

# Broken Arrow, Oklahoma

## Background

Broken Arrow, the fifth-largest city in Oklahoma, is located just 15 minutes southeast of Tulsa. Its name comes from Creek Indians who emigrated from Alabama in 1868 and called their new home “Thlikatchka,” or “Broken Arrow,” after the broken branches they used for making arrows. The city has been one of Oklahoma’s most consistently growing communities for nearly 30 years; its residents enjoy a high quality of life, with excellent schools, parks and recreation.

Broken Arrow is Oklahoma’s third-largest manufacturing city, with about 200 facilities making a wide range of products from flight simulators to natural gas compressors. There are 12 fully developed business and industry parks, and more than 2,000 support services.

The opening of a Northeastern State University campus here, along with construction of the South Loop, or Creek Turnpike Extension, has created dramatic shifts in home building and new businesses. In addition, Broken Arrow has initiated an ambitious street and road program, as well as improvement of its parks facilities. The Broken Arrow Expressway is undergoing expansion from four to six — in some areas even eight — lanes, with widened bridges and redesigned on-off ramps.

Institutions for higher education in and around the city are numerous and varied. Northeastern State University-Broken Arrow serves more than 2,200 graduate and undergraduate students, with an increase in enrollment — 43 percent since spring 2000 alone — for the past five semesters. Other higher educational facilities in the area are the University of Tulsa, with a strong connection to the Presbyterian Church (USA), and Tulsa University, one of the Presbyterian Church’s largest doctoral degree-granting institutions, offering bachelor’s degrees in 89 areas of study, 33 master’s degrees, and 12 doctoral degrees. The University of Oklahoma is a doctoral degree-granting research university that enrolls more than 27,000 students on campuses in Norman, Oklahoma City and Tulsa.

Places of interest in Broken Arrow include the Philbrook Art Museum, listed in the top fifty art museums in the United States, and one of only five museums with a unique combination of a historical home, art collection and gardens. The Indian Territory Gallery exhibits the work of Native American artists, many of whom are descendants of Broken Arrow’s original Creek settlers. Persimmon Hollow Antique Village is home to about 45 antique dealers, while historic downtown Broken Arrow offers furniture, crafts and specialty items. Safari Exotic Wildlife Sanctuary is a nonprofit organization set up to care for and find homes for unwanted, abused or neglected endangered exotic and local wildlife. The sanctuary currently is caring for about 200 animals, including 20 lions and tigers.

## Rankings

- Tulsa\* was ranked #102 out of 354 metro areas in *Places Rated Almanac*. Criteria: cost of living; climate; crime; transportation; job outlook; education; the arts; health care; and recreation. *Places Rated Almanac, Millennium Edition, 2000*
- *Natural Health* ranked the 50 largest urban areas, according to 37 criteria, in terms of “America’s Healthiest Cities.” The Tulsa\* metro area ranked #47. Criteria: amenities; physical health; environment; and happiness. *Natural Health, April 2001*
- The Tulsa\* metro area was selected by *Yahoo! Internet Life* as one of “America’s Most Wired Cities...and Towns.” The area ranked #59 out of 87. Criteria: home and work net use; user sophistication; domain density; and available content. *Yahoo! Internet Life, April 2001*
- Scarborough Research measured the number of Cyber Shoppers (those who have Internet access at home or at work and have purchased goods or services online) among adults in 64 leading U.S. markets. The Tulsa\* DMA (Designated Market Area) was ranked #32 out of 64. *Scarborough Research, 2000 Scarborough Report Release 1*
- *The Sporting News* ranked over 300 U.S. and Canadian metro area in terms of their sports’ climate. Tulsa\* ranked #109 out of 322. Criteria include: championships; playoff berths; regular-season records; applicable power ratings; fan fervor and knowledgeability; number of teams; stadium quality, accessibility and ambiance; ticket availability; and marquee appeal of athletes. *The Sporting News Online, “Best Sports Cities 2001”*
- The Tulsa\* metro area was selected as one of the “Top 40 Real Estate Markets” for expanding or relocating businesses.” The area ranked #2 out of 40 metro areas. Criteria: rental costs; purchase prices; and vacancy rates of office and warehouse space. *Expansion Management, August 2001*
- The Tulsa\* metro area appeared on *Forbes/Milken Institute* list of “Best Places for Business and Career.” Rank: #101 out of 200 metro areas. Criteria: salary growth; job growth; number of technology clusters; overall concentration of technology activity relative to national average; and technology output growth. *www.forbes.com, Forbes/Milken Institute Best Places 2001*
- The Tulsa\* metro area appeared on *Entrepreneur* magazine’s list of the “Best Cities for Entrepreneurship”. The area ranked #25 out of 81 in the mid-sized city category. Criteria: entrepreneurial activity; small-business growth; economic growth; and risk. *Entrepreneur, October 2001*
- The Tulsa\* metro area appeared on *IndustryWeek’s* fourth annual World-Class Communities list. It ranked #30 out of 315 metro areas. Criteria: MSA Gross Metropolitan Product (GMP) per manufacturing employee; and MSA percent share of U.S. manufacturing Gross Domestic Product (GDP). *IndustryWeek, April 16, 2001*
- ING Group ranked the 125 largest metro areas according to the general financial security of residents. The Tulsa\* metro area was ranked #41 out of 125. Criteria: Earnings and Wealth Potential (household income, education, net assets, cost of living); Safety Net (health insurance, retirement savings, life insurance, income support programs); Personal Threats (unemployment rate, low-income households, crime rate); Community Economic Vitality (cost of community services, job quality, job creation, housing costs). *ING Group, “The Best Cities to Earn and Save Money: A Ranking of the Largest 125 U.S. Cities,” 2001 Edition*

**\*Broken Arrow is located within the Tulsa metro area.**

## Business Environment

### CITY FINANCES

#### City Government Finances

Component	1998-99 (\$000)	1998-99 (\$ per capita)
Total Revenues	42,788	719
Total Expenditures	42,486	713
Debt Outstanding	88,262	1,482
Cash and Securities	65,617	1,102

Source: U.S Census Bureau, Government Finances 1998-99, September 2001

#### City Government Revenue by Source

Source	1998-99 (\$000)	1998-99 (\$ per capita)
General Revenue		
From Federal Government	1,151	19
From State Government	650	11
From Local Governments	83	1
Taxes		
Property	3,822	64
Sales	18,881	293
Personal Income	0	0
License	0	0
Charges	10,773	181
Liquor Store	0	0
Utility	5,910	99
Employee Retirement	0	0
Other	1,518	25

Source: U.S Census Bureau, Government Finances 1998-99, September 2001

#### City Government Expenditures by Function

Function	1998-99 (\$000)	1998-99 (\$ per capita)	1998-99 (%)
General Expenditures			
Airports	0	0	0.0
Corrections	0	0	0.0
Education	0	0	0.0
Fire Protection	4,205	71	9.9
Governmental Administration	3,248	55	7.6
Health	1,035	17	2.4
Highways	5,931	100	14.0
Hospitals	0	0	0.0
Housing and Community Development	975	16	2.3
Interest on General Debt	3,289	55	7.7
Libraries	0	0	0.0
Parking	0	0	0.0
Parks and Recreation	2,023	34	4.8
Police Protection	6,213	104	14.6
Public Welfare	0	0	0.0
Sewerage	3,628	61	8.5
Solid Waste Management	1,532	26	3.6
Liquor Store	0	0	0.0
Utility	6,404	108	15.1
Employee Retirement	0	0	0.0
Other	4,003	67	9.4

Source: U.S Census Bureau, Government Finances 1998-99, September 2001

#### Municipal Bond Ratings

Area	Moody's
City	A1

Source: Mergent Bond Record, February 2002

## EXPORTS

**Total Export Sales**

Area	1996 (\$000)	1997 (\$000)	1998 (\$000)	1999 (\$000)	% Chg. 1996-99	% Chg. 1998-99
MSA <sup>1</sup>	1,549,608	1,626,410	1,558,061	1,423,833	-8.1	-8.6
U.S.	622,827,063	687,597,999	680,474,251	692,820,627	11.2	1.8

Note: (1) Metropolitan Statistical Area - see Appendix A for areas included

Source: U.S. Department of Commerce, International Trade Association, Metropolitan Area Exports: An Export Performance Report on Over 250 U.S. Cities, November, 2000

## POPULATION

**Population Growth**

Area	1980 Census	1990 Census	2001 Estimate	2006 Projection	Population Growth (%)	
					1990-2001	2001-2006
City	38,700	58,043	72,481	77,528	24.9	7.0
MSA <sup>1</sup>	n/a	708,954	810,358	845,408	14.3	4.3
U.S.	226,545,805	248,765,170	284,002,368	296,112,288	14.2	4.3

Note: (1) Metropolitan Statistical Area - see Appendix A for areas included; n/a not available

Source: Claritas, Inc; 1990 Census of Population and Housing, Summary Tape File 3C

**Number of Households and Average Household Size**

Area	1980 Census	1990 Census	2001 Estimate	2006 Projection	2001 Average Household Size
City	12,345	19,340	24,612	26,506	2.94
MSA <sup>1</sup>	n/a	277,423	324,718	340,937	2.50
U.S.	80,389,592	91,993,582	107,023,920	112,316,656	2.65

Note: (1) Metropolitan Statistical Area - see Appendix A for areas included; n/a not available

Source: Claritas, Inc; 1990 Census of Population and Housing, Summary Tape File 3C

**Race/Ethnicity of City Population**

Race/Ethnicity	1990 Census		2001 Estimate		% Change 1990-2001
	Population	%	Population	%	
White, Non-Hispanic	52,397	90.3	61,552	84.9	17.5
Black, Non-Hispanic	1,691	2.9	2,826	3.9	67.1
Asian, Non-Hispanic	577	1.0	1,615	2.2	179.9
Other, Non-Hispanic	2,070	3.6	3,870	5.3	87.0
Hispanic	1,308	2.3	2,618	3.6	100.2

Source: Claritas, Inc; 1990 Census of Population and Housing, Summary Tape File 3C

**Race/Ethnicity of Metropolitan Statistical Area Population**

Race/Ethnicity	1990 Census		2001 Estimate		% Change 1990-2001
	Population	%	Population	%	
White, Non-Hispanic	583,047	82.2	613,824	75.7	5.3
Black, Non-Hispanic	57,231	8.1	73,552	9.1	28.5
Asian, Non-Hispanic	6,482	0.9	11,622	1.4	79.3
Other, Non-Hispanic	47,696	6.7	71,346	8.8	49.6
Hispanic	14,498	2.0	40,014	4.9	176.0

Note: See Appendix A for areas included in the Metropolitan Statistical Area

Source: Claritas, Inc; 1990 Census of Population and Housing, Summary Tape File 3C

**Ancestry**

Area	German	Irish	English	Italian	American	French	Polish	Scottish	Dutch
County	13.1	10.0	10.7	8.7	2.2	2.1	1.0	1.7	2.6
MSA <sup>1</sup>	12.4	10.5	9.8	8.6	2.0	2.7	1.0	1.8	2.7
U.S.	17.0	12.1	10.3	7.2	5.8	3.6	3.3	2.0	1.9

Note: Figures are estimated percentages and include multiple ancestry (e.g. if a person reported being Irish and Italian, they were included in both columns); (1) Metropolitan Statistical Area - see Appendix A for areas included

Source: U.S. Census Bureau, Census 2000 Supplementary Survey

**Median Age**

Area	1990 Census	2001 Estimate
City	30.0	32.9
MSA <sup>1</sup>	33.0	36.2
U.S.	32.9	36.1

Note: (1) Metropolitan Statistical Area - see Appendix A for areas included  
 Source: Claritas, Inc; 1990 Census of Population and Housing, Summary Tape File 3C

**Male/Female Population**

Area	Number of Males		Number of Females		Males per 100 Females	
	1990	2001	1990	2001	1990	2001
City	28,530	35,577	29,513	36,904	96.7	96.4
MSA <sup>1</sup>	343,328	393,481	365,626	416,877	93.9	94.4
U.S.	121,172,379	138,705,296	127,537,494	145,297,104	95.0	95.5

Note: (1) Metropolitan Statistical Area - see Appendix A for areas included; 2001 data are estimates provided by Claritas, Inc.  
 Source: Claritas, Inc; 1990 Census of Population and Housing, Summary Tape File 3C

**INCOME**

**Per Capita/Median/Average Income**

Area	Per Capita (\$)			Median Household (\$)			Average Household (\$)		
	1989	2001	% Chg.	1989	2001	% Chg.	1989	2001	% Chg.
City	13,931	26,114	87.5	37,601	66,325	76.4	41,518	76,931	85.3
MSA <sup>1</sup>	13,783	23,373	69.6	26,991	41,722	54.6	34,892	57,869	65.8
U.S.	14,420	23,622	63.8	30,056	45,030	49.8	38,453	61,904	61.0

Note: (1) Metropolitan Statistical Area - see Appendix A for areas included; 1989 data is from the 1990 Census; 2001 data are estimates provided by Claritas, Inc.  
 Source: Claritas, Inc; 1990 Census of Population and Housing, Summary Tape File 3C

**Household Income Distribution**

Area	Percent of Households Earning									
	Under \$5,000	\$5,000 -14,999	\$15,000 -24,999	\$25,000 -34,999	\$35,000 -49,999	\$50,000 -74,999	\$75,000 -99,000	\$100,000 -149,999	\$150,000 and up	
City	1.8	3.9	6.7	8.2	12.4	26.1	19.2	14.6	7.2	
MSA <sup>1</sup>	3.7	11.4	13.6	12.9	16.9	19.8	10.4	6.6	4.5	
U.S.	3.5	10.9	12.6	12.0	15.8	20.0	11.2	8.3	5.7	

Note: Figures are for the year 2001; (1) Metropolitan Statistical Area - see Appendix A for areas included  
 Source: Claritas, Inc.

**Poverty Rates**

Area	People of All Ages	People 18 Years Old and Over	People 65 Years Old and Over	Related Children Under 18 Years Old	Related Children Under 5 Years Old	Related Children 5 to 17 Years Old	Unrelated Individuals 15 Years Old and Over
County	12.0	10.2	14.8	16.1	22.5	13.5	20.1
MSA <sup>1</sup>	11.5	9.9	14.6	15.4	23.7	12.2	21.0
U.S.	12.5	10.8	10.6	17.0	19.7	16.1	21.7

Note: Figures are estimates and show the percent of people living below the poverty line in 2000. The average poverty threshold was \$17,463 for a family of four with two related children in 2000; (1) Metropolitan Statistical Area - see Appendix A for areas included.  
 Source: U.S. Census Bureau, Census 2000 Supplementary Survey

**BANKRUPTCIES**

**Personal Bankruptcy Filing Rate**

Area	2001 (per 1,000 pop.)
Tulsa County	5.81
U.S.	5.23

Note: Includes Chapter 7 and Chapter 13 filings  
 Source: Federal Deposit Insurance Corporation (FDIC), Regional Economic Conditions (RECON), April 8, 2002

## EMPLOYMENT

**Labor Force and Employment**

Area	Civilian Labor Force			Workers Employed		
	Dec. 2000	Dec. 2001	% Chg.	Dec. 2000	Dec. 2001	% Chg.
City	35,301	35,853	1.6	34,776	34,912	0.4
MSA <sup>1</sup>	416,794	425,757	2.2	407,082	408,675	0.4
U.S.	141,319,000	141,912,000	0.4	136,092,000	134,235,000	-1.4

Note: Data is not seasonally adjusted and covers workers 16 years of age and older;

(1) Metropolitan Statistical Area - see Appendix A for areas included

Source: Bureau of Labor Statistics, <http://stats.bls.gov>

**Unemployment Rate**

Area	2001											
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
City	1.8	1.6	1.6	1.6	1.8	1.8	1.7	1.8	2.0	2.4	2.4	2.6
MSA <sup>1</sup>	2.8	2.5	2.5	2.5	2.7	2.7	2.6	2.7	3.1	3.6	3.7	4.0
U.S.	4.7	4.6	4.6	4.2	4.1	4.7	4.7	4.9	4.7	5.0	5.3	5.4

Note: Data is not seasonally adjusted and covers workers 16 years of age and older; all figures are percentages; (1) Metropolitan Statistical Area - see Appendix A for areas included

Source: Bureau of Labor Statistics, <http://stats.bls.gov>

**Employment by Industry**

Sector	MSA <sup>1</sup>		U.S.
	Number of Employees	Percent of Total	Percent of Total
Services	130,700	31.8	30.9
Retail Trade	72,600	17.7	18.2
Government	46,000	11.2	16.2
Manufacturing	57,000	13.9	12.9
Finance/Insurance/Real Estate	22,300	5.4	5.8
Wholesale Trade	20,300	4.9	5.3
Transportation/Public Utilities	35,600	8.7	5.3
Construction	20,000	4.9	5.1
Mining	6,100	1.5	0.4

Note: Figures cover non-farm employment as of December 2001 and are not seasonally adjusted;

(1) Metropolitan Statistical Area - see Appendix A for areas included

Source: Bureau of Labor Statistics, <http://stats.bls.gov>

**Employment by Occupation**

Occupation Classification	County (%)	MSA <sup>1</sup> (%)	U.S. (%)
Management, Professional, and Related	37.5	34.2	33.3
Sales and Office	29.3	28.9	26.7
Services	12.6	13.5	15.1
Production, Transportation, and Material Moving	10.1	11.4	14.7
Construction, Extraction, and Maintenance	10.4	11.4	9.5
Farming, Forestry, and Fishing	0.2	0.6	0.7

Note: Figures are estimates and cover employed civilians 16 years of age and older;

(1) Metropolitan Statistical Area - see Appendix A for areas included

Source: U.S. Census Bureau, Census 2000 Supplementary Survey

**Occupational Employment Projections: 1996 - 2006**

Occupations Expected to Have the Largest Job Growth (ranked by numerical growth)	Fast-Growing Occupations <sup>1</sup> (ranked by percent growth)
1. Nursing aides/orderlies/attendants	1. Home health aides
2. Salespersons, retail	2. Physical therapy assistants and aides
3. General managers & top executives	3. Systems analysts
4. Teachers, secondary school	4. Database administrators
5. Cashiers	5. Medical assistants
6. Registered nurses	6. Physical therapists
7. Truck drivers, light	7. Personal and home care aides
8. Teachers aides, clerical & paraprofess.	8. Paralegals
9. Systems analysts	9. Data processing equipment repairers
10. Waiters & waitresses	10. Teachers, special education

*Note: Projections cover Oklahoma; (1) Excludes occupations with total job growth less than 300*  
*Source: U.S. Department of Labor, Employment and Training Administration, America's Labor Market Information System (ALMIS)*

**Average Wages**

Occupation	\$/Hr.	Occupation	\$/Hr.
Accountants and Auditors	20.43	Maids and Housekeeping Cleaners	6.87
Automotive Mechanics	13.14	Maintenance and Repair Workers	12.96
Bookkeepers	12.31	Marketing Managers	31.64
Carpenters	13.43	Nuclear Medicine Technologists	22.23
Cashiers	6.95	Nurses, Licensed Practical	13.72
Clerks, General Office	9.98	Nurses, Registered	20.77
Clerks, Receptionists/Information	9.05	Nursing Aides/Orderlies/Attendants	7.66
Clerks, Shipping/Receiving	10.39	Packers and Packagers, Hand	7.72
Computer Programmers	26.77	Physical Therapists	25.41
Computer Support Specialists	16.41	Postal Service Mail Carriers	17.59
Computer Systems Analysts	25.02	Real Estate Brokers	53.77
Cooks, Restaurant	7.38	Retail Salespersons	9.47
Dentists	35.21	Sales Reps., Exc. Tech./Scientific	19.95
Electrical Engineers	28.87	Sales Reps., Tech./Scientific	25.44
Electricians	17.13	Secretaries, Exc. Legal/Med./Exec.	11.10
Financial Managers	31.01	Security Guards	8.59
First-Line Supervisors/Mgrs., Sales	14.33	Surgeons	n/a
Food Preparation Workers	6.94	Teacher Assistants	7.34
General and Operations Managers	30.48	Teachers, Elementary School	15.38
Hairdressers/Cosmetologists	10.36	Teachers, Secondary School	16.22
Internists	n/a	Telemarketers	7.33
Janitors and Cleaners	7.39	Truck Drivers, Heavy/Tractor-Trailer	15.38
Landscaping/Groundskeeping Workers	8.88	Truck Drivers, Light/Delivery Svcs.	8.79
Lawyers	42.04	Waiters and Waitresses	6.03

*Note: Wage data is for 2000 and covers the Metropolitan Statistical Area (see Appendix A for areas included). Hourly wages for elementary and secondary school teachers were calculated by the editors from annual wage data assuming a 40 hour work week; n/a not available.*

*Source: Bureau of Labor Statistics, 2000 Metro Area Occupational Employment and Wage Estimates*

**TAXES**

**State Corporate Income Tax Rates**

State	Rate (%)	Number of Brackets	Low Bracket (Under \$)	High Bracket (Over \$)
Oklahoma	6	1	na	na

*Note: Tax rates as of December 31, 2000; na not applicable*

*Source: Tax Foundation, www.taxfoundation.org*

**State Individual Income Tax Rates**

State	Federal Deductibility	Marginal Rate (%)	Number of Brackets	Low Bracket (Under \$)	High Bracket (Over \$)
Oklahoma	Yes (d)	0.5-6.75	8	1,000	10,000

Note: Tax rates as of December 31, 2000; Brackets apply to single taxpayers and married people filing separately; na not applicable; (d) Rates listed assume that taxpayers opt not to deduct their federal income tax liability. In Oklahoma, if a filer chooses to deduct his federal liability, then he faces a range of rates from 0.5%-10% on income up to \$1,000 and over \$16,000 respectively.

Source: Tax Foundation, [www.taxfoundation.org](http://www.taxfoundation.org)

**Various State and Local Tax Rates**

State Sales and Use (%)	Total Sales and Use (%)	Gasoline (cents/gal.)	Cigarette (cents/pack)	Spirits (\$/gal.)	Table Wine (\$/gal.)	Beer (\$/gal.)
4.5	8.417	16	23	5.56	0.72	0.40

Note: Tax rates as of December 31, 2000

Source: Tax Foundation, [www.taxfoundation.org](http://www.taxfoundation.org)

**Total Taxes Per Capita and as a Percent of Income**

Area	Per Capita Income (\$)	Per Capita Taxes (\$)			Percent of Income (%)		
		Total	Federal	State/Local	Total	Federal	State/Local
Oklahoma	26,118	8,116	5,518	2,598	31.1	21.1	9.9
U.S.	32,902	11,116	7,754	3,362	33.8	23.6	10.2

Note: Figures are for 2001

Source: Tax Foundation, *Special Report, April 2001*

**Internal Revenue Service Tax Audits**

IRS District	Percent of Returns Audited				
	1996	1997	1998	1999	2000
Arkansas-Oklahoma	0.72	0.63	0.58	0.35	0.21
U.S.	0.66	0.61	0.46	0.31	0.20

Note: Figures cover IRS district audits of federal income tax returns filed by individuals

Source: Syracuse University, *Transactional Records Access Clearinghouse (TRAC)*, "Odds of IRS District Tax Audit 2000"

**RESIDENTIAL  
REAL ESTATE****Building Permits**

Area	Single-Family			Multi-Family			Total		
	1999	2000	Pct. Chg.	1999	2000	Pct. Chg.	1999	2000	Pct. Chg.
MSA <sup>1</sup>	3,772	3,463	-8.2	1,579	273	-82.7	5,351	3,736	-30.2
U.S.	1,246,700	1,198,100	-3.9	416,800	394,200	-5.4	1,663,500	1,592,300	-4.3

Note: Figures represent new, privately-owned housing units authorized (unadjusted data)

(1) Metropolitan Statistical Area - see Appendix A for areas included

Source: U.S. Census Bureau, *Manufacturing, Mining, and Construction Statistics*

**Homeownership and Housing Vacancies**

Area	Homeownership Rate <sup>2</sup> (%)			Rental Vacancy Rate <sup>3</sup> (%)			Homeowner Vacancy Rate <sup>4</sup> (%)		
	1999	2000	2001	1999	2000	2001	1999	2000	2001
MSA <sup>1</sup>	63.9	65.2	66.1	9.8	10.8	7.1	2.3	2.1	1.7
U.S.	66.8	67.4	67.8	8.1	8.0	8.4	1.7	1.6	1.8

Note: (1) Metropolitan Statistical Area - see Appendix A for areas included; (2) The proportion of households that are owners; (3) The proportion of the rental inventory that is vacant for rent;

(4) The proportion of the homeowner inventory that is vacant for sale; n/a not available

Source: U.S. Census Bureau, *Housing Vacancies and Homeownership Annual Statistics: 2001*

**TRANSPORTATION**

**Transportation Statistics**

Roadway Congestion Index <sup>1</sup> (1999)	n/a
Roadway Congestion Index Rank <sup>2</sup> (1999)	n/a
Interstate highways (2001)	I-44
Public transportation (1999)	Metropolitan Tulsa Transit Authority
Buses	
Average fleet age in years	7.1
No. operated in max. service	68
Demand response	
Average fleet age in years	3.6
No. operated in max. service	56
Passenger air service	
Airport (2001)	Tulsa International (12 miles northwest)
Airlines (2001)	8
Enplaned passengers (2000)	1,667,791
Amtrak service (2001)	No
Major waterways/ports (2001)	Arkansas River

*Note: (1) Values greater than 1.00 indicate undesirable mobility levels; (2) Rank varies from 1 to 68 where 1 is the most congested urban area; n/a not available*

*Source: Texas Transportation Institute, The 2001 Urban Mobility Report; National Transit Database, 1999; Editor & Publisher Market Guide, 2001; Amtrak National Time Table, Fall 2001/Winter 2002; Bureau of Transportation Statistics, Airport Activity Statistics of Certificated Air Carriers, December 31, 2000; OAG Business Travel Planner, Winter 2001*

**Means of Transportation and Mean Travel Time to Work**

Area	Car/Truck/Van		Public Transportation (incl. taxicab)	Walked	Other Means	Worked at Home	Mean Travel Time to Work (minutes)
	Drove Alone	Car-pooled					
County	81.9	11.1	0.8	1.6	0.9	3.7	19.3
MSA <sup>1</sup>	82.2	10.8	0.6	1.7	1.7	3.1	20.6
U.S.	76.3	11.2	5.2	2.7	1.4	3.2	24.3

*Note: Figures shown are estimated percentages, except for Mean Travel Time to Work, and cover workers 16 years of age and older; (1) Metropolitan Statistical Area - see Appendix A for areas included*  
*Source: U.S. Census Bureau, Census 2000 Supplementary Survey*

**HOTELS & MOTELS**

**Hotels/Motels**

Area	Hotels/Motels	Rooms	Luxury-Level Hotels/Motels		Average Minimum Rates (\$)		
			◆◆◆◆	◆◆◆◆◆	◆◆	◆◆◆	◆◆◆◆
City	6	436	0	0	n/a	n/a	n/a

*Note: n/a not available; classifications range from one diamond (budget properties with basic amenities) to five diamonds (luxury properties).*

*Source: OAG Business Travel Planner, Winter 2001*

## Living Environment

### COST OF LIVING

#### Cost of Living: Homeowner

Cost Element	U.S. (\$)	City (\$)	Differential (\$)	Percent of U.S. Average
Consumables	15,759	14,494	-1,265	92.0
Transportation	6,925	6,903	-22	99.7
Health Services	2,150	2,116	-34	98.4
Housing/Utilities/Prop. Tax	15,348	12,030	-3,318	78.4
Income+Payroll Taxes	11,798	10,826	-972	91.8
Total Cost of Living	60,000	54,389	-5,611	90.6

Note: Figures are based on a single income, four person family with gross annual earnings of \$60,000, owning an 1,800 square-foot home, and driving two automobiles worth \$22,000 24,000 miles per year.

Source: ERI's Relocation Assessor software database, quarterly effective date 4/1/2002

#### Cost of Living: Renter

Cost Element	U.S. (\$)	City (\$)	Differential (\$)	Percent of U.S. Average
Consumables	10,493	9,608	-885	91.6
Transportation	2,109	2,093	-16	99.2
Health Services	1,633	1,601	-32	98.0
Rent/Utilities/Insurance	9,351	6,464	-2,887	69.1
Income+Payroll Taxes	8,587	7,595	-992	88.4
Total Cost of Living	40,000	35,188	-4,812	88.0

Note: Figures are based on a single income, three person family with gross annual earnings of \$40,000, renting a 1,000 square-foot home, and driving one automobile worth \$8,000 12,000 miles per year.

Source: ERI's Relocation Assessor software database, quarterly effective date 4/1/2002

### HOUSING

#### Median Home Prices and Housing Affordability

Area	Median Price <sup>2</sup> 4th Qtr. 2001 (\$)	HOI <sup>3</sup> 4th Qtr. 2001 (%)	Affordability Rank <sup>4</sup>
MSA <sup>1</sup>	108,000	76.0	69
U.S.	158,000	64.1	n/r

Note: (1) Metropolitan Statistical Area - see Appendix A for areas included; (2) U.S. figures calculated from the sales of over 600,000 new and existing homes in 181 markets; (3) Housing Opportunity Index - percent of homes sold that were within the reach of the median income household at the prevailing mortgage interest rate; (4) Rank is from 1-181 with 1 being most affordable; n/r not ranked

Source: National Association of Home Builders, Housing Opportunity Index, 4th Quarter 2001

#### Home Values

Area	Less Than \$50,000	\$50,000 - \$99,999	\$100,000 - \$149,999	\$150,000 - \$199,999	\$200,000 - \$299,999	\$300,000 - \$499,999	\$500,000 - \$999,999	\$1 Mil. or More	Median Value
County	15.2	44.5	23.8	8.0	6.3	1.5	0.6	0.2	88,354
MSA <sup>1</sup>	15.5	44.1	25.3	8.4	4.7	1.4	0.4	0.2	89,259
U.S.	9.6	30.1	23.8	14.7	11.6	7.2	2.5	0.5	120,496

Note: Figures are estimates and are all percentages except for Median Value which is in dollars;

(1) Metropolitan Statistical Area - see Appendix A for areas included

Source: U.S. Census Bureau, Census 2000 Supplementary Survey

#### Housing: Year Structure Built

Area	2000	1995-1999	1990-1994	1980-1989	1970-1979	1960-1969	1950-1959	1940-1949	Before 1940
County	2.3	6.9	6.1	16.9	26.9	14.1	11.7	6.6	8.4
MSA <sup>1</sup>	2.8	7.4	6.3	17.0	26.1	14.0	11.4	7.4	7.5
U.S.	1.8	7.4	7.3	15.8	18.3	13.3	12.7	7.3	16.3

Note: Figures are estimated percentages; (1) Metropolitan Statistical Area - see Appendix A for areas included

Source: U.S. Census Bureau, Census 2000 Supplementary Survey

**Rent**

Area	No Cash Rent	Less Than \$200	\$200 - \$299	\$300 - \$499	\$500 - \$749	\$750 - \$999	\$1,000 - \$1,499	\$1,500 or More	Median Rent
County	6.7	5.7	2.8	23.6	44.2	11.8	4.3	0.8	562
MSA <sup>1</sup>	8.3	5.0	4.8	26.1	41.2	10.4	3.4	0.7	540
U.S.	4.8	4.5	4.8	21.7	34.4	18.1	8.8	2.9	612

Note: Figures are estimates and are all percentages except for Median Rent which is in dollars;

(1) Metropolitan Statistical Area - see Appendix A for areas included

Source: U.S. Census Bureau, Census 2000 Supplementary Survey

**Median Home Price Projection**

It is projected that the median home price in the metropolitan area will increase by 2.9% in 2002. Nationwide, home prices are projected to increase 3.3%. *Kiplinger's Personal Finance Magazine, January 2002*

**RESIDENTIAL UTILITIES**

**Average Residential Utility Costs**

Area	All Electric (\$/mth)	Part Electric (\$/mth)	Other Energy (\$/mth)	Phone (\$/mth)
City	-	67.43	59.84	22.30
U.S.	114.63	64.37	66.59	21.23

Source: ACCRA, Cost of Living Index, 2nd Quarter 2001

**HEALTH CARE**

**Average Health Care Costs**

Area	Hospital (\$/day)	Doctor (\$/visit)	Dentist (\$/visit)
City	437.00	65.40	88.00
U.S.	526.54	59.51	75.28

Note: Hospital—based on a semi-private room; Doctor—based on a general practitioner's routine exam of an established patient; Dentist—based on adult teeth cleaning and periodic oral exam.

Source: ACCRA, Cost of Living Index, 2nd Quarter 2001

**Distribution of Non-Federal, Office-Based Physicians**

Area	Total	Family/General Practice	Specialties		
			Medical	Surgical	Other
MSA <sup>1</sup> (number)	1,169	173	401	289	306
MSA <sup>1</sup> (rate per 10,000 pop.)	14.6	2.2	5.0	3.6	3.8
All U.S. MSAs (rate per 10,000 pop.)	18.1	2.2	6.6	4.4	4.9

Note: Data as of 12/31/99; (1) Metropolitan Statistical Area - see Appendix A for areas included

Source: American Medical Association, Physician Characteristics & Distribution in the U.S., 2001-2002

**Hospitals**

Broken Arrow has the following hospitals: 1 general medical and surgical. *AHA Guide to the Healthcare Field, 2001-2002; The Hospital Phone Book, 2001; Directory of Hospital Personnel, 2002*

**PRESIDENTIAL ELECTION**

**2000 Presidential Election Results**

Area	Gore	Bush	Nader	Other
Tulsa County <sup>1</sup>	37.3	61.3	0.0	1.3
U.S.	48.3	48.0	2.7	1.0

Note: (1) Results are percentages and may not add to 100% due to rounding

Source: www.cbsnews.com

**EDUCATION**

**Public School District Statistics**

District Name	Schls.	Students	Teachers	Student/ Teacher Ratio	Minority Students (%)	H.S. Drop-out Rate <sup>1</sup> (%)	Current Expend. <sup>2</sup> (\$/pupil)
Broken Arrow	22	15,015	879	17.1	13.7	4.3	5,315

Note: Data covers the 1999-2000 school year unless otherwise noted; (1) Includes drop-outs from grades 9-12 for the 1998-1999 school year; (2) Fiscal year 1999; n/a not available

Source: U.S. Department of Education, National Center for Education Statistics, Common Core of Data, Local Education Agency (School District) Universe Survey: School Year 1999-2000; U.S. Department of Education, National Center for Education Statistics, Common Core of Data, Public Elementary/Secondary School Universe Survey: School Year 1999-2000; U.S. Department of Education, National Center for Education Statistics, Common Core of Data, Local Education Agency Universe Dropout File: School Year 1998-1999; U.S. Census Bureau, Public Elementary-Secondary Education Finances: 1998-99

**Highest Level of Education Attained**

Area	Less than 9th Grade	9th - 12th Grade, No Diploma	High School Graduate (incl. GED)	Some College, No Degree	Associate Degree	Bachelor's Degree	Graduate or Professional Degree
County	3.4	10.4	25.6	26.7	6.7	18.4	8.7
MSA <sup>1</sup>	3.8	11.9	27.8	25.1	6.9	17.2	7.3
U.S.	6.9	11.5	29.5	20.5	6.5	16.1	9.0

Note: Figures are estimated percentages and cover persons 25 years old and over;

(1) Metropolitan Statistical Area - see Appendix A for areas included

Source: U.S. Census Bureau, Census 2000 Supplementary Survey

**School Enrollment by Level**

Area	Nursery/Preschool	Kindergarten	Elementary School Grades 1-8	High School Grade 9-12	College/ Grad. School
County	5.5	5.6	43.0	21.0	24.9
MSA <sup>1</sup>	6.4	5.2	44.9	20.8	22.6
U.S.	5.9	5.5	45.3	21.8	21.5

Note: Figures are estimated percentages and cover persons 3 years old and over enrolled in school;

(1) Metropolitan Statistical Area - see Appendix A for areas included

Source: U.S. Census Bureau, Census 2000 Supplementary Survey

**Higher Education**

Two-Year Colleges		Four-Year Colleges		Medical Schools	Law Schools	Voc/ Tech
Public	Private	Public	Private			
0	0	0	0	0	0	1

Note: Figures cover institutions located within the city limits.

Source: College Blue Book, Occupational Education, 2002; Medical School Admission Requirements, 2000-2001; Peterson's Guide to Two-Year Colleges, 2002; American Trade Schools Directory, 2001-2002; Official Guide to U.S. Law Schools, 2001; College Board College Handbook 2002

**MAJOR EMPLOYERS**

**Major Employers**

Alliance Resource Partners LP	American Airlines Inc.
Amoco	Amoco Fabrics and Fibers Co.
Arrow Trucking Co.	Avis
Boeing	Chapman Center
Citgo Petroleum Corporation	Department of Public Works
Direct Merchants Bank	Hillcrest Healthcare System
Hillcrest Medical Center Inc.	Kwikset Securities
Mabee Center	Marion Health System-Hospital
Nordam Manufacturing	Oklahoma Natural Gas Company
Oneok Services Company	Pricewaterhousecoopers LLP
Questers Inc.	Saint Faith Hospital Inc.
Saint Francis Hospital	St. John Medical Center Inc.
Superstar/Netlink Group LLC	TV Guide Inc.
Tulsa Regional Medical Center	United Video Satellite Grade
Williams Companies Inc.	Wiltel Communications

Note: Companies shown are located in the metropolitan area and have 1,000 or more employees.

Source: www.zapdata.com, November 2001

**PUBLIC SAFETY**

**Crime Rate**

Area	All Crimes	Violent Crimes				Property Crimes		
		Murder	Forcible Rape	Robbery	Aggrav. Assault	Burglary	Larceny -Theft	Motor Vehicle Theft
City	2,872.9	2.6	25.8	18.1	121.4	547.7	1,937.6	219.6
Suburbs <sup>1</sup>	4,847.9	5.9	44.2	113.2	551.7	982.6	2,571.2	579.0
MSA <sup>2</sup>	4,658.6	5.6	42.5	104.1	510.5	940.9	2,510.5	544.5
U.S.	4,124.0	5.5	32.0	144.9	323.6	728.4	2,475.3	414.2

*Note: Figures are crimes per 100,000 population; (1) All areas within the MSA that are located outside the city limits; (2) Metropolitan Statistical Area - see Appendix A for areas included*  
*Source: FBI Uniform Crime Reports, 2000*

**RECREATION**

**Culture and Recreation**

Museums	Orchestras	Opera Companies	Dance Companies	Professional Theatres	Zoos	Pro Sports Teams <sup>1</sup>
0	0	0	0	0	0	0

*Note: (1) Covers the Metropolitan Statistical Area - see Appendix A for areas included.*  
*Source: The Grey House Performing Arts Directory, 2002; Official Museum Directory, 2002; www.sportsvenues.com*

**Library System**

The Broken Arrow Branch (Tulsa City-County Library) has holdings of 43,201 volumes.  
*American Library Directory, 2001-2002*

**MEDIA**

**Newspapers**

Name	Type	Freq.	Distribution	Circulation
Broken Arrow Daily Ledger	General	3x/wk	Local	5,000

*Note: Includes newspapers whose offices are located in the city*  
*Source: Burrelle's Media Directory, 2000*

**Television Stations**

Name	Ch.	Affiliation	Type	Owner
KJRH	2	NBCT	Commercial	Scripps Howard Broadcasting
KOTV	6	CBST	Commercial	Belo Corporation
KTUL	8	ABCT	Commercial	Allbritton Communications Company
KOED	11	PBS	Public	State of Oklahoma
KDOR	17	n/a	Commercial	All American TV Inc.
KOKI	23	FBC	Commercial	Clear Channel Broadcasting Inc.
KTFO	41	UPN	Commercial	R.D.S. Broadcasting Inc.
KTPX	44	n/a	Commercial	Paxson Communications Corporation
KWHB	47	WB	Commercial	Lesea Broadcasting Corporation
KWMJ	53	n/a	Commercial	University Broadcasting Inc.

*Note: Stations included broadcast from the Tulsa metro area; n/a not available*  
*Source: Burrelle's Media Directory, 2000*

**AM Radio Stations**

Call Letters	Freq. (kHz)	Target Audience	Station Format	Music Format
KRMG	740	Religious	N/T	n/a
KCFO	970	General	M/T	Christian
KGTO	1050	General	M	Adult Standards
KVOO	1170	General	M	Country
KACC	1300	General	N/S/T	n/a
KTFX	1340	Black	M/T	Gospel
KQLL	1430	General	S	n/a
KXOJ	1550	General	M	Christian
KMYZ	1570	General	M	AOR

*Note: Stations included broadcast from the Tulsa metro area; n/a not available*

*The following abbreviations may be used:*

*Target Audience: A=Asian; B=Black; C=Christian; E=Ethnic; F=French; G=General; H=Hispanic;*

*M=Men; N=Native American; R=Religious; S=Senior Citizen; W=Women; Y=Young Adult; Z=Children*

*Station Format: E=Educational; M=Music; N=News; S=Sports; T=Talk*

*Music Format: AOR=Album Oriented Rock; MOR=Middle of the Road*

*Source: Burrelle's Media Directory, 2000*

**FM Radio Stations**

Call Letters	Freq. (mHz)	Target Audience	Station Format	Music Format
KWGS	89.5	General	M/N	Classical; Jazz
KNYD	90.5	Religious	E/M	Christian; Gospel
KBEZ	92.9	General	M	Adult Contemporary
KEMX	94.5	General	M	Christian
KWEN	95.5	General	M/N/S	Country
KRAV	96.5	General	M/N	Adult Contemporary
KMOD	97.5	G/M	M	AOR; MOR
KVOO	98.5	General	M	Country
KCKI	99.5	General	M	Country
KXOJ	100.9	General	M	Christian
KRTQ	102.3	General	M/N/S	Country
KJSR	103.3	General	n/a	n/a
KMYZ	104.5	General	M	Alternative
KQLL	106.1	General	M	Oldies
KHTT	106.9	General	M	n/a

*Note: Stations included broadcast from the Tulsa metro area; n/a not available*

*The following abbreviations may be used:*

*Target Audience: A=Asian; B=Black; C=Christian; E=Ethnic; F=French; G=General; H=Hispanic;*

*M=Men; N=Native American; R=Religious; S=Senior Citizen; W=Women; Y=Young Adult; Z=Children*

*Station Format: E=Educational; M=Music; N=News; S=Sports; T=Talk*

*Music Format: AOR=Album Oriented Rock; MOR=Middle of the Road*

*Source: Burrelle's Media Directory, 2000*

**CLIMATE**

**Average and Extreme Temperatures**

Temperature	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yr.
Extreme High (°F)	79	86	96	102	96	103	112	110	105	98	85	80	112
Average High (°F)	46	52	61	72	80	88	93	93	85	74	61	50	71
Average Temp. (°F)	36	41	50	61	69	78	83	82	74	63	50	40	61
Average Low (°F)	25	30	38	50	59	68	72	70	63	51	39	29	50
Extreme Low (°F)	-6	-7	-3	22	35	49	51	52	35	26	10	-8	-8

*Note: Figures cover the years 1948-1990*

*Source: National Climatic Data Center, International Station Meteorological Climate Summary, 9/96*

**Average Precipitation/Snowfall/Humidity**

Precip./Humidity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yr.
Avg. Precip. (in.)	1.6	1.9	3.2	3.7	5.6	4.3	3.4	3.0	4.1	3.5	2.6	1.9	38.9
Avg. Snowfall (in.)	3	2	2	Tr	0	0	0	0	0	Tr	1	2	10
Avg. Rel. Hum. 6am (%)	78	78	76	77	85	85	82	84	85	82	78	78	81
Avg. Rel. Hum. 3pm (%)	53	51	47	46	54	53	48	46	49	46	48	52	49

*Note: Figures cover the years 1948-1990; Tr = Trace amounts (<0.05 in. of rain; <0.5 in. of snow)*

*Source: National Climatic Data Center, International Station Meteorological Climate Summary, 9/96*

**Weather Conditions**

Temperature			Daytime Sky			Precipitation		
10°F & below	32°F & below	90°F & above	Clear	Partly cloudy	Cloudy	0.01 inch or more precip.	0.1 inch or more snow/ice	Thunderstorms
6	78	74	117	141	107	88	8	50

Note: Figures are average number of days per year and covers the years 1948-1990  
 Source: National Climatic Data Center, International Station Meteorological Climate Summary, 9/96

**HAZARDOUS WASTE**

**Superfund Sites**

Broken Arrow has no sites on the EPA's Superfund National Priorities List.  
 U.S. Environmental Protection Agency, National Priorities List, April 8, 2002

**AIR & WATER QUALITY**

**Maximum Pollutant Concentrations**

	Particulate Matter (ug/m <sup>3</sup> )	Carbon Monoxide (ppm)	Sulfur Dioxide (ppm)	Nitrogen Dioxide (ppm)	Ozone 1-hour (ppm)	Ozone 8-hour (ppm)	Lead (ug/m <sup>3</sup> )
MSA <sup>1</sup> Level	58	4	0.027	0.015	0.12	0.09	n/a
NAAQS <sup>2</sup>	150	9	0.140	0.053	0.12	0.08	1.50
Met NAAQS <sup>2</sup>	Yes	Yes	Yes	Yes	Yes	No	n/a

Note: (1) Metropolitan Statistical Area - see Appendix A for areas included; (2) National Ambient Air Quality Standards; n/a not available

Units: ppm = parts per million; ug/m<sup>3</sup> = micrograms per cubic meter

Source: EPA, Latest Findings on National Air Quality: 2000 Status and Trends, September 2001

**Pollutant Standards Index**

In the Tulsa MSA (see Appendix A for areas included), the Pollutant Standards Index (PSI) exceeded 100 on 10 days in 2000. A PSI value greater than 100 indicates that air quality would have been in the unhealthful range on that day.

EPA, Latest Findings on National Air Quality: 2000 Status and Trends, September 2001

**Watershed Health**

The U.S. Environmental Protection Agency monitors the health of the aquatic resources for the nation's 2,000+ watersheds. **The Polecat-Snake watershed serves the Broken Arrow area and received an overall Index of Watershed Indicators (IWI) score of 3 (less serious problems - low vulnerability).** The IWI score is based on seven condition and nine vulnerability indicators. The overall IWI score ranges from 1 (best health) to 6 (worst health). The Condition Indicators include: designated use attainment, fish and wildlife consumption advisories, source water condition, contaminated sediments, ambient water quality, and wetlands loss index. The Vulnerability Indicators include: aquatic species at risk, conventional and toxic loads over permitted limits, urban and agricultural runoff potential, population change, hydrologic modification, estuarine pollution susceptibility, and air deposition. EPA, Index of Watershed Indicators, October 26, 2001

**Drinking Water**

Water System Name	Pop. Served	Primary Water Source Type	Number of Violations 2000-2001		
			Health Based	Significant Monitoring	Monitoring
Broken Arrow WTP	74,859	Surface	2	None	None

Note: Data as of February 14, 2002

Source: EPA, Office of Ground Water and Drinking Water, Safe Drinking Water Information System