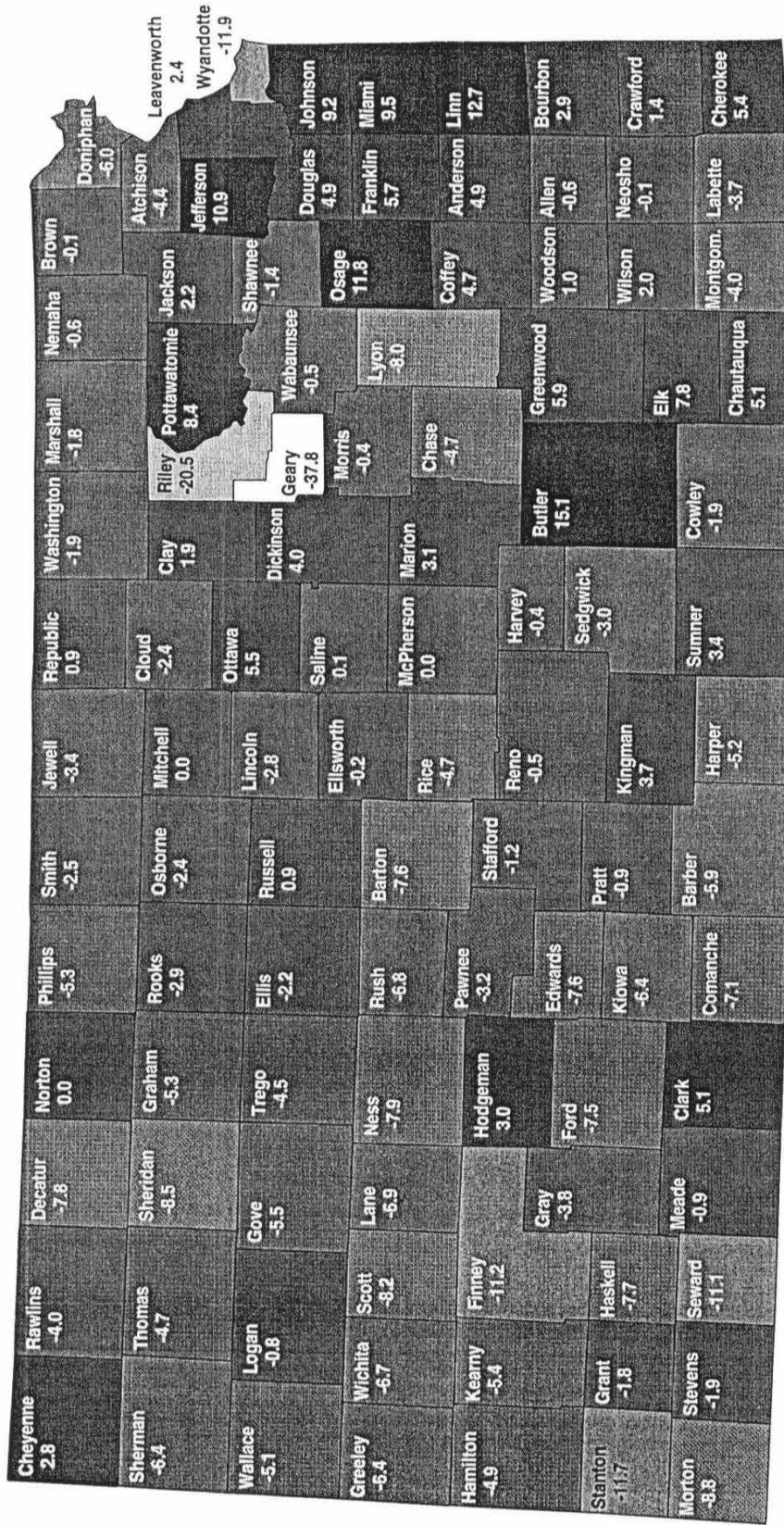


Source: U.S. Bureau of the Census, "Fifteenth Census of the United States: 1930, Vol. 1"; "Census of Population, 1960: Number of Inhabitants, Final Report"; "1980 Census of Population, Vol. 1, Chapter A, Part 18, "1990 Census of Population"; U.S. Bureau of Census "Population and Housing Unit Estimates (1997)"; Calculations, IPPBR

MAP 1. PERCENT POPULATION CHANGE
1990 - 1997



MAP 2A. PERCENT NET MIGRATION
1990 - 1997



Source: U.S. Bureau of Census, "Estimates of the Population of Counties and Demographic Components of Population Change: April 1, 1990 to July 1, 1997," published March 1998, <http://www.census.gov/population/estimates/county/co-97-5/97C5_20.txt>

EMPLOYMENT AND EARNINGS

Employment levels are an important measure of a community's economic vitality. The size of the labor force shows the number of people who are either working or willing to work. The size of the labor force is influenced not only by population but also by the perception that suitable job opportunities exist. Diverse, healthy economies tend to offer the widest variety of job opportunities and attract a large number of job seekers, which increases the size of the labor force. The level of unemployment reflects the amount of economic activity within an area and how well the local market can match the supply and demand for labor.

Job creation rates (net change in average annual employment) reflect the growth in employment levels and the range of employment opportunities. As some jobs are lost in a community due to changing economic circumstances, they may be replaced by new jobs. Net job creation reflects the net gain or loss in jobs over a given period. Wage rates are another indicator of the attractiveness of a particular economy. Attractive wages will attract a larger number of job seekers.

The following tables, figures or maps included in this section are: employment growth rates, population and job growth rates, number of firms by number of employees, average wage per job, average wage growth rates, and unemployment rates.

Key Findings: Employment

- Average annual employment for the NEKCRED counties has increased 5.2 percent from 36,041 in 1992 to 37,919 in 1995 (**Table 5**). Within NEKCRED, Jefferson County experienced the largest increase in employment with an increase of 371 people employed, or 6.4 percent, from 1992 to 1995.
- The counties surrounding NEKCRED experienced an 11.6 percent increase in average annual employment from 1992 to 1995, helped along by strong growth in Douglas and Johnson counties (**Table 5**). Johnson County experienced the largest increase in employment with an increase of 37,565 people employed, or 14.6 percent, from 1992 to 1995.
- Since 1984, job growth rates for NEKCRED counties have been higher than population growth rates, suggesting that the job opportunities are increasing (**Table 6** and **Figure 2**).
- From 1994 to 1997, Atchison County experienced a -3.72 percent decline in jobs while Brown, Doniphan, Jackson, Jefferson, and Nemaha Counties experienced job growth (**Tables 6A-6F, Appendix B**). [*For more information on job growth rates for individual counties, see Appendix B.*]
- The NEKCRED counties' average wage per job increased 38.96 percent from \$12,919 in 1985 to \$17,952 in 1995 (**Table 7**). NEKCRED's average wage per job has lagged

behind the neighboring Kansas counties' and the state's average wage. Since wage rates are an indicator of the attractiveness of a particular economy, these lower wage rates suggest that the region is vulnerable to population movement to other parts of the state with higher wages. However, **Figure 3** shows that from 1990 to 1995, NEKCRED's growth rate in average wage was greater than Kansas and neighboring counties. This indicates progress in improving the region's wage competitiveness.

- During the period 1990 to 1995, the NEKCRED counties experienced an increase (6.2 percent) in the total number of firms located within the area suggesting that firms are being created or attracted to the area (**Table 8**). However, NEKCRED's growth was less than the state's, which grew 7.6 percent during the same period. [See *Appendix C, Tables 8A-8F for individual county data.*]
- Kansas is composed of many small firms with 87.1 percent of its firms in 1995 employing less than 19 employees (**Table 9**). Small firms are also important to NEKCRED with almost 91 percent of its firms employing less than 19. The importance of small firms to the economy indicates a need for strategies to help new and existing small businesses. [See *Appendix D, Tables 9A-9F for data on individual counties.*]
- The labor force participation rates for the NEKCRED counties in 1990 range from a low of 59.3 percent for both Brown and Doniphan Counties to a high of 68.0 percent for Jefferson County (**Map 3**).² For the NEKCRED counties, the participation rate (64.1) is slightly below the state and national averages of 65.4 percent for Kansas and 64.4 percent for the U.S. (1990 Census). This lower participation rate indicates that there is a greater potential for labor supply than would be suggested by the unemployment rate alone.
- In 1997, the unemployment rates in the NEKCRED region is about the same as the southeast Kansas region but higher than other regions in Kansas (**Map 4**). Unemployment in Atchison, Brown, Doniphan, Jackson and Jefferson Counties is higher than the State's 3.8 percent unemployment rate while Nemaha's 3.3 percent unemployment rate is lower. At 6.7 percent, Atchison County had the highest unemployment rate in Kansas in 1997.
- Residents in Brown, Doniphan, Jackson, Jefferson, and Nemaha Counties experienced an increase in employment from 1990 to 1997 (**Map 5**).³ Jefferson County experienced the largest increase job growth at 26.0 percent. Employment in Atchison County declined slightly (-1.8 percent) during this period.

²The labor force participation rate is the percentage of people 16 years and older that is in the labor force. A lower participation rate reflects slower job growth. If jobs are not available than the individuals who want to work may drop out of the labor force rather than remain unemployed.

³ Employment growth for this map is based on an individual's place of residence. Consequently, job growth does not necessarily reflect the number of jobs created in the county but rather the growth in the number of people in the county with jobs.

- Commuting patterns of residents within the counties illustrate employment opportunities in and out of the county. **Appendix D** contains maps of the commuting outflow and inflow patterns for each NEKCRED County based on 1990 Census data. The large number of commuters out of Atchison and Doniphan Counties to the Kansas City metropolitan region and the large number of commuters out of Jefferson and Jackson Counties to the Topeka metropolitan region show that the NEKCRED region is dependent upon the nearby metropolitan areas for employment. [*See Appendix D for further analysis of commuting patterns.*]

TABLE 5. EMPLOYMENT GROWTH RATES
NEKCRED, NEIGHBORING COUNTIES, AND KANSAS
1986 -1995

	AVERAGE ANNUAL EMPLOYMENT				EMPLOYMENT GROWTH		
	1986	1989	1992	1995	86-89	89-92	92-95
Atchison	7,886	8,492	8,810	9,168	7.7%	3.7%	4.1%
Brown	5,468	6,005	5,938	6,200	9.8	-1.1	4.4
Doniphan	3,698	3,860	3,872	4,045	4.4	0.3	4.5
Jackson	4,930	5,057	5,210	5,529	2.6	3.0	6.1
Jefferson	5,204	5,477	5,823	6,194	5.2	6.3	6.4
Nemaha	5,887	6,268	6,388	6,783	6.5	1.9	6.2
NEKCRED	33,073	35,159	36,041	37,919	6.3	2.5	5.2
Douglas	37,487	44,009	47,728	53,043	17.4	8.5	11.1
Johnson	200,611	236,695	256,587	294,152	18.0	8.4	14.6
Leavenworth	25,929	28,456	30,715	32,186	9.7	7.9	4.8
Shawnee	100,210	110,038	110,879	119,052	9.8	0.8	7.4
Marshall	6,203	6,579	6,735	7,111	6.1	2.4	5.6
Pottawatomie	8,117	8,621	9,254	10,123	6.2	7.3	9.4
Wabaunsee	2,807	2,676	2,646	2,680	-4.7	-1.1	1.3
Neighboring Counties	381,364	437,074	464,544	518,347	14.6	6.3	11.6
Kansas	1,384,683	1,471,221	1,546,841	1,619,784	6.2	5.1	4.7
United States (in 000's)	126,616	136,413	139,289	140,000	7.7	2.1	0.5

Note: Employment data are based on an individual's place of work.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System (1969-1995); Kansas County Profile, KCCED/IPPBR, University of Kansas; Calculations, KCCED/IPPBR.

TABLE 6. POPULATION AND JOB GROWTH RATES
NEKCRED COUNTIES
1982-1997

	<u>82-84</u>	<u>84-86</u>	<u>86-88</u>	<u>88-90</u>	<u>90-92</u>	<u>92-94</u>	<u>94-97</u>
Job Growth	-8.13%	2.28%	3.49%	2.77%	3.38%	4.50%	6.20%
Population Growth	-0.51%	-0.39%	0.65%	-4.67%	-0.01%	0.33%	1.25%

Note: Employment based on individual's place of residence.

Source: Kansas Statistical Abstract 1995, IPPBR, University of Kansas; Kansas Department of Human Resources, Labor Market Information Services; 1991-1997 Population Estimates, U.S. Bureau of Census; Calculations, KCCED/IPPBR.

TABLE 7. AVERAGE WAGE PER JOB
NEKCRED, NEIGHBORING COUNTIES, AND KANSAS (DOLLARS)
1980 - 1995

	AVERAGE WAGE				WAGE GROWTH		
	1980	1985	1990	1995	80-85	85-90	90-95
Atchison	11,802	14,553	16,526	19,607	23.3%	13.6%	18.6%
Brown	9,164	12,403	14,480	17,257	35.3	16.7	19.2
Doniphan	10,742	13,923	16,876	21,336	29.6	21.2	26.4
Jackson	9,356	12,360	13,330	15,526	32.1	7.8	16.5
Jefferson	9,940	12,688	14,546	16,536	27.6	14.6	13.7
Nemaha	8,861	11,588	14,426	17,447	30.8	24.5	20.9
NEKCRED	9,978	12,919	15,031	17,952	29.5	16.3	19.4
Douglas	11,022	14,338	16,710	19,124	30.1	16.5	14.4
Johnson	13,846	18,955	22,949	27,511	36.9	21.1	19.9
Leavenworth	13,135	18,951	22,382	26,735	44.3	18.1	19.4
Shawnee	13,483	18,310	21,301	24,767	35.8	16.3	16.3
Marshall	10,674	14,215	16,761	18,487	33.2	17.9	10.3
Pottawatomie	11,129	14,070	16,138	19,333	26.4	14.7	19.8
Wabaunsee	7,739	10,856	12,512	15,888	40.3	15.3	27.0
Neighboring Kansas Counties	11,575	15,671	18,393	21,692	35.4	17.4	17.9
Kansas	12,697	16,906	19,868	23,219	33.1	17.5	16.9

Note: The employment estimates used to compute the average are job counts, not person counts.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Information System (1969-1995), Table CA34; Kansas County Profile, KCCED/IPPBR, University of Kansas; Calculations, KCCED/IPPBR.

TABLE 8. NUMBER OF FIRMS BY NUMBER OF EMPLOYEES
NEKCRED COUNTIES
1985-1995

EMPLOYEES	NEKCRED			KANSAS		
	1985	1990	1995	1985	1990	1995
0-19	1,531	1,526	1,595	58,347	57,632	61,719
20-99	98	102	133	6,234	7,035	7,767
100-499	17	23	25	840	1,072	1,281
500+	1	1	1	89	119	127
Total	1,647	1,652	1,754	65,511	65,859	70,895

Note: Employment based on individual's place of work.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Kansas County Profile for Brown County, KCCED/IPPBR, University of Kansas.

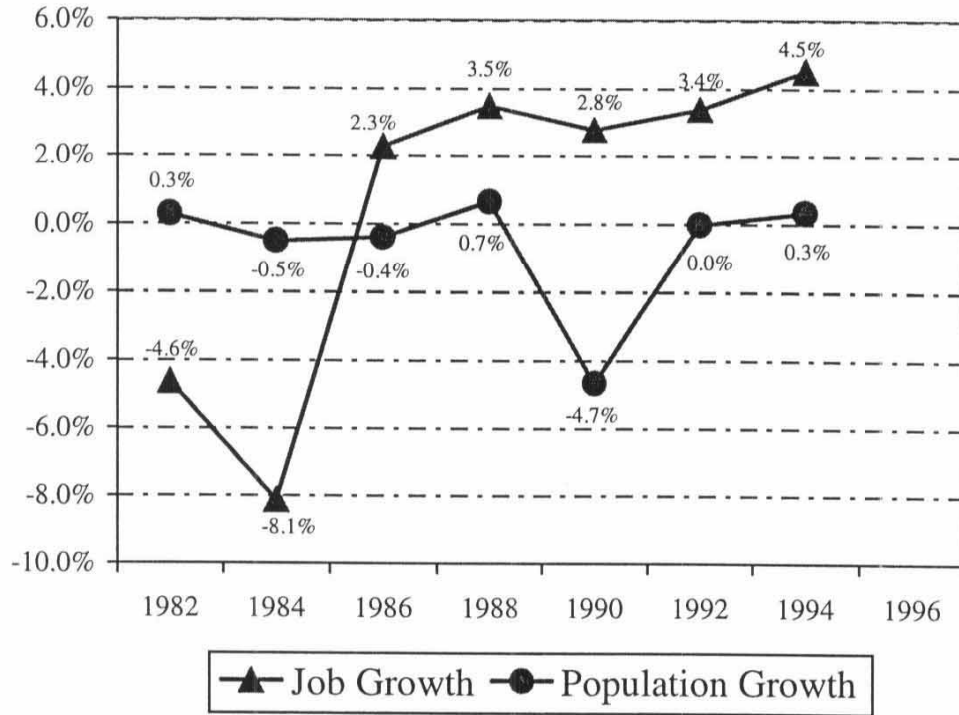
TABLE 9. PERCENTAGE DISTRIBUTION OF FIRMS BY NUMBER OF EMPLOYEES
NEKCRED COUNTIES
1985-1995

EMPLOYEES	NEKCRED			KANSAS		
	1985	1990	1995	1985	1990	1995
0-19	93.0%	92.4%	90.9%	89.1%	87.5%	87.1%
20-99	6.0	6.2	7.6	9.5	10.7	11.0
100-499	1.0	1.4	1.4	1.3	1.6	1.8
500+	0.1	0.1	0.1	0.1	0.2	0.2

Note: Employment based on individual's place of work.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Kansas County Profile for Brown County, KCCED/IPPBR, University of Kansas.

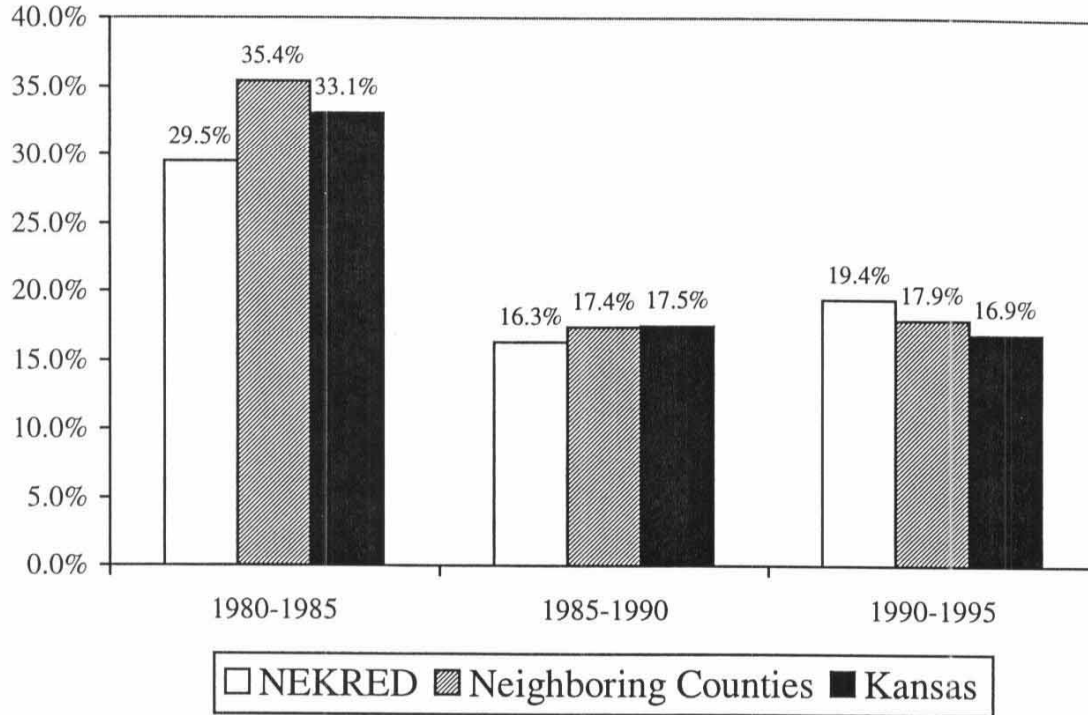
FIGURE 2. JOB GROWTH AND POPULATION GROWTH
 NEKCREC COUNTIES
 1982 - 1994



Note: Employment data are based on an individual's place of work.

Source: Bureau of Economic Analysis, Regional Economic Information System, Table CA5, Kansas County Profile, KCCED/IPPBR, University of Kansas.

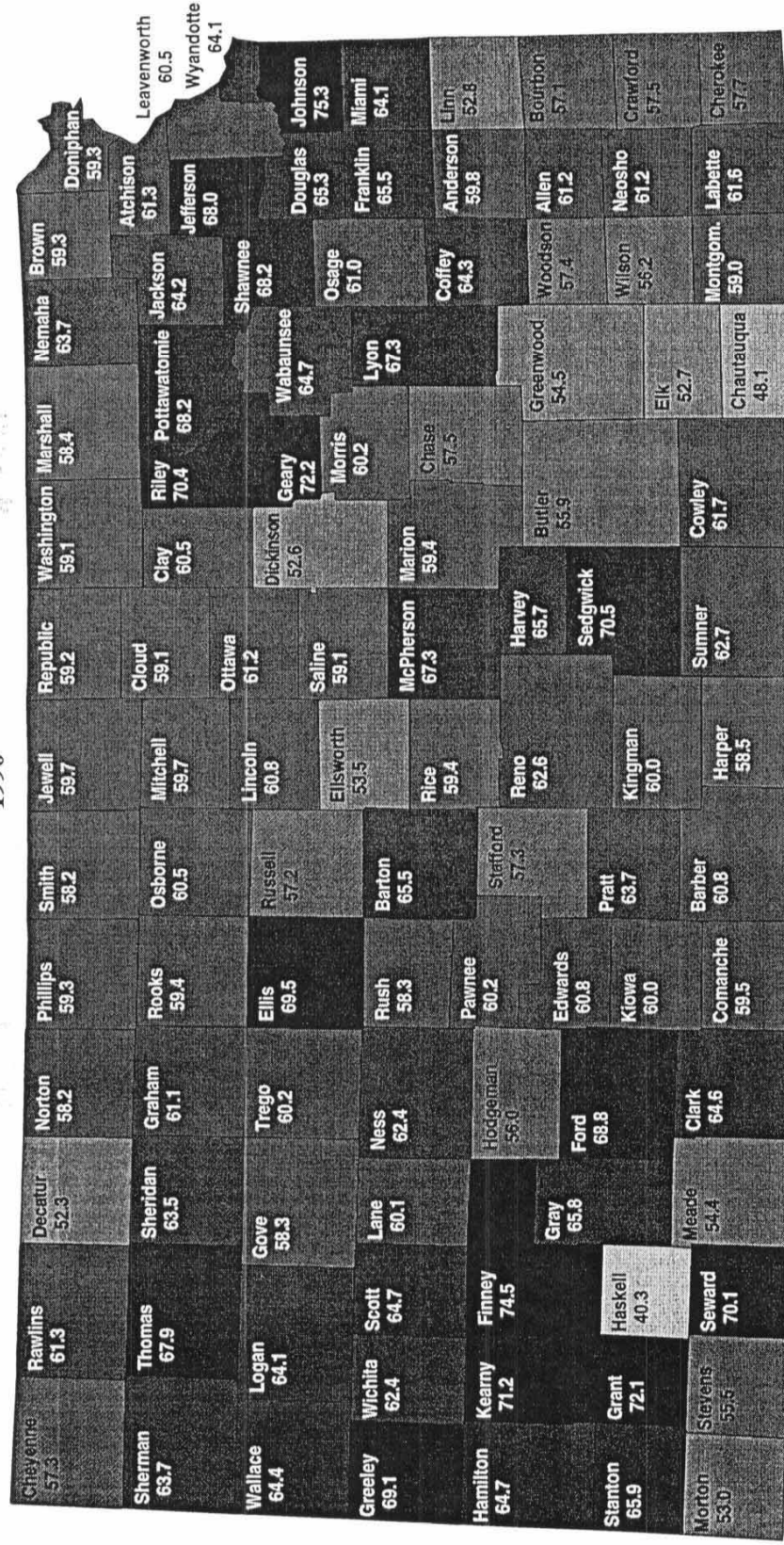
FIGURE 3. AVERAGE WAGE GROWTH RATES
 NEKRED COUNTIES, NEIGHBORING COUNTIES, AND KANSAS
 1980 - 1995



Note: The employment estimates used to compute the average are job counts, not person counts.

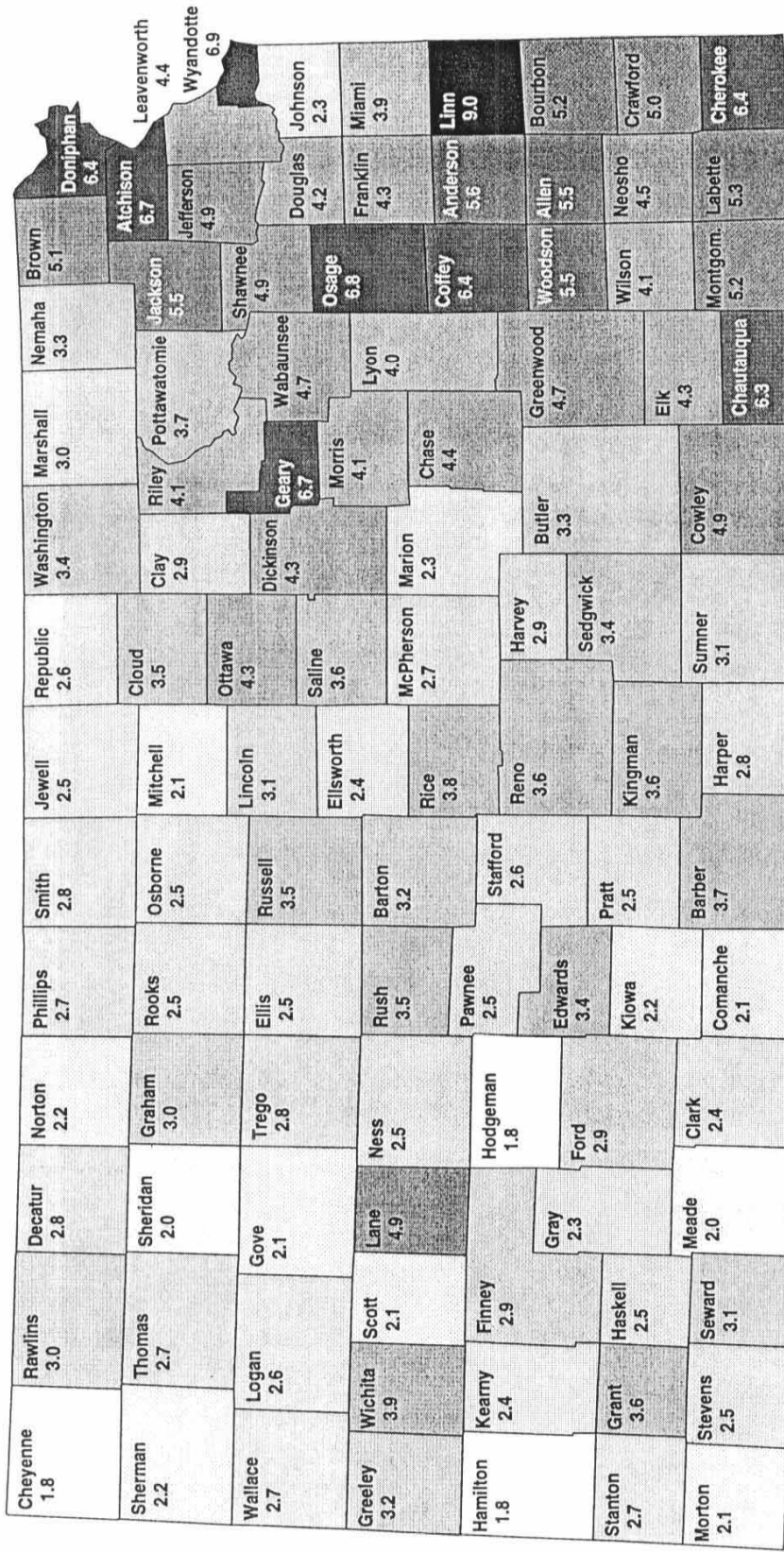
Source: U.S. Bureau of Economic Analysis, Regional Information System, January 1995, Table CA34, Line Code 030. Kansas County Profile, KCCED/IPPBR, University of Kansas.

MAP 3. LABOR FORCE PARTICIPATION
1990



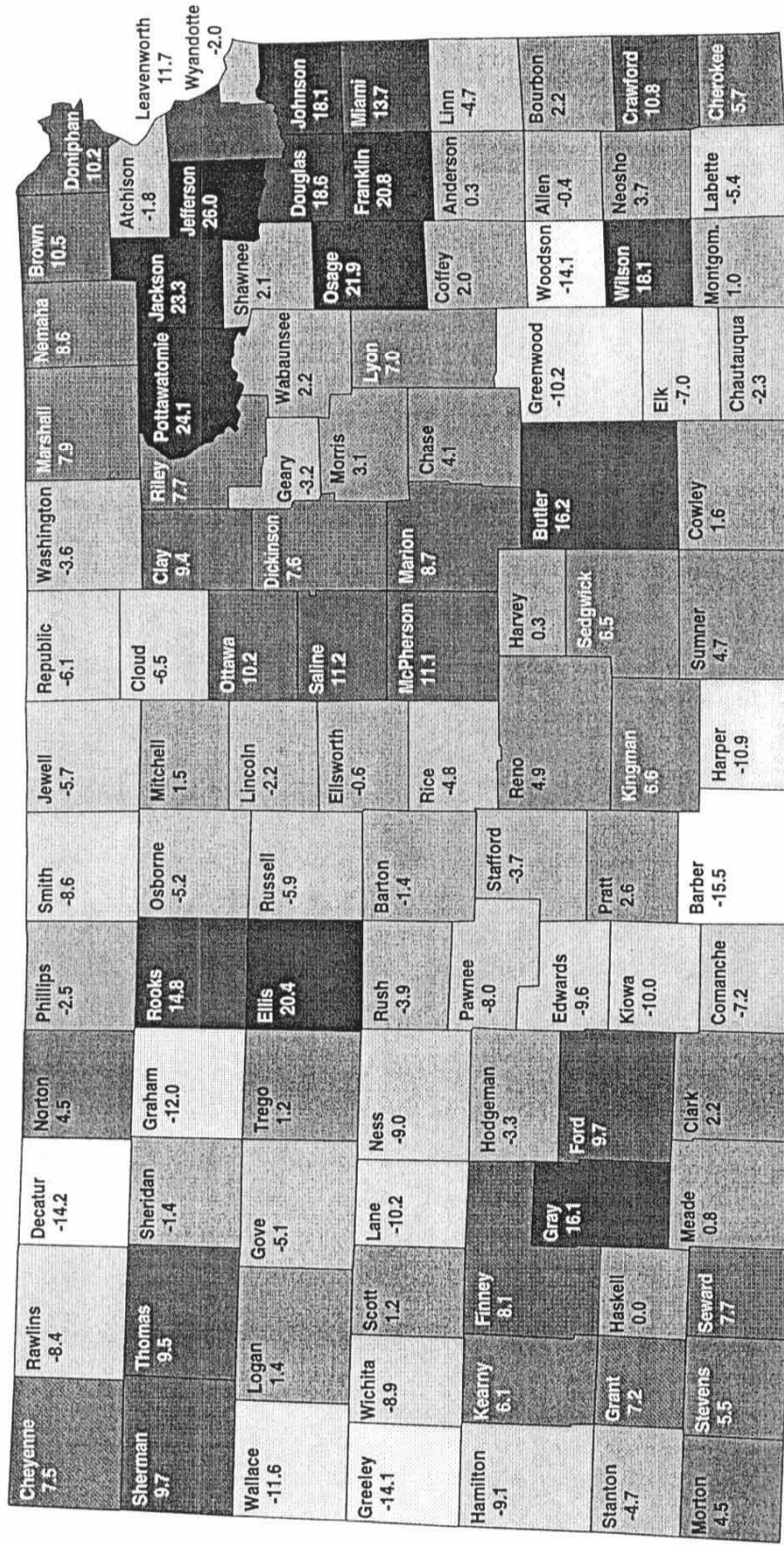
Source: 1990 Census.

MAP 4. UNEMPLOYMENT RATES 1997



Note: Employment data are based on an individual's place of residence.
 Source: Kansas Department of Human Resources, Labor Market Information Services, August 1998. <<http://laborstats.hr.state.ks.us/lfe/lfe.htm#lfe>>

MAP 5. EMPLOYMENT GROWTH
1990 - 1997



Note: Employment data are based on an individual's place of residence.

Source: Kansas Department of Human Resources, Labor Market Information Services, August 1998. <http://laborstats.hr.state.ks.us/lfe/lfe.htm#lfeea>

BUSINESS AND MANUFACTURING

Growth in businesses and manufacturing shows the economic vitality of a county. If the county is perceived to be economically strong, it can induce existing businesses to remain and attract additional new businesses.

This section includes tables and figures on employment levels by industry, change in employment, manufacturing businesses and their growth rates, retail business and its growth rates, and retail sales growth.

Key Findings: Business and Manufacturing

- Kansas is experiencing a shift from a manufacturing-based economy to a more service-based economy just like the United States. This shift is not as evident in the NEKCRED region. NEKCRED experienced slower employment growth rates in most service-related industries from 1989 to 1995 (**Table 10**).
- Manufacturing employment as a percentage of non-farm employment increased from 13.6 percent in 1989 to 14.3 percent in 1995. Conversely, the State's numbers decreased from 13.7 percent in 1989 to 12.8 percent in 1995 (**Table 10**).
- From 1992 to 1995, employment growth occurred in the following industry sectors for the NEKCRED region (in order of greatest increase in number of jobs): manufacturing, retail, services, government services, agricultural services, transportation and F.I.R.E. (**Table 10**). Farm employment, wholesale, construction, wholesale, and mining declined during the same time period. [*See Appendix E for employment levels by industry for the individual NEKCRED counties.*]
- From 1992 to 1995, the total annual payroll for manufacturing increased by over \$40 million for the NEKCRED region (**Table 11**). This increase amounted to a 52 percent increase in manufacturing payroll (**Table 11A, Appendix F**). [*For further information on payroll by industry, see Appendix F.*]
- From 1990 to 1995, the NEKCRED region experienced increased in the number of firms for all the industry sectors but three—retail, wholesale, and unclassified (**Table 12**). The greatest increase in the number of firms was in the services sector 76 more firms in 1995 compared to 1990. The total number of firms located in the NEKCRED counties increased 6.2 percent from 1990 to 1995, which was slightly less than the 7.6 percent increase for Kansas during the same time period (**Table 12A, Appendix G**). [*For further information on the number of firms by industry for the individual NEKCRED counties, see Appendix G.*]
- The number of manufacturing business in the NEKCRED counties increased 10.3 percent from 1990 to 1995 (**Table 13**). Growth in manufacturing businesses in NEKCRED at

10.3 percent was slightly stronger than the neighboring counties with a 9.7 percent increase during the same period (**Table 13**).

- From 1992 to 1995, manufacturing employment grew 12.2 percent, which is more than twice the State's corresponding growth rate (**Table 10A, Appendix E**).
- The increase in the number of manufacturing businesses for the NEKCRED region (**Table 13**) is consistent with the increase in manufacturing employment (**Table 10**), suggesting that the region has been able to attract/retain manufacturing firms.
- The number of retail businesses in the NEKCRED counties has decreased (-5.1 percent) from 1992 to 1995 (**Table 13A**). The neighboring counties have experienced a steady increase of 1.66 percent during the same time period.

TABLE 10. EMPLOYMENT LEVELS BY INDUSTRY (THOUSANDS)
NEKCRED AND KANSAS
1989-1995

<u>INDUSTRY</u>	<u>NEKCRED</u>			<u>KANSAS</u>		
	1989	1992	1995	1989	1992	1995
Agricultural Services	498	259	383	14,037	15,380	18,986
Mining	109	61	48	30,413	25,554	26,881
Construction	1,542	1,600	1,569	62,985	68,439	77,895
Manufacturing	3,922	4,075	4,574	189,628	187,617	197,144
Transportation	1,199	1,299	1,352	75,438	73,697	78,309
Wholesale	1,638	1,680	1,643	74,131	76,364	78,905
Retail	4,804	4,932	5,428	237,011	247,536	272,498
Finance, Insurance, Real Estate	1,699	1,542	1,578	100,937	96,934	100,265
Services	7,218	7,664	8,014	348,018	379,253	415,717
Government Services	6,018	6,445	6,576	252,474	268,550	275,019
Subtotal-Non-Farm	28,916	29,918	32,046	1,385,072	1,439,324	1,541,619
Farm Employment	6,243	6,123	5,873	86,149	81,811	78,165
Total Employment	35,159	36,041	37,919	1,471,221	1,521,135	1,619,784

Note: Employment based on individual's place of work.

A = Reflects suppressed data.

Source: Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA25.

TABLE 11. TOTAL ANNUAL PAYROLL BY INDUSTRY (Thousand \$)
NEKCRED AND KANSAS
1985-1995

INDUSTRY	NEKCRED			KANSAS		
	1985	1990	1995	1985	1990	1995
Agricultural Services	\$161	\$292	\$1,060	\$37,450	\$63,662	\$100,081
Mining	A	514	458	477,073	326,236	312,616
Construction	10,580	10,847	19,020	838,101	1,046,126	1,422,150
Manufacturing	60,835	77,818	118,311	4,247,673	4,985,112	6,094,806
Transportation	11,723	17,960	24,401	1,175,424	1,639,200	1,926,314
Wholesale	24,985	27,162	33,995	1,266,105	1,670,958	2,124,319
Retail	20,688	25,629	34,685	1,712,157	2,178,116	2,817,112
Finance, Ins., Real estate	10,514	14,058	16,888	1,006,298	1,379,037	1,739,266
Services	31,655	47,666	75,604	2,452,032	4,161,143	6,280,884
Unclassified	1,083	257	135	96,857	37,725	8,371
Total Payroll	177,299	239,689	327,336	13,309,168	17,487,315	22,825,919

Note: A – Suppressed data or value not calculated

Source: Kansas County Business Patterns. Calculations, KCCED/IPPBR.

**TABLE 12. NUMBER OF FIRMS BY INDUSTRY
NEKCRED AND KANSAS
1985-1995**

INDUSTRY	NEKCRED			KANSAS		
	1985	1990	1995	1985	1990	1995
Agricultural Services	21	27	34	764	965	1,205
Mining	10	9	10	1,446	1,138	1,051
Construction	155	158	200	5,361	5,676	6,813
Manufacturing	83	87	96	3,228	3,367	3,579
Transportation	88	109	115	3,562	3,180	3,579
Wholesale	150	140	128	5,630	5,713	6,010
Retail	465	450	432	16,594	16,845	16,845
F.I.R.E.	112	123	159	5,399	5,657	6,803
Services	409	478	554	18,235	20,891	24,261
Unclassified	154	71	36	5,291	2,426	748
Total Firms	1,647	1,652	1,754	65,510	65,858	70,894

Source: County Business Patterns and calculations by KCCED/IPPBR.

TABLE 13. NUMBER OF MANUFACTURING BUSINESSES
NEKCRED COUNTIES, NEIGHBORING COUNTIES, AND KANSAS
1990-1995

	Manufacturing Businesses			Growth	
	1990	1992	1995	90-92	92-95
Atchison	21	22	23	4.8%	4.6%
Brown	11	16	18	45.5	12.5
Doniphan	10	11	12	10.0	9.1
Jackson	9	11	9	22.2	-18.2
Jefferson	13	13	14	0.0	7.7
Nemaha	23	21	20	-8.7	-4.8
NEKCRED	87	94	96	8.0	2.1
Douglas	88	99	98	12.5	-1.0
Johnson	580	594	642	2.4	8.1
Leavenworth	34	33	33	-2.9	0.0
Shawnee	138	145	141	5.1	-2.8
Marshall	17	22	22	29.4	0.0
Pottawatomie	16	18	21	12.5	16.7
Wabaunsee	13	9	6	-30.8	-33.3
Andrew (MO)	4	4	4	0.0	0.0
Buchanan (MO)	104	108	109	3.9	0.9
Holt (MO)	7	8	8	14.3	0.0
Platte (MO)	55	63	66	14.6	4.8
Pawnee (NE)	2	3	5	50.0	66.7
Richardson (NE)	9	13	15	44.4	15.4
Neighboring Counties	1,067	1,119	1,170	4.9	4.6
Kansas	3,367	3,511	3,579	4.3	1.9

Source: "County Business Patterns: Kansas," 1990-1995, "County Business Patterns: Missouri", 1990-1995, "County Business Patterns: Nebraska", 1990-1995, Kansas County Profile, KCCED/IPPBR, University of Kansas.

TABLE 13A. NUMBER OF RETAIL BUSINESSES
NEKCRED COUNTIES, NEIGHBORING COUNTIES, AND KANSAS
1990 - 1995

	Retail Businesses			Growth	
	1990	1992	1995	90-92	92-95
Atchison	95	97	99	2.1%	2.1%
Brown	73	65	58	-11.0	-10.8
Doniphan	37	37	35	0.0	-5.4
Jackson	67	67	56	0.0	-16.4
Jefferson	81	91	81	12.4	-11.0
Nemaha	97	98	103	1.0	5.1
NEKCRED	450	455	432	1.1	-5.1
Douglas	501	554	608	10.6	9.8
Johnson	2,423	2,478	2522	2.3	1.8
Leavenworth	254	277	257	9.1	-7.2
Shawnee	1,161	1,106	1108	-4.7	0.2
Marshall	101	115	103	13.9	-10.4
Pottawatomie	98	111	101	13.3	-9.0
Wabaunsee	36	38	38	5.6	0.0
Andrew (MO)	43	53	56	23.3	5.7
Buchanan (MO)	576	571	577	-0.9	1.1
Holt (MO)	40	37	39	-7.5	5.4
Platte (MO)	301	288	314	-4.3	9.0
Pawnee (NE)	21	22	16	4.8	-27.3
Richardson (NE)	94	84	90	-10.6	7.1
Neighboring Counties	5,649	5,734	5,829	1.5	1.7
Kansas	16,845	16,839	16,845	0.0	0.0

Source: "County Business Patterns: Kansas," 1990-1995, "County Business Patterns: Missouri", 1990-1995, "County Business Patterns: Nebraska", 1980-1995, Kansas County Profile, KCCED/IPBPR, University of Kansas.

AGRICULTURE

This section contains data on the total value of field crops and the total value of livestock and poultry. These data will help determine whether the overall importance of these two sectors in the county has been increasing or decreasing and how it compares with surrounding counties and the state as a whole. The NEKCRED counties' economies have been based on manufacturing, retail, and government services. However, agriculture has been important industries for Kansas, and it is therefore worthwhile to see how the county rates in these areas.

Key Findings: Agriculture

- From 1990 to 1995, total value of NEKCRED counties' field crop production increased 17.2 percent against the State's 29.2 percent increase (**Table 14**). In 1995, NEKCRED represented 5.6 percent of the state of Kansas' field crop production (**Table 14**).
- From 1990 to 1995, the average value of livestock and poultry decreased 16.5 percent in NEKCRED, and decreased 8.6 percent in Kansas (**Table 15**). In 1995, the NEKCRED counties' value of livestock and poultry represented 4.3 percent of Kansas' total value of livestock and poultry (**Table 15**).

TABLE 14. TOTAL VALUE OF FIELD CROPS
NEKCRED COUNTIES, AND KANSAS (\$ MILLION)
1990 - 1995

	1990	1991	1992	1993	1994	1995	90-95 Change
Atchison	22	17	28	18	27	25	18.2%
Brown	44	36	49	36	55	47	6.8
Doniphan	30	33	41	31	41	39	30.0
Jackson	18	17	22	15	24	21	16.7
Jefferson	19	16	26	18	25	24	26.3
Nemaha	36	30	39	24	44	42	16.7
NEKCRED	169	149	205	142	216	198	17.2
Kansas	2,729	2,579	2,988	3,014	3,555	3,526	29.2
Crop Price Index +	103	99	108	104	113	130	171

* Does not include any government program payments, value of sugar beets, or cotton acreage value, until 1991, then only government program payments are not included.

+1992 prices = 100

Note: Calculation of 90-95 Change may vary due to rounding.

Source: Kansas Agricultural Statistics, Kansas Farm Facts, 1996; Calculations, KCCED/IPPBR.

TABLE 15. TOTAL VALUE OF LIVESTOCK AND POULTRY
NEKCRED COUNTIES, AND KANSAS (\$ MILLION)
1990 - 1995

	1990	1991	1992	1993	1994	1995	90-95 Change
Atchison	16	16	16	16	15	14	-12.5%
Brown	25	25	21	23	23	19	-24.0
Doniphan	15	13	11	11	10	9	-40.0
Jackson	20	17	16	17	15	15	-25.0
Jefferson	16	15	14	15	15	14	-12.5
Nemaha	47	48	43	45	46	45	-4.3
NEKCRED	139	134	121	127	124	116	-16.5
Kansas	2,929	2,857	2,759	2,874	2,966	2,678	-8.6
Livestock & Products Price Index +	103	99	98	101	91	86	92

+1990-92 prices = 100

Source: Kansas Agricultural Statistics, Kansas Farm Facts; Calculations, KCCED/IPPBR.

INCOME

This section discusses personal per capita income, total personal income and growth rates. Per Capita Personal Income shows the relative wealth of the area compared with the state. As the productivity of business and industry increase, per capita income also rises. Decrease or stable rates may be the result of mature or declining industry.

Key Findings: Income

- In 1995, per capita personal incomes for the NEKCRED counties were lower than that of Kansas (**Table 16** and **Appendix H**). However, From 1990 to 1995 Jackson and Atchison Counties' per capita income growth rates were greater than the State's 21.1 percent. [*See Appendices H and I for further detail on each county's per capita personal income.*]
- Total personal income for the six NEKCRED counties combined has increased at a somewhat slower rate (20.7 percent) than the State (25.2 percent) from 1990 to 1995 (**Table 17**).
- Per capita income for the NEKCRED counties is less than other regions in the State. (**Map 6**).
- Transfer payments as a percentage of total personal income for the NEKCRED counties have been higher than the state of Kansas (**Table 18**). Since 1993, transfer payments as a percentage of personal income has decreased for both the NEKCRED region and the State. [*See Appendix J for more detail on transfer payments, which includes breakdowns for: retirement and disability insurance benefits, medical payments, income maintenance benefit payments, unemployment insurance benefit payments, veterans benefits payments, federal education and training benefit payments, payments to non-profit institutions, and business payments to individuals.*]

TABLE 16. PER CAPITA PERSONAL INCOME
 NEKCRED COUNTIES AND KANSAS
 (DOLLARS)
1985, 1990, 1995

	PER CAPITA INCOME			GROWTH RATE		PCI RATIO: ⁺ 1995
	1985	1990	1995	1985-90	1990-95	
Atchison	\$11,509	\$14,253	\$17,715	23.8%	24.3%	81.3
Brown	13,176	15,028	17,983	14.1	19.7	82.6
Doniphan	13,083	14,262	16,824	9.0	18.0	77.2
Jackson	12,782	15,591	19,596	22.0	25.7	90.0
Jefferson	13,358	15,902	18,452	19.0	16.0	84.7
Nemaha	12,948	17,100	19,685	32.1	15.1	90.4
Kansas	14,143	17,985	21,781	27.2	21.1	---

⁺ Per Capita Income (PCI) Ratio = County PCI : Kansas PCI

Source: University of Kansas, Kansas Center for Community Economic Development, "Kansas County Profile, 1995"; U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA5.

TABLE 17. TOTAL PERSONAL INCOME
NEKCRED COUNTIES AND KANSAS
(THOUSAND \$)
1985 - 1995

	TOTAL PERSONAL INCOME			GROWTH RATE	
	1985	1990	1995	1985-90	1990-95
Atchison	200,790	240,839	287,803	20.0%	19.5%
Brown	147,017	167,351	198,563	13.8	18.7
Doniphan	112,986	115,721	129,414	2.4	11.8
Jackson	145,509	179,407	230,941	23.3	28.7
Jefferson	202,941	253,449	317,947	24.9	25.5
Nemaha	135,970	178,443	204,820	31.2	14.8
NEKCRED	945,213	1,135,210	1,369,488	20.1	20.7
Kansas (Million\$)	34,332	44,615	55,839	29.95	25.16

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA5.

TABLE 18. TRANSFER PAYMENTS
AS A PERCENTAGE OF TOTAL PERSONAL INCOME
NEKCRED COUNTIES
1990 - 1995

	1990	1991	1992	1993	1994	1995
Atchison	19.8%	21.0%	21.0%	21.9%	21.4%	21.2%
Brown	23.3	25.3	26.1	27.6	26.4	23.6
Doniphan	20.3	20.3	21.1	23.6	22.1	22.5
Jackson	17.2	19.1	19.0	19.7	19.1	17.9
Jefferson	16.0	16.8	16.8	17.7	17.4	16.1
Nemaha	16.3	17.6	18.2	20.4	18.8	19.7
NEKCRED	18.6	19.8	20.0	21.4	20.7	19.7
Kansas	14.5	15.4	15.9	16.3	16.1	15.7

Note: See Appendix J for further breakdown of transfer payments. Transfer payments include retirement and disability insurance benefits, medical payments, income maintenance benefit payments, unemployment insurance benefit payments, veterans benefits payments, federal education and training benefit payments, payments to non-profit institutions, and business payments to individuals.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA5, and Table CA35.

EDUCATION

Education is one of the keys to a strong community. Residents who have a strong educational background will be more employable and command higher salaries. Employers will benefit as well because they will most likely experience lower turnover and training costs. Individuals with lower education have a harder time finding jobs that can supply a living wage and may be more likely to use social services, such as food stamps. Education data includes tables on the educational attainment of the population and high school dropouts.

Key Findings: Education

- In 1990, 32.9 percent of the residents over the age of 25 in the six NEKCRED counties had obtained some post-high school education compared to 48.4 percent for the state of Kansas (**Table 19**). In other words, NEKCRED has a greater percentage of its over 25 population less educated than the state. Considering that future jobs will require some kind of post-high school training, further education and training of adult workers may be necessary to increase the skill level of this portion of the population.
- The number of high school dropouts can vary quite a bit from year to year (**Table 20**). From 1993 to 1995, high school dropouts have declined for the NEKCRED region. Continuation of this trend is important to the improvement of the region's labor market. A better-educated, trained, and skilled work force means greater employability.
- The number of high school graduates in the NEKCRED region remained relatively constant from 1992 to 1993 and increased from 1993 to 1996. The number of NEKCRED counties' high school graduates increased 13 percent in from 1992 to 1996. This is almost twice the state's 6.9 percent increase during the same period (**Table 21**). This indicates a steady supply of new entrants into the labor force.

TABLE 19. EDUCATIONAL ATTAINMENT OF PERSONS OVER 25
 PERCENTAGE OF POPULATION OF PERSONS OVER 25
 NEKCRED COUNTIES, AND KANSAS
 1990

	Completed Less than 9th Grade	9-12th Grade, No Diploma	High School Graduate	Some College	College Degree
Atchison	10.6%	11.9%	45.6%	14.1%	17.8%
Brown	9.5	12.1	41.9	18.0	18.5
Doniphan	12.6	14.4	39.9	17.0	16.1
Jackson	9.3	9.9	48.8	17.6	14.4
Jefferson	8.1	10.9	45.0	19.6	16.4
Nemaha	15.8	8.5	48.5	12.0	15.2
NEKCRED	10.7	11.2	45.2	16.5	16.4
Kansas	7.8	11.0	32.8	21.9	26.5

Note: College Degree includes Associates, Bachelors, and Graduate Degrees.

Source: U.S. Bureau of the Census, "1990 Census of Population and Housing," STF3A. Kansas County Profile.
 Calculations: KCCED/IPPBR.

TABLE 20. HIGH SCHOOL DROPOUTS
NEKCRED COUNTIES AND KANSAS
1991 - 1995

	1991	1992	1993	1994	1995
Atchison	38	23	48	36	36
Brown	15	10	18	19	14
Doniphan	16	15	12	7	16
Jackson	15	18	27	17	19
Jefferson	29	28	31	38	38
Nemaha	1	1	6	7	7
NEKCRED	114	95	142	123	109
Kansas	5,738	5,651	6,490	6,698	6,422

Source: Kansas State Department of Education; Kansas County Profile, KCCED/IPPBR.

TABLE 21. HIGH SCHOOL GRADUATES
 NEKCRED COUNTIES, AND KANSAS
 1992 - 1996

	1992	1993	1994	1995	1996
Atchison	141	122	156	177	157
Brown	110	117	116	118	144
Doniphan	94	106	141	90	107
Jackson	147	145	121	151	155
Jefferson	240	233	227	259	269
Nemaha	122	130	150	148	133
NEKCRED	854	853	911	943	965
Kansas	24,129	24,720	25,319	26,125	25,786

Source: Kansas State Department of Education, "1992-93 Secondary School Dropouts." Kansas County Profile.

INFRASTRUCTURE: TELEPHONE SERVICE

An inventory of the telephone service area providers is the first step in developing a telecommunications plan for the region. Therefore, a map of the telephone companies providing service in Kansas was obtained from the Kansas State Corporation Commission, Utilities Division. From this map, **Appendix J** was developed, which consists of maps of the northeast Kansas region and the individual NEKCRED counties. Ten telephone companies provide service to northeast Kansas and six of those ten companies provide service to the six NEKCRED counties (**Map 7, Appendix K**). [See **Appendix K** for further analysis and information on telephone companies and their service areas.]

CONCLUSION

The use of data in economic development is important because it assists a community (a county, a region) in taking stock and understanding its current situation across several difference areas of economic and demographic performance. However, data alone do not lead to a well-founded understanding of the community. Data must be analyzed and interpreted, taking into account the intuition of those within the community as to what the trends really mean. In other words, data serve as the foundation for analysis which concludes: 1) what is happening in the community relative to other regions over time, and 2) what potential impacts or consequences can be inferred from the data. The data in this report suggest the following interpretations.

Reliance on manufacturing jobs and the slow population growth continue to characterize the NEKCRED region. The 1995 economic trend analysis for the NEKCRED region suggested an economic restructuring led by a shift from manufacturing to service-oriented industries.⁴ However, recent employment data shows that manufacturing employment remains strong with the manufacturing sector experiencing the greatest sector increase in jobs (499) from 1992 to 95. Still, the importance of the service sector is increasing as illustrated by an increase of 350 jobs in service employment for the same time period.

Although the population in the region has not grown much since 1990, the population decline that began in 1920 has slowed or stopped. Jackson and Jefferson Counties, according to population estimates, have experienced an increase population from 1990 to 1997. For the same time period, Atchison, Brown, and Doniphan Counties have experienced declines in population while Nemaha County's population remained relatively unchanged.

While the average wage for the NEKCRED region continues to lag behind the state's average wage, the growth rate for wages in recent years has been greater than the state's. Lower average wages suggest that the region is vulnerable to movement to other parts of the state with higher wages. However, recent employment growth rates⁵, particularly for Jackson, Jefferson and Atchison Counties indicate that the residents in these counties are holding their own and even improving their competitive position with respect to employment.

⁴ *Economic Trends for Northeast Kansas*, KCCED/IPPBR, the University of Kansas, Report No. 29, 1995.

⁵ Employment growth rates are from data based on place of residence.

The percentage of the population with some post-high school education was lower for the NEKCRED region than for the state based on 1990 Census data. Recent high school graduation and dropout rates show signs of improvement in the education level of the population. However, with most new jobs created requiring post-high school education, work force training and adult education programs and strategies are critical for the region to maintain and improve its employment and population growth.

The NEKCRED region, as indicated by population and employment data, is experiencing both growth and decline. Those counties closer to the metropolitan areas, particularly Jackson and Jefferson Counties, appear to be experiencing greater growth. This trend can be found throughout the state of Kansas and the country. How the leadership for the region and the individual counties address these trends will have a lot to do with their future competitiveness.

APPENDIX A
POPULATION TOTALS, GROWTH RATES, RANK & SHARE

Atchison County
Brown County
Doniphan County
Jackson County
Jefferson County
Nemaha County

**TABLE 1A. POPULATION TOTALS, GROWTH RATES, RANK & SHARE
ATCHISON COUNTY
ACTUAL 1890-1990, ESTIMATES 1991-1997**

Year	ATCHISON		KANSAS		ATCHISON	
	Population Total	Growth Rate	Population Total	Growth Rate	Share (%)	County Rank
1890	26,758	--	1,427,096	--	1.9%	12
1900	28,606	6.9	1,470,495	3.0%	1.9	10
1910	28,107	-1.7	1,690,949	15.0	1.7	12
1920	23,411	-16.7	1,769,257	4.6	1.3	19
1930	23,945	2.3	1,880,999	6.3	1.3	18
1940	22,222	-7.2	1,801,028	-4.3	1.2	20
1950	21,496	-3.3	1,905,299	5.8	1.1	22
1960	20,898	-2.8	2,178,611	14.3	1.00	25
1970	19,165	-8.3	2,249,071	3.2	0.9	27
1980	18,397	-4.0	2,364,236	5.1	0.8	29
1990	16,932	-8.0	2,477,588	4.8	0.7	30
1991*	16,820	-0.7	2,492,577	0.6	0.7	30
1992*	16,333	-2.9	2,515,761	0.9	0.7	31
1993*	16,409	0.5	2,534,668	0.8	0.7	31
1994*	16,258	-0.9	2,553,889	0.8	0.6	32
1995*	16,257	0.0	2,569,619	0.6	0.6	33
1996*	16,271	0.1	2,579,149	0.4	0.6	33
1997*	16,319	0.3	2,594,840	0.6	0.6	33

* Estimate

Source: Population Totals: U.S. Bureau of the Census, Fifteenth Census of the United States, 1930 Vol. 1; "Census of Population, 1960: Number of Inhabitants; 1980 Census of Population", Vol. 1, Chapter A, Part 18; "1990 Decennial Census", mimeographed sheet; 1991-1997 Population Estimates, U.S. Bureau of Census.

**TABLE 1B. POPULATION TOTALS, GROWTH RATES, RANK & SHARE
BROWN COUNTY
ACTUAL 1890-1990, ESTIMATES 1991-1997**

Year	BROWN		KANSAS		BROWN	
	Population Total	Growth Rate	Population Total	Growth Rate	Share (%)	County Rank
1890	20,319	--	1,427,096	--	1.4%	23
1900	22,369	10.1	1,470,495	3.0%	1.5	19
1910	21,314	-4.7	1,690,949	15.0	1.3	23
1920	20,949	-1.7	1,769,257	4.6	1.2	26
1930	20,553	-1.9	1,880,999	6.3	1.1	29
1940	17,395	-15.4	1,801,028	-4.3	1.0	32
1950	14,651	-15.8	1,905,299	5.8	0.8	37
1960	13,229	-9.7	2,178,611	14.3	0.6	37
1970	11,685	-11.7	2,249,071	3.2	0.5	41
1980	11,955	2.3	2,364,236	5.1	0.5	40
1990	11,128	-6.9	2,477,588	4.8	0.5	39
1991*	11,124	0.0	2,492,577	0.6	0.5	39
1992*	11,069	-0.5	2,515,761	0.9	0.4	39
1993*	10,968	-0.9	2,534,668	0.8	0.4	39
1994*	11,030	0.6	2,553,889	0.8	0.4	39
1995*	11,031	0.0	2,569,619	0.6	0.4	39
1996*	10,970	-0.6	2,579,149	0.4	0.4	39
1997*	11,037	0.6	2,594,840	0.6	0.4	39

⁺ Growth Index is equal to County Growth Rate divided by Kansas Growth Rate.

* Estimate

Source: Population Totals: U.S. Bureau of the Census, Fifteenth Census of the United States, 1930 Vol. 1; "Census of Population, 1960: Number of Inhabitants; 1980 Census of Population", Vol. 1, Chapter A, Part 18; "1990 Decennial Census", mimeographed sheet; 1991-1997 Population Estimates, U.S. Bureau of Census.

**TABLE 1C. POPULATION TOTALS, GROWTH RATES, RANK & SHARE
DONIPHAN COUNTY
ACTUAL 1890-1990, ESTIMATES 1991-1997**

Year	DONIPHAN		KANSAS		DONIPHAN	
	Population Total	Growth Rate	Population Total	Growth Rate	Share (%)	County Rank
1890	13,535	--	1,427,096	--	1.0%	47
1900	15,079	11.4	1,470,495	3.0%	1.0	44
1910	14,422	-4.4	1,690,949	15.0	.9	48
1920	13,438	-6.8	1,769,257	4.6	0.8	52
1930	14,063	4.7	1,880,999	6.3	0.8	46
1940	12,936	-8.0	1,801,028	-4.3	0.7	46
1950	10,499	-18.8	1,905,299	5.8	0.6	50
1960	9,574	-8.8	2,178,611	14.3	0.4	53
1970	9,107	-4.9	2,249,071	3.2	0.4	49
1980	9,268	1.8	2,364,236	5.1	0.4	47
1990	8,134	-12.2	2,477,588	4.8	0.3	50
1991*	8,124	-0.1	2,492,577	0.6	0.3	50
1992*	8,063	-0.8	2,515,761	0.9	0.3	50
1993*	7,952	-1.4	2,534,668	0.8	0.3	51
1994*	7,722	-2.9	2,553,889	0.8	0.3	55
1995*	7,662	-0.8	2,569,619	0.6	0.3	55
1996*	7,663	0.0	2,579,149	0.4	0.3	52
1997*	7,664	0.0	2,594,840	0.6	0.3	53

⁺ Growth Index is equal to County Growth Rate divided by Kansas Growth Rate.

* Estimate

Source: Population Totals: U.S. Bureau of the Census, Fifteenth Census of the United States, 1930 Vol. 1; "Census of Population, 1960: Number of Inhabitants; 1980 Census of Population", Vol. 1, Chapter A, Part 18; "1990 Decennial Census", mimeographed sheet; 1991-1997 Population Estimates, U.S. Bureau of Census.

**TABLE 1D. POPULATION TOTALS, GROWTH RATES, RANK & SHARE
JACKSON COUNTY
ACTUAL 1890-1990, ESTIMATES 1991-1997**

Year	JACKSON		KANSAS		JACKSON	
	Population Total	Growth Rate	Population Total	Growth Rate	Share (%)	County Rank
1890	14,626	--	1,427,096	--	1.0	43
1900	17,117	17.0	1,470,495	3.0%	1.2	36
1910	16,861	-1.5	1,690,949	15.0	1.0	38
1920	15,495	-8.1	1,769,257	4.6	0.9	39
1930	14,776	-4.6	1,880,999	6.3	0.8	40
1940	13,382	-9.4	1,801,028	-4.3	0.7	43
1950	11,098	-17.1	1,905,299	5.8	0.6	47
1960	10,309	-7.1	2,178,611	14.3	0.5	48
1970	10,342	0.3	2,249,071	3.2	0.5	43
1980	11,644	12.6	2,364,236	5.1	0.5	42
1990	11,525	-1.0	2,477,588	4.8	0.5	38
1991*	11,519	-0.1	2,492,577	0.6	0.5	38
1992*	11,465	-0.5	2,515,761	0.9	0.5	37
1993*	11,573	0.9	2,534,668	0.8	0.5	37
1994*	11,669	0.8	2,553,889	0.8	0.5	37
1995*	11,762	0.8	2,569,619	0.6	0.5	37
1996*	11,980	1.9	2,579,149	0.4	0.5	37
1997*	12,036	0.5	2,594,840	0.6	0.5	37

⁺ Growth Index is equal to County Growth Rate divided by Kansas Growth Rate.

* Estimate

Source: Population Totals: U.S. Bureau of the Census, Fifteenth Census of the United States, 1930 Vol. 1; "Census of Population, 1960: Number of Inhabitants; 1980 Census of Population", Vol. 1, Chapter A, Part 18; "1990 Decennial Census", mimeographed sheet; 1991-1997 Population Estimates, U.S. Bureau of Census.

**TABLE 1E. POPULATION TOTALS, GROWTH RATES, RANK & SHARE
JEFFERSON COUNTY
ACTUAL 1890-1990, ESTIMATES 1991-1997**

Year	JEFFERSON		KANSAS		JEFFERSON	
	Population Total	Growth Rate	Population Total	Growth Rate	Share (%)	County Rank
1890	16,620	--	1,427,096	--	1.2	36
1900	17,533	5.5	1,470,495	3.0%	1.2	35
1910	15,826	-9.7	1,690,949	15.0	1.0	40
1920	14,750	-6.8	1,769,257	4.6	0.8	42
1930	14,129	-4.2	1,880,999	6.3	0.8	45
1940	12,718	-10.0	1,801,028	-4.3	0.7	47
1950	11,084	-12.8	1,905,299	5.8	0.6	48
1960	11,252	1.5	2,178,611	14.3	0.5	45
1970	11,945	6.2	2,249,071	3.2	0.5	38
1980	15,207	27.3	2,364,236	5.1	0.6	34
1990	15,905	4.6	2,477,588	4.8	0.6	32
1991*	16,001	0.6	2,492,577	0.6	0.6	32
1992*	16,239	1.5	2,515,761	0.9	0.7	32
1993*	16,464	1.4	2,534,668	0.8	0.7	32
1994*	16,809	2.1	2,553,889	0.8	0.7	31
1995*	17,226	2.5	2,569,619	0.6	0.7	30
1996*	17,527	1.7	2,579,149	0.4	0.7	30
1997*	17,930	2.3	2,594,840	0.6	0.7	30

⁺ Growth Index is equal to County Growth Rate divided by Kansas Growth Rate.

* Estimate

Source: Population Totals: U.S. Bureau of the Census, Fifteenth Census of the United States, 1930 Vol. 1; "Census of Population, 1960: Number of Inhabitants; 1980 Census of Population", Vol. 1, Chapter A, Part 18; "1990 Decennial Census", mimeographed sheet; 1991-1997 Population Estimates, U.S. Bureau of Census.

**TABLE 1F. POPULATION TOTALS, GROWTH RATES, RANK & SHARE
NEMAHA COUNTY
ACTUAL 1890-1990, ESTIMATES 1991-1997**

Year	NEMAHA		KANSAS		NEMAHA	
	Population Total	Growth Rate	Population Total	Growth Rate	Share (%)	County Rank
1890	19,249	--	1,427,096	--	1.4	
1900	20,376	5.9%	1,470,495	3.0%	1.4	
1910	19,072	-6.4	1,690,949	15.0	1.1	
1920	18,487	-3.1	1,769,257	4.6	1.1	31
1930	18,342	-0.8	1,880,999	6.3	1.0	34
1940	16,761	-8.6	1,801,028	-4.3	1.0	36
1950	14,341	-14.4	1,905,299	5.8	0.8	38
1960	12,897	-10.1	2,178,611	14.3	0.6	39
1970	11,825	-8.3	2,249,071	3.2	0.5	39
1980	11,211	-5.2	2,364,236	5.1	0.5	43
1990	10,446	-6.8	2,477,588	4.8	0.4	42
1991*	10,444	0.0	2,492,577	0.6	0.4	41
1992*	10,412	-0.3	2,515,761	0.9	0.4	41
1993*	10,407	0.0	2,534,668	0.8	0.4	41
1994*	10,434	0.3	2,553,889	0.8	0.4	41
1995*	10,397	-0.4	2,569,619	0.6	0.4	41
1996*	10,381	-0.2	2,579,149	0.4	0.4	40
1997*	10,254	-1.2	2,594,840	0.6	0.4	41

† Growth Index is equal to County Growth Rate divided by Kansas Growth Rate.

* Estimate

Source: Population Totals: U.S. Bureau of the Census, Fifteenth Census of the United States, 1930 Vol. 1; "Census of Population, 1960: Number of Inhabitants; 1980 Census of Population", Vol. 1, Chapter A, Part 18; "1990 Decennial Census", mimeographed sheet; 1991-1997 Population Estimates, U.S. Bureau of Census.

APPENDIX B
POPULATION AND JOB GROWTH RATES

ATCHISON COUNTY
BROWN COUNTY
DONIPHAN COUNTY
JACKSON COUNTY
JEFFERSON COUNTY
NEMAHA COUNTY

**TABLE 6A. POPULATION AND JOB GROWTH RATES
ATCHISON COUNTY
1982-1997**

	<u>82-84</u>	<u>84-86</u>	<u>86-88</u>	<u>88-90</u>	<u>90-92</u>	<u>92-94</u>	<u>94-97</u>
Job Growth	0.80%	-3.00%	5.68%	1.06%	2.66%	7.79%	-3.72%
Population Growth	-1.63%	-1.10%	-0.56%	-4.88%	-0.77%	-0.28%	-2.60%

Note: Employment based on individual's place of residence.

Source: Kansas Statistical Abstract 1996, IPPBR, University of Kansas; Kansas Department of Human Resources, Labor Market Information Services; and Population Estimates (1997), U.S. Bureau of Census.

**TABLE 6B. POPULATION AND JOB GROWTH RATES
BROWN COUNTY
1982-1997**

	<u>82-84</u>	<u>84-86</u>	<u>86-88</u>	<u>88-90</u>	<u>90-92</u>	<u>92-94</u>	<u>94-97</u>
Job Growth	-15.36%	2.97%	3.28%	9.26%	-6.31%	-4.50%	16.68%
Population Growth	-0.85%	-2.56%	0.00%	-2.39%	-0.46%	-0.42%	0.05%

Note: Employment based on individual's place of residence.

Source: Kansas Statistical Abstract 1996, IPPBR, University of Kansas; Kansas Department of Human Resources, Labor Market Information Services; and Population Estimates (1997), U.S. Bureau of Census.

**TABLE 6C. POPULATION AND JOB GROWTH RATES
DONIPHAN COUNTY
1982-1997**

	<u>82-84</u>	<u>84-86</u>	<u>86-88</u>	<u>88-90</u>	<u>90-92</u>	<u>92-94</u>	<u>94-97</u>
Job Growth	-17.99%	-1.79%	0.72%	3.89%	1.71%	1.61%	2.97%
Population Growth	-1.09%	0.00%	-1.10%	-9.62%	-0.81%	-5.49%	0.51%

Note: Employment based on individual's place of residence.

Source: Kansas Statistical Abstract 1996, IPPBR, University of Kansas; Kansas Department of Human Resources, Labor Market Information Services; and Population Estimates (1997), U.S. Bureau of Census.

**TABLE 6D. POPULATION AND JOB GROWTH RATES
JACKSON COUNTY
1982-1997**

	<u>82-84</u>	<u>84-86</u>	<u>86-88</u>	<u>88-90</u>	<u>90-92</u>	<u>92-94</u>	<u>94-97</u>
Job Growth	-8.22%	-3.42%	10.32%	-1.59%	4.79%	21.26%	9.53%
Population Growth	-0.85%	0.86%	0.85%	-2.33%	-0.52%	1.47%	3.46%

Note: Employment based on individual's place of residence.

Source: Kansas Statistical Abstract 1996, IPPBR, University of Kansas; Kansas Department of Human Resources, Labor Market Information Services; and Population Estimates (1997), U.S. Bureau of Census.

**TABLE 6E. POPULATION AND JOB GROWTH RATES
JEFFERSON COUNTY
1982-1997**

	<u>82-84</u>	<u>84-86</u>	<u>86-88</u>	<u>88-90</u>	<u>90-92</u>	<u>92-94</u>	<u>94-97</u>
Job Growth	-5.67%	9.22%	0.85%	2.62%	9.78%	9.83%	9.56%
Population Growth	1.92%	1.26%	4.97%	-5.89%	2.10%	3.59%	6.59%

Note: Employment based on individual's place of residence.

Source: Kansas Statistical Abstract 1996, IPPBR, University of Kansas; Kansas Department of Human Resources, Labor Market Information Services; and Population Estimates (1997), U.S. Bureau of Census.

**TABLE 6F. POPULATION AND JOB GROWTH RATES
NEMAHA COUNTY
1982-1997**

	<u>82-84</u>	<u>84-86</u>	<u>86-88</u>	<u>88-90</u>	<u>90-92</u>	<u>92-94</u>	<u>94-97</u>
Job Growth	-7.30%	7.44%	1.00%	2.66%	4.33%	-12.00%	4.54%
Population Growth	-0.89%	-0.90%	-1.82%	-3.28%	-0.33%	0.30%	-1.81%

Note: Employment based on individual's place of residence.

Source: Kansas Statistical Abstract 1996, IPPBR, University of Kansas; Kansas Department of Human Resources, Labor Market Information Services; and Population Estimates (1997), U.S. Bureau of Census.

APPENDIX C
NUMBER OF FIRMS BY NUMBER OF EMPLOYEES AND
PERCENTAGE DISTRIBUTION OF FIRMS BY NUMBER OF EMPLOYEES

ATCHISON COUNTY
BROWN COUNTY
DONIPHAN COUNTY
JACKSON COUNTY
JEFFERSON COUNTY
NEMAHA COUNTY

**TABLE 8A. NUMBER OF FIRMS BY NUMBER OF EMPLOYEES
ATCHISON COUNTY
1985 - 1995**

EMPLOYEES	ATCHISON			KANSAS		
	1985	1990	1995	1985	1990	1995
0-19	329	318	349	58,347	57,632	61,719
20-99	28	35	41	6,234	7,035	7,767
100-499	7	7	8	840	1,072	1,281
500+	1	1	1	89	119	127
Total	365	361	399	65,510	65,858	70,894

Note: Employment based on individual's place of work.

Source: U.S. Department of Commerce, Bureau of Economic Analysis; Kansas County Profile for Atchison County, KCCED/IPPBR, University of Kansas.

**TABLE 9A. PERCENTAGE DISTRIBUTION OF FIRMS BY NUMBER OF EMPLOYEES
ATCHISON COUNTY
1985 - 1995**

EMPLOYEES	ATCHISON			KANSAS		
	1985	1990	1995	1985	1990	1995
0-19	90.1%	88.1%	87.5%	89.1%	87.5%	87.1%
20-99	7.7	9.7	10.3	9.5	10.7	11.0
100-499	1.9	1.9	2.0	1.3	1.6	1.8
500+	0.3	0.3	0.3	0.1	0.2	0.2

Note: Employment based on individual's place of work.

Source: U.S. Department of Commerce, Bureau of Economic Analysis; Kansas County Profile for Atchison County, KCCED/IPPBR, University of Kansas.

**TABLE 8B. NUMBER OF FIRMS BY NUMBER OF EMPLOYEES
BROWN COUNTY
1985 - 1995**

EMPLOYEES	BROWN			KANSAS		
	1985	1990	1995	1985	1990	1995
0-19	265	256	251	58,347	57,632	61,719
20-99	25	16	30	6,234	7,035	7,767
100-499	2	6	4	840	1,072	1,281
500+	0	0	0	89	119	127
Total	292	278	285	65,510	65,858	70,894

Note: Employment based on individual's place of work.

Source: U.S. Department of Commerce, Bureau of Economic Analysis; Kansas County Profile for Brown County, KCCED/IPPBR, University of Kansas.

**TABLE 9B. PERCENTAGE DISTRIBUTION OF FIRMS BY NUMBER OF EMPLOYEES
BROWN COUNTY
1985 - 1995**

EMPLOYEES	BROWN			KANSAS		
	1985	1990	1995	1985	1990	1995
0-19	90.1%	88.1%	87.5%	89.1%	87.5%	87.1%
20-99	7.7	9.7	10.3	9.5	10.7	11.0
100-499	1.9	1.9	2.0	1.3	1.6	1.8
500+	0.3	0.3	0.3	0.1	0.2	0.2

Note: Employment based on individual's place of work.

Source: U.S. Department of Commerce, Bureau of Economic Analysis; Kansas County Profile for Brown County, KCCED/IPPBR, University of Kansas.

**TABLE 8C. NUMBER OF FIRMS BY NUMBER OF EMPLOYEES
DONIPHAN COUNTY
1985 - 1995**

EMPLOYEES	DONIPHAN			KANSAS		
	1985	1990	1995	1985	1990	1995
0-19	154	132	141	58,347	57,632	61,719
20-99	8	8	11	6,234	7,035	7,767
100-499	4	3	3	840	1,072	1,281
500+	0	0	0	89	119	127
Total	166	143	155	65,510	65,858	70,894

Note: Employment based on individual's place of work.

Source: U.S. Department of Commerce, Bureau of Economic Analysis; Kansas County Profile for Doniphan County, KCCED/IPPBR, University of Kansas.

**TABLE 9C. PERCENTAGE DISTRIBUTION OF FIRMS BY NUMBER OF EMPLOYEES
DONIPHAN COUNTY
1985 - 1995**

EMPLOYEES	DONIPHAN			KANSAS		
	1985	1990	1995	1985	1990	1995
0-19	92.8%	92.3%	91.0%	89.1%	87.5%	87.1%
20-99	4.8	5.6	7.1	9.5	10.7	11.0
100-499	2.4	2.1	1.9	1.3	1.6	1.8
500+	0.0	0.0	0.0	0.1	0.2	0.2

Note: Employment based on individual's place of work.

Source: U.S. Department of Commerce, Bureau of Economic Analysis; Kansas County Profile for Doniphan County, KCCED/IPPBR, University of Kansas.

**TABLE 8D. Number of Firms By Number of Employees
Jackson County
1985 - 1995**

EMPLOYEES	JACKSON			KANSAS		
	1985	1990	1995	1985	1990	1995
0-19	265	256	251	58,347	57,632	61,719
20-99	25	16	30	6,234	7,035	7,767
100-499	2	6	4	840	1,072	1,281
500+	0	0	0	89	119	127
Total	292	278	285	65,510	65,858	70,894

Note: Employment based on individual's place of work.

Source: U.S. Department of Commerce, Bureau of Economic Analysis; Kansas County Profile for Jackson County, KCCED/IPPBR, University of Kansas.

**TABLE 9D. PERCENTAGE DISTRIBUTION OF FIRMS BY NUMBER OF EMPLOYEES
JACKSON COUNTY
1985 - 1995**

EMPLOYEES	JACKSON			KANSAS		
	1985	1990	1995	1985	1990	1995
0-19	90.1%	88.1%	87.5%	89.1%	87.5%	87.1%
20-99	7.7	9.7	10.3	9.5	10.7	11.0
100-499	1.9	1.9	2.0	1.3	1.6	1.8
500+	0.3	0.3	0.3	0.1	0.2	0.2

Note: Employment based on individual's place of work.

Source: U.S. Department of Commerce, Bureau of Economic Analysis; Kansas County Profile for Jackson County, KCCED/IPPBR, University of Kansas.

**TABLE 8E. NUMBER OF FIRMS BY NUMBER OF EMPLOYEES
JEFFERSON COUNTY
1985 - 1995**

EMPLOYEES	JEFFERSON			KANSAS		
	1985	1990	1995	1985	1990	1995
0-19	260	273	288	58,347	57,632	61,719
20-99	6	9	7	6,234	7,035	7,767
100-499	1	1	2	840	1,072	1,281
500+	0	0	0	89	119	127
Total	267	283	297	65,510	65,858	70,894

Note: Employment based on individual's place of work.

Source: U.S. Department of Commerce, Bureau of Economic Analysis; Kansas County Profile for Jefferson County, KCCED/IPPBR, University of Kansas.

**TABLE 9E. PERCENTAGE DISTRIBUTION OF FIRMS BY NUMBER OF EMPLOYEES
JEFFERSON COUNTY
1985 - 1995**

EMPLOYEES	JEFFERSON			KANSAS		
	1985	1990	1995	1985	1990	1995
0-19	97.4%	96.5%	97.0%	89.1%	87.5%	87.1%
20-99	2.2	3.2	2.4	9.5	10.7	11.0
100-499	0.4	0.4	0.7	1.3	1.6	1.8
500+	0.0	0.0	0.0	0.1	0.2	0.2

Note: Employment based on individual's place of work.

Source: U.S. Department of Commerce, Bureau of Economic Analysis; Kansas County Profile for Jefferson County, KCCED/IPPBR, University of Kansas.

**TABLE 8F. NUMBER OF FIRMS BY NUMBER OF EMPLOYEES
NEMAHA COUNTY
1985 - 1995**

EMPLOYEES	NEMAHA			KANSAS		
	1985	1990	1995	1985	1990	1995
0-19	311	329	338	58,347	57,632	61,719
20-99	17	19	28	6,234	7,035	7,767
100-499	3	6	7	840	1,072	1,281
500+	0	0	0	89	119	127
Total	331	353	373	65,510	65,858	70,894

Note: Employment based on individual's place of work.

Source: U.S. Department of Commerce, Bureau of Economic Analysis; Kansas County Profile for Nemaha County, KCCED/IPPBR, University of Kansas.

**TABLE 9F. PERCENTAGE DISTRIBUTION OF FIRMS BY NUMBER OF EMPLOYEES
NEMAHA COUNTY
1985 - 1995**

EMPLOYEES	NEMAHA			KANSAS		
	1985	1990	1995	1985	1990	1995
0-19	94.0%	92.9%	90.6%	89.1%	87.5%	87.1%
20-99	5.1	5.4	7.5	9.5	10.7	11.0
100-499	0.9	1.7	1.9	1.3	1.6	1.8
500+	0.0	0.0	0.0	0.1	0.2	0.2

Note: Employment based on individual's place of work.

Source: U.S. Department of Commerce, Bureau of Economic Analysis; Kansas County Profile for Nemaha County, KCCED/IPPBR, University of Kansas.

APPENDIX D
COMMUTING PATTERNS

ATCHISON COUNTY
BROWN COUNTY
DONIPHAN COUNTY
JACKSON COUNTY
JEFFERSON COUNTY
NEMAHA COUNTY

Commuting Patterns: NEKCREC Counties

Commuting patterns illustrate the movement of workers in and out of the county. The maps are based on information gathered from the 1990 U.S. Census. Highlights for each county follows:

Atchison County (Maps A and B)

- In 1990, Mid-March employment for Atchison County was 4,724 (place of work). The employed Civilian Labor Force in 1990 was 7,056 (based on place of residence).
- In 1990, there were 1,322 Atchison County residents employed outside the County (Map A).
- Thirty-eight percent of the residents (503) working outside of Atchison County commuted out of state to work.
- Thirty-five percent of the residents working outside Atchison County commuted to either Leavenworth County to the south (302 residents) or Brown County to the north (160 resident).
- 1,123 individuals from other Kansas counties and other states commuted to work in Atchison County in 1990 (Map B).
- Fifty-four percent, or 608 individuals, commuted to work in Atchison County from other states.
- Thirty-four percent of those who commuted in to Atchison County came from four surrounding counties: Doniphan, Leavenworth, Jefferson, and Brown.
- Atchison County experienced a net commuting **outflow** of 199 individuals (Outflow - Inflow = $1,322 - 1,123 = 199$).

Brown County (Maps C and D)

- In 1990, Mid-March employment for Brown County was 2,908 (place of work). The employed Civilian Labor Force in 1990 was 5,168 (based on place of residence).
- 766 Brown County residents were employed outside the county in 1990 (Map C).
- Over 51 percent of the residents (395 residents) working outside Brown County commuted from either Nemaha County (269 residents) to the west or from Doniphan County (126 residents) to the east.
- Fifteen percent (115 residents) worked outside of Kansas.
- 853 individuals from other Kansas counties and other states commuted to work in Brown County in 1990 (Map D).
- Nemaha (209 residents), Atchison (160 residents), and Doniphan (143 residents) counties accounted for 60 percent of the inflow.
- About 20 percent of the individuals commuting in to Brown County to work came from outside of Kansas.
- Brown County experienced a net commuting **inflow** of 87 individuals (Outflow - Inflow = $766 - 853 = -87$).

Doniphan County (Maps E and F)

- In 1990, Mid-March employment for Doniphan County was 1,620 (place of work). The employed Civilian Labor Force in 1990 was 3,794 (based on place of residence).
- 1,572 Doniphan County residents were employed outside the county in 1990 (Map E).
- 77 percent of the residents (1,205 residents) working outside Brown County commuted from other states.
- Brown (143 residents) and Nemaha (132 residents) counties supplied work for 17 percent of the residents commuting outside of Doniphan County.
- 1,276 individuals from other Kansas counties and other states commuted to work in Doniphan County in 1990 (Map F).
- About 87 percent of the individuals commuting into Doniphan County to work came from outside of Kansas.
- Brown County residents (125) accounted for about 10 percent of the individuals that commuted in to Doniphan County for work.
- Doniphan County experienced a net commuting **outflow** of 296 individuals (Outflow - Inflow = 1,572 - 1,276 = 296).

Jackson County (Maps G and H)

- In 1990, Mid-March employment for Jackson County was 1,446 (place of work). The employed Civilian Labor Force in 1990 was 4,776 (based on place of residence).
- 2,651 Jackson County residents were employed outside the county in 1990 (Map G).
- 80 percent of the residents (2,111 residents) working outside Jackson County commuted to Shawnee County.
- Pottawatomie (201 residents) and Brown (102 residents) counties supplied jobs for 11 percent of those commuting outside of Jackson County to work.
- 432 individuals from other Kansas counties and other states commuted to work in Jackson County in 1990 (Map H).
- 34 percent of the individuals commuting into Jackson County to work came from Shawnee County.
- Jackson County experienced a net commuting **outflow** of 2,219 individuals (Outflow - Inflow = 2,651 - 432 = 2,219).

Jefferson County (Maps I and J)

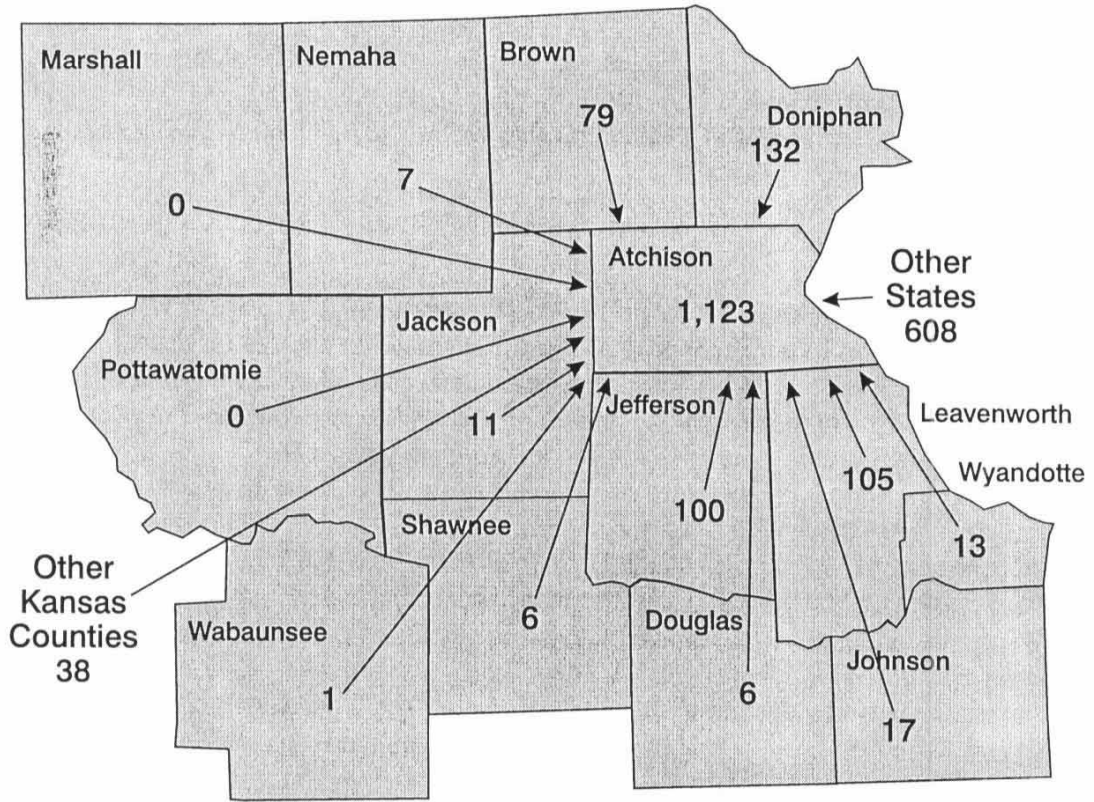
- In 1990, Mid-March employment for Jefferson County was 1,473 (place of work). The employed Civilian Labor Force in 1990 was 7,708 (based on place of residence).
- 4,715 Jefferson County residents were employed outside the county in 1990 (Map I).
- 78 percent of the residents working outside of Jefferson County commuted to either Shawnee (2,544 residents) or Douglas (1,074 residents) to work.
- 637 individuals from other Kansas counties and other states commuted to work in Jefferson County in 1990 (Map J).
- 64 percent of the individuals commuting in to work in Jefferson County came from either Douglas (214 individuals) or Shawnee (195 individuals) counties.
- Jefferson County experienced a net commuting **outflow** of 4,058 individuals (Outflow - Inflow = 4,715 - 637 = 4,078).

Nemaha County (Maps K and L)

- In 1990, Mid-March employment for Nemaha County was 3,270 (place of work). The employed Civilian Labor Force in 1990 was 5,704 (based on place of residence).
- 657 Nemaha County residents were employed outside the county in 1990 (Map K).
- 49 percent of the residents working outside of Nemaha County commuted to either Brown (209 residents) or Pottawatomie (111 residents) counties to work.
- 730 individuals from other Kansas counties and other states commuted to work in Nemaha County in 1990 (Map L).
- 61 percent of the individuals commuting in to work in Nemaha County came from either Brown (69 individuals) or Marshall (176 individuals) counties.
- 23 percent of the individuals commuting in to work in Nemaha County came from counties in other states.
- Nemaha County experienced a net commuting **inflow** of 73 individuals (Outflow - Inflow = 657 - 730 = -73).

Map A. Atchison County

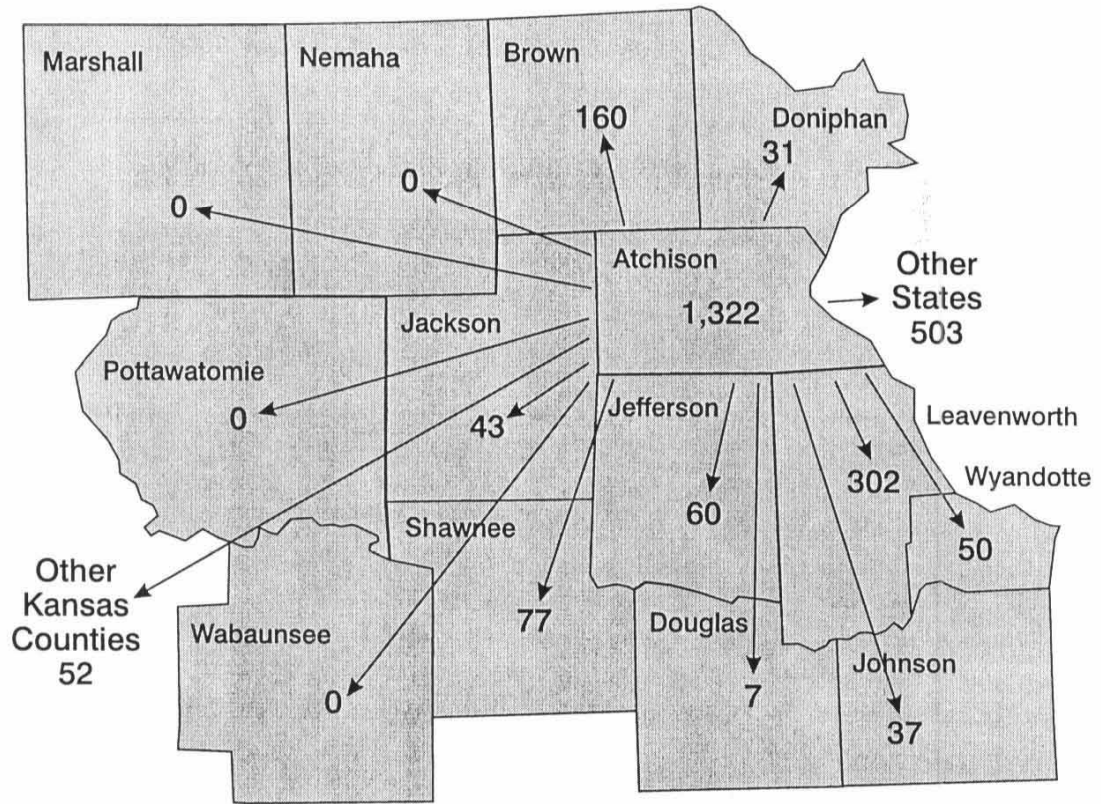
Daily Commuting Patterns
Atchison County In-Flows



Source: U.S. Bureau of the Census: 1990.

Map B. Atchison County

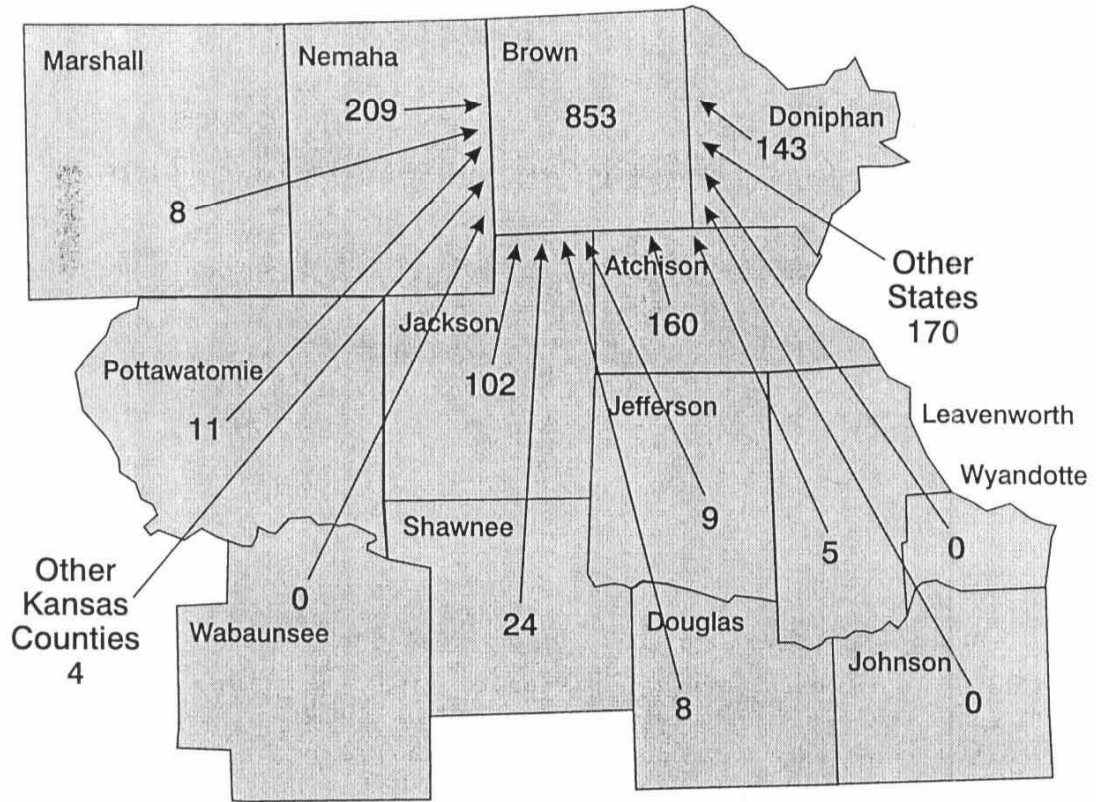
Daily Commuting Patterns:
Atchison County Out-Flows



Source: U.S. Bureau of the Census: 1990.

Map C. Brown County

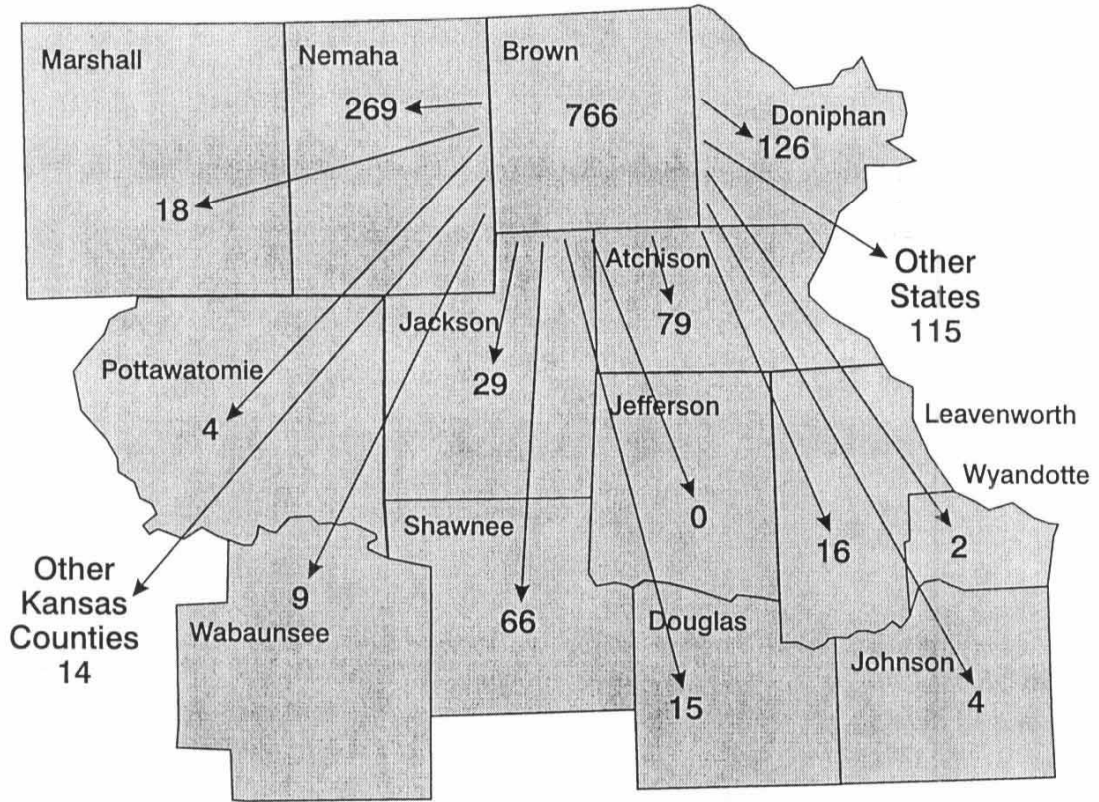
Daily Commuting Patterns Brown County In-Flows



Source: U.S. Bureau of the Census: 1990.

Map D. Brown County

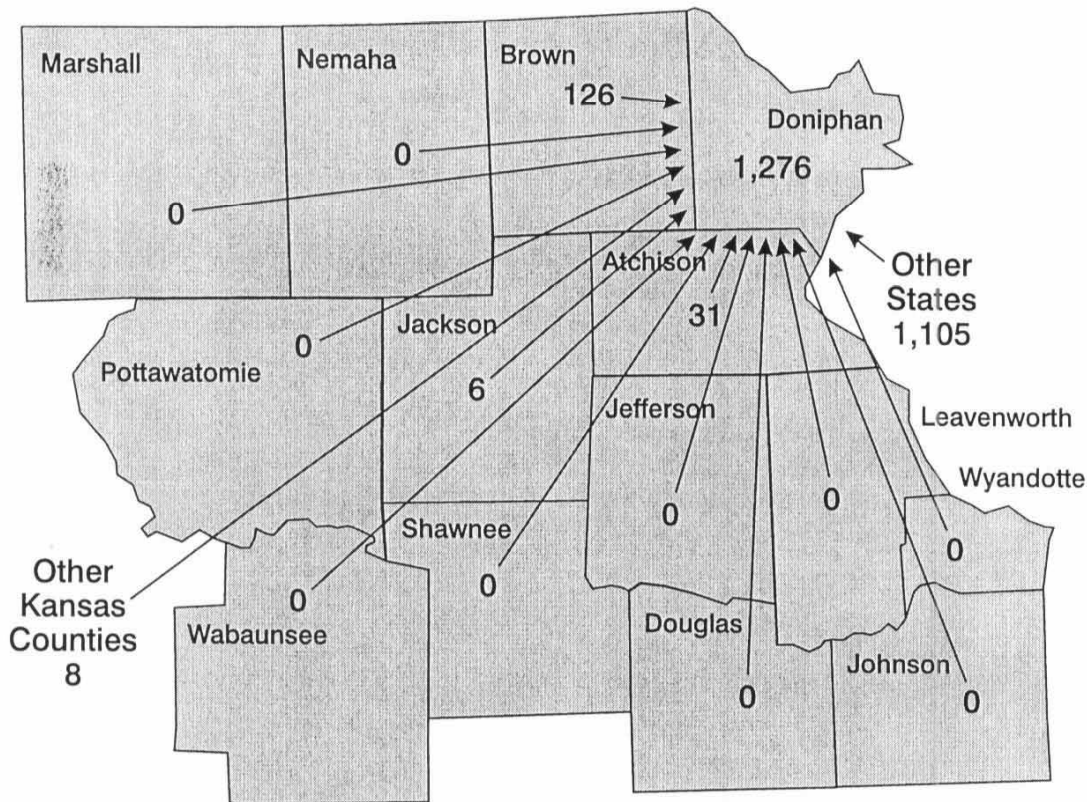
Daily Commuting Patterns
Brown County Out-Flows



Source: Bureau of the Census: 1990.

Map E. Doniphan County

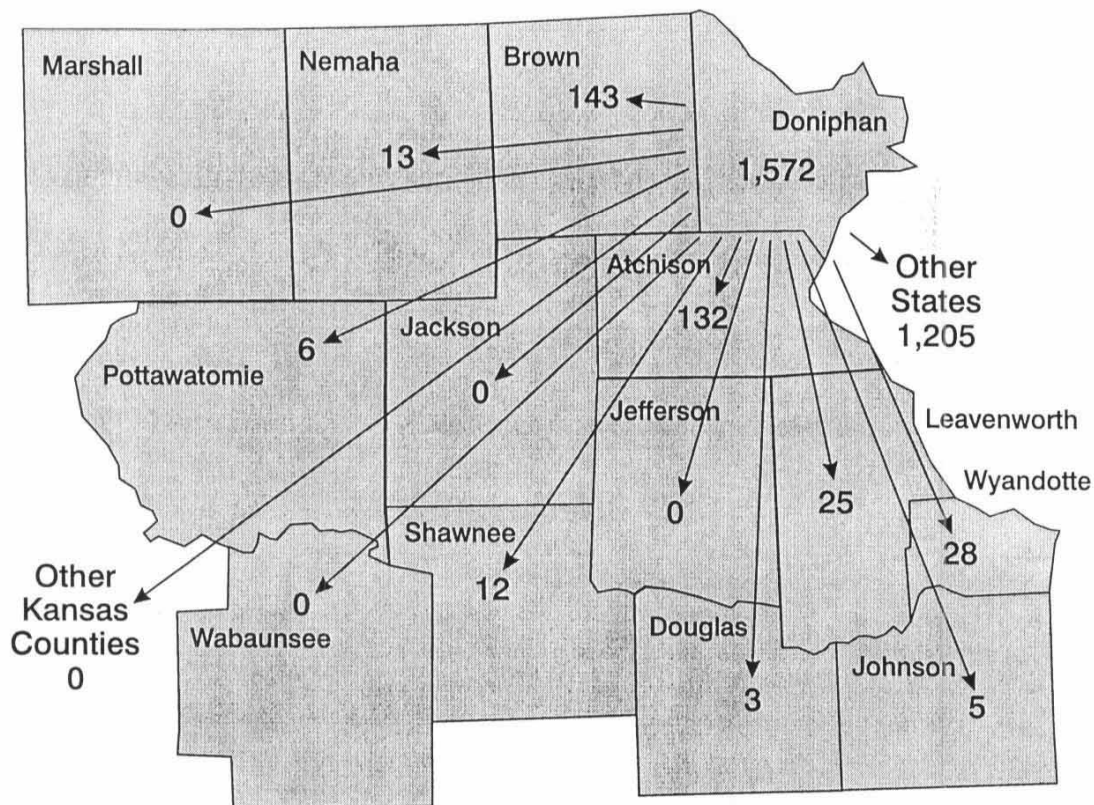
Daily Commuting Patterns
Doniphan County In-Flows



Source: U.S. Bureau of the Census: 1990.

Map F. Doniphan County

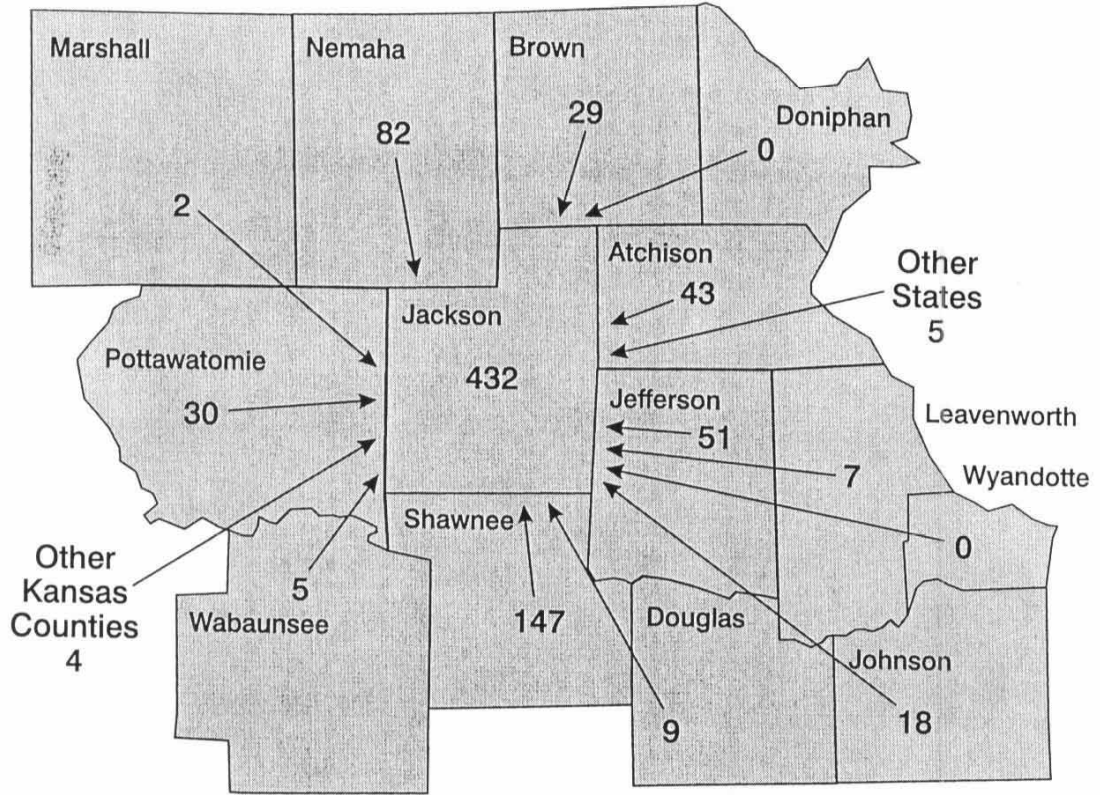
Daily Commuting Patterns
Doniphan County Out-Flows



Source: I.S. Bureau of the Census: 1990.

Map G. Jackson County

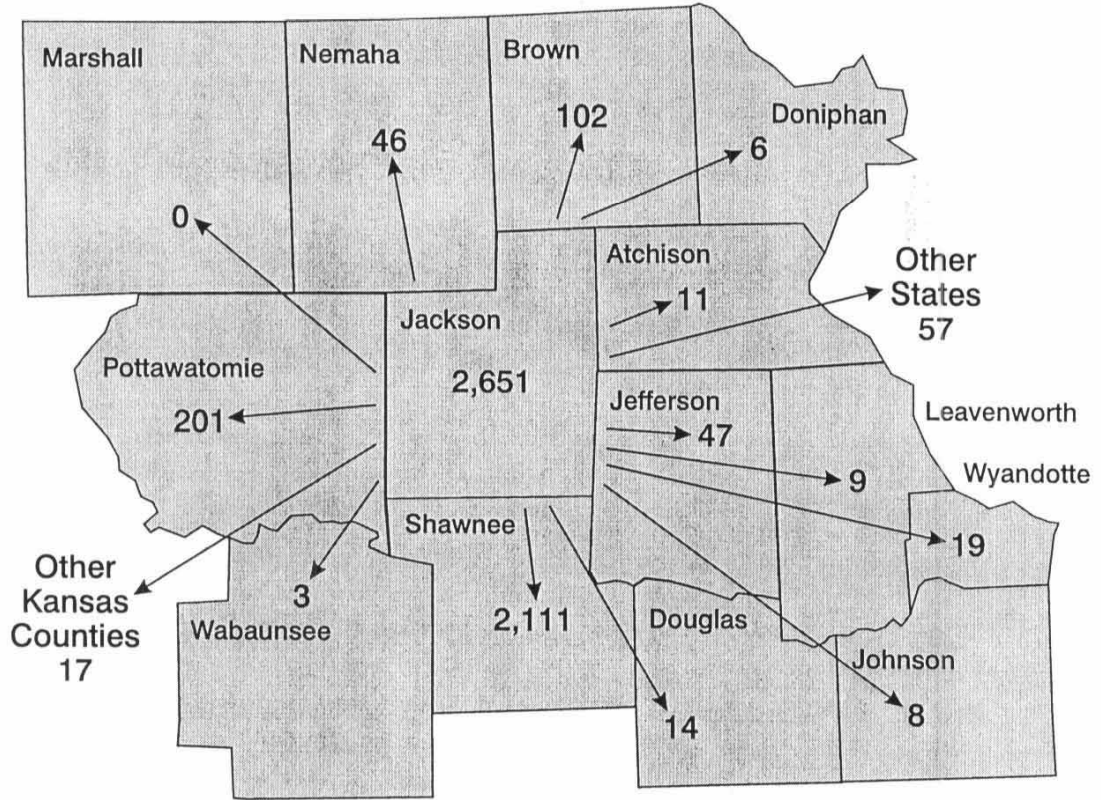
Daily Commuting Patterns Jackson County In-Flows



Source: U.S. Bureau of the Census: 1990.

Map H. Jackson County

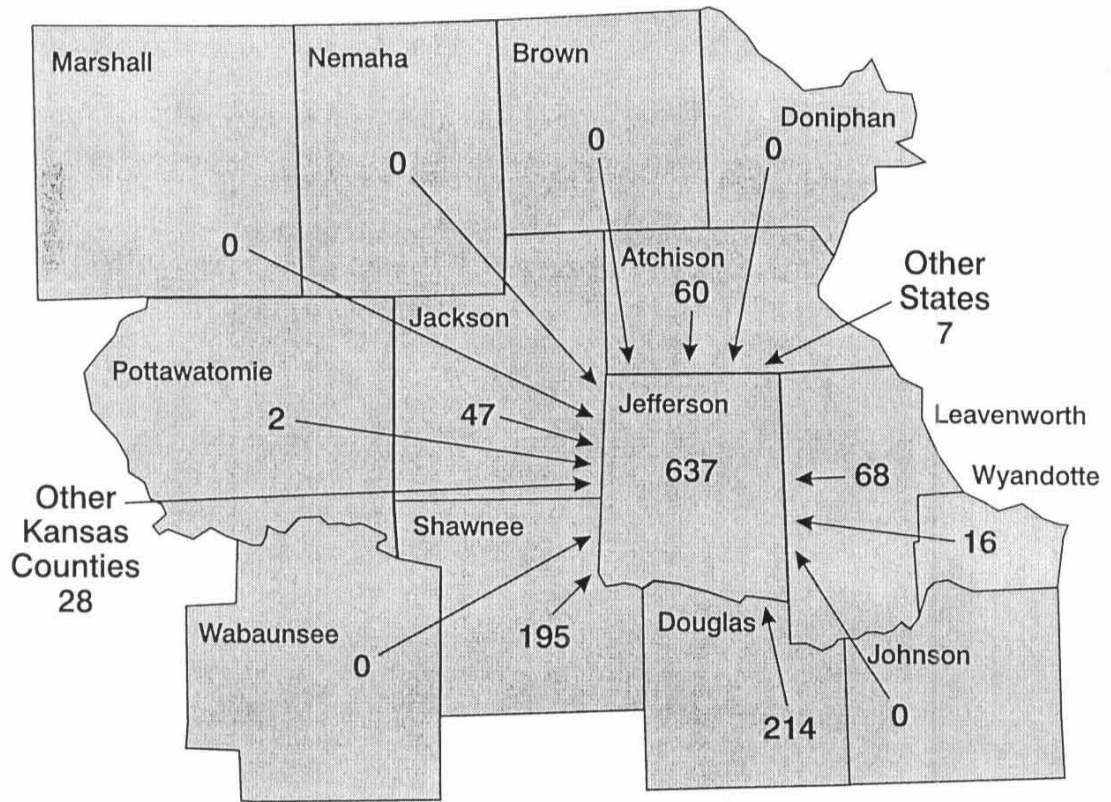
Daily Commuting Patterns
Jackson County Out-Flows



Source: U.S. Bureau of the Census: 1990.

Map I. Jefferson County

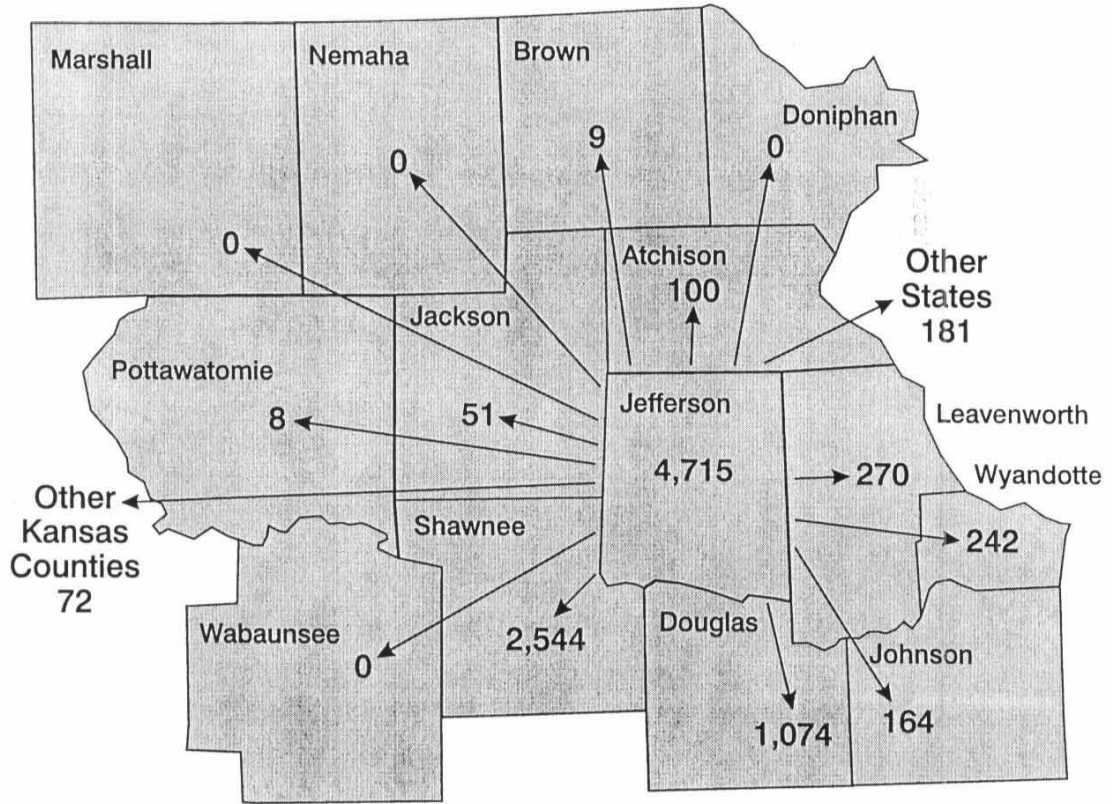
Daily Commuting Patterns Jefferson County In-Flows



Source: U.S. Bureau of the Census: 1990.

Map J. Jefferson County

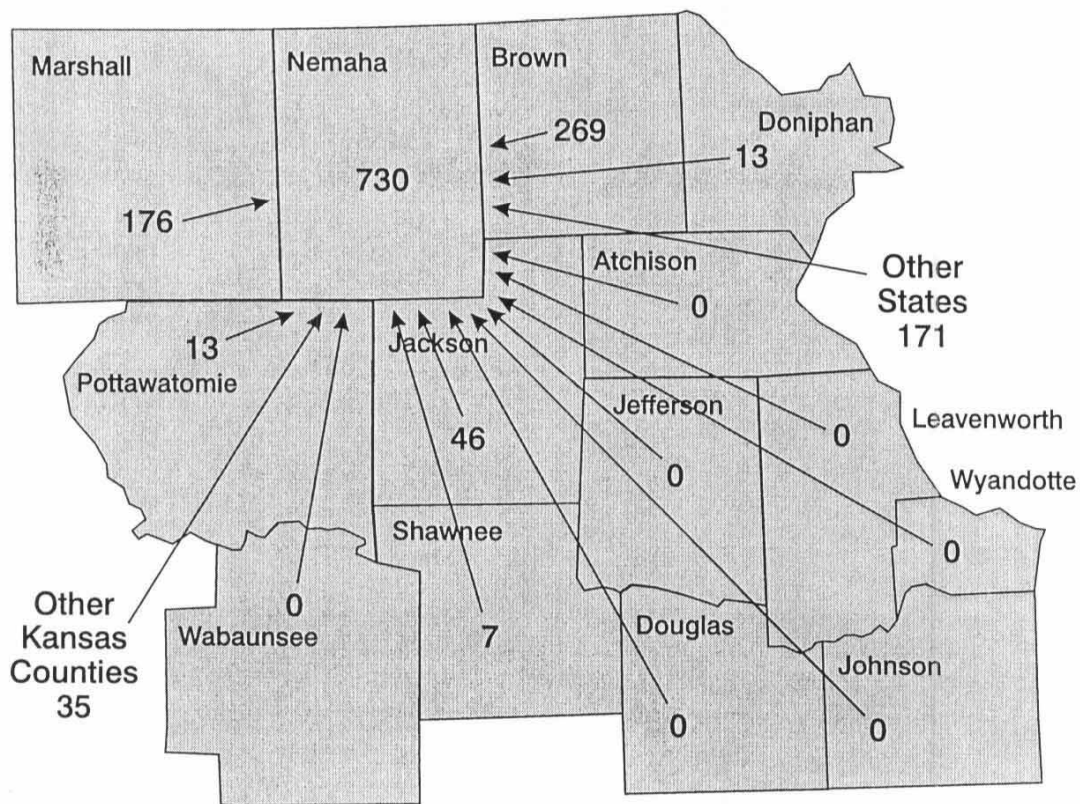
Daily Commuting Patterns Jefferson County Out-Flows



Source: Bureau of the Census: 1990.

Map K. Nemaha County

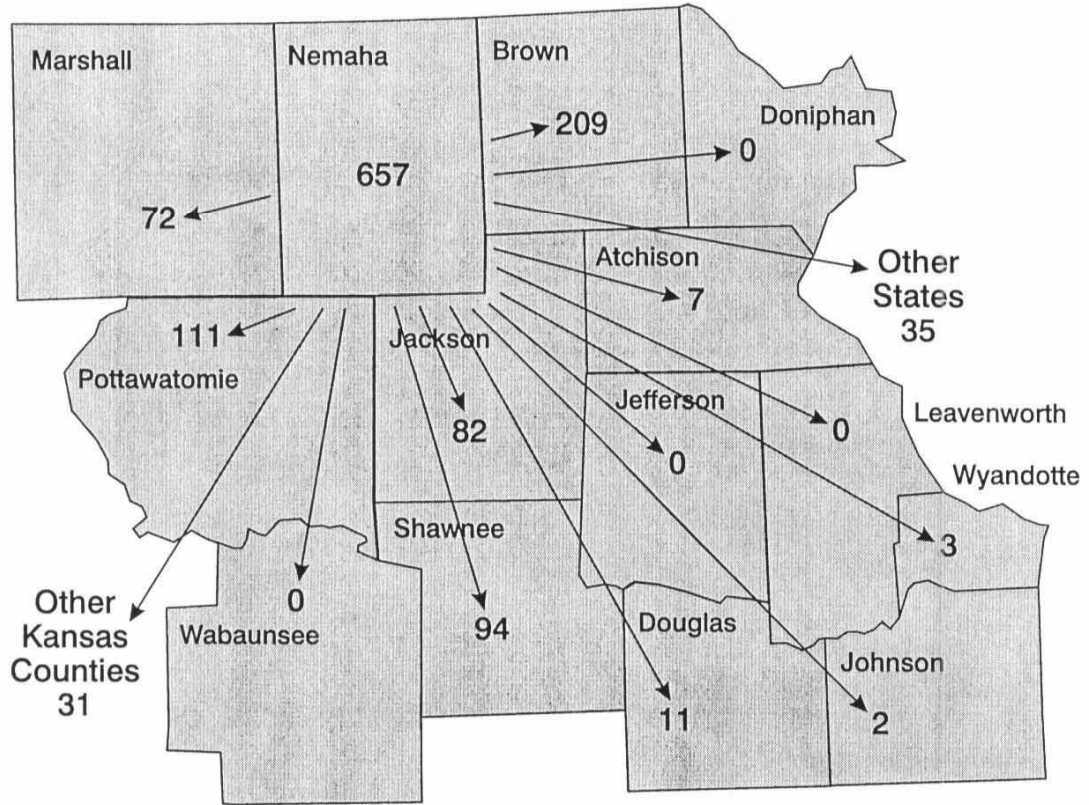
Daily Commuting Patterns Nemaha County In-Flows



Source: U.S. Bureau of the Census: 1990.

Map L. Nemaha County

Daily Commuting Patterns
Nemaha County Out-Flows



Source: U.S. Bureau of the Census: 1990.

APPENDIX E
EMPLOYMENT LEVELS BY INDUSTRY AND GROWTH RATES

ATCHISON COUNTY
BROWN COUNTY
DONIPHAN COUNTY
JACKSON COUNTY
JEFFERSON COUNTY
NEMAHA COUNTY

**TABLE 10A. EMPLOYMENT LEVELS BY INDUSTRY GROWTH RATES (PERCENT)
NEKCRED AND KANSAS
1989-1995**

INDUSTRY	NEKCRED		KANSAS	
	89-92	92-95	89-92	92-95
Agricultural Services	-48.0%	47.9%	9.6%	23.4%
Mining	-44.0	-21.3	-16.0	5.2
Construction	3.8	-1.9	8.7	13.8
Manufacturing	3.9	12.2	-1.1	5.1
Transportation	8.3	4.1	-2.3	6.3
Wholesale	2.6	-2.2	3.0	3.3
Retail	2.7	10.1	4.4	10.1
Finance, Insurance, Real Estate	-9.2	2.3	-4.0	3.4
Services	6.2	4.6	9.0	9.6
Government Services	7.1	2.0	6.4	2.4
Subtotal-Non-Farm	3.5	7.1	3.9	7.1
Farm Employment	-1.9	-4.1	-5.0	-4.5
Total Employment	2.5	5.2	3.4	6.5

Note: Employment based on individual's place of work.
A = Reflects suppressed data.

Source: Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA25.
Calculations, IPPBR/KCCED.

TABLE 10B. EMPLOYMENT LEVELS BY INDUSTRY (IN THOUSANDS)
EMPLOYMENT GROWTH RATES (IN PERCENT)
ATCHISON COUNTY
1989-1995

INDUSTRY	EMPLOYMENT			GROWTH RATE	
	1989	1992	1995	89-92	92-95
Agricultural Services	67	71	A	6.0%	NA
Mining	A	44	35	NA	-20.5
Construction	293	334	A	14.0	NA
Manufacturing	1,564	1,578	1,513	0.9	-4.1
Transportation	A	201	240	NA	19.4
Wholesale	471	550	580	16.8	5.5
Retail	1,320	1,393	1,472	5.5	5.7
Finance, Ins., Real Estate	356	316	355	-11.2	12.3
Services	2,035	2,147	2,233	5.5	4.0
Government Services	1,282	1,326	1,311	3.4	-1.1
Non-Farm (subtotal)	7,644	7,960	8,352	4.1	4.9
Farm Employment	848	850	816	0.2	-4.0
Total Employment	8,492	8,810	9,168	3.7	4.1

Note: Employment based on individual's place of work.
A = Reflects suppressed data.

Source: Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA25.

**TABLE 10C. EMPLOYMENT LEVELS BY INDUSTRY (IN THOUSANDS)
EMPLOYMENT GROWTH RATES (IN PERCENT)
BROWN COUNTY
1989-1995**

INDUSTRY	EMPLOYMENT			GROWTH RATE	
	1989	1992	1995	89-92	92-95
Agricultural Services	80	70	121	-12.5%	72.9%
Mining	A	17	A	NA	NA
Construction	183	197	169	7.7	-14.2
Manufacturing	790	758	871	-4.1	14.9
Transportation	209	204	213	-2.4	4.4
Wholesale	196	213	222	8.7	4.2
Retail	766	740	800	-3.4	8.1
Finance, Ins., Real Estate	517	314	310	-39.3	-1.3
Services	1,441	1,552	1,690	7.7	8.9
Government Services	917	1,007	973	9.8	-3.4
Non-Farm (subtotal)	5,104	5,072	5,373	-0.6	5.9
Farm Employment	901	866	827	-3.9	-4.5
Total Employment	6,005	5,938	6,200	-1.1	4.4

Note: Employment based on individual's place of work.
A = Reflects suppressed data.

Source: Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA25.

**TABLE 10D. EMPLOYMENT LEVELS BY INDUSTRY (IN THOUSANDS)
EMPLOYMENT GROWTH RATES (IN PERCENT)
DONIPHAN COUNTY
1989-1995**

<u>INDUSTRY</u>	<u>EMPLOYMENT</u>			<u>GROWTH RATE</u>	
	<u>1989</u>	<u>1992</u>	<u>1995</u>	<u>89-92</u>	<u>92-95</u>
Agricultural Services	54	53	48	-1.9%	-9.4%
Mining	A	A	A	NA	NA
Construction	191	145	163	-24.1	12.4
Manufacturing	530	602	867	13.6	44.0
Transportation	90	93	106	3.3	14.0
Wholesale	431	420	380	-2.6	-9.5
Retail	439	462	410	5.2	-11.3
Finance, Ins., Real Estate	155	165	160	6.5	-3.0
Services	537	513	505	-4.5	-1.6
Government Services	775	753	769	-2.8	2.1
Non-Farm (subtotal)	3,206	3,209	3,411	0.1	6.3
Farm Employment	654	663	634	1.4	-4.4
Total Employment	3,860	3,872	4,045	0.3	4.5

Note: Employment based on individual's place of work.

A = Reflects suppressed data.

Source: Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA25.

**TABLE 10E. EMPLOYMENT LEVELS BY INDUSTRY (IN THOUSANDS)
EMPLOYMENT GROWTH RATES (IN PERCENT)
JACKSON COUNTY
1989-1995**

INDUSTRY	EMPLOYMENT			GROWTH RATE	
	1989	1992	1995	89-92	92-95
Agricultural Services	104	65	95	-37.5%	46.2%
Mining	A	A	A	NA	NA
Construction	330	371	439	12.4	18.3
Manufacturing	283	306	350	8.1	14.4
Transportation	133	116	87	-12.8	-25.0
Wholesale	124	132	130	6.5	-1.5
Retail	849	835	995	-1.6	19.2
Finance, Ins., Real Estate	238	310	272	30.3	-12.3
Services	866	928	1,023	7.2	10.2
Government Services	904	961	997	6.3	3.7
Non-Farm (subtotal)	3,835	4,027	4,391	5.0	9.0
Farm Employment	1,222	1,183	1,138	-3.2	-3.8
Total Employment	5,057	5,210	5,529	3.0	6.1

Note: Employment based on individual's place of work.
A = Reflects suppressed data.

Source: Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA25.

**TABLE 10F. EMPLOYMENT LEVELS BY INDUSTRY (IN THOUSANDS)
EMPLOYMENT GROWTH RATES (IN PERCENT)
JEFFERSON COUNTY
1989-1995**

<u>INDUSTRY</u>	<u>EMPLOYMENT</u>			<u>GROWTH RATE</u>	
	<u>1989</u>	<u>1992</u>	<u>1995</u>	<u>89-92</u>	<u>92-95</u>
Agricultural Services	76	A	A	NA	NA
Mining	79	A	A	NA	NA
Construction	320	355	542	10.9	52.7
Manufacturing	69	88	109	27.5	23.9
Transportation	240	161	169	-32.9	5.0
Wholesale	105	95	88	-9.5	-7.4
Retail	630	679	763	7.8	12.4
Finance, Ins., Real Estate	239	222	233	-7.1	5.0
Services	1,204	1,286	1,237	6.8	-3.8
Government Services	1,351	1,560	1,700	15.5	9.0
Non-Farm (subtotal)	4,313	4,685	5,099	8.6	8.8
Farm Employment	1,164	1,138	1,095	-2.2	-3.8
Total Employment	5,477	5,823	6,194	6.3	6.4

Note: Employment based on individual's place of work.
A = Reflects suppressed data.

Source: Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA25.

**TABLE 10G. EMPLOYMENT LEVELS BY INDUSTRY (IN THOUSANDS)
EMPLOYMENT GROWTH RATES (IN PERCENT)
NEMAHA COUNTY
1989-1995**

<u>INDUSTRY</u>	<u>EMPLOYMENT</u>			<u>GROWTH RATE</u>	
	<u>1989</u>	<u>1992</u>	<u>1995</u>	<u>89-92</u>	<u>92-95</u>
Agricultural Services	117	A	119	NA	NA
Mining	30	A	13	NA	NA
Construction	225	198	256	-12.0	29.3
Manufacturing	686	743	864	8.3	16.3
Transportation	527	524	537	-0.6	2.5
Wholesale	311	270	243	-13.2	-10.0
Retail	800	823	988	2.9	20.0
Finance, Ins., Real Estate	194	215	248	10.8	15.3
Services	1,135	1,238	1,326	9.1	7.1
Government Services	789	838	826	6.2	-1.4
Non-Farm (subtotal)	4,814	4,965	5,420	3.1	9.2
Farm Employment	1,454	1,423	1,363	-2.1	-4.2
Total Employment	6,268	6,388	6,783	1.9	6.2

Note: Employment based on individual's place of work.
A = Reflects suppressed data.

Source: Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA25.

APPENDIX F
TOTAL ANNUAL PAYROLL BY INDUSTRY

ATCHISON COUNTY
BROWN COUNTY
DONIPHAN COUNTY
JACKSON COUNTY
JEFFERSON COUNTY
NEMAHA COUNTY

TABLE 11A. TOTAL ANNUAL PAYROLL GROWTH RATES (PERCENT)
NEKCRED AND KANSAS
1985-1995

<u>INDUSTRY</u>	<u>NEKCRED</u>		<u>KANSAS</u>	
	<u>85-90</u>	<u>90-95</u>	<u>85-90</u>	<u>90-95</u>
Agricultural Services	81.4%	263.0%	70.0%	57.2%
Mining	NA	-10.9	-31.6	-4.2
Construction	2.5	75.3	24.8	35.9
Manufacturing	27.9	52.0	17.4	22.3
Transportation	53.2	35.9	39.5	17.5
Wholesale	8.7	25.2	32.0	27.1
Retail	23.9	35.3	27.2	29.3
Finance, Insurance, Real Estate	33.7	20.1	37.0	26.1
Services	50.6	58.6	69.7	50.9
Unclassified	-76.3	-47.5	-61.1	-77.8
TOTAL PAYROLL	35.2	36.6	31.4	30.5

Note: Employment based on individual's place of work.
A = Reflects suppressed data.

Source: Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA25.
Calculations, IPPBR/KCCED.

**TABLE 11B. TOTAL ANNUAL PAYROLL BY INDUSTRY
ATCHISON COUNTY
1985-1995**

INDUSTRY	PAYROLL (THOUSAND \$)			GROWTH RATE (%)	
	1985	1990	1995	1985-90	1990-95
Agricultural Services	A	A	\$285	NA	NA
Mining	A	\$514	458	NA	-10.9%
Construction	\$2,576	2,153	3,193	-16.4%	48.3
Manufacturing	33,206	43,781	54,354	31.8	24.1
Transportation	513	1,329	4,093	159.1	208.0
Wholesale	7,987	8,414	10,225	5.3	21.5
Retail	6,185	7,479	9,424	20.9	26.0
F.I.R.E.	2,626	2,729	3,505	3.9	28.4
Services	13,376	18,623	28,450	39.2	52.8
Unclassified	203	A	88		NA
Total Payroll	67,163	85,376	114,075	27.1	33.6

A – Suppressed data or value not calculated.

Source: Kansas County Business Patterns. Calculations, KCCED/IPPBR.

**TABLE 11C. TOTAL ANNUAL PAYROLL BY INDUSTRY
BROWN COUNTY
1985-1995**

INDUSTRY	PAYROLL (THOUSAND \$)			GROWTH RATE (%)	
	1985	1990	1995	1985-90	1990-95
Agricultural Services	A	\$292	\$235	NA	-19.5%
Mining	A	A	A	NA	NA
Construction	\$320	714	634	123.1%	-11.2
Manufacturing	9,061	15,252	14,329	68.3	-6.1
Transportation	2,291	2,575	3,537	12.4	37.4
Wholesale	2,386	3,610	6,128	51.3	69.8
Retail	3,114	3,948	4,724	26.8	19.7
F.I.R.E.	2,276	4,080	2,617	79.3	-35.9
Services	7,711	11,023	17,605	43.0	59.7
Unclassified	A	92	25	NA	-72.8
Total Payroll	27,664	41,586	48,091	50.3	15.6

A – Suppressed data or value not calculated.

Source: Kansas County Business Patterns. Calculations, KCCED/IPPBR.

**TABLE 11D. TOTAL ANNUAL PAYROLL BY INDUSTRY
DONIPHAN COUNTY
1985-1995**

INDUSTRY	PAYROLL (THOUSAND \$)			GROWTH RATE (%)	
	1985	1990	1995	1985-90	1990-95
Agricultural Services	A	A	\$45	NA	NA
Mining	A	A	A	NA	NA
Construction	\$1,419	A	2,230	NA	NA
Manufacturing	8,505	A	18,623	NA	NA
Transportation	413	\$1,024	1,497	147.9%	46.2%
Wholesale	9,440	8,453	9,605	-10.5	13.6
Retail	2,476	2,631	4,288	6.3	63.0
F.I.R.E.	1,310	1,483	1,856	13.2	25.2
Services	825	2,425	2,973	193.9	22.6
Unclassified	A	18	22	NA	22.2
Total Payroll	24,769	29,714	41,139	20.0	38.4

A – Suppressed data or value not calculated.

Source: Kansas County Business Patterns. Calculations, KCCED/IPPBR.

**TABLE 11E. TOTAL ANNUAL PAYROLL BY INDUSTRY
JACKSON COUNTY
1985-1995**

INDUSTRY	PAYROLL (THOUSAND \$)			GROWTH RATE (%)	
	1985	1990	1995	1985-90	1990-95
Agricultural Services	A	A	A	NA	NA
Mining	A	A	A	NA	NA
Construction	\$2,155	\$3,021	\$3,967	40.2%	31.3%
Manufacturing	1,426	1,860	3,527	30.4	89.6
Transportation	1,188	1,329	906	11.9	-31.8
Wholesale	1,112	1,505	1,611	35.3	7.0
Retail	3,258	4,010	5,690	23.1	41.9
F.I.R.E.	1,119	2,012	2,784	79.8	38.4
Services	1,528	2,337	6,324	52.9	170.6
Unclassified	216	A	A	NA	NA
Total Payroll	13,262	16,463	24,930	24.1	51.4

A – Suppressed data or value not calculated.

Source: Kansas County Business Patterns. Calculations, KCCED/IPPBR.

**TABLE 11F. TOTAL ANNUAL PAYROLL BY INDUSTRY
JEFFERSON COUNTY
1985-1995**

INDUSTRY	PAYROLL (THOUSAND \$)			GROWTH RATE (%)	
	1985	1990	1995	1985-90	1990-95
Agricultural Services	A	A	A	NA	NA
Mining	A	A	A	NA	NA
Construction	\$3,499	\$3,658	\$6,541	4.5%	78.8%
Manufacturing	632	1,387	2,068	119.5	49.1
Transportation	1,253	1,593	2,005	27.1	25.9
Wholesale	1,224	1,017	1,092	-16.9	7.4
Retail	1,631	2,667	3,845	63.5	44.2
F.I.R.E.	1,413	1,648	2,500	16.6	51.7
Services	3,694	5,426	7,182	46.9	32.4
Unclassified	341	58	A	NA	NA
Total Payroll	16,126	20,169	29,464	25.1	46.1

A – Suppressed data or value not calculated.

Source: Kansas County Business Patterns. Calculations, KCCED/IPPBR.

**TABLE 11G. TOTAL ANNUAL PAYROLL BY INDUSTRY
NEMAHA COUNTY
1985-1995**

INDUSTRY	PAYROLL (THOUSAND \$)			GROWTH RATE (%)	
	1985	1990	1995	1985-90	1990-95
Agricultural Services	\$161	A	\$495	NA	NA
Mining	0	A	A	NA	NA
Construction	611	\$1,301	2,455	112.9%	88.7%
Manufacturing	8,005	15,538	25,410	94.1	63.5
Transportation	6,065	10,110	12,363	66.7	22.3
Wholesale	2,836	4,163	5,334	46.8	28.1
Retail	4,024	4,894	6,714	21.6	37.2
F.I.R.E.	1,770	2,106	3,626	19.0	72.2
Services	4,521	7,832	13,070	73.2	66.9
Unclassified	323	89	A	NA	NA
Total Payroll	28,315	46,381	69,637	63.8	50.1

A – Suppressed data or value not calculated.

Source: Kansas County Business Patterns. Calculations, KCCED/IPPBR.

APPENDIX G
NUMBER OF FIRMS BY INDUSTRY

ATCHISON COUNTY
BROWN COUNTY
DONIPHAN COUNTY
JACKSON COUNTY
JEFFERSON COUNTY
NEMAHA COUNTY

TABLE 12A. NUMBER OF FIRMS BY INDUSTRY GROWTH RATES (PERCENT)
NEKCRED AND KANSAS
1985-1995

INDUSTRY	NEKCRED		KANSAS	
	85-90	90-95	85-90	90-95
Agricultural Services	28.6%	25.9%	26.3%	24.9%
Mining	-10.0	11.1	-21.3	-7.6
Construction	1.9	26.6	5.9	20.0
Manufacturing	4.8	10.3	4.3	6.3
Transportation	23.9	5.5	-10.7	12.5
Wholesale	-6.7	-8.6	1.5	5.2
Retail	-3.2	-4.0	1.5	0.0
Finance, Insurance, Real Estate	9.8	29.3	4.8	20.3
Services	16.9	15.9	14.6	16.1
Unclassified	-53.9	-49.3	-54.1	-69.2
TOTAL FIRMS	0.3	6.2	0.5	7.6

Note: Employment based on individual's place of work.

A = Reflects suppressed data.

Source: Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA25. Calculations, IPPBR/KCCED.

**TABLE 12B. NUMBER OF FIRMS BY INDUSTRY
ATCHISON COUNTY
1980-1995**

INDUSTRY	1980	1985	1990	1995
Agricultural Services	3	3	3	7
Mining	1	2	3	3
Construction	35	35	32	46
Manufacturing	22	23	21	23
Transportation	7	8	13	15
Wholesale	31	26	28	25
Retail	103	107	95	99
Finance, Insurance, Real Estate	35	30	32	39
Services	95	109	114	135
Unclassified	14	22	20	7
 Total Firms	 346	 365	 361	 399

Source:— University of Kansas, KCCED/IPPBR, Kansas County Business Patterns.

**TABLE 12C. NUMBER OF FIRMS BY INDUSTRY
BROWN COUNTY
1980-1995**

INDUSTRY	1980	1985	1990	1995
Agricultural Services	4	6	5	v
Mining	0	1	0	0
Construction	29	22	23	20
Manufacturing	16	15	11	18
Transportation	18	18	16	22
Wholesale	32	31	28	31
Retail	75	74	73	58
Finance, Insurance, Real Estate	23	22	24	29
Services	70	76	89	99
Unclassified	15	27	9	4
 Total Firms	 292	 292	 278	 285

Source: University of Kansas, KCCED/IPPBR, Kansas County Business Patterns.

**TABLE 12D. NUMBER OF FIRMS BY INDUSTRY
DONIPHAN COUNTY
1980-1995**

INDUSTRY	1980	1985	1990	1995
Agricultural Services	1	1	2	3
Mining	1	1	0	0
Construction	16	15	13	11
Manufacturing	8	9	10	12
Transportation	13	8	13	15
Wholesale	19	22	14	16
Retail	47	45	37	35
Finance, Insurance, Real Estate	16	17	13	16
Services	36	32	36	43
Unclassified	7	16	5	4
 Total Firms	 164	 166	 143	 155

Source: --University of Kansas, KCCED/IPPBR, Kansas County Business Patterns.

**TABLE 12E. NUMBER OF FIRMS BY INDUSTRY
JACKSON COUNTY
1980-1995**

INDUSTRY	1980	1985	1990	1995
Agricultural Services	2	2	3	2
Mining	1	1	0	1
Construction	27	31	31	46
Manufacturing	10	7	9	9
Transportation	11	11	12	11
Wholesale	21	19	23	17
Retail	62	70	67	56
Finance, Insurance, Real Estate	13	14	20	23
Services	33	48	62	78
Unclassified	17	23	7	2
 Total Firms	 197	 226	 234	 245

Source: University of Kansas, KCCED/IPPBR, Kansas County Business Patterns.

**TABLE 12F. NUMBER OF FIRMS BY INDUSTRY
JEFFERSON COUNTY
1980-1995**

INDUSTRY	1980	1985	1990	1995
Agricultural Services	3	4	4	6
Mining	3	5	4	4
Construction	34	33	34	49
Manufacturing	8	8	13	14
Transportation	15	13	19	17
Wholesale	12	17	13	11
Retail	67	67	81	81
Finance, Insurance, Real Estate	15	12	13	21
Services	49	70	87	92
Unclassified	9	38	15	2
 Total Firms	 215	 267	 283	 297

Source: University of Kansas, KCCED/IPPBR, Kansas County Business Patterns.

**TABLE 12G. NUMBER OF FIRMS BY INDUSTRY
NEMAHA COUNTY
1980-1995**

INDUSTRY	1980	1985	1990	1995
Agricultural Services	8	5	10	12
Mining	0	0	2	2
Construction	22	19	25	28
Manufacturing	15	21	23	20
Transportation	33	30	36	35
Wholesale	38	35	34	28
Retail	103	102	97	103
Finance, Insurance, Real Estate	15	17	21	31
Services	72	74	90	107
Unclassified	17	28	15	17
Total Firms	323	331	353	373

Source: University of Kansas, KCCED/IPPBR, Kansas County Business Patterns.

**APPENDIX H
PER CAPITA PERSONAL INCOME**

**ATCHISON COUNTY
BROWN COUNTY
DONIPHAN COUNTY
JACKSON COUNTY
JEFFERSON COUNTY
NEMAHA COUNTY**

**TABLE 16A. PER CAPITA PERSONAL INCOME
ATCHISON COUNTY
1985-1995**

YEAR	INCOME		GROWTH RATE (%)		INCOME RATIO
	ATCHISON	KANSAS	ATCHISON	KANSAS	ATCHISON TO KANSAS
1985	\$11,509	\$14,143			81.4
1986	11,423	14,752	-0.7	4.3	77.4
1987	12,109	15,358	6.0	4.1	78.8
1988	12,689	16,044	4.8	4.5	79.1
1989	13,314	16,804	4.9	4.7	79.2
1990	14,253	17,985	7.1	7.0	79.2
1991	14,487	18,558	1.6	3.2	78.1
1992	16,296	19,574	12.5	5.5	83.3
1993	16,167	20,233	-0.8	3.4	79.9
1994	17,226	20,834	6.6	3.0	82.7
1995	17,715	21,781	2.8	4.5	81.3

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA1-3; Calculations, KCCED/IPPBR.

**TABLE 16B. PER CAPITA PERSONAL INCOME
BROWN COUNTY
1985-1995**

YEAR	INCOME		GROWTH RATE (%)		INCOME RATIO
	BROWN	KANSAS	BROWN	KANSAS	BROWN TO KANSAS
1985	\$13,176	\$14,143			93.2
1986	12,551	14,752	-4.7	4.3	85.1
1987	13,295	15,358	5.9	4.1	86.6
1988	12,832	16,044	-3.5	4.5	80.0
1989	13,549	16,804	5.6	4.7	80.6
1990	15,028	17,985	10.9	7.0	83.6
1991	15,107	18,558	0.5	3.2	81.4
1992	16,696	19,574	10.5	5.5	85.3
1993	16,577	20,233	-0.7	3.4	81.9
1994	18,002	20,834	8.6	3.0	86.4
1995	17,983	21,781	-0.1	4.5	82.6

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA1-3; Calculations, KCCED/IPPBR.

**TABLE 16C. PER CAPITA PERSONAL INCOME
DONIPHAN COUNTY
1985-1995**

YEAR	INCOME		GROWTH RATE (%)		INCOME RATIO
	DONIPHAN	KANSAS	DONIPHAN	KANSAS	DONIPHAN TO KANSAS
1985	\$13,083	\$14,143			92.5
1986	12,745	14,752	-2.6	4.3	86.4
1987	12,666	15,358	-0.6	4.1	82.5
1988	12,764	16,044	0.8	4.5	79.6
1989	13,050	16,804	2.2	4.7	77.7
1990	14,262	17,985	9.3	7.0	79.3
1991	14,902	18,558	4.5	3.2	80.3
1992	16,142	19,574	8.3	5.5	82.5
1993	15,659	20,233	-3.0	3.4	77.4
1994	16,997	20,834	8.5	3.0	81.6
1995	16,824	21,781	-1.0	4.5	77.2

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA1-3; Calculations, KCCED/IPPBR.

**TABLE 16D. PER CAPITA PERSONAL INCOME
JACKSON COUNTY
1985-1995**

YEAR	INCOME		GROWTH RATE (%)		INCOME RATIO
	JACKSON	KANSAS	JACKSON	KANSAS	JACKSON TO KANSAS
1985	\$12,782	\$14,143			90.4
1986	12,841	14,752	0.5	4.3	87.0
1987	13,068	15,358	1.8	4.1	85.1
1988	13,725	16,044	5.0	4.5	85.5
1989	14,411	16,804	5.0	4.7	85.8
1990	15,591	17,985	8.2	7.0	86.7
1991	15,656	18,558	0.4	3.2	84.4
1992	17,156	19,574	9.6	5.5	87.6
1993	17,379	20,233	1.3	3.4	85.9
1994	18,563	20,834	6.8	3.0	89.1
1995	19,596	21,781	5.6	4.5	90.0

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA1-3; Calculations, KCCED/IPPBR.

**TABLE 16E. PER CAPITA PERSONAL INCOME
JEFFERSON COUNTY
1985-1995**

YEAR	INCOME		GROWTH RATE (%)		INCOME RATIO
	JEFFERSON	KANSAS	JEFFERSON	KANSAS	JEFFERSON TO KANSAS
1985	\$13,358	\$14,143			94.4
1986	13,520	14,752	1.2	4.3	91.6
1987	13,701	15,358	1.3	4.1	89.2
1988	13,660	16,044	-0.3	4.5	85.1
1989	14,630	16,804	7.1	4.7	87.1
1990	15,902	17,985	8.7	7.0	88.4
1991	16,020	18,558	0.7	3.2	86.3
1992	16,994	19,574	6.1	5.5	86.8
1993	17,005	20,233	0.1	3.4	84.0
1994	17,974	20,834	5.7	3.0	86.3
1995	18,452	21,781	2.7	4.5	84.7

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA1-3; Calculations, KCCED/IPPBR.

**TABLE 16F. PER CAPITA PERSONAL INCOME
NEMAHA COUNTY
1985-1995**

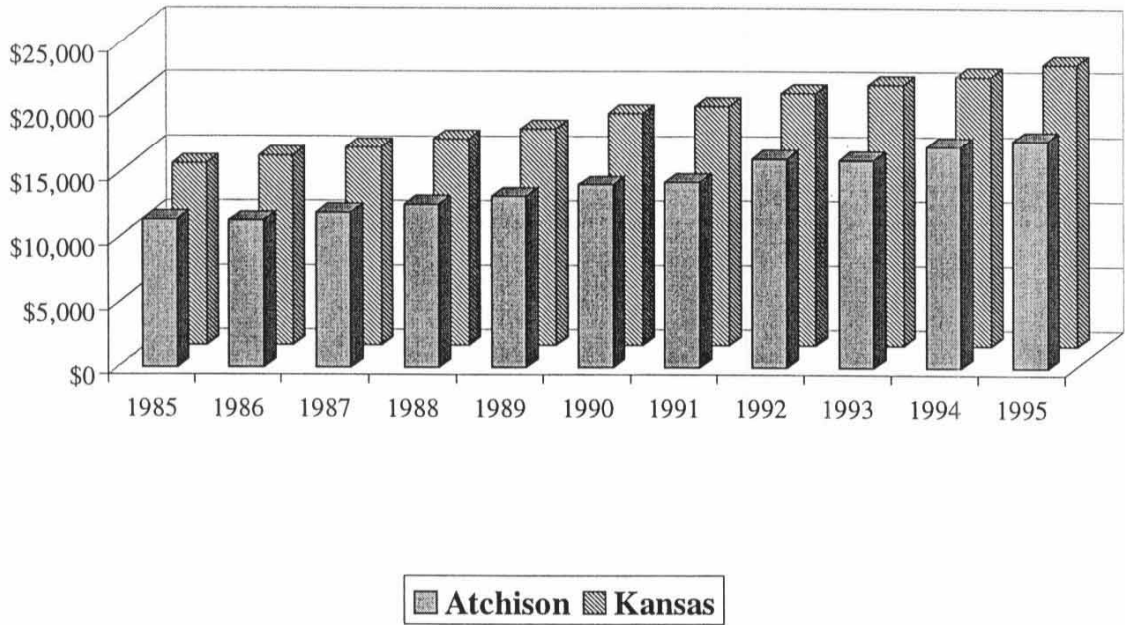
YEAR	INCOME		GROWTH RATE (%)		INCOME RATIO
	NEMAHA	KANSAS	NEMAHA	KANSAS	NEMAHA TO KANSAS
1985	\$12,948	\$14,143			91.6%
1986	13,930	14,752	7.6	4.3	94.4
1987	14,963	15,358	7.4	4.1	97.4
1988	15,274	16,044	2.1	4.5	95.2
1989	14,773	16,804	-3.3	4.7	87.9
1990	17,100	17,985	15.8	7.0	95.1
1991	17,348	18,558	1.5	3.2	93.5
1992	18,076	19,574	4.2	5.5	92.3
1993	17,397	20,233	-3.8	3.4	86.0
1994	19,280	20,834	10.8	3.0	92.5
1995	19,685	21,781	2.1	4.5	90.4

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA1-3; Calculations, KCCED/IPPBR.

APPENDIX I
PER CAPITA PERSONAL INCOME - GRAPHS

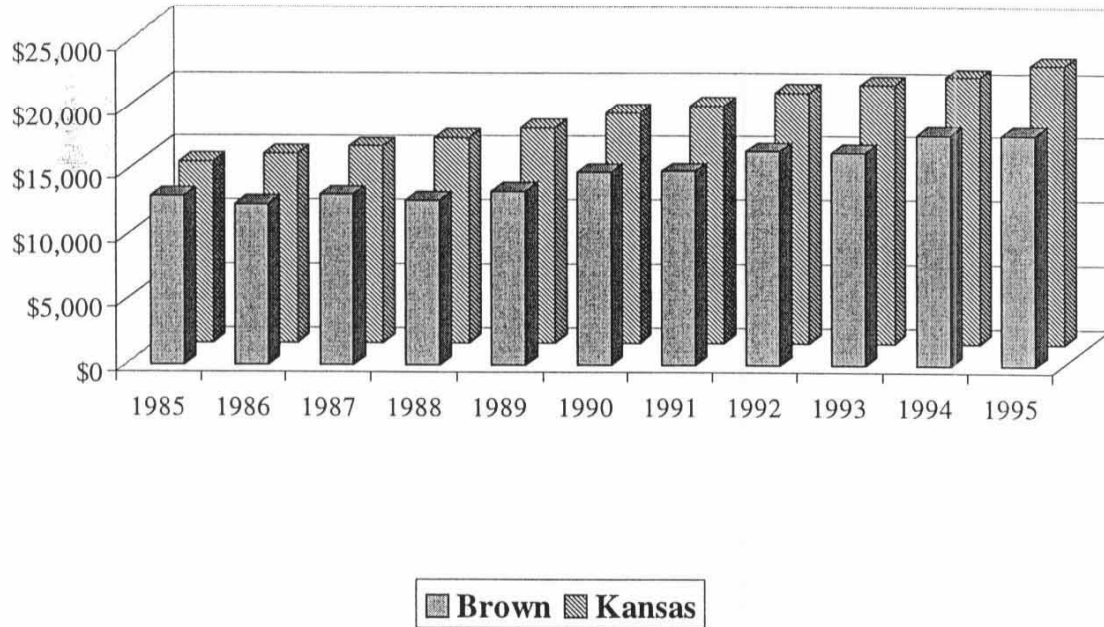
ATCHISON COUNTY
BROWN COUNTY
DONIPHAN COUNTY
JACKSON COUNTY
JEFFERSON COUNTY
NEMAHA COUNTY

**FIGURE 4A. PER CAPITA PERSONAL INCOME
ATCHISON COUNTY
1985-1995**



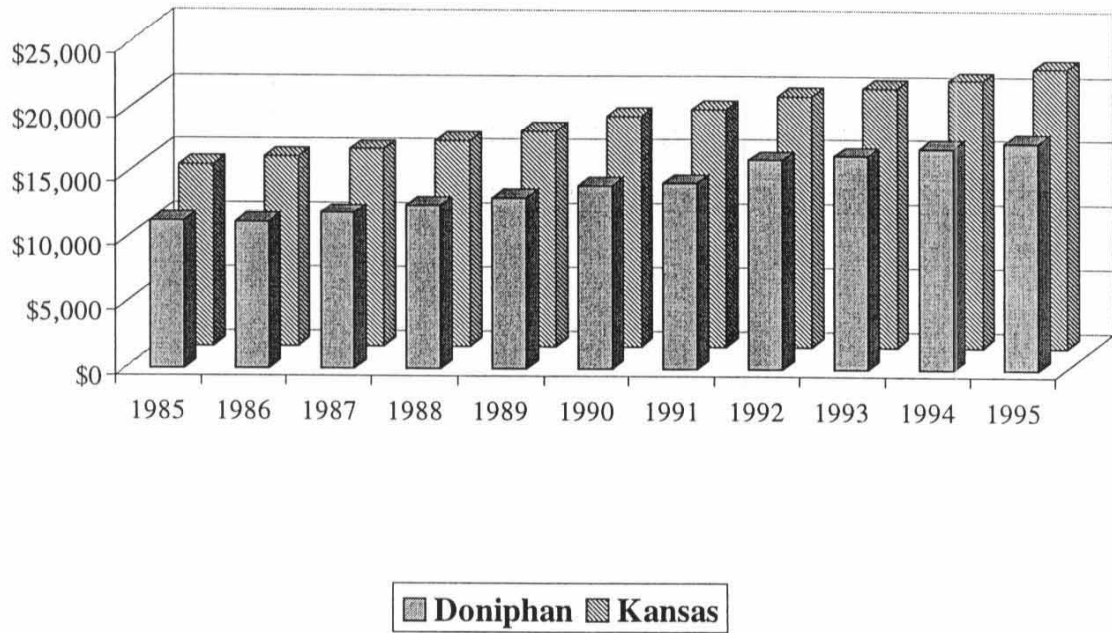
Source: University of Kansas, KCCED/IPPBR, Kansas County Profile Report, 1997"; U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System, Table CA1-3.

**FIGURE 4B. PER CAPITA PERSONAL INCOME
BROWN COUNTY
1985-1995**



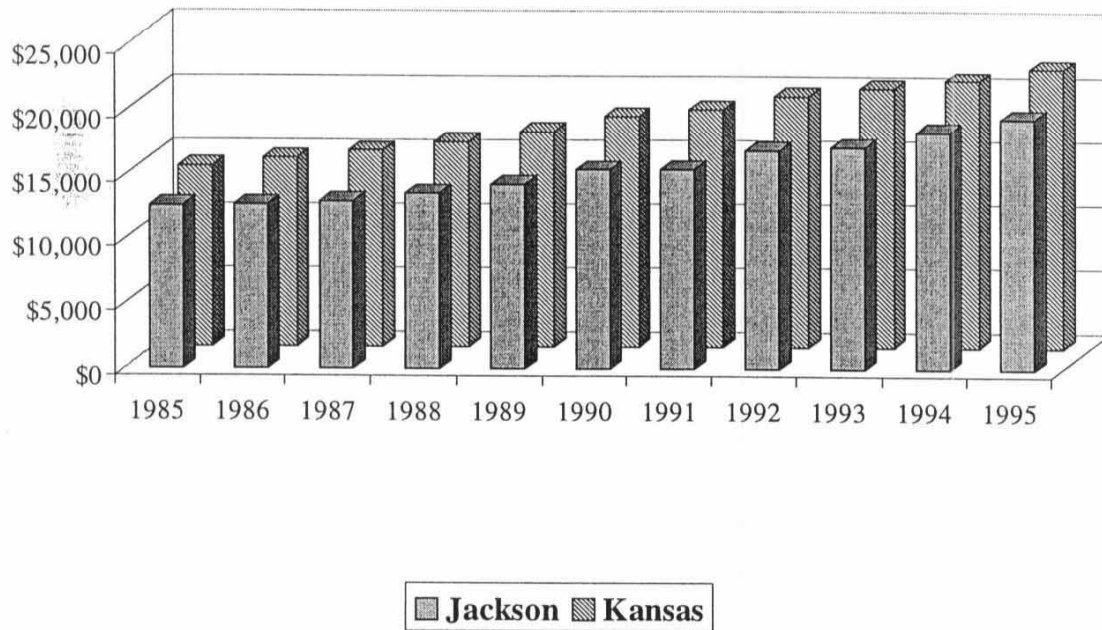
Source: University of Kansas, KCCED/IPPBR, Kansas County Profile Report, 1997"; U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System, Table CA1-3.

**FIGURE 4C. PER CAPITA PERSONAL INCOME
DONIPHAN COUNTY
1985-1995**



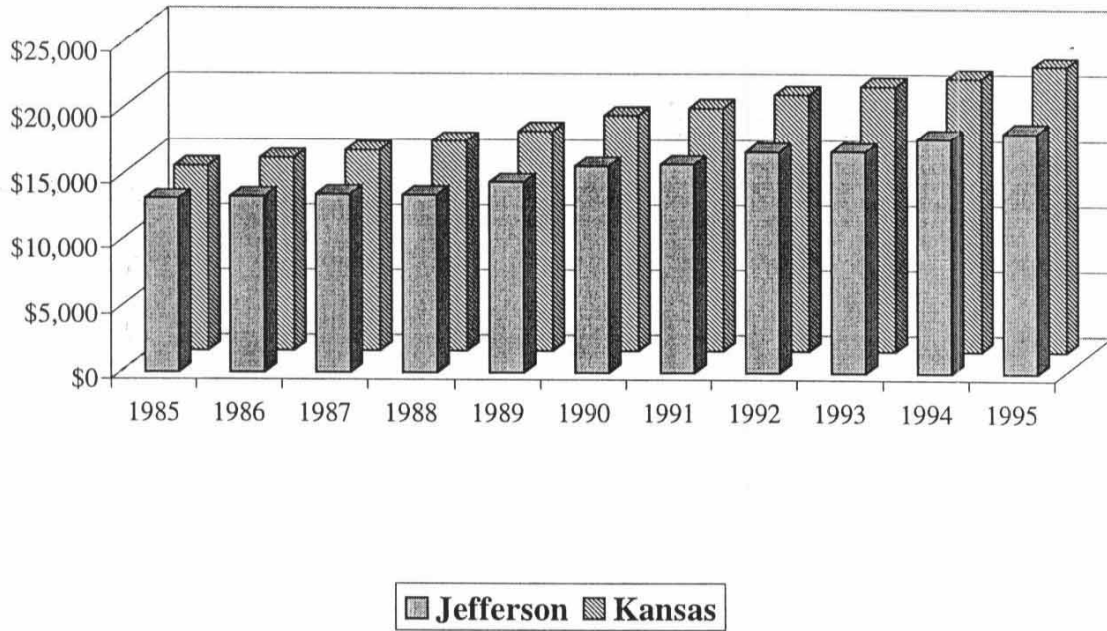
Source: University of Kansas, KCCED/IPPBR, Kansas County Profile Report, 1997"; U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System, Table CA1-3.

**FIGURE 4D. PER CAPITA PERSONAL INCOME
JACKSON COUNTY
1985-1995**



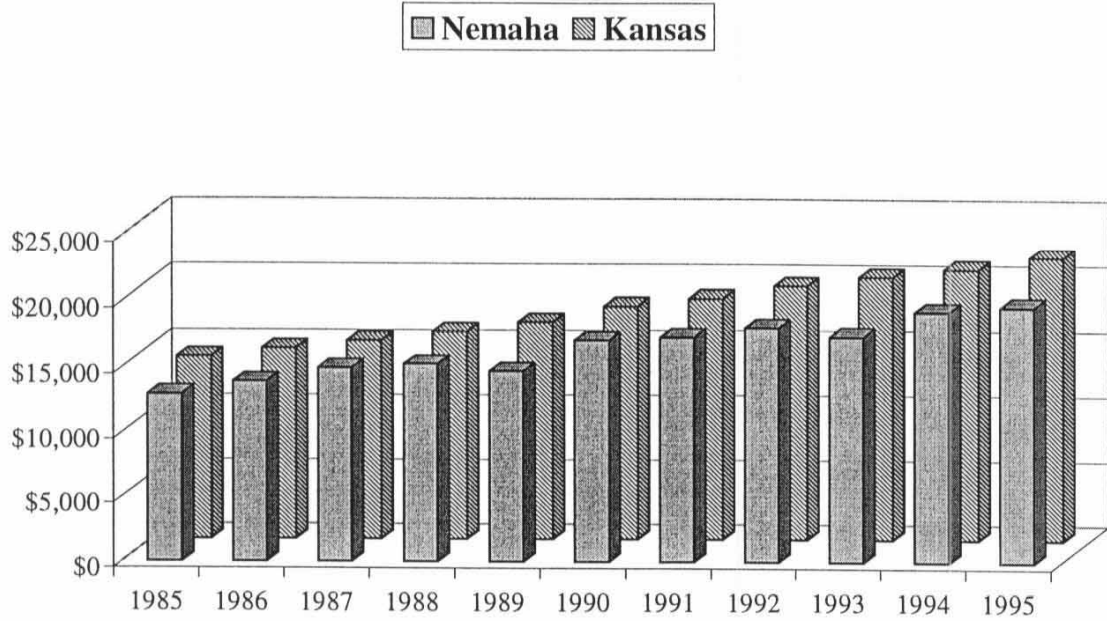
Source: University of Kansas, KCCED/IPPBR, Kansas County Profile Report, 1997"; U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System, Table CA1-3.

**FIGURE 4E. PER CAPITA PERSONAL INCOME
JEFFERSON COUNTY
1985-1995**



Source: University of Kansas, KCCED/IPPBR, Kansas County Profile Report, 1997"; U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System, Table CA1-3.

FIGURE 4F. PER CAPITA PERSONAL INCOME
NEMAHA COUNTY
1985-1995



Source: University of Kansas, KCCED/IPPBR, Kansas County Profile Report, 1997"; U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System, Table CA1-3.

APPENDIX J
TRANSFER PAYMENTS

ATCHISON COUNTY
BROWN COUNTY
DONIPHAN COUNTY
JACKSON COUNTY
JEFFERSON COUNTY
NEMAHA COUNTY

**TABLE 18A. BREAKOUT OF TRANSFER PAYMENTS (THOUSAND \$)
NEKCRED COUNTIES
1990-1995**

TRANSFER PAYMENT ITEM	1990	1991	1992	1993	1994	1995
Retirement and disability insurance benefit payments	115,480	123,744	128,259	131,819	140,437	147,177
Medical payments	53,447	61,233	71,821	81,253	78,821	82,202
Income maintenance benefit payments	10,702	11,784	14,066	14,793	15,756	16,877
Unemployment benefit payments	4,886	6,521	8,729	8,685	6,276	5,197
Veterans benefits payments	5,581	5,823	6,178	6,289	5,971	6,079
Federal education and training assistance payments (excluding payments to veterans)	1,726	1,525	1,640	1,446	1,493	1,728
Other payments to individuals	289	208	165	193	72	133
Gov't Payments to Individuals	192,163	210,912	230,980	244,646	248,949	259,499
Payments to non-profit institutions	4,379	4,807	5,582	6,114	6,079	6,386
Business payments to individuals	4,194	4,069	4,272	3,946	4,022	4,014
Total Transfer Payments	200,736	219,788	240,834	254,706	259,050	269,899

L – Less than \$50,000. Estimates included in totals.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA5 and Table CA35.

**TABLE 18B. BREAKOUT OF TRANSFER PAYMENTS (THOUSAND \$)
KANSAS
1990-1995**

TRANSFER PAYMENT ITEM	1990	1991	1992	1993	1994	1995
Retirement and disability insurance benefit payments	\$3,581,204	3,852,453	4,011,908	4,191,985	4,508,932	4,738,575
Medical payments	1,652,198	1,900,100	2,169,192	2,543,039	2,514,135	2,622,208
Income maintenance benefit payments	346,989	384,970	466,592	500,710	528,531	560,677
Unemployment benefit payments	152,234	195,463	274,092	266,339	196,622	161,000
Veterans benefits payments	168,484	177,256	189,993	194,323	192,492	208,850
Federal education and training assistance payments (excluding pymts to veterans)	96,254	89,807	98,763	92,811	94,714	100,702
Other payments to individuals	5,129	6,543	6,645	5,801	4,242	6,209
Gov't Pymts to Individuals	6,002,492	6,606,592	7,217,185	7,795,008	8,039,668	8,398,221
Payments to non-profit institutions	145672	160599	188361	207171	207486	218992
Business payments to individuals	139479	135961	144141	133692	137208	137614
Total Transfer Payments	6,287,643	6,903,152	7,549,687	8,135,871	8,384,362	8,754,827

L - Less than \$50,000. Estimates included in totals.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA5 and Table CA35.

TABLE 18C. BREAKOUT OF TRANSFER PAYMENTS (THOUSAND \$)
ATCHISON COUNTY
1990-1995

TRANSFER PAYMENT ITEM	1990	1991	1992	1993	1994	1995
Retirement and disability insurance benefit payments	\$25,242	\$26,699	\$28,162	\$28,517	\$30,293	\$31,698
Medical payments	12,693	13,147	17,352	18,932	18,789	19,590
Income maintenance benefit payments	3,023	3,219	3,758	3,996	4,312	4,550
Unemployment benefit payments	1,033	1,296	1,924	1,854	1,413	1,099
Veterans benefits payments	1,022	1,088	1,169	1,193	1,116	1,213
Federal education and training assistance payments (excluding payments to veterans)	554	506	555	513	522	561
Other payments to individuals	L	L	L	L	L	L
Gov't Payments to Individuals	43,596	45,992	52,958	55,041	56,469	58,738
Payments to non-profit institutions	1000	1093	1266	1390	1371	1397
Business payments to individuals	957	924	969	897	907	878
Total Transfer Payments	45,553	48,009	55,193	57,328	58,747	61,013

L – Less than \$50,000. Estimates included in totals.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA5 and Table CA35.

**TABLE 18D. BREAKOUT OF TRANSFER PAYMENTS (THOUSAND \$)
BROWN COUNTY
1990-1995**

TRANSFER PAYMENT ITEM	1990	1991	1992	1993	1994	1995
Retirement and disability insurance benefit payments	\$18,975	\$20,118	\$20,508	\$21,208	\$22,751	\$23,755
Medical payments	10,399	12,901	14,204	15,947	15,591	16,268
Income maintenance benefit payments	2,262	2,439	2,920	3,005	3,103	3,334
Unemployment benefit payments	686	1,048	1,438	1,339	1,032	884
Veterans benefits payments	838	886	907	1,000	908	921
Federal education and training assistance payments (excluding payments to veterans)	138	108	109	78	85	127
Other payments to individuals	100	136	106	79	72	82
Gov't Payments to Individuals	33,398	37,636	40,192	42,656	43,542	45,371
Payments to non-profit institutions	658	723	834	904	903	951
Business payments to individuals	631	612	639	583	597	598
Total Transfer Payments	34,687	38,971	41,665	44,143	45,042	46,920

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA5 and Table CA35.

**TABLE 18E. BREAKOUT OF TRANSFER PAYMENTS (THOUSAND \$)
DONIPHAN COUNTY
1990-1995**

TRANSFER PAYMENT ITEM	1990	1991	1992	1993	1994	1995
Retirement and disability insurance benefit payments	\$12,232	\$12,870	\$12,837	\$12,646	\$13,535	\$14,206
Medical payments	6,139	7,540	9,039	10,041	9,169	9,562
Income maintenance benefit payments	1,578	1,830	2,154	2,301	2,371	2,527
Unemployment benefit payments	662	970	1,133	1,231	901	728
Veterans benefits payments	490	502	539	535	467	471
Federal education and training assistance payments (excluding payments to veterans)	563	543	601	584	588	590
Other payments to individuals	L	L	L	114	L	L
Gov't Payments to Individuals	21,686	24,285	26,330	27,452	27,050	28,105
Payments to non-profit institutions	480	527	608	655	623	654
Business payments to individuals	460	447	465	423	413	411
Total Transfer Payments	22,626	25,259	27,403	28,530	28,086	29,170

L – Less than \$50,000. Estimates included in totals.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA5 and Table CA35.

**TABLE 18F. BREAKOUT OF TRANSFER PAYMENTS (THOUSAND \$)
JACKSON COUNTY
1990-1995**

TRANSFER PAYMENT ITEM	1990	1991	1992	1993	1994	1995
Retirement and disability insurance benefit payments	\$17,953	\$19,565	\$20,753	\$21,810	\$23,256	\$24,562
Medical payments	6,639	7,584	9,088	10,308	10,258	10,699
Income maintenance benefit payments	1,435	1,603	1,836	1,982	2,047	2,128
Unemployment benefit payments	913	1,137	1,473	1,540	1,035	899
Veterans benefits payments	924	937	1,013	1,127	1,059	1,167
Federal education and training assistance payments (excluding payments to veterans)	143	112	113	82	89	135
Other payments to individuals	189	72	59	L	L	51
Gov't Payments to Individuals	28,196	31,010	34,335	36,895	37,785	39,641
Payments to non-profit institutions	681	747	865	952	951	1014
Business payments to individuals	652	633	661	614	630	638
Total Transfer Payments	29,529	32,390	35,861	38,461	39,366	41,293

L – Less than \$50,000. Estimates included in totals.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA5 and Table CA35.

TABLE 18G. BREAKOUT OF TRANSFER PAYMENTS (THOUSAND \$)
JEFFERSON COUNTY
1990-1995

TRANSFER PAYMENT ITEM	1990	1991	1992	1993	1994	1995
Retirement and disability insurance benefit payments	\$22,995	\$24,878	\$25,163	\$26,318	\$28,289	\$29,621
Medical payments	9,446	10,493	11,498	13,919	13,181	13,749
Income maintenance benefit payments	1,499	1,597	2,087	2,161	2,396	2,502
Unemployment benefit payments	1,246	1,583	1,999	1,932	1,302	1,139
Veterans benefits payments	1,542	1,574	1,679	1,639	1,608	1,584
Federal education and training assistance payments (excluding payments to veterans)	198	155	160	116	129	196
Other payments to individuals	L	L	L	L	L	L
Gov't Payments to Individuals	36,917	40,275	42,627	46,123	46,932	48,836
Payments to non-profit institutions	942	1039	1224	1357	1376	1473
Business payments to individuals	903	879	937	876	910	925
Total Transfer Payments	38,762	42,193	44,788	48,356	49,218	51,234

L – Less than \$50,000. Estimates included in totals.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System (1969-1995), Table CA5 and Table CA35.

**TABLE 18H. BREAKOUT OF TRANSFER PAYMENTS (THOUSAND \$)
NEMAHA COUNTY
1990-1995**

TRANSFER PAYMENT ITEM	1990	1991	1992	1993	1994	1995
Retirement and disability insurance benefit payments	\$18,083	\$19,614	\$20,836	\$21,320	\$22,313	\$23,335
Medical payments	8,131	9,568	10,640	12,106	11,833	12,334
Income maintenance benefit payments	905	1,096	1,311	1,348	1,527	1,836
Unemployment benefit payments	346	487	762	789	593	448
Veterans benefits payments	765	836	871	795	813	723
Federal education and training assistance payments (excluding payments to veterans)	130	101	102	73	80	119
Other payments to individuals	L	L	L	L	L	L
Gov't Payments to Individuals	28,370	31,714	34,538	36,479	37,171	38,808
Payments to non-profit institutions	618	678	785	856	855	897
Business payments to individuals	591	574	601	553	565	564
Total Transfer Payments	29,579	32,966	35,924	37,888	38,591	40,269

L – Less than \$50,000. Estimates included in totals.

Source: Bureau of Economic Analysis, Regional Economic Information System, Table CA5, Table CA35

APPENDIX K
TELEPHONE EXCHANGE SERVICE AREAS

ATCHISON COUNTY
BROWN COUNTY
DONIPHAN COUNTY
JACKSON COUNTY
JEFFERSON COUNTY
NEMAHA COUNTY

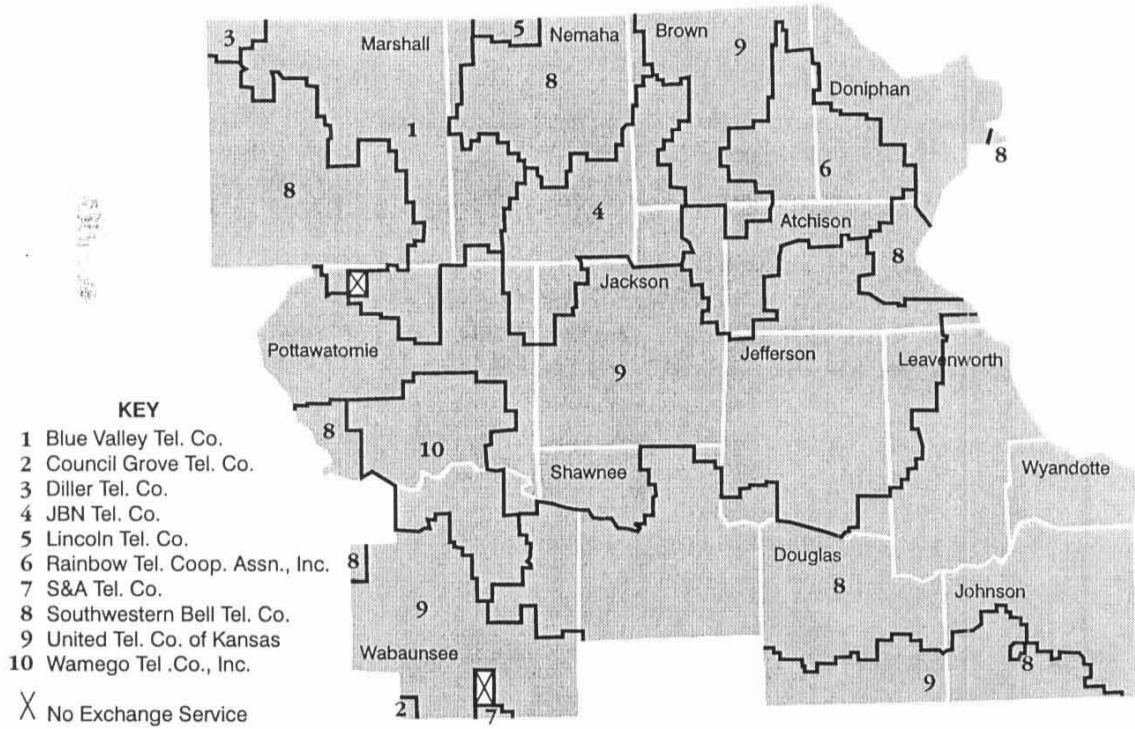
APPENDIX K
TELEPHONE EXCHANGE SERVICE AREAS

Any telecommunications plan that may be developed for the NEKCRED region will need to take into account the different telephone exchange service areas in the region. The following Appendix H contains maps for the NEKCRED region and for the six counties in the region. Some key findings by looking at the maps include:

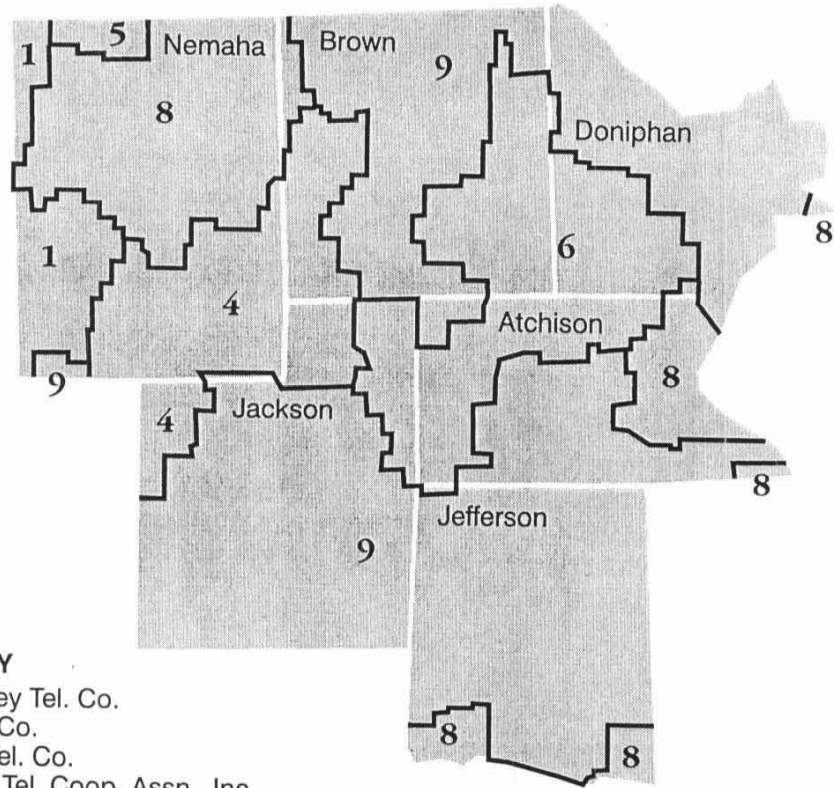
- Ten telephone companies provide service to northeast Kansas (Map 7). Six of those 10 companies provide service to the six NEKCRED counties of Atchison, Brown, Doniphan, Jackson, Jefferson, and Nemaha (Map 7a).
- Three telephone companies provide telephone service to Atchison County: Rainbow Cooperative, Southwestern Bell, and United (Map 7b)
- Brown County has four different telephone companies providing service: JNB, Rainbow Cooperative, Southwestern Bell, and United (Map 7c).
- Three telephone companies service Doniphan County: Rainbow Cooperative, Southwestern Bell, and United (Map 7d).
- Jackson County's telephone service is provided by three companies: JNB, Rainbow Cooperative, and United (Map 7e).
- Three telephone exchange areas can be found in Jefferson County: Rainbow Cooperative, Southwestern Bell, and United (Map 7f).
- Nemaha County receives telephone service from five companies: Blue Valley, JNB, Lincoln, Southwestern Bell, and United of Kansas (Map 7g).
- Atchison, Doniphan, Jackson, and Jefferson counties are all covered by the same three telephone companies: Rainbow Cooperative, Southwestern Bell and United.

MAP 7. TELEPHONE EXCHANGE SERVICE AREAS: NEKCRED COUNTIES AND NEIGHBORING COUNTIES

Telephone Exchange Service Areas



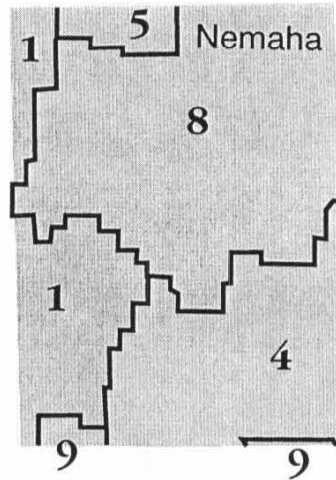
Map 7a. Telephone Exchange Service Areas: NEKCRED Counties



- KEY**
- 1 Blue Valley Tel. Co.
 - 4 JBN Tel. Co.
 - 5 Lincoln Tel. Co.
 - 6 Rainbow Tel. Coop. Assn., Inc.
 - 8 Southwestern Bell Tel. Co.
 - 9 United Tel. Co. of Kansas

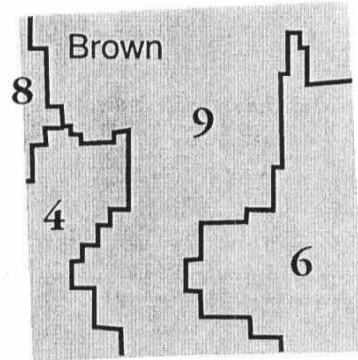
Map 7b. Telephone Exchange Service Areas: Brown County

- KEY**
- 1** Blue Valley Tel. Co.
 - 4** JBN Tel. Co.
 - 5** Lincoln Tel. Co.
 - 8** Southwestern Bell Tel. Co.
 - 9** United Tel. Co. of Kansas



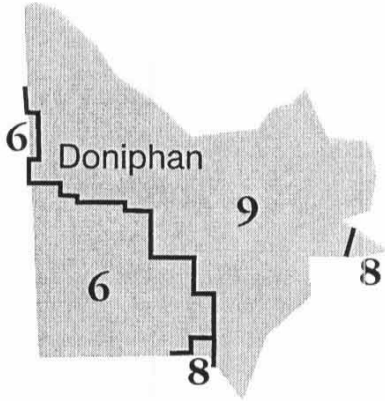
Map 7c. Telephone Exchange Service Areas: Nemaha County

- KEY**
- 4 JBN Tel. Co.
 - 6 Rainbow Tel. Coop. Assn., Inc.
 - 8 Southwestern Bell Tel. Co.
 - 9 United Tel. Co. of Kansas

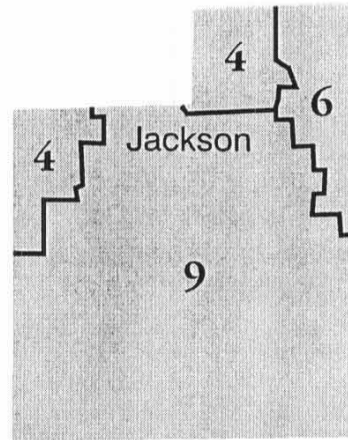


Map 7d. Telephone Exchange Service Areas: Doniphan County

- KEY**
- 6 Rainbow Tel. Coop. Assn., Inc.
 - 8 Southwestern Bell Tel. Co.
 - 9 United Tel. Co. of Kansas



Map 7e. Telephone Exchange Service Areas: Jackson County

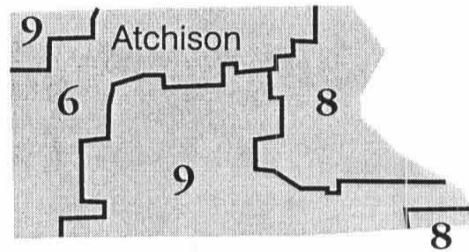


KEY

- 4 JBN Tel. Co.
- 6 Rainbow Tel. Coop. Assn., Inc.
- 9 United Tel. Co. of Kansas

Map 7f. Telephone Exchange Service Areas: Atchison County

- KEY**
- 6 Rainbow Tel. Coop. Assn., Inc.
 - 8 Southwestern Bell Tel. Co.
 - 9 United Tel. Co. of Kansas



Map 7g. Telephone Exchange Service Areas: Jefferson County

- KEY**
- 6 Rainbow Tel. Coop. Assn., Inc.
 - 8 Southwestern Bell Tel. Co.
 - 9 United Tel. Co. of Kansas

