# THE UNIVERSITY OF KANSAS Kansas Center for Community Economic Development Institute for Public Policy and Business Research TECHNICAL REPORT SERIES

## Economic Trends Update: Douglas County

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#### Foreword

The following report was prepared for a presentation by Dr. Charles Krider to the Lawrence Chamber of Commerce's 1997 Economic Outlook Luncheon. Dr. Krider is Director of the Institute for Public Policy and Business Research (IPPBR) and Co-Director of the Kansas Center for Community Economic Development (KCCED) at the University of Kansas.

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## Economic Trends Update: Douglas County

#### INTRODUCTION

The Lawrence-Douglas County area is a community with a growing population, high quality work force, and modern economic base, enhanced by the presence of a major regional university. Its development in recent years has been shaped by two significant forces. First, with three colleges, it is a major center for higher education. Much of its development has been influenced by its large student population. Second, Douglas County is located between two metropolitan areas, and has captured some of the spill over benefits from this location.

In 1992, the Institute for Public Policy and Business Research (IPPBR) at the University of Kansas conducted a review of economic and demographic trends for Douglas County and the City of Lawrence. This review was part of the strategic planning process for the county called Horizon 2020. The 181-page report contained data on: global, regional and national trends, population, housing, education, employment, earnings and income, geographic location and infrastructure, business environment, financial capital, innovation and technology, and quality of life.<sup>1</sup>

The following report includes an update of selected variables from the 1992 study as well as some additional variables. This report looks at variables categorized under the following areas:

- population,
- · employment,
- earnings and income,
- retail,
- · agriculture, and
- education.

Throughout the report, Douglas County's performance is compared with the performance of the State of Kansas, Comparative Counties<sup>2</sup> and Surrounding Counties<sup>3</sup>. It is by no means a comprehensive analysis of economic trends facing Douglas County but rather an overview of some key economic and demographic variables.

<sup>&</sup>lt;sup>1</sup> Horizon 2020 Data Analysis, Kansas Center for Community Economic Development, Institute for Public Policy and Business Research, the University of Kansas, Technical Report Number 12, August 1992.

<sup>&</sup>lt;sup>2</sup> "Comparative Counties" are Boone County, Missouri (University of Missouri, Columbia); Johnson County, Iowa (University of Iowa, Iowa City); Larimer County, Colorado (Colorado State University, Fort Collins); and Champaign County, Illinois (University of Illinois, Urbana-Champaign).

<sup>&</sup>lt;sup>3</sup> "Surrounding Counties" used for comparison in this report are Johnson, Shawnee, and Wyandotte counties. "Selected Counties" include both the Comparative and the Surrounding Counties.

#### **POPULATION**

Population size and economic activity are closely related. 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 regarded as being more 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. Generally, areas of population growth are also areas of economic growth, whereas areas of population loss suffered previous economic decline and restructuring.

Population characteristics are regarded as indicators of a region's economic conditions and economic potential. The level of Douglas County's population relative to the state's population reflects the county's overall level of competitiveness with respect to other regions within the state. A minimum population is necessary to sustain a basic level of public and private services and facilities. Past and projected population change is indicative of community economic trends and can be compared to other counties and the statewide and national averages.

Migration is linked to job opportunities and demand as well as wage differentials between regions. Counties with low rates of job creation and low wages 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 to 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.

The following section consists of the population tables, figures, and maps which together illustrate population totals, population growth rates, percent net migration, and population rankings.

## **Population: Key Findings**

- During the 1980's, Douglas County's population grew almost 21 percent, which was four times as fast as the growth rate of Kansas and twice the rate of the U.S. The county's population has grown every decade since 1890 and has grown by 10,000 or more per decade since 1940. Population has almost doubled between the end of the 1950's and the end of the 1980's (Table 1).
- The county's rates of growth for 1991 and 1992 were both greater than the state's rates for those years, and in 1993 the county's rate of growth was more than three times greater than

the state's rate. In 1995, however, the county's rate of growth is less than half that of the state (Table 1).

- From 1980 to 1990, all the "college town" counties except for Champaign, Illinois, grew faster than the national average of 9.7 percent. From 1990 to 1995, Douglas County had a growth rate of 7.8 percent. This growth rate, for the college towns, was surpassed only by Boone County, Missouri (10.1 percent), and Larimer County, Colorado (16.7 percent). Larimer County's rate was more than double the rate of Douglas County and more than three times the national average (Table 2).
- Johnson County, Kansas, had the highest growth rate for the neighboring metropolitan counties in Kansas with a 27.1 percent increase from 1980 to 1990 and a 13.0 percent increase from 1990 to 1995. These rates were higher than Douglas County's rates during the same time periods. Johnson County's rate for 1990 to 1995 was nearly double that of Douglas County's rate for 1990 to 1995 (Table 2).
- For the past four and one-half decades, Douglas County's population has grown at a faster rate than Kansas or the U.S. (Table 2 and Figure 1).
- Douglas County's percent population change from 1971 to 1980 (23.4 percent) was less than half of what it had been the previous decade, but it was about four times greater than the state's percent population change. For this same time period, the net migration for Douglas County had dropped by more than half to 15.4 percent, highlighting the fact that Douglas County's population increase for that time was due primarily to migration (Table 3).
- From 1991 through 1994, Douglas County's net migration was positive for each year, as was the state's from 1992 to 1995. Counter to the state trend in 1995, however, Douglas County's net migration was negative (-0.5 percent). Its population change was a positive 0.2 percent that year (Table 3).
- Douglas County had moved from being the sixteenth most populated county in Kansas in 1940 to being the fifth most populated county in 1990. Douglas County is projected to maintain through the year 2020 (Table 4).
- Douglas County was one of the fastest growing counties in Kansas from 1980 to 1990 (Map 1). The percent net migration from 1980 to 1990 for Douglas County was the third highest for Kansas (Map 2).

Table 1

Population Totals, Growth Rates, Rank & Share
Actual 1890 - 1990 and Estimates 1991 - 1995

	Douglas	County	Kar	isas		
	Population	Growth	Population	Growth		Share
<b>Year</b>	<b>Total</b>	Rate	<b>Total</b>	Rate	Rank	(%)
1890	23,961		1,427,096		15	1.7
1900	25,096	4.7 %	1,470,495	3.0 %	13	1.7
1910	24,724	-1.5	1,690,949	15.0	15	1.5
1920	23,998	-2.9	1,769,257	4.6	17	1.4
1930	25,143	4.8	1,880,999	6.3	17	1.3
1940	25,171	0.1	1,801,028	-4.3	16	1.4
1950	34,086	35.4	1,905,299	5.8	10	1.8
1960	43,720	28.3	2,178,611	14.3	9	2.0
1970	57,932	32.5	2,249,071	3.2	6	2.6
1980	67,640	16.8	2,364,236	5.1	5	2.9
1990	81,798	20.9	2,477,588	4.8	5	3.3
1991*	83,182	1.7	2,491,407	0.6	5	3.3
1992*	84,338	1.4	2,514,839	0.9	5	3.4
1993*	86,411	2.5	2,532,458	0.7	5	3.4
1994*	88,031	1.9	2,550,897	0.7	5	3.5
1995*	88,206	0.2	2,565,328	0.6	5	3.4

<sup>\*</sup> Estimation

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; Population Estimates, and Population Distribution Branches, U.S. Bureau of the Census; 1995 Population Estimates for Counties, Population Estimates Branch, U.S. Bureau of the Census 1996. Calculations: IPPBR.

Table 2

Population Growth Rates (percent): 1950 - 1995\*

Douglas County, Selected Counties, Kansas, and United States

	1950 - 60	1960 - 70	1970 - 80	1980 - 90	1990 - 95**
Douglas	28.3 %	32.5 %	16.8 %	20.9 %	7.8 %
Johnson	129.0	53.0	26.9	27.1	13.0
Shawnee	34.0	9.9	-0.3	3.9	2.5
Wyandotte	12.2	0.7	-7.8	-6.0	-5.1
Boone, MO	14.0	46.6	24.0	21.9	10.1
Johnson, IA	17.3	34.4	13.3	17.6	4.3
Larimer, CO	22.5	68.5	65.9	24.8	16.7
Champaign, IL	24.8	23.3	3.1	2.8	-2.3
Kansas	14.3	3.2	5.1	4.8	3.5
<b>United States</b>	18.5	13.4	11.5	9.7	5.6

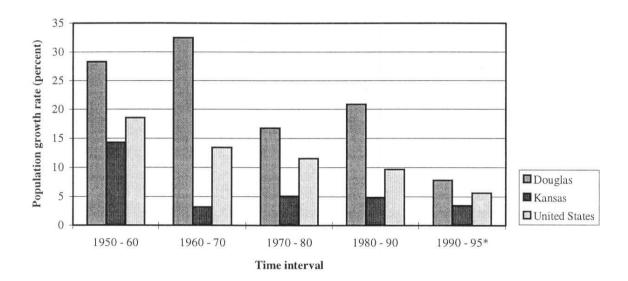
<sup>\* 1995</sup> Population Estimate.

Source: U.S. Bureau of the Census, "Census of Population, 1960: Number of Inhabitants," Final Report: "1980 Census of Population," PC90-1-A-18; "1990 Decennial Census." U.S. Department of Commerce, Bureau of Economic Analysis, Kansas Center for Community Economic Development, "Profile for Douglas County, 1995." 1990-1995 estimates: U.S. Bureau of the Census Abstract 1996. U.S. Calculations by IPPBR, based on Population estimates: U.S. Bureau of the Census Abstract 1996. Calculations: IPPBR.

<sup>\*\*</sup> This is a five-year period compared to ten years for the previous periods.

Figure 1

#### Population Growth Rates Douglas County, Kansas, and U.S., 1950-1995



\* This is a five-year period compared to ten years for the others.

Source: U.S. Bureau of the Census, "Census of Population, 1960: Number of Inhabitants," Final Report: "1980 Census of Population," PC90-1-A-18; "1990 Decennial Census." U.S. Department of Commerce, Bureau of Economic Analysis, Kansas Center for Community Economic Development, "Profile for Douglas County, 1995." 1990-1995 estimates: U.S. Bureau of the Census Abstract 1996. U.S. Calculations by IPPBR, based on Population estimates: U.S. Bureau of the Census Abstract 1996. Calculations: IPPBR.

Table 3

Births, Deaths, Population Change, and Net Migration: 1970 - 1995 Douglas County and Kansas

Douglas

Net Migration (%)	37.7	15.4	11.8	6.0	9.0	1.7	1.1	-0.5
Net Migration	16,497	8,943	7,956	740	534	1,475	959	-408
Population Change (%)	49.5	23.4	20.9	1.7	1.4	2.5	1.9	0.2
Population <u>Change</u>	21,631	13,560	14,154	1,384	1,156	2,073	1,620	175
Population	57,932	67,640	81,798	83,182	84,338	86,411	88,031	88,206
Births - Deaths	5134	4617	6198	644	622	869	661	583
Deaths	3998	3611	3925	437	428	480	450	464
Births	8802	8228	10123	1081	1050	1078	11111	1077
Year	1970*	1980*	1990*	1991	1992	1993	1994	1995

(Continued on the following page)

## Kansas

Year	Births	Deaths	Births - Deaths	Population	Population Change	Population Change (%)	Net Migration	Net Migration (%)
*0261	409189	219067	190122	2,249,071	102,917	4.7	-87,205	-4.0
*0861	355861	218713	137148	2,364,236	119,308	5.3	-17,840	-0.8
*0661	395546	220359	175187	2,477,588	88,386	3.7	-86,801	-3.7
1991	37630	22363	15267	2,491,407	13,819	9.0	-1,448	-0.1
1992	37848	22052	15796	2,514,839	23,432	6.0	7,636	0.3
1993	37283	23508	13775	2,532,458	17,619	0.7	3,844	0.2
1994	37269	23219	14050	2,550,897	18,439	0.7	4,389	0.2
1995	37087	23807	13280	2,565,328	14,431	9.0	1,151	0.0

\* Decade ending, calculated as follows: 1970 decade birth and death figures are years 1961 through 1970; population change is from years 1961 to 1970. Net migration = population change - (births - deaths)

Percent net migration = 100 x (net migration / population total of year beginning the time interval)

Statistics, "Annual Summary of Vital Statistics," 1960-1991, using the revised figures provided. Birth and Death totals for 1995: Kansas State Department of Source: Population totals: U.S. Bureau of the Census, "Census of Population, 1960: Number of Inhabitants; 1980 Census of Population," Vol. 1, Chapter A, Development Summary for Douglas County 1996. Birth and Death totals for 1961-1990: Kansas State Board [Department] of Health, Division of Vital Part 18, "1990 Decennial Census," mimeographed sheet; Population Estimates U.S. Bureau of the Census; Kansas Center for Community Economic Health, Division of Vital Statistics, "Annual Summary of Vital Statistics," 1996.

Table 4

Population of Top Ranking Kansas Counties (in Thousands)

	1940			1990			2020*	
1	Wyandotte	145	1	Sedgwick	404	1	Johnson	624
2	Sedgwick	143	2	Johnson	355	2	Sedgwick	478
3	Shawnee	91	3	Wyandotte	162	3	Shawnee	171
4	Reno	52	4	Shawnee	161	4	Wyandotte	158
5	Montgomery	49	5	Douglas	82	5	Douglas	103
6	Crawford	45	6	Riley	67	6	Leavenworth	85
7	Leavenworth	41	7	Leavenworth	64	7	Finney	80
8	Cowley	38	8	Reno	62	8	Riley	77
9	Johnson	33	9	Butler	51	9	Butler	64
10	Butler	32	10	Saline	49	10	Reno	54
11	Labette	30	11	Montgomery	39	11	Saline	44
12	Cherokee	30	12	Cowley	37	12	Ford	41
13	Saline	30	13	Crawford	36	13	Geary	38
14	Lyon	26	14	Lyon	35	14	Cowley	38
15	Sumner	26	15	Finney	33	15	Lyon	37
16	Douglas	25	16	Harvey	31	16	Crawford	34
17	Barton	25	17	Geary	30	17	Montgomery	32
18	McPherson	24	18	Barton	29	18	Harvey	32
19	Dickinson	23	19	Ford	27	19	Miami	30
20	Atchison	22	20	McPherson	27	20	Sumner	29

<sup>\*</sup> Population projections.

Source: The University of Kansas, Institute for Public Policy and Business Research, "Kansas Statistical Abstract," 1992-1993, "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: Floerchinger, Teresa D., "Kansas Population Projections, 1990-2030, "Kansas Division of the Budget, September, 1992. Calculations: IPPBR.

Map 1

Percent Population Change: 1980 - 1990

Smith   Jewell   Republic   Washington   Marshall   Nemaha   Brown   12.2   12.5
Clay Billey Pottawatomie Jackson 447  Clay Butler Cowley Butler Greenwood Wilson New 10.5  Clay Butler Greenwood Woodson All 12.9  Cowley Greenwood Woodson All 12.9
Wabaunsee 3.9 Archevan Atchevan Atcheva

Source: Institute for Public Policy and Business Research, The University of Kansas, using data from U.S. Census 1990.

Percent Net Migration: 1980 - 1990

Name .	Leavenworth 10.5 Wyandotte -14.9	Johnson 20.3		1.7	Bourbon -7.9	Crawford -6.5	Cherokee -4.4
Doniphan	Atchison -11.0 Jefferson 0.4	Douglas -11.9	Franklin -4.8	Anderson -10.6	on Allen -8.7	Neosho -12.6	m. Labette
Nemaha Brown -10.6 -7.5	ie Jackson -5.1	Shawnee -2.8 nsee Osage		<u> </u>	Woodson -8.6	Wilson -14.4	Montgom.
	Pottawatomie 1.0	Wabaunsee -4.8	-2.9 Lyon -10.6 Chase	2	Greenwood -7.3	岩	-10.0 Chautauqua -8.9
Washington Marshall -14.8 -9.3	ay Riley	nosi B	-2.9 Marion Chase		Butler 5.9		Cowley -3.2
Republic We	Cloud -10.6 Clay -6.1		rson	Harvev	-3.4 Sedgwick	-5.0 -	Sumner -0.1
Jewell Re	Mitchell .	Lincoln -6.9 Ellsworth	31.4	Reno	-8.9	Kingman -10.6	Harper -6.8
Smith Job	Osborne V-15.0	Russell -12.1	Barton -13.9	Stafford -5.7		Pratt -9.7	-13.3
Phillips S	Rooks (	-10.0	Rush H	Pawnee -8.4	Edwards -11.4	Kiowa -13.3	Comanche -8.8
Norton -9.6	Graham -14.8	Trego -13.5	Ness -13.6	Hodgeman -8.4			Clark ~5.5
Decatur -11.2	Sheridan -18.3	Gove -18.1	.7.0 -1	9H 8	Gray -6.3 Ford		Meade -15.4
Rawlins -19.3	Thomas -10.4	100000000 1000000000000000000000000000	Scott -15.3	Finney 15.0		Haskell -11.6	Seward -6.2
	E 12410	Logan -14.1	Wichita -18.3	Kearny 1.8		Grant -11.9	Stevens -2.2
Cheyenne -11.9	Sherman -16.0	Wallace -18.6	Greeley -11.8	Hamilton -7.6		Stanton -11.5	Morton -8.1

Source: Institute for Public Policy and Business Research, The University of Kansas, using data from U.S. Census, 1990.

#### **EMPLOYMENT**

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 perceptions of individuals that suitable job opportunities exist. Diverse, healthy economies tend to offer the widest variety of job opportunities and thereby 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 is able to 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 net loss in jobs over a given period of time.

The following tables, figures and maps are included in the employment section: employment growth rates, number of firms by number of employees, percentage distribution of firms by number of employees, employment levels by industry, labor force participation, unemployment rates, and job growth.

## **Employment: Key Findings**

- The average annual employment (by place of work) for Douglas County has shown strong growth in the last 10 years with a 22.8 percent growth from 1984 to 1989 and 17.6 percent growth from 1989 to 1994 (Table 5). The average annual employment growth for Douglas County has outperformed both the state and national growth rates (Table 4 and Figure 2a).
- Of the selected counties, Johnson County, Kansas, Boone County, Missouri, and Larimer County, Colorado, had higher average annual employment growth rates for 1984 to 1989.
   For 1989 to 1994, only Johnson County, Kansas, and Larimer County, Colorado had higher rates (Table 5 and Figure 2b).
- The number of firms located in Douglas County has increased 43 percent from 1984 to 1994, compared to a 7.4 percent increase for Kansas (Table 6).
- For both the county and the state, around 87 percent of the firms employ fewer than 19 workers (Table 7). The importance of small firms to the economy indicates a need for strategies that nurture new business development and assist existing small businesses.
- Total employment for Douglas County grew from 35,363 in 1984 to 51,081 in 1994, for a growth rate of 44 percent, compared to 15 percent for Kansas during the same time period. Farm employment for the same time period declined by 20 percent in Douglas County and declined by 24 percent for Kansas. Contrary to the state's decline in mining (negative 43 percent change), mining in Douglas County increased 89 percent (Tables 8a and 8b).

- Traditionally, Douglas County's economy has been dependent upon government employment due to the presence of the University of Kansas. Government and Government Services remains nearly the top employer (12,739) in 1994 but is surpassed by Services (12,836). These sectors are followed closely in 1994 by the Retail Trade sector with 10,037 employed (Table 8a).
- Douglas County's employment levels by industry follow state trends. The Services sector in Douglas County offered the largest growth in jobs in Douglas County from 1984 to 1994. In 1994 Douglas County's Services sector was 25.1 percent of total employment, while Government and Government Services and Retail Trade were 24.9 and 19.6 percent of total employment respectively (Table 8a).
- The largest number increase in employment from 1984 to 1994 for Douglas County occurred in the Services sector with an increase of 5,320 persons employed. The next two strongest sectors were Retail Trade and Government and Government Services, with increases of 3,317 and 3,064, respectively. These sectors were also the sectors of largest employment gains for the State of Kansas during the same time period. The largest number increase occurred in the Services sector followed by the Government and Government Services and then Retail Trade (Tables 8a and 8b and Figure 3).
- Recent wage and salary employment estimates show that during the first 10 months of 1996, employment for all industries for the Lawrence SMSA have increased by 1.2 percent from the 1995 estimates. From 1994 to 1995 employment for all industries increased by 2.9 percent. Estimates for the State of Kansas show a 2.1 percent employment increase during the first 10 months of 1996. From 1994 to 1995 employment for the state increased by 3.0 percent (Table 8c).
- The labor force participation rate is the percentage of population 16 and over that is in the labor force. The labor force participation rate in 1990 for Douglas County was 65.3 percent (Map 3). This participation rate was similar to Kansas' rate of 65.4 percent for Kansas and slightly above the U.S. rate of 64.4 percent (1990 U.S. Census). In comparison, nearby Johnson County had a 75.3 percent participation rate in 1990 (Map 3).
- The 1995 unemployment rate for Douglas County was 4.7 percent, which was among the lower rates in the region, suggesting that the county is doing a good job supplying jobs for its residents (Map 4).
- Change in employment from 1990 to 1995 for Douglas County was 13.96 percent. This
  employment data is based on an individual's place of residence unlike other data, which have
  been based on place of work. Douglas County's employment data indicate that job
  opportunities have increased for residents of Douglas County both in and out of the county
  (Map 5).

Table 5

Employment Growth Rates: 1984 - 1994

Douglas County, Selected Counties, Kansas, and United States

	Average	Annual Emp	loyment	% Empl	oyment Growth
	1984	1989	1994*	1984 to 1989	1989 to 1994*
Douglas	35,357	43,418	51,081	22.8	% 17.6 %
Johnson	175,701	231,836	275,118	31.9	18.7
Shawnee	98,950	108,884	114,396	10.0	5.1
Wyandotte	92,377	92,073	92,109	-0.3	0.0
Boone, MO	61,840	73,791	85,409	19.3	15.7
Johnson, IA	54,845	63,612	73,213	16.0	15.1
Larimer, CO	83,988	100,850	123,496	20.1	22.5
Champaign, IL	97,933	110,997	110,363	13.3	-0.6
Kansas	1,368,559	1,449,774	1,574,442	5.9	8.6
United States	113,544,000	123,869,000	131,056,000	9.1	5.8

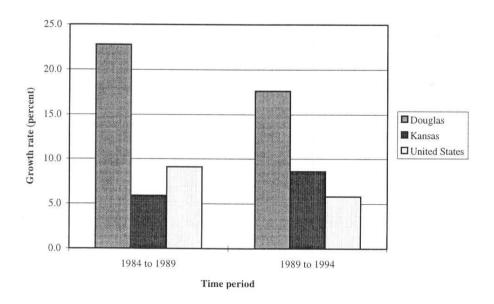
<sup>\*</sup> Data for 1994 are not directly comparable with data from earlier years.

Note: Employment by place of work.

Source: U.S. Department of Commerce, Bureau of Economic Analysis; Kansas Center for Community Economic Development, County Summaries, the University of Kansas.

Figure 2 a

Employment Growth Rates: 1984 - 1989 and 1989 - 1994\* Douglas County, Kansas, and United States

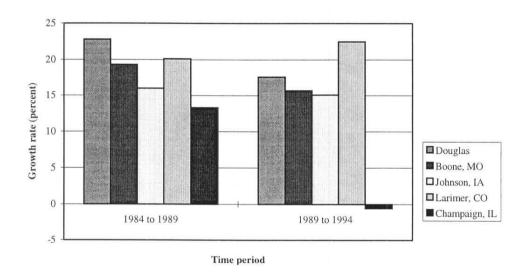


\* Data for 1994 are not directly comparable with data from earlier years.

Source: U.S. Department of Commerce, Bureau of Economic Analysis; Kansas Center for Community Economic Development, County Summaries, the University of Kansas.

Figure 2 b

Employment Growth Rates: 1984 - 1989 and 1989 - 1994\*
Douglas County and Comparative Counties



\* Data for 1994 are not directly comparable with data from earlier years.

Source: U.S. Department of Commerce, Bureau of Economic Analysis; Kansas Center for Community Economic Development, County Summaries, the University of Kansas.

Table 6

Number of Firms, by Number of Employees: 1984 and 1994

Douglas County and Kansas

		Douglas		F	Kansas	
<b>Employees</b>	<u>1984</u>	1994	% Change	<u>1984</u>	1994	% Change
1 19	1,413	1,954	38.3 %	58,092	60,903	4.8 %
20 99	133	258	94.0	6,015	7,560	25.7
100 499	27	35	29.6	820	1,230	50.0
500+	1	4	300.0	88	129	46.6
Total	1,574	2,251	43.0%	65,015	69,822	7.4

Source: U.S. Bureau of the Census, "County Business Patterns, 1994" and Kansas Center for Community Economic Development Summary for Douglas County 1996.

Table 7

Percentage Distribution of Firms, by Number of Employees: 1984 and 1994

Douglas County and Kansas

	Douglas		Kansas	
<b>Employees</b>	<u>1984</u>	<u>1994</u>	1984	<u>1994</u>
1 19	89.8 %	86.8 %	89.4 %	87.2 %
20 99	8.4	11.5	9.3	10.8
100 499	1.7	1.6	1.3	1.8
500+	0.1	0.2	0.1	0.2

Source: U.S. Bureau of the Census, "County Business Patterns, 1994" and Kansas Center for Community Economic Development Summary for Douglas County 1996.

Table 8 a

Employment Levels by Industry: 1984 and 1994 Douglas County

I			Douglas		As a Per	cent of To	As a Percent of Total Employment
Industry	1984	1994	Change in Employment	% Change in Employment	1984	1994	Change in Employment
Ag. Services	137	444	307	224 %	0.4 %	% 6.0	2.0 %
Mining	121	229	108	68	0.3	0.4	0.7
Construction	1,579	2,563	984	62	4.5	5.0	6.3
Manufacturing	4,564	5,219	655	14	12.9	10.2	4.2
Transportation	1,199	1,339	140	12	3.4	2.6	6.0
Wholesale Trade	742	1,651	606	123	2.1	3.2	5.8
Retail Trade	6,720	10,037	3,317	49	19.0	19.6	21.1
Finance, Insur., Real	1,990	3,123	1,133	57	5.6	6.1	7.2
Services	7,516	12,836	5,320	71	21.3	25.1	33.8
Gov't. and Gov't. Serv	9,675	12,739	3,064	32	27.4	24.9	19.5
Subtotal Non-Farn	34,243	50,180	15,937	47			
Farm Employment	1,120	901	-219	-20	3.2	1.8	-1.4
Total Employment	35,363	51,081	15,718	44			

Note: Employment by place of work.

Source: The University of Kansas, Kansas Center for Community Economic Development, "Kansas County Profile for Douglas County 1996," Bureau of Economic Analysis, Regional Economic Information System, Table CA5.

Table 8 b

Employment Levels by Industry: 1984 and 1994

Kansas

			Kansas		As a Perc	ent of Tota	As a Percent of Total Employment
Industry	1984	1994	Change in Employment	% Change in Employment	1984	1994	Change in <u>Employment</u>
Ag. Services	11,471	19,365	7,894	% 69	0.9 %	1.3 %	3.4 %
Construction	40,729	74,953	9,214	145	5.2	5.0	-8.7 4.0
Manufacturing	182,149	194,204	12,055	7	14.4	13.0	5.2
Transportation	73,954	76,854	2,900	4	5.8	5.1	1.3
Wholesale Trade	70,790	75,305	4,515	9	5.6	5.0	2.0
Retail Trade	213,424	263,054	49,630	23	16.9	17.6	21.5
Finance, Insur., Real Est.	89,390	97,131	7,741	6	7.1	6.5	3.4
Services	286,801	391,367	104,566	36	22.7	26.2	45.3
Gov't. and Gov't. Services	224,563	277,137	52,574	23	17.8	18.5	22.8
Subtotal Non-Farm	1,265,010	1,496,076	231,066	18			
Farm Employment	103,549	78,366	-25,183	-24	7.6	5.0	-12.2
Total Employment	1,368,559	1,574,442	205,883	15			

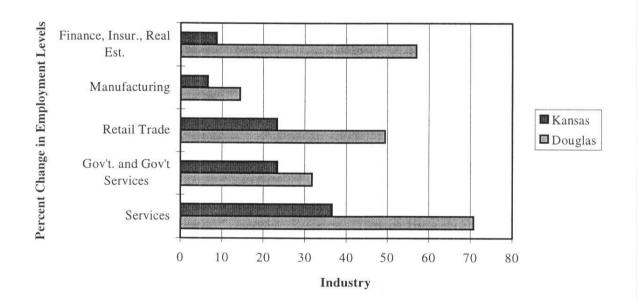
Note: Employment by place of work.

Source: The University of Kansas, Kansas Center for Community Economic Development, "Kansas County Profile for Douglas County 1996," Bureau of Economic Analysis, Regional Economic Information System, Table CA5.

Figure 3

Change in Employment Level by Selected Industry: 1984 - 1994

Douglas County and Kansas



Source: The University of Kansas, Kansas Center for Community Economic Development, "Kansas County Profile for Douglas County 1996" Bureau of Economic Analysis, Regional Economic Information System, Table CA5.

Table 8 c

Labor Market Summary: 1994 - 1996

Lawrence SMSA (Douglas County) and Kansas

_	I	Lawrence SN	MSA (Dougla	as County)		Kan	sas
				Percent	Percent	Percent	Percent
	1994r	1995	1996*	Change	Change	Change	Change
	Average	Average	Average	1994r-95	1995-96*	1994r-95	1995-96*
Place of Residence Data							
Civilian labor force	49189	49960	50855	1.6	1.8	0.0	2.1
Employment	46614	47556	48587	2.0	2.2	0.9	2.5
Unemployment	2575	2404	2268	-6.6	-5.7	-15.5	-7.9
Unemployment rate	5.2	4.8	4.5	-7.7	-7.1	-17.0	-8.9
Place of Work Data							
Wage and Salary Employment							
All industries	42000	43200	43730	2.9	1.2	3.0	2.1
Goods producing industries	6700	6900	7100	3.0	2.9	2.6	3.6
Construction and mining	1800	1800	1920	0.0	6.7	3.8	8.1
Manufacturing	4900	5100	5180	4.1	1.6	2.1	2.2
Service producing industries	35200	36300	36630	3.1	0.9	3.1	1.7
Transportation & public utilities	1100	1100	1080	0.0	-1.8	1.0	2.5
Trade	10300	11000	11030	6.8	0.3	4.1	3.0
Wholesale	1500	1600	1700	6.7	6.3	4.7	2.2
Retail	8800	9400	9330	6.8	-0.7	3.9	3.3
Finance, insurance, and real estate	1800	1800	1900	0.0	5.6	-1.2	2.5
Services	9400	9600	9870	2.1	2.8	4.7	1.5
Government	12600	12800	12750	1.6	-0.4	1.8	-0.3
Farm employment	600	600	610	0.0	1.7	6.8	-0.2

r = revised

Source: Kansas Department of Human Resources, Labor Market Information Services. Developed in cooperation with the U.S. Bureau of Labor Statistics. Non-farm wage and salary estimates are based on data drawn from unemployment insurance employer records.

<sup>\* 1996</sup> Average calculated using the first 10 months of 1996.

Map 3

Labor Force Participation: 1990

	venworth 60.5 Wyandotte 64.1					12	18
Doniphan 59.3	Leavenworth 60.5 Wyandott 64.1	this case of the second	Miami 64.1	Anderson Linn 59.8 52.8	Bourbon 57.1	Crawford 57.5	Cherokea 57.7
	Atchison 61.3 Jefferson 68.0	Douglas 65.3	Franklin 65.5	Anderso 59.8	Allen 61.2	Neosho 61.2	. Labette 61.6
a Brown 59.3	Jackson 64.2	Shawnee 68.2 e Osage	91.0 Geffer	64.3	Woodsor 57.4	Wilson 56.2	Montgom. 59.0
Nemaha 63.7	Pottawatomie <sup>J</sup> 68.2	Wabaunsee 64.7	Lyon 67.3		Greenwood 54.5	計	52.7 Chautauqua 48.1
Marshall 58.4		Geary V 72.2 Morris	60.2 Chase	57.5	0.5	l m	
Washington Marshall 59.1 58.4	Clay Riley 60.5 70.4	Dickinson Ge \$2.6 77	Marion 59.4		Buffer 55.9		Cowley 61.7
			McPherson Ma	Harvev	65.7 Sedgwick	70.5	Sumner 62.7
Republic 59.2	Cloud 59.1	Saline 59.1	McPh 67.3				
Jewell 59.7	Mitchell 59.7	Lincoln 60.8 Elsworth	SS 5 Rice	27030	62.6	Kingman 60.0	Harper 58.5
Smith 58.2	Osborne 60.5	Russell. 57.2	Barton 65.5	Stafford 57.3		Pratt 63.7	Barber 60.8
Phillips 59.3	Rooks 59.4	Ellis 69.5	Rush 58.3	Pawnee 60.2	Edwards 60.8	Kiowa 60.0	Comanche 59.5
	TENAL		군요		□ ·	₹ 6	8 22
Norton 58.2	Graham 61.1	Trego 60.2	Ness 62.4	Hodgeman 56.0	Ford	99.9	Clark 64.6
Decatur 52.3	Sheridan 63.5	Gove 58.3	Lane 60.1		Gray 65.8		Meade 54.4
ins	nas J	9"	Scott 64.7	Finney 74.5		Haskell 40.3	Seward 70.1
Rawlins 61.3	Thomas 67.9	Logan 64.1	Wichita 62.4	Kearny 71.2		Grant 72.1	Stevens 55.5
Cheyenne 57.3	Sherman 63.7	Wallace 64.4	Greeley 69.1	Hamilton 64.7		Stanton 65.9	Morton S 53.0

Source: 1990 U.S. Census.

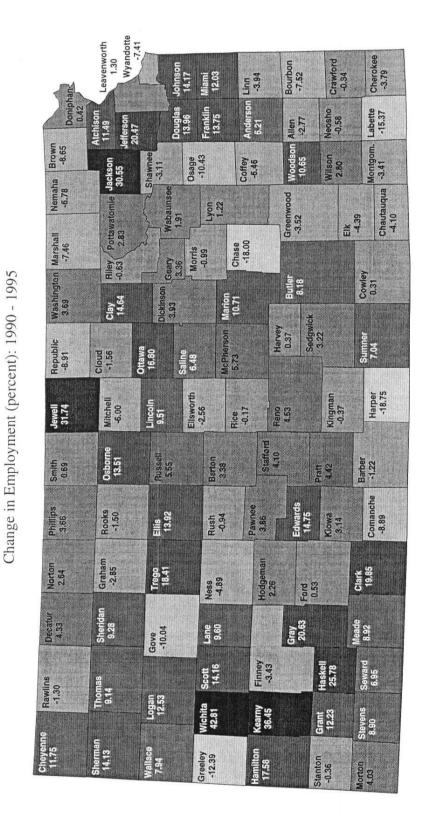
day

Unemployment Rates: 1995

2.2 2.2 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	Sherman Thom 3.3 3.3	Wallace Logan 2.9 2.3	Greeley Wichita 3.5 2.9	Hamilton Kearny 2.2 3.7	7-6	Stanton Grant 2.6 2.9	Morton Stevens 2.1 2.7
Hawlins 2.9	Thomas.		Scott 2.4	Finney		Haskell 3.1	Seward 4.6
Decatur 3.2	Sheridan 1.9	Gove 1.6	Lane 3.2		Gray 2.9		Meade 2.6
Norton 2.4	Graham 3.8	Trego 2.8	Ness 3.2	Hodgeman	Ford		Clark 2.5
Phillips 3.5	Rooks 3.5	Ellis 3.8	Bush 4.2	Pawnee 3.4	Edwards 2.9	Kiowa 2.6	Comanche 1.7
Smith 3.3	Osborne 3.1	Russell 3.7	Barton 4.9	Stafford	3.7	3.4	Barber 3.8
Jewell 2.9	Mitchell 3.2	Lincoln 5.0 Elsworth	8		Reno 4.5	Kingman 4.3	Harper 3.8
Republic 2.6	Cloud 3.3	Ottowa 4.1 Saline	McPherson	3	Harvey 3.9 Sedgwick	4.9	Sumner 5.5
Washington 3.5	Clay	Dickinson 6 5.0		73	9 Butler 42		Cowley 6.1
n Marshall 3.7	Blicy Pottawatomie 4.5			Chase 6.0		ä	
Nemaha 2.6	stomie Jackson 5.4	Sumsee	Lyon 4.6	පි <del>ර</del>	рооми		utauqua
Brown 5.4 D	Atchison 6.4 Jefferson 4.7		6.7 Franklin 5.5	Coffey And 6.0 5.3	Woodson Allen 8.1 6.5	Wilson Neosho 5.9 4.6	Montgom, Labette 5.9 5.8
Doniphan 6.1	On Leavenworth 4.4  Wyandotte 6.7	Douglas Johnson 4.7 2.6	Miami 3.8	Anderson Linn 5.3 8.4	Bourbon 5.7	sho Crawford 5.1	ette Cherokee 6.6

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

Source: Institute for Public Policy and Business Research, The University of Kansas, "Kansas Statistical Abstract, 1995," using data from Kansas Labor Force Estimates Annual Average 1995, Kansas Department of Human Resources, Labor Market Information Services, developed in cooperation with U.S. Bureau of Labor Statistics.



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

Source: Kansas Statistical Abstract, IPPBR, University of Kansas, Kansas Labor Force Estimates Annual Average 1995, Kansas Department of Human Resources.

## **Earnings and Income**

Earnings and income are the sources of revenue for the community residents. Higher average wages may indicate a greater number of jobs in high growth, high performance businesses. Low wage growth may indicate a higher concentration of stable, declining industries. Per capita personal income indicates the relative wealth of the area compared to the state. As the productivity of business and industry increases, personal per capita income also rises. Decreasing or stable rates may be the result of mature or declining industry. The following section contains data on the average wage per job and per capita personal income.

## **Earnings and Income: Key Findings**

- The average wage per job for Douglas County at \$18,685 in 1994 was \$3,801 lower than the state average and \$7,784 lower than the national average (Table 9).
- Douglas County also had a lower average wage than its comparative counties. All three of the neighboring metropolitan counties (Johnson, Shawnee and Wyandotte) had higher average wages than Douglas County (Table 9).
- Per capita personal income for Douglas County lags behind the state's figures. Douglas County's per capita personal income in 1994 was \$16,785, while Kansas' per capita personal income was \$20,760 (Table 10 and Figure 4).
- Douglas County's Per Capita Personal Income was 82.9 percent of the Per Capita Personal Income for the state in 1984; it was 80.9 percent of the state Per Capita Personal Income in 1994 (Table 10).
- Douglas County has one of the lower per capita personal incomes in the region and in the state (Map 6).

Table 9

Average Wage per Job: 1984 - 1994

Douglas County, Comparative Counties, and Kansas

Average V	Vage per Jo	ob (Dollars)	Percent	Growth
1984	1989	1994	1984-1989	1989-1994
13,940	15,972	18,685	14.6	17.0
17,972	21,940	26,377	22.1	20.2
17,500	20,438	24,176	16.8	18.3
19,360	23,010	27,713	18.9	20.4
14,497	17,240	21,128	18.9	22.6
14,703	18,559	22,280	26.2	20.0
16,184	19,438	23,599	20.1	21.4
17,048	17,933	20,704	5.2	15.5
16,195	19,030	22,486	17.5	18.2
17,878	22,121	26,469	23.7	19.7
	1984 13,940 17,972 17,500 19,360 14,497 14,703 16,184 17,048	1984         1989           13,940         15,972           17,972         21,940           17,500         20,438           19,360         23,010           14,497         17,240           14,703         18,559           16,184         19,438           17,048         17,933           16,195         19,030	13,940     15,972     18,685       17,972     21,940     26,377       17,500     20,438     24,176       19,360     23,010     27,713       14,497     17,240     21,128       14,703     18,559     22,280       16,184     19,438     23,599       17,048     17,933     20,704       16,195     19,030     22,486	1984         1989         1994         1984-1989           13,940         15,972         18,685         14.6           17,972         21,940         26,377         22.1           17,500         20,438         24,176         16.8           19,360         23,010         27,713         18.9           14,497         17,240         21,128         18.9           14,703         18,559         22,280         26.2           16,184         19,438         23,599         20.1           17,048         17,933         20,704         5.2           16,195         19,030         22,486         17.5

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Table CA34, 1996.

Table 10

Per Capita Personal Income: 1980 - 1994

Douglas County and Kansas

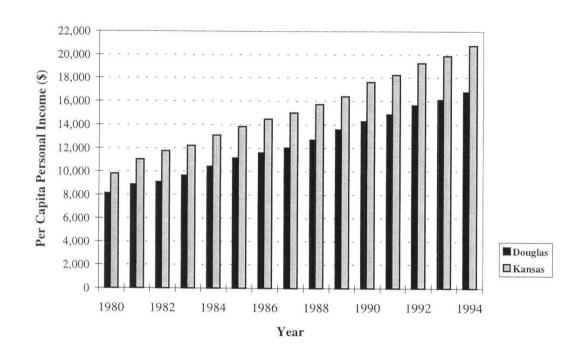
		Inco	me (\$)	Growth I	Rates
	<b>Douglas</b>	Kansas	Douglas/Kansas	Douglas	Kansas
1980	8,146	9,829	82.9 %		
1981	8,893	11,034	80.6	9.2 %	12.3 %
1982	9,096	11,760	77.3	2.3	6.6
1983	9,669	12,192	79.3	6.3	3.7
1984	10,448	13,114	79.7	8.1	7.6
1985	11,133	13,847	80.4	6.6	5.6
1986	11,586	14,472	80.1	4.1	4.5
1987	12,021	15,017	80.0	3.8	3.8
1988	12,705	15,748	80.7	5.7	4.9
1989	13,599	16,399	82.9	7.0	4.1
1990	14,300	17,642	81.1	5.2	7.6
1991	14,875	18,251	81.5	4.0	3.5
1992	15,658	19,261	81.3	5.3	5.5
1993	16,112	19,892	81.0	2.9	3.3
1994	16,785	20,760	80.9	4.2	4.4

Source: The University of Kansas, Kansas Center for Community Economic Development, "Kansas County Profile for Douglas" Bureau of Economic Analysis, Regional Economic Information System, Table CA5; Local Area Personal Income 1969-94, U.S. Department of Commerce, BEA.

Figure 4

Per Capita Personal Income: 1980 - 1994

Douglas County and Kansas



Source: The University of Kansas, Kansas Center for Community Economic Development, "Kansas County Profile for Douglas" Bureau of Economic Analysis, Regional Economic Information System, Table CA5; Local Area Personal Income 1969-94, U.S. Department of Commerce, BEA.

Per Capita Personal Income: 1994

TE L	Leavenworth 16.3 Wyandotte 16.2	Johnson	Miami 18.0		15.4	Bourbon 16.6	Crawford 17.5	Cherokee 15.7
Doniphan 18.8	Atchison 17.0 lefferson 18.1	Douglas 16.8	Franklin 15.8		Anderson Lillin 16.4 15.4	Allen 15.7	Neosho 18.1	Labette 16.1
Brown 18.0	1.7	CO / morning and a second	Osage 16.3	Coffee	182	Woodson Allen 17.5 15.7	Wilson 16.1	Montgom. 17.2
shalf Nemaha 5. 20.3	Pottawatomie Jackson 16.8 18.5	Wabaunsee 17.9	Lyon			Greenwood 17.1	ä	16.3 Chautauqua 14.9
Washington Marshall 20,2 21.5	Clay Riley 15.9	Dickinson Geary 16.9 15.0	Morris 16.2	Marion Chase	8	Butter 19.6	AUE A	Cowley 17.0
Republic 20.2			22.1	McPherson N		Harvey 20.1 Sedgwick	21.9	Sumner 18.6
Jewell 19.1	Mitchell 20.0	Lincoln 20.3	Elisworth 17.0	Rice	1200	78.9 18.9	Kingman 18.2	Harper 19.3
Smith 18.8	Osborne 20.8	Russell 20.4	Barton	18.7	Stafford	C C	Pratt 19.8	Barber 18.4
Phillips 20.0	Rooks 17.7	Ellis 19.2	Rush	18.0	Pawnee 21.6	Edwards 25.1	Kiowa 19.5	Comanche 24.4
Norton 19.0	Graham 17.4	Trego 19.7	Ness	<b>23</b>	Hodgeman 20.8	Ford		Clark 22.9
Decatur 21.6	Sheridan 23.3	Gove 25.9	Lane	<b>2</b>		Gray 21.4		Meade 23.5
Rawiins 21.3	Thomas 20.5		Scott		Finney 19.9		Haskell 25.6	Seward 20.0
	100	Logan 18.5	Wichita 26.7		Kearny 27.4		Grant 20.8	Stevens 25.9
20.3	Sherman 22.0	Wallace 18.2	Greeley 31.4		Hamilton 29.9		Stanton 25.2	Morton 19.6

Source: Institute for Public Policy and Business Research, The University of Kansas, "Kansas Statistical Abstract 1995"; using data from The U.S. Bureau of Economic Analysis, Regional Economic Information System, Table CA5.

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#### RETAIL

Retail trade is part of a community's business environment, which is affected by several things. Past decisions by investors, business managers, taxpayers and policy makers each contribute to share a climate which either promotes or inhibits the productivity of local businesses and therefore affects decisions about growth and expansion. Other contribution factors include the level of competition, the availability of suppliers and supporting industries, the cost of labor, and taxation and regulation within the community. Some types of establishments will thrive in an environment in which other firms cannot operate profitably.

The level of taxable retail sales is an indicator of retail sector performance and the overall strength of the local consumer market. The County Trade Pull Factor (CTPF) accounts for the relative retail trade performance of each county in terms of the average retail trade activities of Kansas. CTPF is calculated by dividing the county's per capita sales by Kansas' per capita sales. A CTPF value of less than 1.00 indicates that the county is losing customers due to "outshopping" by residents. A CTPF of more than 1.00 would indicate that the county is attracting retail customers.

The following section contains a table and a figure, outlining the retail sales growth rates, and a map illustrating County Trade Pull Factors.

## **Retail: Key Findings**

- Since 1985, retail sales in Douglas County have grown at a rate faster than the state's rate, except for the periods from 1987 to 1988 and 1991 to 1992. From 1991 to 1992, Douglas County's growth rate in Retail Sales was negative 1.1 percent (Table 11 and Figure 5).
- The trade pull factor for Douglas County for 1996 was 1.00, which indicates that the trade it loses to surrounding counties is equal to the trade it gains. Johnson County and Shawnee County with CTPFs of 1.44 and 1.26, respectively, out-performed Douglas County in attracting customers (Map 7)

<sup>&</sup>lt;sup>4</sup> Chatura Ariyaratne and David Darling, "County Retail Trade Activity and Changes from 1990 through 1994," *Kansas Business Review*, Vol. 18, No. 3, Spring 1995.

Table 11

Retail Sales and Growth Rates: 1984 - 1994

Douglas County and Kansas

(\$ Millions)

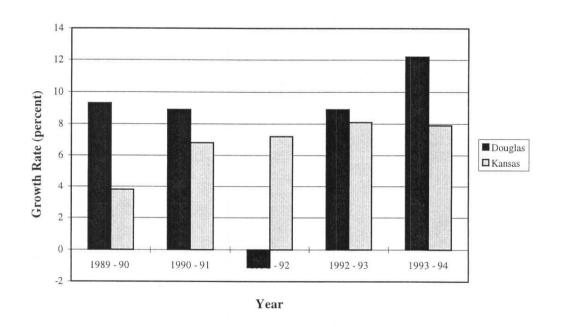
	Dougl	as	Kansa	as
<b>Year</b>	Nominal Sales	<b>Growth Rate</b>	Nominal Sales	<b>Growth Rate</b>
1984	351.3		15,806.8	
1985	383.8	9.3 %	16,299.1	3.1 %
1986	400.8	4.4	16,165.9	-0.8
1987	426.5	6.4	16,746.0	3.6
1988	446.0	4.6	17,548.0	4.8
1989	477.8	7.1	18,034.4	2.8
1990	522.1	9.3	18,723.3	3.8
1991	568.7	8.9	19,988.0	6.8
1992	562.5	-1.1	21,421.3	7.2
1993	612.5	8.9	23,154.4	8.1
1994	687.0	12.2	24,979.0	7.9

Source: CEDBR Data Base, Center for Economic Development and Business Research, W. Frank Barton School of Business, Wichita State University, Kansas County Profile, KCCED/IPPBR, The University of Kansas. Calculations: IPPBR.

Figure 5

Retail Sales Growth Rates: 1989 - 1994

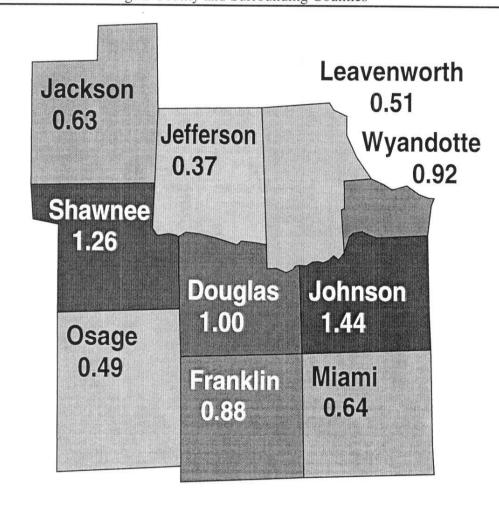
Douglas County and Kansas



Source: CEDBR Data Base, Center for Economic Development and Business Research, W. Frank Barton School of Business, Wichita State University, Kansas County Profile, KCCED/IPPBR, The University of Kansas. Calculations: IPPBR.

Map 7

County Trade Pull Factors: 1996\*
Douglas County and Surrounding Counties



<sup>\*</sup> The CTPF for Leavenworth County is the 1995 figure.

*Note:* County Trade Pull Factor (CTPF) = County per Capita Sales divided by Kansas per Capita Sales. Population used to compute per capita sales includes institutionalized population. The CTPF for Leavenworth is 1995.

Source: David Darling and Chatura Ariyaratne, Cooperative Extension Service, Kansas State University, Department of Agricultural Economics, 1997.

#### AGRICULTURE

The data on agriculture will help determine whether or not the overall importance of this sector in the county has been increasing or decreasing and how this compares with other counties and the state as a whole. The economic well-being of Douglas County in the past was not dependent on the strength of this industry sector, but it is interesting to look at the level of activity in agriculture and how the character of this industry is changing in the county. The agriculture section contains tables and figures on the total value of field crops and the total value of livestock and poultry.

## **Agriculture: Key Findings**

- The total value of field crops for Douglas County for the 1989 to 1994 time period was highest in 1992. The state totals, on the other hand, have fairly consistently increased over the time interval. Douglas County's business economy is not highly dependent upon field crop production, and it has not been more than 0.74 percent of the state's total value between 1989 and 1994. In 1994, its field crop value ranked 86th out of the 105 counties in Kansas, having increased rank from 87th position in 1993 (Table 12).
- The value of livestock and poultry varies from year to year, having declined from 0.53 percent of Kansas' total value in 1989 to 0.41 percent of Kansas' total value in 1994. Douglas county's rank in value of livestock and poultry has steadily declined from 77th out of 105 counties in 1989 to 92nd in 1994 (Table 13).

Table 12

Total Value of Field Crops: 1989 - 1994

Douglas County and Kansas

		T	otal Value of	f Field Crops	s* (\$1,000's)	
	<u>1989</u>	<u>1990</u>	<u>1991</u>	1992	1993	1994
Douglas Kansas	17,020 2,310,335	16,354 2,728,644	15,123 2,578,640	21,955 2,988,468	14,993 3,014,079	19,949 3,555,000
Crop Price Index+	124	103	99	97	101	113
County Rank	66	81	80	71	87	86
As a Percent of Kansas:	0.74	0.60	0.59	0.73	0.50	0.56
Percent Change:		1989-90	<u>1990-91</u>	<u>1991-92</u>	1992-93	1993-94
Douglas Kansas		-3.91 18.11	-7.53 -5.50	45.18 15.89	-31.71 0.86	33.06 17.95

<sup>+</sup> Since 1975, index numbers are on 1990-1992 = 100 base.

Source: Kansas Agricultural Statistics, Kansas Department of Statistics; Kansas Farm Facts; Kansas County Profile Report, KCCED, The University of Kansas, 1996; KCCED calculations.

<sup>\*</sup> Does not include any government program payments, value of sugar beets, or cotton acreage value until 1991; then, only government payments are not included.

Table 13

Total Value of Livestock and Poultry: 1989 - 1994

Douglas County and Kansas

		Total	Value of Liv	estock and P	oultry (\$1,00	00's)
	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	1993	1994
Douglas Kansas	14,133 2,651,606	15,260 2,928,822	13,902 2,856,751	12,639 2,758,569	13,493 2,873,600	12,260 2,966,198
Livestock & Products Price Index+	96	103	99	98	101	91
County Rank	77	79	79	86	85	92
As a Percent of Kansas:	0.53	0.52	0.49	0.46	0.47	0.41
Percent Change:		<u>1989-90</u>	1990-91	<u>1991-92</u>	1992-93	1993-94
Douglas Kansas		7.97 10.45	-8.90 -2.46	-9.09 -3.44	6.76 4.17	-9.14 3.22

<sup>+</sup> Since 1975, index numbers are on 1990-1992 + 100 base.

Source: Kansas Agricultural Statistics, Kansas Department of Statistics; Kansas Farm Facts; Kansas County Profile Report, KCCED, The University of Kansas, 1996; KCCED calculations.

#### **EDUCATION**

Education is another key 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 levels 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: Key Findings**

- Douglas County is the home of the University of Kansas, Baker University, and Haskell Indian Nations University. Therefore, it is not surprising to find that the education level of the county's population was greater than the state's average in 1990 (Table 14).
- Lawrence and Douglas County have a much higher percentage of their over-25 population with Bachelors than the state, with 24.6 percent for Lawrence and 21.7 percent for Douglas County with Bachelors compared to 14.1 percent for Kansas (Table 14).
- The number of persons with graduate degrees also is high. Lawrence and Douglas County have 19.4 percent and 16.7 percent of their over-25 population with graduate degrees compared to 7.0 percent for Kansas (Table 14).
- The percentage of Lawrence and Douglas County population with associate degrees is slightly below the percentage for Kansas, which would tend to indicate that the county may be lacking in technically trained workers (Table 14).

Table 14

Educational Attainment of Persons over 25: 1990
As a Percentage of the Population of Persons over 25
Lawrence, Douglas County, and Kansas

	Completed Less <u>Than 9th Grade</u>	9-12th Grade No Diploma	High School <u>Graduate</u>	Some College	Associate <u>Degree</u>	Bachelor's <u>Degree</u>	Graduate <u>Degree</u>	Population Over 25
Lawrence Douglas Cou	995 unty 1,627	1,939 3,095	6,927	6,942	1,317	7,965	6,271	32,356
Kansas	120,951	172,321	10,669 514,177	8,958 342,964	1,695 85,146	9,192 221,016	7,072 109,361	42,308 1,565,936
	of Population of	Persons over 25:						
Lawrence	3.1	6.0	21.4	21.5	4.1	24.6	19.4	
Douglas	3.8	7.3	25.2	21.2	4.0	21.7	16.7	
Kansas	7.7	11.0	32.8	21.9	5.4	14.1	7.0	

Source: U.S. Bureau of the Census, 1990. Percent calculations by KCCED/IPPBR, The University of Kansas.

#### CONCLUSION

The use of data in economic development is important because it assists a community in "taking stock" and understanding its current situation across several different 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 interpretation.

Douglas County has a highly educated adult population, low unemployment rates, strong employment increases in most sectors, particularly services, retail trade, and government and government services. The data also show that small firms, those with fewer than 19 employees, are very important to the county's economy. Despite the high growth rates in job creation, the average wage for Douglas County has declined in relative terms, indicating more of the growth was in lower paying jobs. Given the high education level of the population and the lower average wage per job, work is still needed to reduce the gap between Douglas County and similar areas in level of earnings. The 1992 study noted many opportunities could be capitalized upon to assist in bridging the gap between education and pay, such as new state technology policies, university linkages, and the proximity to metropolitan center to generate higher value-added employment opportunities in developing industries.

The Lawrence-Douglas County area, as indicated by population and employment data, is a desirable place to live. Its proximity to Johnson County, Kansas, one of the fastest growing counties in the nation, and the presence of three institutions of higher education are part of its desirability. The higher education institutions provide a great deal of stability while the location of the county provides opportunities for growth. How these two assets are utilized will have a lot to do with the type of community Douglas County will be in the future.