W 1200.6 LIIS 2002/1

5.8% 6.2%

5.0%

6.2% 6.2% 5.4%

5.3% 5.4% 5.0%

5.7% 5.6%

5.4%

NOVEMBER 2002

A MONTHLY NEWSLETTER OF THE TEXAS WORKFORCE COMMISSION

INDICATORS

ployment Rate
28
2002
2002
2001
Adjusted
2002
2002
2001
loyment Rate
25
2002
2002
2001
Adjusted
2002
2002
2001

Texas Nonagricultural Wage

9,453,000
9,200
-47,900
9,415,000
-7,300
-47,700

Initial Claims for

Unemploym	ent Benefits	
October	2002	101,668
September	2002	88,175
October	2001	111,582

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Texas Nonagricultural Wage and Salary Employmentory Dallas Public Library (Seasonally Adjusted)

otal Nonagricultural Employment in Texas fell by 7,300 positions in October. Government employment showed the largest increase over the month, while Construction, Manufacturing and Services experienced the largest employment losses. The annual growth rate for Total Nonagricultural Employment improved for the third consecutive month, climbing from -0.8 percent in September to -0.5 percent in October.

Government employment grew for the third straight month in October with a gain of 5,600 jobs. Federal Government led the way with the addition of 3,200 jobs, its largest monthly employment gain since May 2000 and its largest October gain in over a decade. Local Government followed with an increase of 1,900 jobs, while State Government contributed 500 jobs.

Construction employment fell by 4,300 jobs in October, the largest monthly loss this year. Special Trade Contractors was responsible for the bulk of the decline with a loss of 3,400 positions, its largest over-the-month decline in a decade. Employment in Heavy Construction fell by 900 jobs in October, its fourth consecutive month of job losses. Employment in General Building Contractors remained unchanged over the month.

Manufacturing continued to see employment reductions in October with a loss of 3,400 jobs. This industry has not experienced an over-the-month job gain in almost two years. Durable Goods Manufacturing lost 2,200 positions, while Nondurable Goods employment fell by 1,200. Within Durable Goods losses were widespread, while the loss in Nondurable Goods was centered in Apparel & Other Textiles. The garment industry was hit once again with plant closures and layoffs within the cities along the Texas-Mexico border. A total of 37,900 jobs have been shed in Manufacturing since October 2001, reflecting an annual growth rate of -3.7 percent.

The Services industry experienced a loss of 2,400 jobs in October. Business Services and Membership Organization Services displayed the largest drops, while Engineering & Management Services and Amusement & Recreation Services posted the largest gains seen within the industry. The annual growth rate for Services was 0.1 percent, the first positive over-the-year change in 2002.

Metropolitan Statistical Area (MSA) Employment (Non-Seasonally Adjusted)

otal Nonagricultural Employment in the MSAs grew by 12,200 positions, marking the largest October gain since 1999. Most of the new jobs came from the Government sector as schools continued to add staff for the fall term.

While the majority of the 19,600 Government jobs added in the MSAs were due to seasonal increases in State and Local Government, 2,700 Federal Government jobs were created as well. The Fort Worth-Arlington and Houston MSAs gained 1,100 and 800 Federal positions respectively, most of which were due to the federalization of airport security.

Inclement weather contributed to a 3,000-job loss in the Construction industry for the MSAs. The Fort Worth-Arlington MSA experienced the largest employment decline in this industry with a decrease of 1,300 jobs, while the Dallas and Houston MSAs lost a combined 1,100 positions.

Manufacturing employment in the MSAs fell by 2,300 positions in October, with ten of the twenty-seven MSAs showing job losses in this industry. The Dallas MSA posted the largest over-the-month drop at 500 jobs. The Austin-San Marcos MSA has lost 4,200 Manufacturing jobs since the beginning of the year-the largest yearto-date decline in this industry for any MSA.

Mining employment in the Houston MSA grew for only the second month this year following a gain of 600 positions in October. The Houston MSA has lost 2,000 Mining jobs since the beginning of the year and 2,100 jobs since October 2001.

LABOR MARKET INFORMATION DEPARTMENT www.texaworkforce.org/lmi



NOVEMBER 2002

Oct 2001 to Oct 2002 Growth

1.200

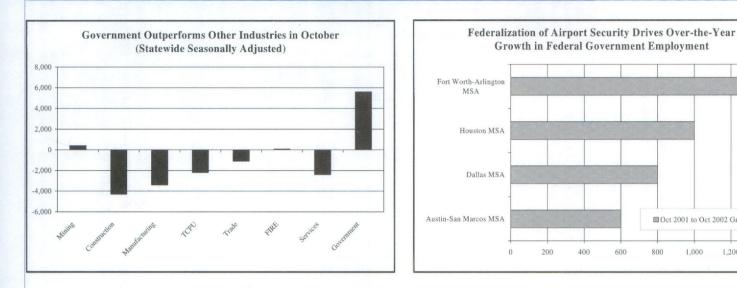
1.400

1.000

400

600

800



TEXAS AND U.S. CIVILIAN LABOR FORCE ESTIMATES

			TEXAS*			UNITED STATES**							
Actual		CLF	Employment	Unemp.	Rate	CLF	Employment	Unemp.	Rate				
October	'02	10,772,600	10,145,900	626,700	5.8	142,878,000	135,237,000	7,640,000	5.3				
September	'02	10,747,800	10,080,600	667,200	6.2	142,745,000	135,063,000	7,683,000	5.4				
October	'01	10,529,600	10,001,200	528,400	5.0	142,004,000	134,898,000	7,106,000	5.0				
Seas. Adjusted		CLF	Employment	Unemp.	Rate	CLF	Employment	Unemp.	Rate				
October	'02	10,760,600	10,095,400	665,200	6.2	143,123,000	134,914,000	8,209,000	5.7				
September	'02	10,741,900	10,080,600	661,300	6.2	143,277,000	135,185,000	8,092,000	5.6				
October	'01	10,513,000	9,949,900	563,100	5.4	142,280,000	134,615,000	7,665,000	5.4				

Note: Only the actual series estimates for Texas and the U.S. are comparable to sub-state estimates. Current month estimates for Texas are preliminary. All estimates are subject to revision. In seasonally adjusted estimates all elements of seasonality are factored out to achieve an estimate which reflects the basic underlying trend.

*Source - Labor Market Information Department, Texas Workforce Commission (model-based methodology)

**Source - Bureau of Labor Statistics, U.S. Department of Labor (Current Population Survey)

TEXAS NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT SEASONALLY ADJUSTED⁺

				Sep. '02 to	Oct. '02	Oct. '01 to	Oct. '02
INDUSTRY TITLE	Oct. 2002*	Sep. 2002	Oct. 2001	Absolute	Percent	Absolute	Percent
				Change	Change	Change	Change
TOTAL NONAG. W&S EMPLOYMENT	9,415,000	9,422,300	9,462,700	-7,300	-0.1	-47,700	-0.5
GOODS PRODUCING	1,704,900	1,712,200	1,754,600	-7,300	-0.4	-49,700	-2.8
Mining	156,400	156,000	163,000	400	0.3	-6,600	-4.0
Construction	552,900	557,200	558,100	-4,300	-0.8	-5,200	-0.9
Manufacturing	995,600	999,000	1,033,500	-3,400	-0.3	-37,900	-3.7
Durable Goods	602,500	604,700	629,300	-2,200	-0.4	-26,800	-4.3
Nondurable Goods	393,100	394,300	404,200	-1,200	-0.3	-11,100	-2.7
SERVICE PRODUCING	7,710,100	7,710,100	7,708,100	0	0.0	2,000	0.0
Transportation, Comm., Utilities	571,200	573,400	587,400	-2,200	-0.4	-16,200	-2.8
Trade	2,236,400	2,237,500	2,252,400	-1,100	0.0	-16,000	-0.7
Wholesale Trade	521,400	521,900	528,500	-500	-0.1	-7,100	-1.3
Retail Trade	1,715,000	1,715,600	1,723,900	-600	0.0	-8,900	-0.5
Finance, Insurance, & Real Estate	530,000	529,900	534,200	100	0.0	-4,200	-0.8
Services	2,739,300	2,741,700	2,737,900	-2,400	-0.1	1,400	0.1
Government	1,633,200	1,627,600	1,596,200	5,600	0.3	37,000	2.3

Note: The number of nonagricultural jobs in Texas is without reference to place of residence of workers.

*Estimates for the current month are preliminary. All estimates are subject to revision.

*All elements of seasonality are factored out to achieve an estimate which reflects the basic underlying trend.

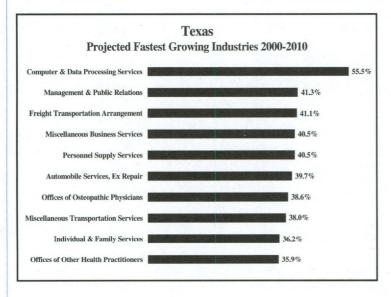
The Goods Producing Sector and Wholesale Trade estimates are probability-based. (See text box on page 9 for more information)

The Texas Economy: What's Next? Industry Projections 2000-2010

by Rene Cantu

Texas' economy has recently undergone many changes and is expected to continue to change. With evolving business practices and technological advances, Texans and Texas businesses will have to meet the new employment uncertainty by being informed. The business cycle has done its impression of a roller coaster by taking the economy as high as it has ever been then bringing it back down. Since the late 1990s and early 2000, the economy has "bobbed and weaved" like a prizefighter doing more bobbing than weaving. Texas plays a major role in the national economy, ranking second in population and labor force. Where will Texas' employment be ten years from now? What industries will be responsible for the most job growth? The Texas Labor Market Information Department recently completed its 2000-2010 employment projections, the results of which should help answer some of these important questions.

Employment in Texas is projected to increase from 9.7 million to 11.5 million over the 2000-2010 period. The growth (18.2 percent) is slower than that experienced during the previous decade of 22.5 percent. Texas, once again, is expected to outpace the projected national annual average of 1.4 percent, increasing by an average of 176,146 jobs per year for the projection period. While Texas is still adding jobs, the rate at which it is doing so has been declining since September 1997.



Continuing the 1990-2000 historical trend, virtually all non-farm wage and salary employment growth will be generated by the Service Producing Sector. The Services industry division represents the strongest growth within this sector, both in terms of absolute and percent change. The Services industries will account for more than half of all new jobs from 2000-2010, which is a continuation of the 1990-2000 share of employment growth. Employment in the Services industry is projected to increase from 3.6 million jobs in 2000 to 4.5 million jobs in 2010, for the highest annual growth rate for any industry division at 2.7 percent. *Business Services, Health Services*, and *Educational Services* will account for over 70 percent of this growth. Within *Business Services*, *Personnel Supply Services* is projected to add the greatest number of jobs, 103,960, a growth rate of over 40 percent. Staffing services will be responsible for the majority of this industry's growth, as businesses endeavor to become more responsive to changes in market demand. As companies also strive to reduce costs by contracting out their preliminary employment screening tasks, this sector's employment agency portion will experience growth as well.

Computer & Data Processing Services and *Miscellaneous Business Services* are projected to experience some of the largest growth among all industries, with growth rates of over 55 percent and over 40 percent, respectively. The persistent evolution of technology and business' constant efforts to absorb and integrate these resources in order to enhance their productivity and expand their market opportunities will be the growth catalysts in *Computer & Data Processing Services*. *Miscellaneous Business Services* provides a wide variety of services ranging from credit reporting and collection agencies to photocopying, graphic design, and paralegal services.

The *Health Services* sector is projected to add 191,050 jobs, a growth of over 25 percent by 2010. Workers in *Hospitals, Public & Private, Offices & Clinics of Medical Doctors*, and *Home Health Care Services* will continue to be needed to address the healthcare needs of an aging "baby boomer" population. Further advances in medical technology will also necessitate the need for new workers in these industries.

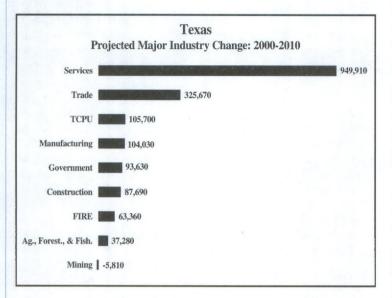
The Trade industry is projected to increase by over 325,600 jobs. The largest gains in *Wholesale Trade* are expected to be in *Groceries & Related Products* and *Professional & Commercial Equipment*, adding just over 11,900 jobs and 10,680 jobs respectively. In *Retail Trade, Department Stores* and *Grocery Stores* are expected to add almost 150,600 jobs during the projection period. Employment in *Eating and Drinking Places* is projected to increase by 125,790 positions as Texans continue to dine out. Demographic factors such as increases in population, personal incomes, leisure time, and dual-income families will contribute to the expected employment gains in this industry. However, the rate of growth in the Trade industry is expected to be limited by consolidations and advancements in productivity-enhancing technology such as e-commerce.

Employment in the Transportation & Public Utilities industry is projected to grow by 105,700, a 16.5 percent increase by 2010. This is the second fastest employment growth, by industry, behind the Services industries. *Transportation* will contribute 71,160 of these jobs. Nearly 70 percent of these positions are anticipated in *Trucking & Warehousing* and *Transportation by Air*. The effect of electronic commerce and expansion into logistical services such as computer inventory management and just-in-time shipping has been the driving force for growth in these industries. As manufacturers improve supply chain efficiencies by outsourcing their distribution needs, the trucking and warehouse industries will have an even more visible roles in the economy. *Telephone Communications* is projected to dominate the *Communications* industry as strong residential and business demand

Continued on page 4

Continued from page 3

for improved wireline and wireless systems will ensure this industry's prolonged growth. Technology and competition are expected to continue working concurrently to lower prices, increase demand, and spur new innovations. Gains in *Telephone Communications* are predicted to account for 83 percent of the growth, or 25,230 jobs, in *Communications*.



The Manufacturing industry is expected to add 104,030 jobs, a growth of nearly 10 percent for the projection period. Most of the expected growth is due to gains made in industries that manufacture durable goods. The Durable Goods industry is predicted to increase 1.0 percent a year from 2000 to 2010. Industrial Machinery & Equipment, Fabricated Metal Products, and Electronic & Other Electrical Equipment lead the way by adding 47,480 jobs by 2010. This is driven by the demand for computers, electronic components, and communication equipment. Electronic components will continue to perform a vital function in nearly any new technology developed within the next decade. Its end products are used as components in the aggressively growing communications and computer industries. Over the next ten years, employment in the Nondurable Goods Manufacturing industry is expected to increase as well. The industry is predicted to add 31,800 jobs by 2010, increasing by 7.5 percent. The industries adding to the increase in Nondurable Goods are Chemicals & Allied Products and Rubber & Miscellaneous Plastics Products, adding a combined 16,170 jobs during the projection period. Chemicals & Allied Products is driven by the Drugs and Plastics Materials & Synthetics sectors. The Drugs industry benefits from a growing population demanding illness prevention products; the development of new lifestyle drugs aimed at enhancing ones selfconfidence and physical appearance; and longer life expectancies. Plastics Materials & Synthetics is aided by advanced polymers and plastics that are being utilized for commodities production ranging from durable automobile body panels to prosthetic limbs. Printing & Publishing and Food & Kindred Products also contribute to the growth in Nondurable Goods. Commercial Printing drives the Printing & Publishing sector, with an expected increase of 4,750 jobs by 2010. Meat Products dominates the Food & Kindred Products sector with a predicted increase of 5,240 jobs, for a growth rate of 14.7 percent by 2010.

The public sector is expected to add 93,630 jobs by 2010, an increase of 15.4 percent. Growth in this sector is driven by *State and Local Government, Excluding Education & Hospitals* which is predicted to gain 91,580 jobs. *Federal Government, Excluding Postal Services* is projected to grow by 1.6 percent, or 2,050 jobs. This is the slowest growth rate expected for any of the three government sectors and is due to potential budgetary constraints, the growing use of private contractors and the transfer of some functions to state and local governments.

The Construction industry is predicted to experience the third fastest growth rate of 15.8 percent, adding approximately 87,690 jobs to the labor market by the year 2010. The Special Trade Contractors sector will lead the way with a projected job growth of nearly 59,000, an 18 percent increase by 2010. Electrical Work and Plumbing, Heating, & Air Conditioning are expected to add over 14,740 and 11,310 jobs respectively. General Contractors, Excluding Buildings will add over 16,300 jobs, a growth rate of 12.8 percent. Within General Building Contractors, Residential and Nonresidential Building Construction is expected to add 12,070 jobs by 2010. Residential Construction is expected to benefit from the baby boomers in the 45-64 age cohort, whose demand for upgraded homes, second homes, and assisted living housing will increase. Nonresidential Construction can look forward to the current absorption of the 1980s excess industrial plant capacity, in addition to the need to replace or upgrade these existing facilities, boding well for its future growth.

Finance, Insurance, and Real Estate industries are projected to grow at a moderate rate of just over 12 percent from 2000-2010. This reflects an annual growth rate of 1.2 percent, which is slower than the total nonfarm employment increase of 1.8 percent. The industry's anticipated growth will result, in part, because of deregulation, industry consolidation, heightened competition, and technology-driven productivity gains. *Nondepository Institutions* and *Real Estate* contribute over 25,000 jobs. The *Real Estate* industry will continue to see productivity and efficiency increases as agents use the Internet to disseminate housing, credit, and payment information, along with wireless products that can transmit data on site.

Mining is the only major industry predicted to experience a decline in Texas by 2010. This industry is expected to lose 5,810 jobs, at a rate of -0.4 percent per year for the projection period. Losses are expected due to the use of more efficient and automated production methods that require fewer on-site workers. Stringent environmental regulations that mandate the reduction of sulfur emissions from coal combustion are also expected to dampen demand for the Mining industry's output. *Crude Petroleum & Natural Gas* is projected to shed 8,870 jobs by 2010. Fluctuations in global oil and gas prices, potential access to Federal lands, strict environmental regulations that require cleaner burning fuels, foreign competition, as well as new technology and extraction techniques, will significantly effect this industry. Accounting for the majority of this sector's employment, the *Oil & Gas Field Services* industry will be responsible for 71,820 jobs in 2010, roughly the same amount that existed in 2000.

To view the complete list of 2000-2010 employment projections, go to www.texasworkforce.org/lmi/lfs/type/projections/ projectionshome.html or contact the LMI Department.

Highlights of Local Area Unemployment Statistics (Not Seasonally Adjusted)

The Texas actual (non-seasonally adjusted) unemployment rate declined for the fourth consecutive month, falling by four-tenths of a percentage point from September's rate of 6.2 percent to 5.8 percent in October. October's rate is the highest Texas has encountered for the month since 1993 when it reached 6.5 percent. Though the rate is eight-tenths of a percentage point higher than last October's 5.0 percent, this year's monthly decrease matches the average four-tenths of a percentage point reduction typically seen between September and October. The U.S. unemployment rate dipped for a third straight month, slipping by one-tenth of a percentage point to 5.3 percent in October. Since May, the state rate has been higher than the national rate by an average of six-tenths of a percentage point.

Labor force employment grew for the second month in October, rising by 65,300 statewide. This gain boosted September's employment level of 10,080,600 to 10,145,900 in October. October's addition was aided by an increase in demand for seasonal workers for the upcoming holiday season. The monthly increase was slightly higher than the typical gain of 56,400 seen between September and October. This October's employment level was 144,700 higher than last October's 10,001,200. Since 1996, September-to-October employment gains have been occurring at a decreasing rate, falling from 85,100 to 51,200 in 2001. Much of this can be attributed to the ever tightening labor market Texas experienced during the 1990s. This October's larger than expected increase may indicate that the labor market is entering a more stable growth pattern.

The number of unemployed Texans decreased for the fourth consecutive month, declining by 40,500 from 667,200 in September to 626,700 in October. Typically, unemployment falls by an average of 30,500 in October. Though October's unemployment level was the highest reported for the month since 1992, it also represented the largest reduction for the month since 1998. Even with October's larger than anticipated reduction, the overall level was still 98,300 higher than last year's level of 528,400.

The number of claims for unemployment benefits without earnings fell for the third straight month, with October claims dipping by 5,600 from 161,900 in September to 156,300 in October. During 2001, claims increased for ten out of the twelve months of the year. This year, claims activity has decreased, with six months of the year experiencing over-the-month reductions in reported claims – signaling a possible slowing of layoff activity across the state. Year to date, claims have fallen by 33,000 and are at their lowest level since October of 2001. Despite this year-to-date decline, claims levels in October were 9,600 higher than last year's level of 146,700.

				(In]	Fhousands)						
		October 2	002*	1	19.5	September	· 2002			October 2	2001	
	C.L.F.	Emp.	Unemp.	Rate	C.L.F.	Emp.	Unemp.	Rate	C.L.F.	Emp.	Unemp.	Rate
State of Texas	10,772.6	10,145.9	626.7	5.8	10,747.8	10,080.6	667.2	6.2	10,529.6	10,001.2	528.4	5.0
Abilene	56.5	54.3	2.2	3.8	56.7	54.3	2.4	4.2	57.2	55.2	2.0	3.5
Amarillo	113.2	109.2	4.0	3.6	112.8	108.5	4.3	3.8	112.4	108.9	3.5	3.1
Austin-San Marcos	777.6	738.2	39.4	5.1	773.0	730.5	42.5	5.5	761.2	725.7	35.5	4.7
Beaumont-Port Arthur	178.9	165.3	13.6	7.6	178.8	164.0	14.8	8.3	176.3	162.9	13.4	7.6
Brazoria	110.7	103.2	7.5	6.8	111.2	102.7	8.5	7.7	108.0	101.9	6.1	5.6
Brownsville-Harlingen	136.5	122.6	13.9	10.2	136.2	121.8	14.4	10.6	133.4	120.7	12.7	9.5
Bryan-College Station	79.5	78.1	1.4	1.7	78.2	76.8	1.4	1.8	80.4	79.2	1.2	1.5
Corpus Christi	178.4	168.2	10.2	5.7	177.9	166.9	11.0	6.2	173.2	163.9	9.3	5.4
Dallas	2,065.2	1,931.1	134.1	6.5	2,059.6	1,916.8	142.8	6.9	2,025.1	1,911.9	113.2	5.6
El Paso	288.2	263.9	24.3	8.4	286.5	262.6	23.9	8.4	284.3	261.1	23.2	8.1
Fort Worth-Arlington	956.2	902.7	53.5	5.6	953.8	897.0	56.8	6.0	934.9	892.3	42.6	4.6
Galveston-Texas City	119.9	111.5	8.4	7.0	119.9	110.5	9.4	7.8	117.5	110.4	7.1	6.0
Houston	2,274.4	2,147.6	126.8	5.6	2,275.6	2,140.4	135.2	5.9	2,221.2	2,123.5	97.7	4.4
Killeen-Temple	118.9	113.0	5.9	5.0	118.4	112.4	6.0	5.1	117.2	112.0	5.2	4.4
Laredo	78.0	73.0	5.0	6.4	77.8	72.5	5.3	6.8	75.3	70.7	4.6	6.1
Longview-Marshall	104.3	97.9	6.4	6.1	103.6	96.6	7.0	6.8	102.9	97.4	5.5	5.3
Lubbock	133.1	129.7	3.4	2.6	129.6	125.9	3.7	2.8	129.0	126.3	2.7	2.1
McAllen-Edinburg-Mission	215.1	190.1	25.0	11.6	213.2	186.2	27.0	12.7	203.5	180.9	22.6	11.1
Odessa-Midland	123.9	116.9	7.0	5.6	124.4	116.7	7.7	6.2	121.4	116.8	4.6	3.8
San Angelo	51.7	49.9	1.8	3.6	51.7	49.8	1.9	3.8	50.1	48.7	1.4	2.9
San Antonio	814.6	774.9	39.7	4.9	813.9	772.1	41.8	5.1	795.8	761.9	33.9	4.3
Sherman-Denison	49.5	46.6	2.9	5.9	49.9	46.7	3.2	6.5	50.0	46.8	3.2	6.4
Texarkana	56.6	53.9	2.7	4.7	56.4	53.5	2.9	5.1	55.3	53.0	2.3	4.2
Tyler	95.5	91.7	3.8	4.0	95.3	91.1	4.2	4.4	93.9	88.8	5.1	5.4
Victoria	45.3	43.1	2.2	4.8	45.1	42.7	2.4	5.3	44.0	42.3	1.7	3.9
Waco	102.4	98.2	4.2	4.1	102.2	97.6	4.6	4.5	101.7	97.8	3.9	3.8
Wichita Falls	65.1	61.5	3.6	5.5	64.8	60.9	3.9	6.0	63.4	61.4	2.0	3.2

Civilian Labor Force Estimates for Texas Metropolitan Statistical Areas

*Estimates for the current month are preliminary. All estimates are subject to revision. Estimates reflect actual (not seasonally adjusted) data. Civilian Labor Force (C.L.F.) includes wage and salary workers, self-employed, unpaid family, domestics in private households, agricultural workers, workers involved in labor disputes and the unemployed, all by place of residence. Employment and Unemployment data are first rounded then added together to derive the rounded CLF total. Because of this rounding technique, this rounded total of the CLF may not agree with a rounding of the CLF total itself. Percent Unemployed is based upon unrounded Labor Force, Employment and Unemployment numbers. Estimates of the TWC are in cooperation with the Bureau of Labor Statistics, U.S. Department of Labor.

T E X A S L A B O R M A R K E T R E V I E W

NOVEMBER 2002

County	Emp.	Unemp.	Rate	County	Emp.	Unemp.	Rate	County	Emp.	Unemp.	Rate	County	Emn.	Unemp.	Rate
Anderson	19,327	924	4.6	Donley	1,599	49	3.0	Kaufman	33,391	2,918	8.0	Real	1,293	49	
Andrews	4,864	253	4.9	Duval	5,113	504	9.0	Kaufman Kendall	16,756		2.9	Red River	4,869		
	34,901	2,159	5.8	Eastland	9,464	326	3.3		228	504 5	2.9	Reeves		340	
Angelina Aransas		572	5.2	Eastand				Kenedy	375	9			5,339	1,240	
Archer	10,363 3,954	134	3.3	Edwards	57,260 769	4,361 35	7.1	Kent Kerr			2.3	Refugio Roberts	2,356 390	110	
	1,086	134	1.3	Ellis	56,209	3,190	4.4 5.4	Kimble	18,074	570	3.1 1.8	Robertson		5 338	
Armstrong Atascosa	19,222	1,001	4.9	El Paso	263,889		8.4	King	2,350 175	42 5	2.8	Rockwall	6,407		
Austin	19,222	535	3.6	Erath	17,009	24,296 387	2.2	Kinney	1,099	52	4.5	Runnels	23,077 4,796	1,320 169	
Bailey	3,553	148	4.0	Falls		256	3.3		,	680	5.2	Rusk			
Bandera	7,476	248	3.2	Fannin	7,450		7.6	Kleberg	12,448	77	3.5		21,266	1,179	
					12,523	1,027		Knox	2,146			Sabine	3,723	427	
Bastrop	29,272 1,591	1,728	5.6	Fayette	11,240	314	2.7	Lamar	20,707	1,325	6.0	San Augustine	3,122	216	
Baylor Bee	9,924	73	4.4	Fisher	1,803	75	4.0	Lamb	6,420	288	4.3	San Jacinto	9,852	436	
Bell	92,102	560 4,914	5.3 5.1	Floyd Foard	3,132 683	195 45	5.9	Lampasas	9,824	316	3.1	San Patricio	28,762	1,680	
Bexar	674,870		4.8	Fort Bend	190,509		6.2	La Salle	2,508	169	6.3	San Saba	2,689	73	
Blanco		34,311				8,802	4.4	Lavaca	7,989	162	2.0	Schleicher	1,598	42	
Borden	3,705 417	155	4.0	Franklin	4,728	156	3.2	Lee	6,404	265	4.0	Scurry	7,075	300	
			1.0	Freestone	8,461	389	4.4	Leon	6,649	422	6.0	Shackelford	1,365	61	4.3
Bosque	6,281	316	4.8	Frio	5,300	459	8.0	Liberty	28,545	2,398	7.7	Shelby	8,504	607	6.7
Bowie	37,055	2,014	5.2	Gaines	6,424	244	3.7	Limestone	9,890	413	4.0	Sherman	1,979	26	
Brazoria	103,228	7,490	6.8	Galveston	111,521	8,369	7.0	Lipscomb	1,491	35	2.3	Smith	91,714	3,819	4.0
Brazos	78,143	1,381	1.7	Garza	2,784	96	3.3	Live Oak	4,474	131	2.8	Somervell	2,231	155	
Brewster	5,889	127	2.1	Gillespie	9,991	220	2.2	Llano	5,399	237	4.2	Starr	17,679	3,223	
Briscoe	836	35	4.0	Glasscock	690	16	2.3	Loving	52	2	3.7	Stephens	3,500	295	
Brooks	3,643	267	6.8	Goliad	2,634	138	5.0	Lubbock	129,723	3,416	2.6	Sterling	581	21	3.5
Brown	17,124	914	5.1	Gonzales	7,568	394	4.9	Lynn	2,507	101	3.9	Stonewall	548	19	3.4
Burleson	7,276	349	4.6	Gray	8,336	429	4.9	Mc Culloch	3,175	120	3.6	Sutton	2,077	52	
Burnet	14,978	741	4.7	Grayson	46,615	2,912	5.9	Mc Lennan	98,210	4,187	4.1	Swisher	3,377	110	
Caldwell	16,682	1,070	6.0	Gregg	55,524	3,869	6.5	Mc Mullen	292	9	3.0	Tarrant	779,944	46,668	5.6
Calhoun	9,190	685	6.9	Grimes	8,090	652	7.5	Madison	4,426	150	3.3	Taylor	54,313	2,166	
Callahan	6,922	267	3.7	Guadalupe	43,824	2,304	5.0	Marion	3,094	223	6.7	Terrell	648	21	3.1
Cameron	122,603	13,923	10.2	Hale	16,618	760	4.4	Martin	2,026	70	3.3	Terry	5,445	234	4.1
Camp	5,445	327	5.7	Hall	2,008	75	3.6	Mason	1,458	30	2.0	Throckmorton	712	23	
Carson	3,121	110	3.4	Hamilton	4,489	94	2.1	Matagorda	14,451	1,622	10.1	Titus	12,903	665	4.9
Cass	13,923	921	6.2	Hansford	2,480	49	1.9	Maverick	14,127	3,324	19.0	Tom Green	49,882	1,843	3.6
Castro	3,169	117	3.6	Hardeman	1,843	89	4.6	Medina	14,970	696	4.4	Travis	481,994	26,421	5.2
Chambers	11,762	601	4.9	Hardin	21,667	1,680	7.2	Menard	896	23	2.5	Trinity	4,566	260	
Cherokee	18,224	844	4.4	Harris	1,758,661		5.8	Midland	59,650	2,609	4.2	Tyler	6,081	687	10.2
Childress	3,110	87	2.7	Harrison	26,113	1,643	5.9	Milam	9,178	570	5.8	Upshur	16,218	867	5.1
Clay	5,447	244	4.3	Hartley	2,983	29	1.0	Mills	2,474	54	2.1	Upton	1,594	63	3.8
Cochran	1,195	115	8.8	Haskell	3,430	113	3.2	Mitchell	3,261	134	3.9	Uvalde	9,855	903	8.4
Coke	1,441	42	2.8	Hays	54,884	2,964	5.1	Montague	6,553	396	5.7	Val Verde	17,605	1,001	5.4
Coleman	2,869	220	7.1	Hemphill	1,920	30	1.5	Montgomery	145,357	6,645	4.4	Van Zandt	20,571	1,008	4.7
Collin	285,210	18,717	6.2	Henderson	30,453	1,553	4.9	Moore	9,379	314	3.2	Victoria	43,093	2,154	4.8
Collingswortl	1,915	19	1.0	Hidalgo				Morris	6,098	467	7.1	Walker	22,169	593	2.6
Colorado	8,076	288	3.4	Hill	14,869	778	5.0	Motley	614	9	1.4	Waller	12,761	847	6.2
Comal	40,271	2,458	5.8	Hockley	11,508	391	3.3	Nacogdoches	27,285	980	3.5	Ward	3,495	312	
Comanche	6,291	190	2.9	Hood	17,326	974	5.3	Navarro	21,573	1,235	5.4	Washington	14,756	391	2.6
Concho	1,623	28	1.7	Hopkins	14,008	670	4.6	Newton	4,829	980	16.9	Webb	72,951	4,996	6.4
Cooke	17,812	722	3.9	Houston	10,197	413	3.9	Nolan	6,643	288	4.2	Wharton	18,548	1,008	5.2
Coryell	20,911	994	4.5	Howard	13,984	777	5.3	Nueces	139,395	8,473	5.7	Wheeler	2,613	89	3.3
Cottle	864	23	2.6	Hudspeth	1,434	73	4.8	Ochiltree	4,786	108	2.2	Wichita	57,503	3,434	
Crane	1,278	216	14.5	Hunt	36,337	2,148	5.6	Oldham	1,229	21	1.7	Wilbarger	7,585	239	
Crockett	1,703	61	3.5	Hutchinson	8,728	638	6.8	Orange	37,176	3,526	8.7	Willacy	4,971	865	
Crosby	3,040	113	3.6	Irion	815	19	2.3	Palo Pinto	11,328	593	5.0	Williamson	155,338	7,249	4.5
Culberson	936	89	8.7	Jack	3,041	105	3.3	Panola	7,833	532	6.4	Wilson	15,889	606	
Dallam	3,577	88	2.4	Jackson	8,107	314	3.7	Parker	43,088	2,046	4.5	Winkler	2,691	324	
Dallas	1,210,354		7.1	Jasper	12,405		11.1	Parmer	4,370	80	1.8	Wise	25,974	1,083	4.0
Dawson	6,325	279	4.2	Jeff Davis	1,217	28	2.2	Pecos	5,543	406	6.8	Wood	13,912	701	4.8
Deaf Smith	6,974	368	5.0	Jefferson	106,413	8,431	7.3	Polk	13,663	849	5.9	Yoakum	3,002	131	4.2
Delta	2,395	127	5.0	Jim Hogg	1,965	145	6.9	Potter	52,215	3,197	5.8	Young	7,747	406	5.0
Denton	256,036	11,786	4.4	Jim Wells	18,196	1,280	6.6	Presidio	2,622	753	22.3	Zapata	4,699	382	7.5
De Witt	8,476	345	3.9	Johnson	62,303	3,795	5.7	Rains	3,667	190	4.9	Zavala	3,492	481	12.1
Dickens	667	19	2.8	Jones	8,891	331	3.6	Randall	56,970	826	1.4				
Dimmit	3,282	356	9.8	Karnes	5,793	298	4.9	Reagan	1,668	47	2.7	1			

Estimates reflect actual (not seasonally adjusted) data. Estimates are preliminary and subject to revision. To obtain the civilian labor force, add total employment to total unemployment. Estimates of the TWC are in cooperation with the Bureau of Labor Statistics, U.S. Department of Labor.

NOVEMBER 2002

Employment and Unemployment Estimates for Texas Cities - October 2002

City	Emp	Unemp		ployment and									Error	Unor	Det
v		*			a second s	Unemp				Unemp		City	-	Unemp	
Abilene Addison	47,968	2,010	4.0	Denton	56,939	3,851	6.3	La Joya	1,107	233		Quanah	1,148	64	
Alamo	8,043 2,500	460 249	5.4 9.1	Diboll Dickinson	1,677 4,857	442	11.2	La Marque La Porte	6,645	727	9.9	Rankin	359	20	
Alamo Heights	4,269	109	2.5	Donna	5,754	1,003	8.3		17,417	787	4.3	Raymondville	2,478		15.7
Aldine	6,096	450	6.9	Dripping Springs	836	1,003	2.8	Lago Vista Lake Jackson	1,533 13,752	94 629	5.8	Rendon Richardson	4,852	238	
Alice	9,612	666	6.5	Dumas	6,838	235	3.3	Lakeway	2,947	84	2.8	Richland Hills	55,813 4,986	2,992 210	
Allen	19,697	1,186	5.7	Duncanville	23,906	1,303	5.2	Lamesa	4,669	249	5.1	Richmond	7,379	725	
Alton	1,404	219		Eagle Pass	8,394	1,739		Lampasas	4,255	181	4.1	Rio Grande City	4,942	669	
Alvarado	1,599	53	3.2	Edcouch	1,155		19.2	Lancaster	14,048	912	6.1	River Oaks	3,670	297	7.5
Alvin	10,827	698	6.1	Edinburg	16,649	1,910		Laredo	68,385	4,545	6.2	Roanoke	1,439	66	
Amarillo	90,937	3,629	3.8	El Campo	4,729	295	5.9	League City	18,018	580	3.1	Robert Lee	541	16	
Anderson Mill	10,929	567	4.9	El Paso	237,999	20,932	8.1	Leander	3,609	107	2.9	Robinson	4,330	82	1.9
Andrews	3,581	196		Eldorado	1,003	35	3.4	Leon Valley	6,542	214	3.2	Robstown	4,496	413	
Angleton	9,596	712	6.9	Electra	1,297	87	6.3	Levelland	6,731	218	3.1	Rockdale	1,907	112	
Arlington	190,546	9,905	4.9	Elgin	3,243	265	7.6	Lewisville	45,644	1,868	3.9	Rockwall	9,446	697	6.9
Athens Atlanta	6,042 3,035	317 160	5.0 5.0	Elsa Ennis	2,426		10.9	Liberty	4,166		11.6	Rosenberg	15,935	935	
Austin	389,728		5.5	Euless	8,545	553 1,280	6.1	Linden	1,082	61	5.3	Round Rock	35,469	1,530	
Azle	5,779	340	5.6	Everman	30,111 3,432	350	4.1 9.3	Littlefield Live Oak	2,741 6,841	128 185	4.5	Rowlett Saginaw	16,819 5,623	619	
Balch Springs	10,727	666	5.8	Fabens	1,971		11.9	Llano	1,730	97	5.3	San Angelo	5,625	458	
Bastrop	2,927	262	8.2	Fairfield	1,688	57	3.3	Lockhart	5,564	422	7.0	San Antonio	529,051		
Bay City	7,279	827	10.2	Falfurrias	2,450	94	3.7	Longview	37,549	2,699	6.7	San Benito	9,361	1,116	
Baytown	34,954	2,460	6.6	Farmers Branch	16,698	1,082	6.1	Lubbock	109,569	2,903	2.6	San Juan	5,432	657	
Beaumont	52,470	4,020	7.1	First Colony	15,691	338	2.1	Lufkin	15,370	904	5.6	San Marcos	22,934	1,829	
Bedford	34,388	1,238	3.5	Flower Mound	13,908	534	3.7	Lumberton	4,092	191	4.5	Santa Fe	4,463	249	
Beeville	5,449	362	6.2	Forest Hill	7,028	443	5.9	Mc Allen	49,219	4,437	8.3	Schertz	7,473	377	
Bellaire	9,982	227	2.2	Fort Stockton	3,262	271	7.7	Mc Gregor	2,292	85	3.6	Seabrook	5,457	227	4.0
Bellmead	4,115	148	3.5	Fort Worth	269,512	21,611	7.4	Mc Kinney	18,983	2,228	10.5	Seagoville	4,768	411	7.9
Belton	6,368	330	4.9	Fredericksburg	3,709	82	2.2	Mansfield	9,945	538	5.1	Seguin	11,184	819	
Benbrook	13,907	520	3.6	Freeport	5,359		12.5	Marble Falls	2,981	104	3.4	Seminole	3,195	87	2.7
Bertram Big Lake	519 1,298	45 43	8.0 3.2	Friendswood	14,268	517	3.5	Marlin	2,631	119	4.3	Sherman	15,705	1,083	
Big Lake Big Spring	9,568	597	5.9	Frisco Gainesville	6,291 7,654	494 368	7.3 4.6	Marshall Marshall Creek	10,324 232	658 17	6.0 6.8	Silsbee Sinton	3,208	292	
Blanco	701	39	5.3	Galena Park	4,885	362	6.9	Mason	802	29	3.5	Smithville	2,372 2,075	167 139	6.6 6.3
Bonham	2,959	337	10.2	Galveston	28,967	2,879	9.0	Mathis	2,015	205	9.2	Snyder	4,731	217	4.4
Borger	5,356	458	7.9	Garland	123,623	7,231	5.5	Memphis	1,230	56	4.4	Socorro	9,088	1,423	
Bowie	1,825	125	6.4	Gatesville	3,371	139	4.0	Menard	616	23	3.6	Sonora	1,383	33	
Brady	1,982	85	4.1	Georgetown	14,766	845	5.4	Mercedes	5,690	944	14.2	South Houston	7,379	541	6.8
Brenham	6,323	196	3.0	Gladewater	2,786	237	7.8	Merkel	1,108	66	5.6	South Padre Island	1,287	43	
Bridge City	3,760	321	7.9	Glen Rose	629	79	11.2	Mertzon	364	8	2.2	Southlake	5,054	157	3.0
Bridgeport	2,379	104	4.2	Graham	3,835	205	5.1	Mesquite	68,420	3,868	5.4	Spring	22,027	846	
Brownsville	45,295			Granbury	2,430	97	3.8	Mexia	3,153	149	4.5	Stafford	7,543	347	4.4
Brownwood	8,727	549	5.9	Grand Prairie	64,336	4,528	6.6	Midland	50,301	2,176	4.1	Stanton	1,045	42	
Bryan	37,082	665	1.8	Grapevine	21,752	684	3.0	Midlothian	3,450	199	5.5	Stephenville	8,333	230	
Buda Burkburnett	1,589 5,080	55 358	3.3	Greenville Gregory	12,918	759 84	5.5 6.1	Mineral Wells	6,359	415	6.1	Sterling City	433	21	4.6
Burleson	10,718	639	5.6	Groesbeck	1,295 1,472	66	4.3	Mission Bend Mission	19,914 13,785	677 1,501	3.3 9.8	Sugar Land	21,533	818	
Cameron	2,159	173	7.4	Groves	7,204	338	4.5	Missouri City	33,036	989	2.9	Sulphur Springs Sweetwater	6,674 4,694	386 231	5.5 4.7
Canyon	7,010	125	1.8	Haltom City	21,113	1,232	5.5	Monahans	2,177	201	8.5	Taylor	10,490	861	7.6
Canvon Lake	7,334	623	7.8	Harker Heights	6,571	215	3.2	Mount Pleasant	6,587	237	3.5	Temple	27,101	1.051	3.7
Carrollton	71,705	3,019	4.0	Harlingen	26,022	2,056	7.3	Mount Vernon	1,252	61	4.6	Terrell	7,145	926	
Carthage	2,304	157	6.4	Haslet	587	23	3.8	Nacogdoches	15,323	645	4.0	Texarkana	13,583	885	6.1
Cedar Hill	13,033	557	4.1	Henderson	5,502	287	5.0	Navasota	2,909	191	6.2	Texas City	19,712	1,756	
Cedar Park	5,575	365	6.1	Henrietta	1,561	90	5.5	Nederland	8,284	299	3.5	The Colony	19,425	956	4.7
Channelview	14,809	921	5.9	Hereford	5,265	345	6.1	New Braunfels	20,390	1,218	5.6	The Woodlands	24,059	660	
Clarksville	1,486	130	8.0	Hewitt	5,940	82	1.4	Nocona	1,083	62	5.4	Trophy Club	3,649	118	
Cleburne	12,762	1,065	7.7	Hidalgo	1,348	138	9.3	N Richland Hills	33,215	1,500	4.3	Tyler	45,506	2,252	
Clifton Cloverleaf	1,275 10,836	56 766	4.2	Highland Park Highland Village	4,836 6,195	125 232	2.5 3.6	Odessa	44,005	3,293	7.0	Universal City	7,963	278	
Clute	5,118	340	6.2	Hillsboro	3,565	232	5.0 6.3	Olney Orange	1,263 8,139	77 824	5.7 9.2	University Park Uvalde	13,456 6,006	440 643	
College Station	31,088	579	1.8	Houston	1,009,651	74,050	6.8	Ozona	1,359	55	3.9	Vernon	5,773	043 195	
Colleyville	8,693	275	3.1	Humble	8,265	369	4.3	Paducah	664	22	3.2	Victoria	31,957	1,697	
Columbus	1,412	44	3.0	Huntsville	11,907	377	3.1	Paint Rock	152	2	1.3	Vidor	5,095	392	
Commerce	3,549	322	8.3	Hurst	23,841	1,354	5.4	Palacios	1,518	298		Waco	49,327	2,782	
Conroe	21,906	1,061	4.6	Iowa Park	3,030	162	5.1	Palestine	8,939	439	4.7	Waller	810	36	
Converse	5,614	198	3.4	Irving	114,958	7,214	5.9	Pampa	6,956	348	4.8	Watauga	13,810	458	3.2
Cooper	933	98	9.5	Jacinto City	4,456		10.3	Paris	10,939	784	6.7	Waxahachie	11,379	807	
Coppell	12,451	329	2.6	Jacksonville	5,642	304	5.1	Pasadena	69,264	4,540	6.2	Weatherford	9,162	408	
Copperas Cove	10,383	548	5.0	Jasper	2,907	268	8.4	Pearland	11,966	514	4.1	Webster	3,711	93	
Corpus Christi Corsicana	125,343	7,557	5.7	Johnson City	528	34	6.0	Pearsall Bease Crows	2,605	305		Wells Branch	7,799	195	
Cotulla	12,389 1,758	763 115	5.8	Jonestown Junction	991 1,423	80 34	7.5 2.3	Pecan Grove	8,452	224	2.6	Weslaco West Odesse	10,700	1,804	
Crane	1,758		15.2	Katy	1,423 4,969	34 159	2.3	Pecos Perryton	4,119	1,110	21.2	West University Pl	7,342	574	
Crockett	3,446	183	5.0	Keller	9,549	280	2.8	Pflugerville	3,983 3,905	98 114	2.4	West University Pl Wharton	8,320	115	
Crowley	4,533	264	5.5	Kennedale	2,675	280 93	3.4	Pharr	3,905	2,367		White Settlement	3,872 9,169	298 549	
Cuero	2,825	142	4.8	Kermit	2,075		11.7	Plainview	10,621	466	4.2	Wichita Falls	9,169 44,430	2,715	
Dalhart	4,388	94	2.1	Kerrville	8,093	293	3.5	Plano	140,648	7,867	5.3	Wink	44,430	2,713	6.3
Dallas	660,609	59,665	8.3	Kilgore	5,870	380	6.1	Pleasanton	4,760	259	5.2	Woodway	5,453	58	1.1
Daingerfield	1,150	97	7.8	Killeen	26,465	2,337	8.1	Port Arthur	22,209	2,938		Wylie	8,527	648	
De Soto	21,450	1,045	4.6	Kingsville	10,534	585	5.3	Port Isabel	2,557	184	6.7	Yoakum	2,419	80	
Deer Park	17,439	800	4.4	Kingwood	23,099	473	2.0	Port Lavaca	5,172	486	8.6				
		6166	56	11/ impar	5 167	302	5.5	Port Neches	6,417	259	5.3				
Del Rio Denison	14,559 10,076	866 703	5.6	Kirby Kyle	5,162 1,537	127	7.6	Portland	7,450	358 240	3.1				

Estimates reflect actual (not seasonally adjusted) data. Estimates are preliminary and subject to revision. To obtain the civilian labor force, add total employment to total unemployment. Estimates of the TWC are in cooperation with the Bureau of Labor Statistics, U.S. Department of Labor.

LABOR MARKET INFORMATION DEPARTMENT

NOVEMBER 2002

Texas Nonagricultural Wage and Salary Employment

TOTAL NONAG. W & S EMPLOYMENT GOODS PRODUCING Wining Oil & Gas Extraction Construction Wandfacturing Durable Goods Lumber & Wood Products Lumber Camps, Sawmills, Planing Mills Furniture & Fixtures Stone, Clay, & Glass Products Concrete, Gypsum, & Plaster Products Primary Metal Industries Fabricated Metal Industries Fabricated Metal Industries Fabricated Metal Industries Fabricated Structural Metal Products Industrial Machinery & Equipment Oil & Gas Field Machinery Electronic & Other Electrical Equipment Aircraft & Parts Instruments & Related Products Miscellaneous Manufacturing Nondurable Goods Food & Kindred Products	Oct. '02 9,453,000 1,711,700 156,900 148,100 556,400 998,400 603,300 44,700 6,300 6,300 6,300 46,100 24,700 28,500 98,300 52,900 128,900 30,400 113,300	Sept. '02 9,443,800 1,718,100 156,300 147,500 560,500 1,001,300 605,800 45,000 6,400 19,700 46,100 24,700 29,000 98,700	Oct. '01 9,500,900 1,761,600 163,600 154,600 561,800 630,100 45,500 6,900 20,100 46,900 24,800	Change 9 9,200 -6,400 600 600 -4,100 -2,900 -2,500 -300 -100 -200 0 0	0.1 -0.4 0.4 -0.7 -0.3 -0.4 -0.7	Change -47,900 -49,900 -6,700 -6,500 -5,400 -37,800 -26,800 -800	% Chan, -0. -2. -4 -4 -1 -3
GOODS PRODUCING Vining Oil & Gas Extraction Construction Vianufacturing Durable Goods Lumber Camps, Sawmills, Planing Mills Furniture & Fixtures Stone, Clay, & Glass Products Concrete, Gypsum, & Plaster Products Primary Metal Industries Fabricated Metal Industries Fabricated Metal Industries Fabricated Metal Industries Fabricated Structural Metal Products Industrial Machinery & Equipment Oil & Gas Field Machinery Electronic & Other Electrical Equipment Transportation Equipment Aircraft & Parts Instruments & Related Products Miscellaneous Manufacturing Nondurable Goods	$\begin{array}{r} \textbf{1,711,700} \\ \textbf{156,900} \\ \textbf{148,100} \\ \textbf{556,400} \\ \textbf{998,400} \\ \textbf{603,300} \\ \textbf{44,700} \\ \textbf{6,300} \\ \textbf{19,500} \\ \textbf{46,100} \\ \textbf{24,700} \\ \textbf{28,500} \\ \textbf{98,300} \\ \textbf{52,900} \\ \textbf{128,900} \\ \textbf{30,400} \end{array}$	$\begin{array}{r} 1,718,100\\ 156,300\\ 147,500\\ 560,500\\ 1,001,300\\ 605,800\\ 45,000\\ 6,400\\ 19,700\\ 46,100\\ 24,700\\ 29,000\\ 98,700\\ \end{array}$	$\begin{array}{r} 1,761,600\\ \hline 163,600\\ 154,600\\ 551,800\\ 1,036,200\\ 630,100\\ 45,500\\ 6,900\\ 20,100\\ 46,900\end{array}$	-6,400 600 600 -4,100 -2,900 -2,500 -300 -100 -200	-0.4 0.4 -0.7 -0.3 -0.4 -0.7 -1.6	-49,900 -6,700 -6,500 -5,400 -37,800 -26,800	-2. -4 -4 -1 -3
Mining Oil & Gas Extraction Construction Manufacturing Durable Goods Lumber & Wood Products Lumber Camps, Sawmills, Planing Mills Furniture & Fixtures Stone, Clay, & Glass Products Concrete, Gypsum, & Plaster Products Primary Metal Industries Fabricated Metal Industries Fabricated Metal Industries Fabricated Metal Industries Industrial Machinery & Equipment Oil & Gas Field Machinery Electronic & Other Electrical Equipment Transportation Equipment Aircraft & Parts Instruments & Related Products Miscellaneous Manufacturing Nondurable Goods	$\begin{array}{c} 156,900\\ 148,100\\ 556,400\\ 998,400\\ 603,300\\ 44,700\\ 6,300\\ 19,500\\ 46,100\\ 24,700\\ 28,500\\ 98,300\\ 52,900\\ 30,400\\ \end{array}$	$\begin{array}{c} 156,300\\ 147,500\\ 560,500\\ 1,001,300\\ 605,800\\ 45,000\\ 6,400\\ 19,700\\ 46,100\\ 24,700\\ 29,000\\ 29,000\\ 98,700\\ \end{array}$	$\begin{array}{c} 163,600\\ 154,600\\ 561,800\\ 1,036,200\\ 630,100\\ 45,500\\ 6,900\\ 20,100\\ 46,900\end{array}$	600 600 -4,100 -2,900 -2,500 -300 -100 -200	0.4 0.4 -0.7 -0.3 -0.4 -0.7 -1.6	-6,700 -6,500 -5,400 -37,800 -26,800	-4 -4 -1 -3
Oil & Gas Extraction Construction Manufacturing Durable Goods Lumber & Wood Products Lumber Camps, Sawmills, Planing Mills Furniture & Fixtures Stone, Clay, & Glass Products Concrete, Gypsum, & Plaster Products Primary Metal Industries Fabricated Industries Fabricated Metal Industr	$148,100\\556,400\\998,400\\603,300\\44,700\\6,300\\19,500\\46,100\\24,700\\28,500\\98,300\\52,900\\128,900\\30,400$	$\begin{array}{c} 156,300\\ 147,500\\ 560,500\\ 1,001,300\\ 605,800\\ 45,000\\ 6,400\\ 19,700\\ 46,100\\ 24,700\\ 29,000\\ 29,000\\ 98,700\\ \end{array}$	$\begin{array}{c} 154,600\\ 561,800\\ 1,036,200\\ 630,100\\ 45,500\\ 6,900\\ 20,100\\ 46,900\end{array}$	600 -4,100 -2,900 -2,500 -300 -100 -200	0.4 -0.7 -0.3 -0.4 -0.7 -1.6	-6,500 -5,400 -37,800 -26,800	-4 -1 -3
Oil & Gas Extraction Construction Manufacturing Durable Goods Lumber & Wood Products Lumber Camps, Sawmills, Planing Mills Furniture & Fixtures Stone, Clay, & Glass Products Concrete, Gypsum, & Plaster Products Primary Metal Industries Fabricated Industries Fabricated Metal Industries Fabricated Metal Industries Fabricated Structural Metal Products Industrial Machinery & Equipment Oil & Gas Field Machinery Electronic & Other Electrical Equipment Transportation Equipment Aircraft & Parts Instruments & Related Products Miscellaneous Manufacturing Nondurable Goods	$148,100\\556,400\\998,400\\603,300\\44,700\\6,300\\19,500\\46,100\\24,700\\28,500\\98,300\\52,900\\128,900\\30,400$	$\begin{array}{c} 147,500\\ 560,500\\ 1,001,300\\ 605,800\\ 45,000\\ 6,400\\ 19,700\\ 46,100\\ 24,700\\ 29,000\\ 98,700\\ \end{array}$	$\begin{array}{c} 154,600\\ 561,800\\ 1,036,200\\ 630,100\\ 45,500\\ 6,900\\ 20,100\\ 46,900\end{array}$	-4,100 -2,900 -2,500 -300 -100 -200	-0.7 -0.3 -0.4 -0.7 -1.6	-5,400 -37,800 -26,800	-1 -3
Construction Vanufacturing Durable Goods Lumber & Wood Products Lumber Camps, Sawmills, Planing Mills Furniture & Fixtures Stone, Clay, & Glass Products Concrete, Gypsum, & Plaster Products Primary Metal Industries Fabricated Industries Fabricated Metal Industries Fabricated Metal Industries Fabricated Structural Metal Products Industrial Machinery & Equipment Oil & Gas Field Machinery Electronic & Other Electrical Equipment Transportation Equipment Aircraft & Parts Instruments & Related Products Miscellaneous Manufacturing Nondurable Goods	$556,400\\998,400\\603,300\\44,700\\6,300\\19,500\\46,100\\24,700\\28,500\\98,300\\52,900\\128,900\\30,400$	$\begin{array}{c} 560,500\\ 1,001,300\\ 605,800\\ 45,000\\ 6,400\\ 19,700\\ 46,100\\ 24,700\\ 29,000\\ 98,700\\ \end{array}$	$561,800 \\ 1,036,200 \\ 630,100 \\ 45,500 \\ 6,900 \\ 20,100 \\ 46,900$	-2,900 -2,500 -300 -100 -200	-0.3 -0.4 -0.7 -1.6	-37,800 -26,800	-3
Durable Goods Lumber & Wood Products Lumber Camps, Sawmills, Planing Mills Furniture & Fixtures Stone, Clay, & Glass Products Concrete, Gypsum, & Plaster Products Primary Metal Industries Fabricated Metal Industries Fabricated Metal Industries Fabricated Structural Metal Products Industrial Machinery & Equipment Oil & Gas Field Machinery Electronic & Other Electrical Equipment Transportation Equipment Aircraft & Parts Instruments & Related Products Miscellaneous Manufacturing Nondurable Goods	998,400 603,300 44,700 6,300 19,500 46,100 24,700 28,500 98,300 52,900 128,900 30,400	$\begin{array}{c} 1,001,300\\ 605,800\\ 45,000\\ 6,400\\ 19,700\\ 46,100\\ 24,700\\ 29,000\\ 98,700\end{array}$	$1,036,200 \\ 630,100 \\ 45,500 \\ 6,900 \\ 20,100 \\ 46,900$	-2,500 -300 -100 -200	-0.4 -0.7 -1.6	-26,800	
Durable Goods Lumber & Wood Products Lumber Camps, Sawmills, Planing Mills Furniture & Fixtures Stone, Clay, & Glass Products Concrete, Gypsum, & Plaster Products Primary Metal Industries Fabricated Metal Industries Fabricated Structural Metal Products Industrial Machinery & Equipment Oil & Gas Field Machinery Electronic & Other Electrical Equipment Transportation Equipment Aircraft & Parts Instruments & Related Products Miscellaneous Manufacturing Nondurable Goods	603,300 44,700 6,300 19,500 46,100 24,700 28,500 98,300 52,900 128,900 30,400	$\begin{array}{c} 605,800\\ 45,000\\ 6,400\\ 19,700\\ 46,100\\ 24,700\\ 29,000\\ 98,700\\ \end{array}$	630,100 45,500 6,900 20,100 46,900	-2,500 -300 -100 -200	-0.4 -0.7 -1.6	-26,800	
Lumber & Wood Products Lumber Camps, Sawmills, Planing Mills Furniture & Fixtures Stone, Clay, & Glass Products Concrete, Gypsum, & Plaster Products Primary Metal Industries Fabricated Metal Industries Fabricated Structural Metal Products Industrial Machinery & Equipment Oil & Gas Field Machinery Electronic & Other Electrical Equipment Transportation Equipment Aircraft & Parts Instruments & Related Products Miscellaneous Manufacturing Nondurable Goods	44,700 6,300 19,500 46,100 24,700 28,500 98,300 52,900 128,900 30,400	45,000 6,400 19,700 46,100 24,700 29,000 98,700	45,500 6,900 20,100 46,900	-300 -100 -200	-1.6		-4
Lumber Camps, Sawmills, Planing Mills Furniture & Fixtures Stone, Clay, & Glass Products Concrete, Gypsum, & Plaster Products Primary Metal Industries Fabricated Metal Industries Fabricated Structural Metal Products Industrial Machinery & Equipment Oil & Gas Field Machinery Electronic & Other Electrical Equipment Transportation Equipment Aircraft & Parts Instruments & Related Products Miscellaneous Manufacturing Nondurable Goods	6,300 19,500 46,100 24,700 28,500 98,300 52,900 128,900 30,400	6,400 19,700 46,100 24,700 29,000 98,700	6,900 20,100 46,900	-100 -200	-1.6		-1
Furniture & Fixtures Stone, Clay, & Glass Products Concrete, Gypsum, & Plaster Products Primary Metal Industries Fabricated Metal Industries Fabricated Structural Metal Products Industrial Machinery & Equipment Oil & Gas Field Machinery Electronic & Other Electrical Equipment Transportation Equipment Aircraft & Parts Instruments & Related Products Miscellaneous Manufacturing Nondurable Goods	19,500 46,100 24,700 28,500 98,300 52,900 128,900 30,400	19,700 46,100 24,700 29,000 98,700	20,100 46,900	-200		-600	-2
Stone, Clay, & Glass Products Concrete, Gypsum, & Plaster Products Primary Metal Industries Fabricated Metal Industries Fabricated Structural Metal Products Industrial Machinery & Equipment Oil & Gas Field Machinery Electronic & Other Electrical Equipment Transportation Equipment Aircraft & Parts Instruments & Related Products Miscellaneous Manufacturing Nondurable Goods	46,100 24,700 28,500 98,300 52,900 128,900 30,400	46,100 24,700 29,000 98,700	46,900		-1.0	-600	
Concrete, Gypsum, & Plaster Products Primary Metal Industries Fabricated Metal Industries Fabricated Structural Metal Products Industrial Machinery & Equipment Oil & Gas Field Machinery Electronic & Other Electrical Equipment Transportation Equipment Aircraft & Parts Instruments & Related Products Miscellaneous Manufacturing Nondurable Goods	24,700 28,500 98,300 52,900 128,900 30,400	24,700 29,000 98,700			0.0	-800	-
Primary Metal Industries Fabricated Metal Industries Fabricated Structural Metal Products Industrial Machinery & Equipment Oil & Gas Field Machinery Electronic & Other Electrical Equipment Transportation Equipment Aircraft & Parts Instruments & Related Products Miscellaneous Manufacturing Nondurable Goods	28,500 98,300 52,900 128,900 30,400	29,000 98,700		0	0.0	-100	-
Fabricated Metal Industries Fabricated Structural Metal Products Industrial Machinery & Equipment Oil & Gas Field Machinery Electronic & Other Electrical Equipment Transportation Equipment Aircraft & Parts Instruments & Related Products Miscellaneous Manufacturing Nondurable Goods	98,300 52,900 128,900 30,400	98,700	30,800	-500	-1.7	-2,300	
Fabricated Structural Metal Products Industrial Machinery & Equipment Oil & Gas Field Machinery Electronic & Other Electrical Equipment Transportation Equipment Aircraft & Parts Instruments & Related Products Miscellaneous Manufacturing Nondurable Goods	52,900 128,900 30,400		101,900	-400	-0.4	-3,600	
Industrial Machinery & Equipment Oil & Gas Field Machinery Electronic & Other Electrical Equipment Transportation Equipment Aircraft & Parts Instruments & Related Products Miscellaneous Manufacturing Nondurable Goods	128,900 30,400	53,100	54,100	-200	-0.4	-1,200	
Oil & Gas Field Machinery Electronic & Other Electrical Equipment Transportation Equipment Aircraft & Parts Instruments & Related Products Miscellaneous Manufacturing Nondurable Goods	30,400	129,100	134,300	-200	-0.2	-5,400	
Electronic & Other Electrical Equipment Transportation Equipment Aircraft & Parts Instruments & Related Products Miscellaneous Manufacturing Nondurable Goods		30,600	31,400	-200	-0.7	-1,000	
Transportation Equipment Aircraft & Parts Instruments & Related Products Miscellaneous Manufacturing Nondurable Goods	113,300						
Aircraft & Parts Instruments & Related Products Miscellaneous Manufacturing Nondurable Goods	E1 000	113,500	122,600	-200	-0.2	-9,300	
Instruments & Related Products Miscellaneous Manufacturing Nondurable Goods	71,800	72,600	74,200	-800	-1.1	-2,400	
Miscellaneous Manufacturing Nondurable Goods	37,900	38,200	39,700	-300	-0.8	-1,800	
Nondurable Goods	33,500	33,400	34,400	100	0.3	-900	-
	18,700	18,700	19,400	0	0.0	-700	
Food & Kindred Products	395,100	395,500	406,100	-400	-0.1	-11,000	
	99,500	99,000	99,900	500	0.5	-400	
Meat Products	37,000	37,100	36,500	-100	-0.3	500	
Dairy Products	5,200	5,200	5,200	0	0.0	0	
Bakery Products	9,600	9,500	9,500	100	1.1	100	
Malt Beverages	1,700	1,700	1,800	0	0.0	-100	
Textile Mill Products	4,000	3,900	4,000	100	2.6	0	
Apparel & Other Finished Textile Products	29,800	30,800	35,000	-1,000	-3.2	-5,200	-]
Paper & Allied Products	26,600	26,300	27,400	300	1.1	-800	
Printing & Publishing	72,800	73,000	73,500	-200	-0.3	-700	
Newspapers, Periodicals, Books, & Miscellaneous	35,000	34,900	34,600	100	0.3	400	
Chemicals & Allied Products	81,000	80,900	81,500	100	0.1	-500	
Petroleum & Coal Products	24,900	24,800	24,900	100	0.4	-500	
				100	0.4	100	
Petroleum Refining	21,200	21,100	21,100				
Rubber & Miscellaneous Plastics	52,000	52,300	54,600	-300	-0.6	-2,600	
Leather & Leather Products	4,500	4,500	5,300	0	0.0	-800	-1
SERVICE PRODUCING	7,741,300	7,725,700	7,739,300	15,600	0.2	2,000	(
ransportation, Communications, Utilities	572,900	574,000	588,800	-1,100	-0.2	-15,900	1
Transportation	356,200	356,900	360,800	-700	-0.2	-4,600	
Railroad Transportation	15,700	15,700	16,100	0	0.0	-400	
Transportation by Air	116,000	116,400	120,400	-400	-0.3	-4,400	
Communications	142,300	142,600	149,800	-300	-0.2	-7,500	
Electric, Gas, & Sanitary Services	74,400	74,500	78,200	-100	-0.1	-3,800	
Electric Services	35,500	35,600	35,600	-100	-0.3	-100	
Gas Production & Distribution	21,400	21,500	25,300	-100	-0.5	-3,900	-
rade	2,237,900	2,237,300	2,253,900	600	0.0	-16,000	
Wholesale Trade	522,000	522,200	529,100	-200	0.0	-7,100	
Retail Trade	1,715,900	1,715,100	1,724,800	800	0.0	-8,900	
Building Materials & Gardening Supplies	68,000	68,000	65,400	0	0.0	2,600	
General Merchandise Stores	224,200	219,700	232,000	4,500	2.0	-7,800	
Food Stores	242,000	242,300	250,900	-300	-0.1	-8,900	
Automotive Dealers & Service Stations	179,400	181,100	179,200	-1,700	-0.9	200	
Apparel & Accessory Stores	81,400	80,200	83,500	1,200	1.5	-2,100	
Home Furniture, Furnishings, & Equipment Stores	83,600	82,600	83,900	1,000	1.2	-300	
Eating & Drinking Places	649,900	657,700	638,300	-7,800	-1.2	11,600	
Other Retail Trade	187,400	183,500	191,600	3,900	2.1	-4,200	
inance, Insurance, & Real Estate	530,200	530,900	534,400	-700	-0.1	-4,200	
Depository Institutions including Banks	132,100	132,300	132,600	-200	-0.2	-500	
Insurance Carriers, Agents, Brokers, & Service	164,900	165,200	165,400	-300	-0.2	-500	
Other Finance Insurance & Real Estate	233,200	233,400	236,400	-200	-0.1	-3,200	
ervices	2,746,600	2,752,600	2,745,100	-6,000	-0.2	1,500	
Hotel & Other Lodging Places	93,800	94,800	93,500	-1,000	-1.1	300	
Personal Services	92,200	91,900	92,800	300	0.3	-600	
Business Services	665,200	668,400	692,200	-3,200	-0.5	-27,000	
Auto Repair Services	95,600	96,400	95,400	-800	-0.8	200	
Miscellaneous Repair Services	33,900	33,500	34,400	400	1.2	-500	
Amusement & Recreation, including Motion Pictures	117,600	120,600	119,300	-3,000	-2.5	-1,700	
Health Services	742,500	741,900	726,200	-3,000	0.1	16,300	
	71,400	70,900	71,500	500	0.7	-100	
Legal Services	129,400	128,100	127,000	1,300	1.0	2,400	
Legal Services Educational Services	208,100	208,000	203,000	100	0.0	5,100	
Legal Services Educational Services Social Services	144,300	144,700	144,400	-400	-0.3	-100	
Legal Services Educational Services Social Services Membership Organizations	350 300	269,300	268,000	1,000	0.4	2,300	
Legal Services Educational Services Social Services Membership Organizations Engineering & Management Services	270,300					A 000	
Legal Services Educational Services Social Services Membership Organizations	270,300 61,900	63,500	59,900	-1,600	-2.5	2,000	
Legal Services Educational Services Social Services Membership Organizations Engineering & Management Services		63,500 1,630,900	59,900 1,617,100		-2.5 1.4	2,000 36,600	
Legal Services Educational Services Social Services Membership Organizations Engineering & Management Services Agricultural Services	61,900			-1,600			

*Estimates for the current month are preliminary. All estimates are subject to revision. The number of nonagricultural jobs in Texas is without reference to place of residence of workers. Estimates of the TWC are in cooperation with the Bureau of Labor Statistics, U.S. Department of Labor. Wholesale Trade estimates are probability-based. (See text box on page 9 for more information)

Texas Metropolitan Statistical Areas Nonagricultural Wage and Salary Employment

(In Thousands)

							ousands	A REAL PROPERTY AND ADDRESS OF						1000	·
INDUSTRY	Oct. '02	ABILENE Sept. '02	Oct. '01	A Oct. '02	MARILLO Sept. '02	O Oct. '01		N-SAN MA			-PT. ART			BRAZORIA	
TOTAL	53.3	53.4	54.4	97.7	97.5	98.6	Oct. '02 676.1	Sept. '02 672.8	Oct. '01 673.8	Oct. '02 158.1	Sept. '02 157.8	Oct. '01 158.1	Oct. '02 78.8	Sept. '02 78.5	Oct. '01 78.6
Mining	1.0	0.9	0.9	0.7	0.7	0.7	1.7	1.7	1.8	0.8	0.8	0.8	1.6	1.5	1.6
Construction	2.3	2.4	2.3	4.8	4.9	5.2	39.6	39.7	40.4	16.0	15.9	15.8	11.5	11.3	11.5
Manufacturing-Dur.	1.4	1.5	1.6	3.2	3.2	3.3	55.5	55.8	61.7	7.5	7.6	7.8	3.3	3.3	3.7
Manufacturing-Nondur. Trans., Comm. & Util.	1.5	1.5 2.3	1.6 2.4	5.9 4.8	5.9 4.8	5.7 4.9	13.1 20.6	13.1 20.4	13.0	13.8	13.7	14.2	10.2	10.2	10.4
Wholesale Trade	2.6	2.6	2.7	5.9	5.9	4.9 5.9	38.0	37.8	21.1 37.2	8.3 4.8	8.1 4.7	8.4 4.8	3.0 2.6	3.0 2.6	2.9 2.4
Retail Trade	11.2	11.2	11.5	21.3	21.5	21.2	116.8	116.2	116.8	31.0	31.2	30.5	13.3	13.3	13.7
Fin., Ins., & Real Est.	2.5	2.5	2.5	5.1	5.2	5.3	34.3	34.4	34.0	5.1	5.2	5.2	2.1	2.1	2.0
Services	19.0	19.0	19.4	29.0	29.0	28.6	203.7	203.1	202.8	44.0	44.2	43.0	16.0	16.0	15.4
Federal Government State Government	1.2	1.2	1.2	1.8	1.8	1.9	10.1	10.0	9.5	2.9	2.9	3.0	0.5	0.5	0.5
Local Government	2.0 6.3	2.0 6.3	2.1 6.2	4.6	4.4	4.6 11.3	71.9 70.8	70.3 70.3	68.7 66.8	6.0 17.9	5.7 17.8	6.0 18.6	2.9 11.8	3.0 11.7	2.8 11.7
Local Government		NSVILLE			N-COLL.			PUS CHR		17.5	DALLAS	10.0	11.0	EL PASO	11./
INDUSTRY	Oct. '02	Sept. '02	Oct. '01	Oct. '02	Sept. '02	Oct. '01	Oct. '02	Sept. '02	Oct. '01	Oct. '02	Sept. '02	Oct. '01	Oct. '02		Oct. '01
TOTAL	111.6	111.6	111.1	77.8	77.1	80.0	161.2	161.0	159.5	1983.7	1980.4	1990.2	254.7	254.4	255.0
Mining	**	**	**	0.9	0.9	0.9	2.3	2.3	2.3	9.1	9.1	9.1	**	**	**
Construction Manufacturing-Dur.	4.5 5.5	4.5 5.5	4.5 5.5	3.6 2.8	3.6 2.8	3.6 2.9	14.2 5.0	14.3 5.0	13.0 5.0	106.1 154.4	106.6	106.8 159.3	12.3 14.2	12.2 14.3	11.8 14.7
Manufacturing-Nondur.	4.8	5.1	5.7	2.4	2.4	2.5	7.9	7.9	8.0	75.5	75.5	74.6	14.2	14.5	14.7
Trans., Comm. & Util.	5.4	5.4	5.5	1.2	1.2	1.3	8.1	8.0	7.9	137.6	138.3	139.9	14.1	14.1	14.9
Wholesale Trade	4.5	4.5	4.3	1.6	1.6	1.5	5.8	5.8	5.9	144.2	144.2	149.3	11.7	11.7	11.7
Retail Trade	22.9	22.9	22.0	14.5	14.4	14.7	30.2	30.2	30.0	343.4	343.0	344.3	49.4	49.2	48.6
Fin., Ins., & Real Est.	3.9	3.9	3.9	2.8	2.8	2.7	6.3	6.4	6.4	157.2	156.9	158.2	11.3	11.3	11.2
Services Federal Government	33.3 2.3	33.3 2.3	32.6 2.3	16.8 1.0	17.3 1.0	17.5 1.0	49.8 6.0	49.8 6.1	50.0 6.0	624.0 31.9	622.9 31.7	621.6 31.1	62.3 8.8	62.4 8.8	62.9 8.7
State Government	4.0	3.8	4.1	23.1	22.1	24.3	5.3	5.1	4.6	28.6	27.0	28.1	9.3	8.8 9.3	8.7 9.0
Local Government	20.5	20.4	20.7	7.1	7.0	7.1	20.3	20.1	20.4	171.7	170.3	167.9	42.9	42.5	41.6
		WORTH-A			ESTON-TX			HOUSTON			EEN-TEM			LAREDO	1000
INDUSTRY	Oct. '02	Sept. '02	Oct. '01	Oct. '02	Sept. '02	Oct. '01	Oct. '02		Oct. '01	Oct. '02	Sept. '02	Oct. '01	Oct. '02	Sept. '02	Oct. '01
TOTAL Mining	792.8	793.9 4.6	795.6 4.4	86.3 0.4	86.2 0.4	86.8 0.5	2123.1 66.9	2122.5 66.3	2123.4 69.0	103.4	103.3	103.8	72.1	71.8	70.7
Construction	45.0	46.3	45.0	4.0	4.1	4.0	161.1	161.7	159.7	4.6	4.7	4.7	2.2	2.3	2.3
Manufacturing-Dur.	69.0	69.2	71.9	2.4	2.4	2.5	129.6	130.0	131.2	3.9	3.9	4.0	0.9	0.9	0.9
Manufacturing-Nondur.	35.9	35.9	35.5	5.0	5.0	5.2	80.7	80.6	82.2	4.8	4.7	4.9	0.5	0.5	0.6
Trans., Comm. & Util.	78.9	79.0	79.6	3.7	3.7	3.7	145.0	145.3	153.8	3.9	3.8	3.7	12.0	12.0	12.2
Wholesale Trade Retail Trade	43.0 151.3	42.7 152.5	42.8 154.1	1.8 18.0	1.8 18.1	1.8 17.8	123.9 356.5	124.8 354.5	124.5 352.6	3.8 21.3	3.8	3.9	2.8	2.8	2.9
Fin., Ins., & Real Est.	41.5	41.5	41.4	5.3	5.3	5.5	115.5	115.7	115.8	4.3	21.4 4.3	21.3	16.2 3.0	16.1 3.0	15.2
Services	217.9	218.2	216.7	20.0	20.1	19.9	664.4	665.9	659.0	28.4	28.6	28.3	15.7	15.8	15.5
Federal Government	15.5	14.4	14.2	0.9	0.9	0.9	27.1	26.3	26.1	7.9	7.9	8.0	2.2	2.1	2.1
State Government	9.2	9.2	9.6	11.7	11.7	11.9	51.1	51.1	49.5	3.7	3.7	3.7	1.6	1.5	1.5
Local Government	81.0	80.4	80.4	13.1	12.7	13.1	201.3	200.3	200.0	16.8	16.5	17.0	13.8	13.6	13.3
INDUSTRY	Oct. '02	IEW-MAH Sept. '02	Oct. '01	Oct. '02	LUBBOCK Sept. '02	Oct. '01	Oct. '02	LEN-EDI Sept. '02	NMIS. Oct. '01	ODE: Oct. '02	SSA-MIDL Sept. '02	AND Oct. '01	Oct. '02	AN ANGEL Sept. '02	Oct. '01
TOTAL	91.9	91.5	93.0	126.4	124.1	125.2	167.3	166.6	162.2	105.2	105.2	106.5	45.4	Sept. 02 45.5	44.6
Mining	4.0	4.1	4.2	0.1	0.1	0.1	1.6	1.6	1.6	12.4	12.5	12.6	1.1	1.0	0.9
Construction	4.8	4.8	4.6	5.0	5.0	5.0	8.6	8.6	8.2	5.4	5.5	5.7	2.1	2.1	2.2
Manufacturing-Dur.	11.0	11.1	11.4	4.0	4.0	4.0	3.3	3.4	3.5	5.3	5.3	5.2	2.5	2.5	2.5
Manufacturing-Nondur.	4.6	4.6	4.8	3.0	3.0	3.0	6.6	6.8	7.5	1.6	1.6	1.9	2.3	2.3	2.1
Trans., Comm. & Util. Wholesale Trade	4.3	4.1 4.1	4.2 4.1	8.4 7.4	8.4 7.4	8.5 7.4	6.5 6.7	6.6 6.5	6.3 6.9	5.1 7.1	5.1 6.9	5.3	2.3 1.8	2.3 1.8	2.5 1.8
Retail Trade	19.7	19.7	20.0	26.6	26.3	26.1	36.3	36.6	35.3	20.5	20.5	20.9	8.4	8.5	8.5
Fin., Ins., & Real Est.	3.6	3.6	3.6	6.5	6.5	6.5	6.0	6.0	5.8	4.1	4.1	4.1	1.8	1.8	1.8
Services	23.6	23.5	23.7	37.2	37.0	37.1	47.3	47.2	44.2	25.2	25.4	25.3	13.2	13.3	13.0
Federal Government	0.5	0.5	0.5	1.3	1.1	1.3	2.7	2.7	2.7	0.8	0.7	0.8	1.4	1.4	1.3
State Government Local Government	0.9 10.8	0.8 10.6	0.8 11.1	14.7 12.2	13.4	13.8 12.4	4.9 36.8	4.8 35.8	4.9 35.3	2.0 15.7	2.0	1.9	2.6 5.9	2.6	2.6
Local Government		N ANTON			MAN-DEN			EXARKAN		15./	15.6 TYLER	15.8		5.9 VICTORIA	5.4
INDUSTRY		Sept. '02			Sept. '02			Sept. '02		Oct. '02		Oct. '01	Oct. '02		Oct. '0
TOTAL	734.3	734.0	730.2	43.4	43.4	44.3	52.7	52.7	53.1	86.7	86.7	84.9	37.4	37.2	37.5
Mining	2.4	2.4	2.3	**	**	**	**	**	**	1.4	1.4	1.4	2.4	2.4	2.4
Construction Manufacturing-Dur.	44.2 29.4	44.3 29.4	41.6 29.7	2.8 5.5	2.8 5.5	2.8	2.8 2.8	2.8	2.8	3.4	3.4	3.3	2.1	2.1	2.0
Manufacturing-Nondur.	29.4	29.4	23.8	5.5	5.5	6.1 2.0	2.8	2.8	2.8 3.0	8.9 3.3	8.9 3.4	7.7 3.6	1.0 2.0	1.0 2.0	1.1 2.0
Trans., Comm. & Util.	34.1	34.4	35.6	2.0	2.0	1.9	2.9	2.9	3.0	3.4	3.5	3.6	1.7	1.7	1.7
Wholesale Trade	31.5	31.4	31.4	1.1	1.1	1.1	2.7	2.7	2.8	3.9	3.9	3.9	1.8	1.8	1.8
Retail Trade	143.4	143.8	146.1	8.3	8.4	8.6	10.8	10.8	11.0	18.9	19.1	19.0	7.6	7.6	7.9
Fin., Ins., & Real Est.	51.7	51.7	52.0	3.0	3.0	2.9	1.9	1.9	1.8	4.4	4.4	4.3	1.6		1.6
Services Federal Government	236.5 28.8	237.4 28.8	234.0 28.5	12.6 0.4	12.7 0.3	12.7 0.4	14.5 3.3	14.6	14.7 3.3	26.7 1.1	26.8 1.0	26.2 1.0	10.2		10.2
State Government	15.5	15.4	15.3	0.4	0.5	0.4	5.5	5.5	5.5	3.1	3.0	1.0	0.2		0.2
Local Government	93.3	91.5	89.9	5.6	5.6	5.6	6.4	6.3	6.2	8.2	7.9	7.9	6.3		6.1
THE FIGHT ST	C	WACO	0		CHITA FA	LLS									
INDUSTRY	Oct. '02			Oct. '02			In ac	cordance w	ith Bureau	of Labor	Statistics (H	BLS) proce	dures, esti	mates	
TOTAL Mining	100.0	100.1	100.9	59.4	59.4	60.2								try, beginn	ing
Construction	5.6	5.7	5.5	1.0 2.0	1.0 2.0	1.0 2.0	-			-				probability-	0
Manufacturing-Dur.	7.7	7.7	8.0	5.9	5.9	6.4					urvey. The				
Manufacturing-Nondur.	6.3	6.3	6.5	1.6	1.6	1.6			T	-				MSA, Cor	1116
Trans., Comm. & Util.	4.4	4.4	4.5	2.6	2.6	2.6									yus
Wholesale Trade	4.5	4.5	4.5	2.2	2.3	2.2					ISA, Fort V		0		
Retail Trade Fin., Ins., & Real Est.	18.1 6.3	18.1 6.4	18.0 6.3	11.8 2.3	11.7 2.3	12.0 2.3	MSA	, Odessa-M	naland MS	oA, San An	tomo MSA	, Tyler MS	A and the	Waco MSA	
Services	29.7	29.9	30.8	17.1	17.1	16.7									
Federal Government	3.5	3.5	3.4	2.6	2.6	2.6									
State Government	2.7	2.6	2.6	3.4	3.4	3.5									
Local Government	11.2	11.0	10.8	6.9	6.9	7.3		1		3 4 4					
the second se	Contraction of the local division of the	States and states on other tax	STATISTICS IN CONTRACT ON ADDRESS		Contraction in the local division of the loc				The second s		the second se				the same time in the same

*Estimates for the current month are preliminary. All estimates are subject to revision. The number of nonagricultural jobs in the MSAs is without reference to place of residence of workers. **Mining estimates are included in Construction estimates for these MSAs. Estimates of the TWC are in cooperation with the Bureau of Labor Statistics, U.S. Department of Labor.

LABOR MARKET INFORMATION DEPARTMENT www.texasworkforce.org/lmi

ASK THE EXPERT

"What is the relationship between price inflation and the unemployment rate?"

by Sarah Rummery, Ph.D.

Let's begin by defining both the unemployment rate and price inflation, and then move on to examine possible theoretical explanations for a relationship between these two economic indicators.

First, the unemployment rate; to be counted as unemployed in the United States you must have been actively involved in job search in the previous four weeks. This would include sending out resumes, going to job interviews and registering with an employment agency. You would also count as unemployed if you had been laid off temporarily, and were awaiting recall.

You would not be counted as unemployed if you had become discouraged in your search for a job, and had therefore stopped looking, or if you were not available to work, perhaps for medical reasons, should a job be offered to you.

The unemployment figures also do not account for under-employment - that is, when people are working part time but would prefer full time, or would simply prefer to be employed for more hours.

The unemployment rate is calculated monthly by the Bureau of Labor Statistics (hereafter BLS). It is the number of people unemployed, divided by the number of people in the labor force. For example, in October 2002, the BLS estimated that there were 8,209,000 Americans unemployed and 134,914,000 Americans employed. This makes the October 2002 labor force (the number of people working or actively looking for work) equal to 143,123,000 and the unemployment rate equal to: $\frac{8,209,000}{2} = 5.73\%$

$$\frac{0,200,000}{143,123,000} = 5.739$$

Economists consider there to be three major categories of unemployment; frictional, structural and cyclical. Regardless of the state of the economy there will always be frictional and structural unemployment. Frictional unemployment includes people who have been fired from their job, quit their job voluntarily, have graduated from high school or college and are looking for a job, or someone returning to the labor force and looking for a job. Structural unemployment is caused by "structural" changes, such as the loss of manufacturing companies to overseas locations, which leaves many domestic workers unemployed, and perhaps with skills that are no longer in demand. These two types of unemployment together make up the "natural rate of unemployment", that is, the unemployment that would be expected even in a full employment economy.

Deviations from this rate are attributed to cyclical variations (or business cycle factors). For example, if the economy moves into recession, aggregate demand for business output falls, and as a consequence the demand for labor falls creating an excess supply of labor and cyclical unemployment. This would cause the unemployment rate to exceed the natural rate. On the other hand if the economy experiences an economic expansion, aggregate demand for business output increases, as does the demand for labor, creating an excess demand or shortage of labor, and an unemployment rate below the natural rate. Unemployment in the labor market clearly depends on demand in the product markets.

Now let's define price inflation so that we can consider possible connections between the rate of unemployment and price inflation.

The general consensus amongst economists is that price inflation is triggered as the economy moves towards or possibly exceeds the "full employment" level of production, which causes the unemployment rate to fall below the natural rate. Why? As the economy approaches full employment output, businesses are operating at close to full capacity, the labor market is tight meaning there is very little, if any excess supply of labor, and this starts to put upward pressure on resource prices (such as wages) which businesses may pass on to consumers in the form of higher prices. This explanation of inflation ties it directly to the labor market. Inflation therefore measures the rate of increase in the general price level. How is the general price level defined? The BLS enlists up to 30,000 American households to participate in the tracking and recording of consumer prices for a range of some eighty thousand goods and services. A certain number of these households keep detailed diaries of all their expenditures so that the BLS can construct a "market basket" of typical household purchases. BLS employees then track the prices of these typical goods every month and the rate of change in these price levels is used to calculate a weighted average rate of inflation. This means that not all price changes are of equal weight in the inflation calculation. Those goods on which typical households spend more income, count more than those goods on which the typical household spends less.

For example, in the six months ending September 2002, the BLS reported that the price of tobacco and smoking products increased 25.6%, the price of tuition, school fees and childcare increased by 7.4%, the price of personal computers decreased 16.6%, the price of fuel oil increased 17.7%, the price of meat, poultry fish and eggs decreased 2.1%, the price of household furnishings decreased 1.2%, the price of new vehicles decreased 0.3%, the price of sugar and sweets

Continued on page 11

Have a question for us?

If you have a question regarding labor markets, the economy, or anything related, please let us hear from you. All questions will be answered, with selected questions being featured in this section of the *Texas Labor Market Review*. Depending on the topic, questions will be answered by LMI staff or by guest "experts" from academia or government who have graciously volunteered their expertise.

Continued from page 10

increased 3.5%, the price of take-out food increased 2.4% and prices of piped gas increased 2.6%. These are just a few examples of the many categories of goods whose prices are tracked on a monthly basis. The weighted average inflation rate for the six months ending September 2002 was 2.5%.

Conventional economic wisdom hypothesizes a connection between what is happening in product markets and therefore price levels and what is happening in labor markets and therefore unemployment. These two markets, product and labor, are interdependent. To put it in very simple terms, low unemployment, below the natural rate, is an indicator of a strong economy experiencing significant rates of economic growth. Consumer demand for all types of products and services is high and this translates to a high demand for labor (which is derived from the demand for goods and services which it is used to produce). In this type of economy where businesses are competing for workers, wages of the scarcest and most sought after workers will start to rise causing prices to rise in these same industries. If this happens in many industries and occupations across the economic landscape, then an increase in the general price level will most likely follow. In economic theory this is known as a wage-price spiral. It indicates that labor market pressures can lead to inflationary pressures in product markets.

Naturally the reverse scenario applies equally well. Unemployment that is above the natural rate is a symptom of a weaker economy, an economy experiencing lower than average or lower than expected rates of economic growth. Consumer confidence and demand for all types of goods and services begins to decline, and with it the demand for labor. In this type of environment there is much less pressure to increase wages, and less pressure on price levels.

It seems therefore, that there may be reason to think that the unemployment rate in the labor market should be negatively or inversely correlated with the level of price inflation in product markets.

A New Zealand Economist by the name of A.W. Phillips actually verified this relationship (or something close to it) in 1958.¹ Using data from the United Kingdom covering the time period 1861-1957 he found a statistically significant inverse correlation between the unemployment rate and the rate of wage inflation. His research became known as the Phillips Curve. Wage inflation is strongly correlated with price inflation so the Phillips Curve analysis was easily extended to the relationship between unemployment and price inflation. As such, Central banks and Politicians could use this tradeoff when designing Monetary and Fiscal policy. If, for example, the goal of public policy were to reduce price inflation by a certain number of percentage points, the known tradeoff would be a certain increase in the unemployment rate, and vice versa.

The Phillips Curve relationship appeared quite robust until the 1970's when the U.S. experienced stagflation, which is a combination of high unemployment and high inflation. This was due to the 1973 Arab oil embargo against the U.S., which led to a dramatic and sudden increase in the cost of oil. This had many consequences, not the least of which was a big spike in the inflation rate. Oil is a necessary input for many businesses such as electricity generation, oil and gas refining

and production and transportation and delivery of all kinds. Operating costs increased very substantially for many U.S. businesses. Prices of many goods and services increased at a rapid rate. The Federal Reserve Bank acted to counter the rising rate of inflation by implementing a tight monetary policy that saw interest rates rise. At the same time there was a lot of uncertainty and consumer and business confidence plummeted. Consumer demand fell, business investment fell and quite naturally demand for labor fell, so unemployment increased. The U.S. economy moved into a severe recession. This was compounded by further oil shocks in 1979 with the Iranian Revolution and 1980 with the Iran-Iraq war.

In 1980 the price of a barrel of crude oil was \$67 (in today's prices) and a gallon of gas cost \$2.57 (in today's prices).²

So was the Phillips Curve analysis redundant? Did the 1970's experience with stagflation contradict the Phillips Curve, or did it suggest that the economy was now operating on a new Phillips Curve, above and to the right of the old, comprised of higher inflation and unemployment combinations?

The Phillips Curve also does not explain the eight years of economic expansion during the 1990's, when the U.S. economy experienced historically low unemployment and low price inflation, simultaneously! Is this another contradiction of the Phillips Curve, or does it suggest the Phillips Curve has shifted yet again, this time to the left, and now comprised of lower inflation and unemployment combinations?

Many economists now believe that the Phillips Curve characterization of the relationship between unemployment and price inflation is too simplistic to explain what is evidently a more complex interdependence. The Phillips Curve may still be useful in a short run context, but is not sufficient to explain the long run dynamics of the relationship, and shifts in the entire function over time. Much work has been done since 1958 to extend the analysis of A.W. Phillips to take account of such factors.^{3,4}

Despite the shortcomings of the original Phillips Curve, it is still considered a seminal work in Economics and a major contribution to our understanding of the relationship between unemployment and price inflation.

¹ A.W.Phillips, "The Relationship Between Unemployment and the Rate of Change of Money Wages in the United Kingdom, 1861-1957," *Economica* 25 (November 1958):283-299.

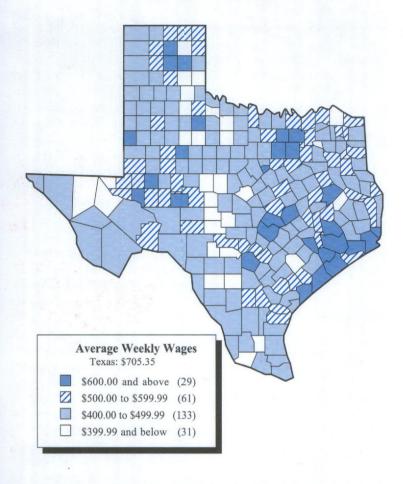
² J.W. Anderson, "The Surge in Oil Prices – Anatomy of a Non-Crisis" Resources for the Future, Spring 2000.

³ Milton Friedman, "The Role of Monetary Policy," *American Economic Review* 58 (March 1968):1-17.

⁴ Edmund S. Phelps, "Money Wage Dynamics and Labor Market Equilibrium," *Journal of Political Economy*, July-August 1967, pp678-711.

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Average Weekly Wage of Workers in Covered Employment by County First Quarter 2002



Source: Covered Employment Records (Includes Federal Government)

Texas Labor Market Review Labor Market Information



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