

2019

# Business Employment Dynamics

4<sup>th</sup> Quarter



Oklahoma Employment Security Commission  
Economic Research and Analysis Division

# **OKLAHOMA BUSINESS EMPLOYMENT DYNAMICS**

## **4th Quarter 2019**

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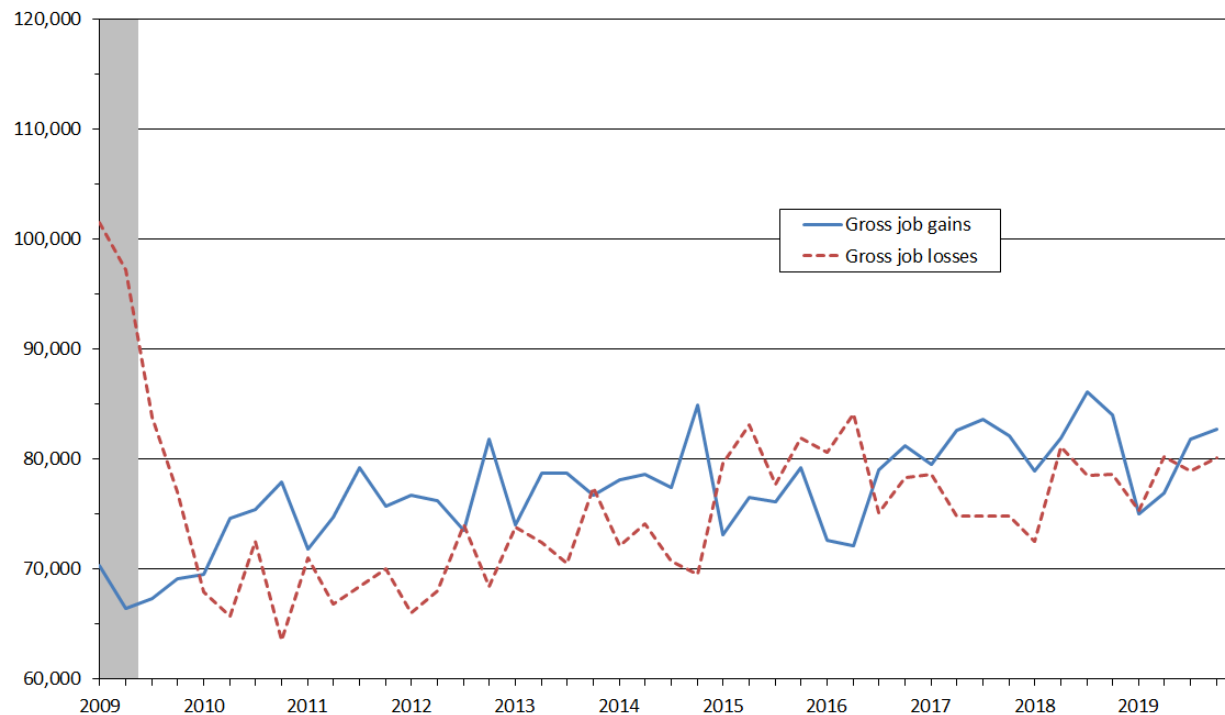
# OKLAHOMA BUSINESS EMPLOYMENT DYNAMICS: 4th Quarter 2019

## Gross Job Gains and Gross Job Losses: 4th Quarter 2019

From September 2019 to December 2019, gross job gains from opening and expanding private-sector establishments in Oklahoma totaled 82,766, an increase of 954 jobs from the previous quarter. Over this period, gross job losses from closing and contracting private-sector establishments numbered 80,110, an increase of 1,174 jobs from the previous quarter, according to the Oklahoma Employment Security Commission, Economic Research and Analysis Division, and the U.S. Bureau of Labor Statistics, (see Chart 1, below and Table 1, page 6). The difference between the number of gross job gains and the number of gross job losses yielded a net employment gain of 2,656 jobs in Oklahoma’s private sector during the 4th quarter of 2019.

### Chart 1

Private sector gross job gains and gross job losses in Oklahoma  
March 2009 - December 2019, seasonally adjusted



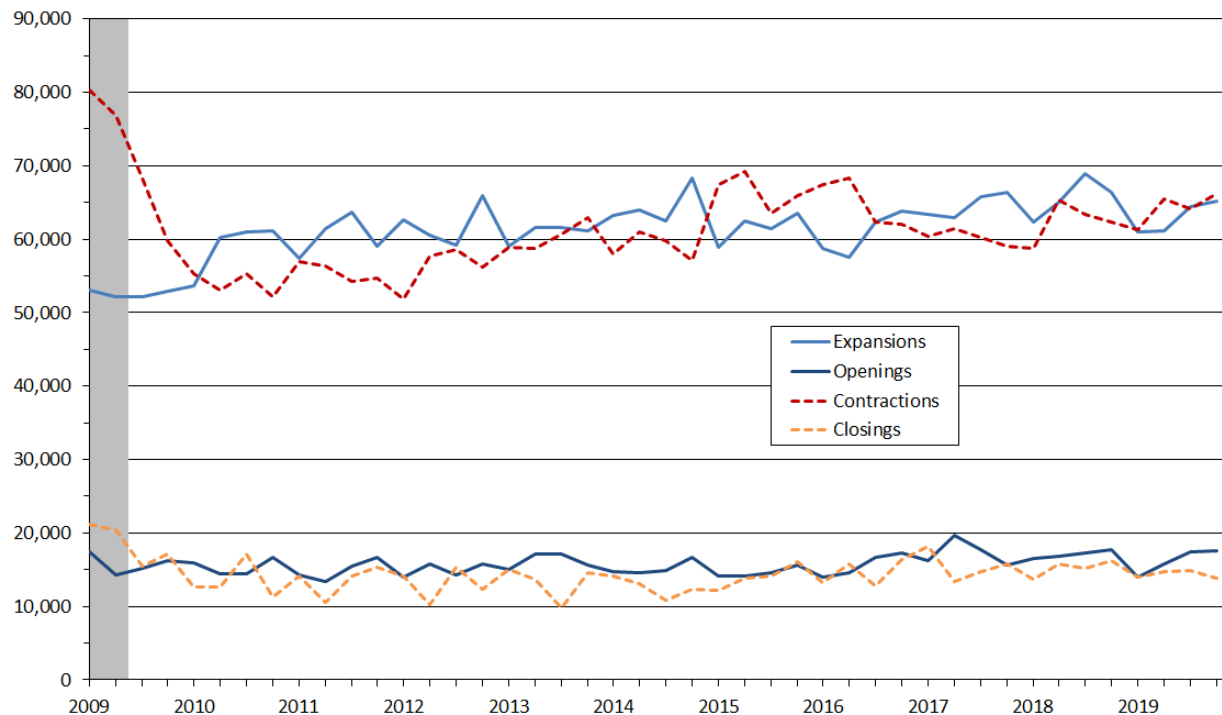
Source: U.S. Bureau of Labor Statistics  
Note: Shaded area represents NBER defined recession period.

The change in the number of jobs over time is the net result of increases and decreases in employment that occur at all businesses in the economy. Business Employment Dynamics (BED) statistics track these changes in employment at private business establishments from the third month of one quarter to the third month of the next. *Gross job gains* are the sum of increases in employment from expansions at existing establishments and the addition of new jobs at opening establishments. *Gross job losses* are the result of contractions in employment at existing establishments and the loss of jobs at closing establishments. The difference between the number of gross job gains and the number of gross job losses is the net change in employment, (see Technical Note, page 6, for more information).

From the 1st quarter of 2015 through the 4th quarter of 2016, gross job losses exceeded gross job gains in six out of eight quarters (see Chart 1). In the past ten years, gross job losses in the state peaked in 1st quarter 2009, towards the end of the 'Great Recession', when 101,545 jobs were lost.

## Chart 2

Components of private sector gross job gains and losses in Oklahoma  
March 2009 - December 2019, seasonally adjusted



Source: U.S. Bureau of Labor Statistics  
Note: Shaded area represents NBER defined recession period.

### Gross Job Gains and Losses: Openings vs. Closings and Expansions vs. Contractions

Gross job gains are the sum of increases in employment due to expansions at existing establishments and the addition of new jobs at opening establishments. Gross job gains at expanding establishments in Oklahoma totaled 65,181 in the 4th quarter of 2019, an increase of 781 jobs compared to the previous quarter. Opening establishments accounted for 17,585 of the jobs gained in the 4th quarter of 2019, an increase of 173 jobs from the previous quarter, (see Chart 2, above).

Gross job losses are the result of contractions in employment at existing establishments and the loss of jobs at closing establishments. Contracting establishments in Oklahoma lost 66,273 jobs in the 4th quarter of 2019, an increase of 2,202 jobs from the prior quarter. In the 4th quarter, closing establishments lost 13,837 jobs, a decrease of 1,028 jobs from the previous quarter.

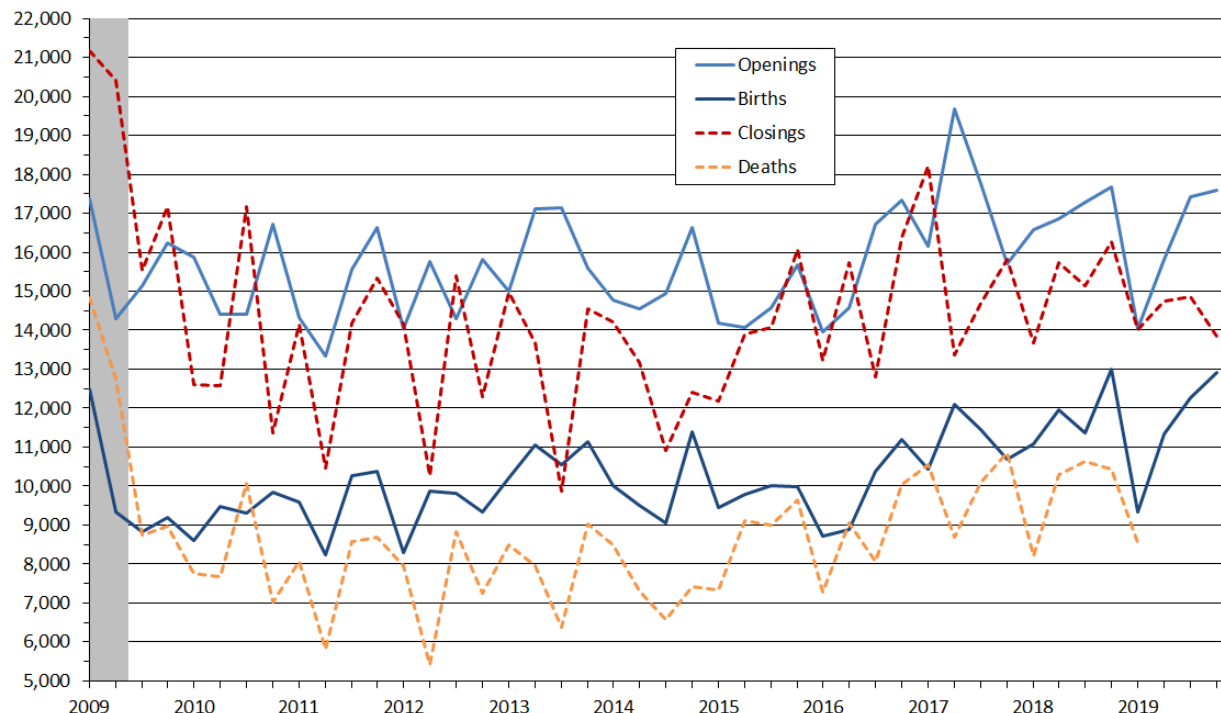
### Establishment Births and Deaths

In Oklahoma, the number of private sector establishment births, (a subset of the openings data), decreased by 140, for a total of 2,567 establishments in the 4th quarter of 2019. These new establishments accounted for 12,917 jobs, an increase of 650 jobs from the previous quarter, (see Chart 3, next page).

Data for establishment deaths, (a subset of the closings data), are now available through the 1st quarter of 2019, when 8,558 jobs were lost at 2,424 establishments, a decrease of 1,869 jobs from the 4th quarter of 2018, (see Chart 3, below).

### Chart 3

Employment from private sector openings, closings, births and deaths in Oklahoma  
March 2009 - December 2019, seasonally adjusted



Source: U.S. Bureau of Labor Statistics  
Note: Shaded area represents NBER defined recession period.

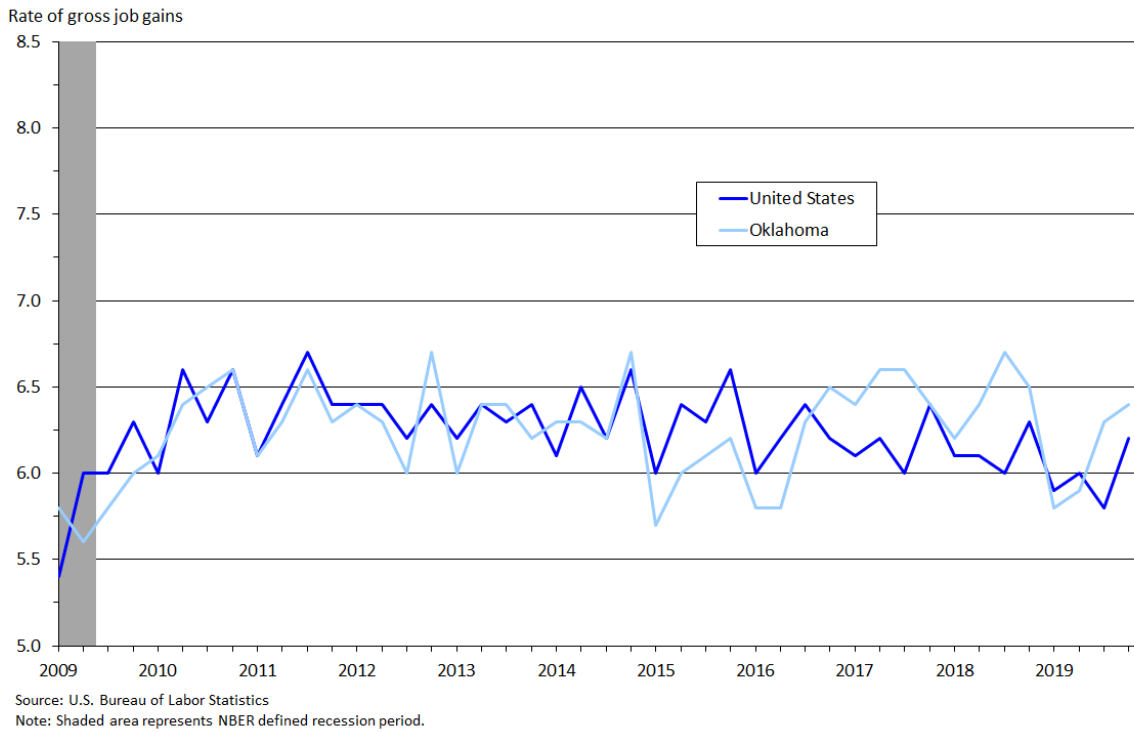
### Gross Job Gains and Gross Job Losses: Percent of Total Private Sector Employment

In the 4th quarter of 2019, gross job gains represented 6.4 percent of private-sector employment in Oklahoma with expansions accounting for 5.0 percent of total private sector employment and openings contributing 1.4 percent. Nationally, gross job gains accounted for 5.6 percent of private sector employment in the 4th quarter of 2019. With few exceptions, Oklahoma's rates of gross job gains have generally tracked with the U.S. rates. However, beginning in the 1st quarter of 2015, the rate of Oklahoma's gross job gains slipped below the national rate for seven consecutive quarters, exceeded the U.S. rate in the following nine quarters and has exceeded the U.S. rate in three out of the past five quarters, (see Chart 4, page 4).

In the 4th quarter of 2019, gross job losses represented 6.2 percent of private-sector employment in Oklahoma, with contractions accounting for 5.1 percent and closings adding another 1.1 percent. The national rate of gross job losses was 5.6 percent in the 4th quarter of 2019. From the 3rd quarter 2013 forward, Oklahoma's rate of gross job losses has shown more volatility especially the period beginning 1st quarter 2015 through 1st quarter 2017, (See Chart 5, page 4).

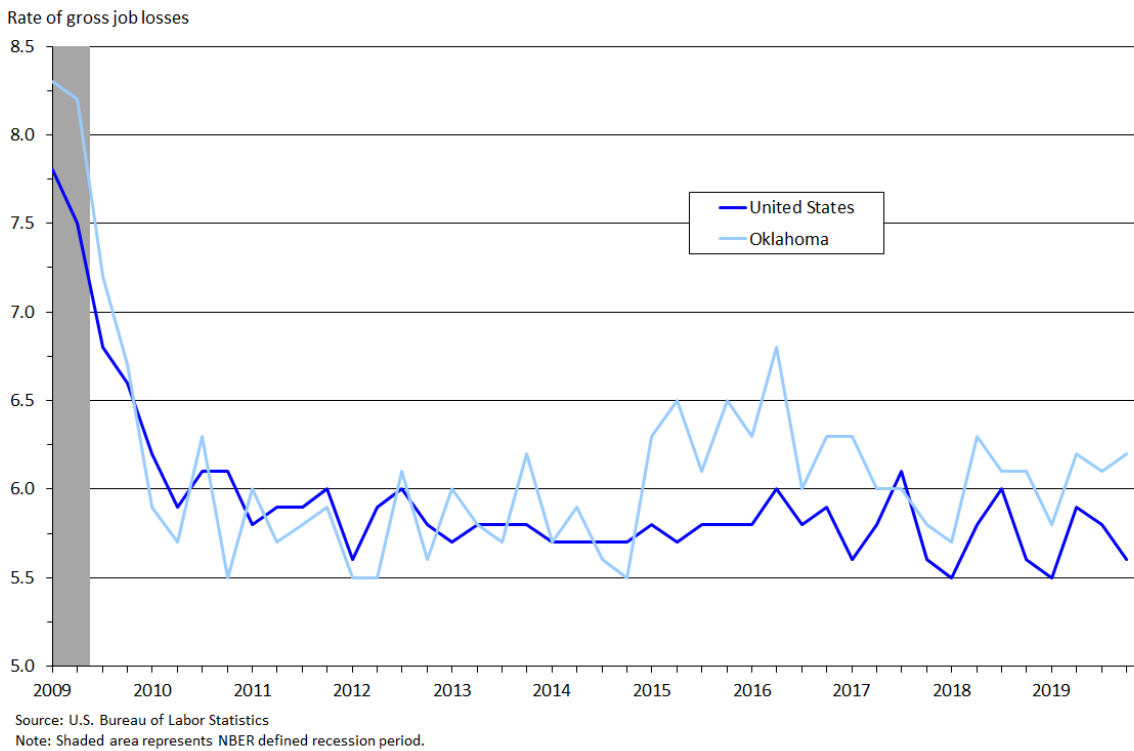
### Chart 4

Private sector gross job gains as a percent of employment, United States and Oklahoma  
March 2009 - December 2019, seasonally adjusted



### Chart 5

Private sector gross job losses as a percent of employment, United States and Oklahoma  
March 2009 - December 2019, seasonally adjusted



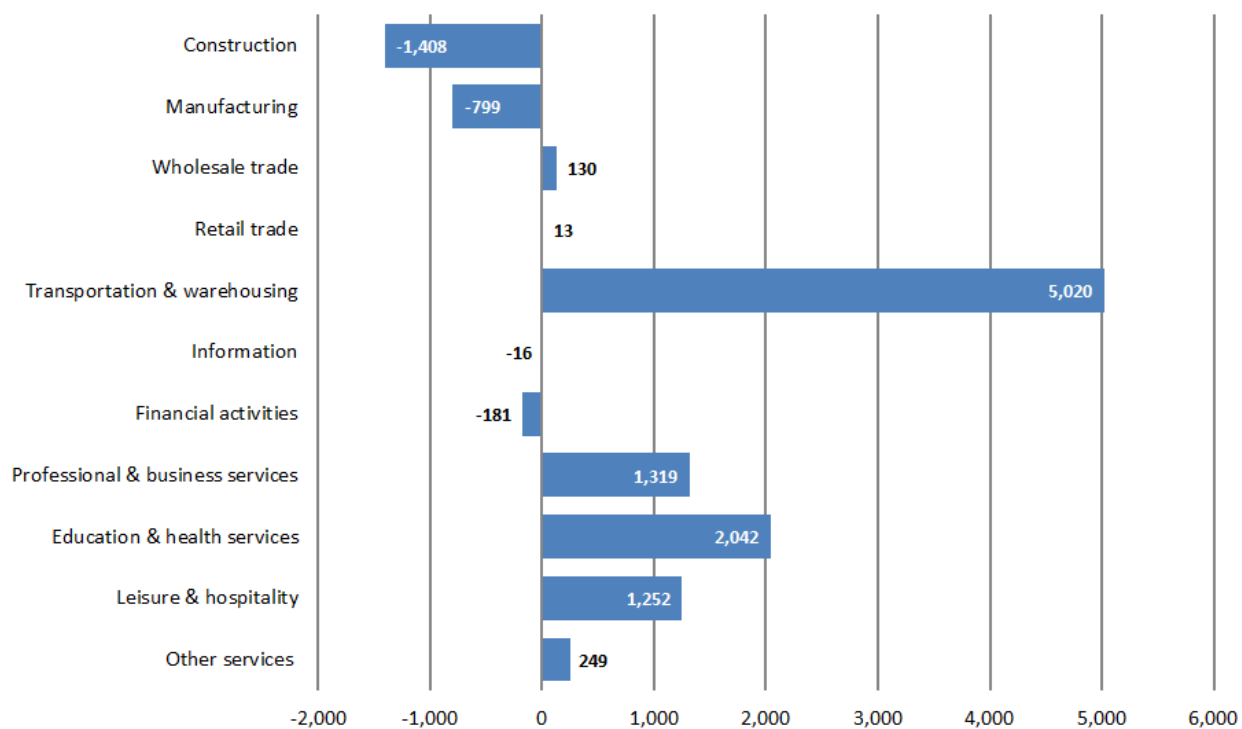
### Gross Job Gains and Gross Job Losses by Industry: 4th Quarter 2019

Gross job gains exceeded gross job losses in 7 of 11 of Oklahoma’s reported industries in the 4th quarter of 2019. The service-providing industries experienced a net job increase of 10,025 jobs in the 4th quarter of 2019. Within service-providing industries, transportation and warehousing had the largest over-the-quarter net job increase, with a gain of 5,020 jobs. This was the result of 7,586 gross job gains and 2,566 gross job losses. The education & health services (2,042 jobs), professional and business services (1,319 jobs), other services (249 jobs), wholesale trade (130 jobs) sectors also had net job increases, while the financial activities (-181 jobs), and information (-16 jobs) sectors showed declines in the 4th quarter of 2019.

Oklahoma’s goods-producing industries saw a net job decrease of 2,207 jobs in the 4th quarter of 2019. Of the goods-producing industries, construction experienced a net decrease of 1,408 jobs, while the manufacturing sector showed a net loss of 799 jobs, (see Chart 6 below and Table 5, pages 12-15).

**Chart 6**

Private sector net change in jobs by industry, Oklahoma  
December 2019, seasonally adjusted



Source: U.S. Department of Labor, Bureau of Labor Statistics

<b>Table 1. Oklahoma: Three-month private sector gross job gains and losses, seasonally adjusted</b>					
Category	3 months ended				
	Dec 2018	March 2019	June 2019	Sep 2019	Dec 2019
	Levels				
Gross job gains.....	<b>84,052</b>	<b>74,976</b>	<b>76,968</b>	<b>81,812</b>	<b>82,766</b>
Expanding establishments	66,373	60,931	61,138	64,400	65,181
Opening establishments	17,679	14,045	15,830	17,412	17,585
Gross job losses.....	<b>78,597</b>	<b>75,282</b>	<b>80,251</b>	<b>78,936</b>	<b>80,110</b>
Contracting establishments	62,326	61,262	65,514	64,071	66,273
Closing establishments	16,271	14,020	14,737	14,865	13,837
Net employment change <sup>1</sup>	5,455	-306	-3,283	2,876	2,656
	Rates (percent)				
Gross job gains.....	<b>6.5</b>	<b>5.8</b>	<b>5.9</b>	<b>6.3</b>	<b>6.4</b>
Expanding establishments	5.1	4.7	4.7	5.0	5.0
Opening establishments	1.4	1.1	1.2	1.3	1.4
Gross job losses.....	<b>6.1</b>	<b>5.8</b>	<b>6.2</b>	<b>6.1</b>	<b>6.2</b>
Contracting establishments	4.8	4.7	5.1	5.0	5.1
Closing establishments	1.3	1.1	1.1	1.1	1.1
Net employment change <sup>1</sup>	0.4	0.0	-0.3	0.2	0.2
Source: U.S Bureau of Labor Statistics					
<sup>1</sup> Net employment change is the difference between total gross job gains and total gross job losses.					

### Additional Statistics and Other Information

Additional information on gross job gains and gross job losses are available online at <http://www.bls.gov/bdm>. This information includes national data on the levels and rates of gross job gains and gross job losses by firm size, the not seasonally adjusted data and other seasonally adjusted time series not presented in this release, charts of gross job gains and gross job losses by industry and firm size, and frequently asked questions on firm-size data. Additional information about the Business Employment Dynamics data can be found in the Technical Note of this release or may be obtained at <https://www.bls.gov/news.release/cewbd.tn.htm>.

### Technical Note

#### Concepts and Methodology

The Business Employment Dynamics (BED) data are a product of a federal-state cooperative program known as Quarterly Census of Employment and Wages (QCEW), or the ES-202 program. The BED data are compiled from existing quarterly QCEW records. The QCEW reports are sent by the State Employment Security Agencies (SESAs) to BLS and form the basis of the Bureau's QCEW program and



establishment universe sampling frame. These reports are also used to produce the QCEW data on total employment and wages. Other important Bureau uses of the QCEW reports are in the Current Employment Statistics (CES) program. The CES program produces monthly estimates of employment, net changes, and earnings by detailed industry.

In the BED program, the QCEW records are linked across quarters to provide a longitudinal history for each establishment. The linkage process allows the tracking of net employment changes at the establishment level, which in turn allows the estimation of jobs gained at opening and expanding establishments and jobs lost at closing and contracting establishments.

The change in the number of jobs over time is the net result of increases and decreases in employment that occur at all businesses in the economy. BED statistics track these changes in employment at private business establishments from the third month of one quarter to the third month of the next. Gross job gains are the sum of increases in employment from expansions at existing establishments and the addition of new jobs at opening establishments. Gross job losses are the result of contractions in employment at existing establishments and the loss of jobs at closing establishments. The difference between the number of gross jobs gained and the number of gross jobs lost is the net change in employment.

Gross job gains and gross job losses are expressed as rates by dividing their levels by the average of employment in the current and previous quarters. The rates are calculated for the components of gross job gains and gross job losses and then summed to form their respective totals. These rates can be added and subtracted just as their levels can. For instance, the difference between the gross job gains rate and the gross job losses rate is the net growth rate.

The formal definitions of employment changes are as follows:

**Openings:** These are either establishments with positive third month employment for the first time in the current quarter, with no links to the prior quarter, or with positive third month employment in the current quarter following zero employment in the previous quarter.

**Expansions:** These are establishments with positive employment in the third month in both the previous and current quarters, with a net increase in employment over this period.

**Closings:** These are either establishments with positive third month employment in the previous quarter, with no employment or zero employment reported in the current quarter.

**Contractions:** These are establishments with positive employment in the third month in both the previous and current quarters, with a net decrease in employment over this period.

**Table 1. Oklahoma: Private sector gross job gains and job losses, seasonally adjusted**

			Gross job gains			Gross job losses		
Year	3 months ended	Net change <sup>1</sup>	Total	Expanding establishments	Opening establishments	Total	Contracting establishments	Closing establishments
2009	March	-31,178	70,367	52,989	17,378	101,545	80,373	21,172
	June	-30,787	66,439	52,140	14,299	97,226	76,821	20,405
	September	-16,494	67,362	52,216	15,146	83,856	68,309	15,547
	December	-7,940	69,080	52,850	16,230	77,020	59,837	17,183
2010	March	1,645	69,561	53,674	15,887	67,916	55,300	12,616
	June	8,940	74,630	60,214	14,416	65,690	53,109	12,581
	September	2,894	75,446	61,028	14,418	72,552	55,376	17,176
	December	14,391	77,881	61,164	16,717	63,490	52,124	11,366
2011	March	756	71,799	57,477	14,322	71,043	56,884	14,159
	June	7,953	74,749	61,401	13,348	66,796	56,320	10,476
	September	10,818	79,252	63,701	15,551	68,434	54,259	14,175
	December	5,660	75,717	59,069	16,648	70,057	54,732	15,325
2012	March	10,738	76,723	62,674	14,049	65,985	51,844	14,141
	June	8,259	76,231	60,473	15,758	67,972	57,706	10,266
	September	-524	73,500	59,201	14,299	74,024	58,629	15,395
	December	13,382	81,803	65,976	15,827	68,421	56,136	12,285
2013	March	207	74,070	59,077	14,993	73,863	58,895	14,968
	June	6,364	78,751	61,649	17,102	72,387	58,716	13,671
	September	8,210	78,714	61,570	17,144	70,504	60,638	9,866
	December	-726	76,708	61,106	15,602	77,434	62,876	14,558
2014	March	5,914	78,078	63,312	14,766	72,164	57,960	14,204
	June	4,426	78,581	64,018	14,563	74,155	60,997	13,158
	September	6,688	77,401	62,466	14,935	70,713	59,797	10,916
	December	15,419	84,970	68,341	16,629	69,551	57,138	12,413
2015	March	-6,442	73,136	58,943	14,193	79,578	67,390	12,188
	June	-6,585	76,502	62,427	14,075	83,087	69,198	13,889
	September	-1,604	76,078	61,500	14,578	77,682	63,608	14,074
	December	-2,749	79,211	63,531	15,680	81,960	65,903	16,057
2016	March	-7,914	72,670	58,726	13,944	80,584	67,361	13,223
	June	-11,973	72,107	57,519	14,588	84,080	68,358	15,722
	September	3,896	79,041	62,308	16,733	75,145	62,338	12,807
	December	2,906	81,245	63,896	17,349	78,339	61,972	16,367
2017	March	837	79,505	63,338	16,167	78,668	60,460	18,208
	June	7,850	82,646	62,961	19,685	74,796	61,427	13,369
	September	8,732	83,600	65,828	17,772	74,868	60,181	14,687
	December	7,328	82,123	66,418	15,705	74,795	58,988	15,807
2018	March	6,408	78,908	62,323	16,585	72,500	58,811	13,689
	June	855	81,937	65,067	16,870	81,082	65,339	15,743
	September	7,666	86,152	68,882	17,270	78,486	63,353	15,133
	December	5,455	84,052	66,373	17,679	78,597	62,326	16,271
2019	March	-306	74,976	60,931	14,045	75,282	61,262	14,020
	June	-3,283	76,968	61,138	15,830	80,251	65,514	14,737
	September	2,876	81,812	64,400	17,412	78,936	64,071	14,865
	December	2,656	82,766	65,181	17,585	80,110	66,273	13,837

<sup>1</sup>Net change is the difference between total gross job gains and total gross job losses.

			Gross job gains			Gross job losses		
Year	3 months ended	Net change <sup>2</sup>	Total	Expanding establishments	Opening establishments	Total	Contracting establishments	Closing establishments
2009	March	-2.5	5.8	4.4	1.4	8.3	6.6	1.7
	June	-2.6	5.6	4.4	1.2	8.2	6.5	1.7
	September	-1.4	5.8	4.5	1.3	7.2	5.9	1.3
	December	-0.7	6.0	4.6	1.4	6.7	5.2	1.5
2010	March	0.2	6.1	4.7	1.4	5.9	4.8	1.1
	June	0.7	6.4	5.2	1.2	5.7	4.6	1.1
	September	0.2	6.5	5.3	1.2	6.3	4.8	1.5
	December	1.1	6.6	5.2	1.4	5.5	4.5	1.0
2011	March	0.1	6.1	4.9	1.2	6.0	4.8	1.2
	June	0.6	6.3	5.2	1.1	5.7	4.8	0.9
	September	0.8	6.6	5.3	1.3	5.8	4.6	1.2
	December	0.4	6.3	4.9	1.4	5.9	4.6	1.3
2012	March	0.9	6.4	5.2	1.2	5.5	4.3	1.2
	June	0.8	6.3	5.0	1.3	5.5	4.7	0.8
	September	-0.1	6.0	4.8	1.2	6.1	4.8	1.3
	December	1.1	6.7	5.4	1.3	5.6	4.6	1.0
2013	March	0.0	6.0	4.8	1.2	6.0	4.8	1.2
	June	0.6	6.4	5.0	1.4	5.8	4.7	1.1
	September	0.7	6.4	5.0	1.4	5.7	4.9	0.8
	December	0.0	6.2	4.9	1.3	6.2	5.0	1.2
2014	March	0.6	6.3	5.1	1.2	5.7	4.6	1.1
	June	0.4	6.3	5.1	1.2	5.9	4.9	1.0
	September	0.6	6.2	5.0	1.2	5.6	4.7	0.9
	December	1.2	6.7	5.4	1.3	5.5	4.5	1.0
2015	March	-0.6	5.7	4.6	1.1	6.3	5.3	1.0
	June	-0.5	6.0	4.9	1.1	6.5	5.4	1.1
	September	0.0	6.1	4.9	1.2	6.1	5.0	1.1
	December	-0.3	6.2	5.0	1.2	6.5	5.2	1.3
2016	March	-0.5	5.8	4.7	1.1	6.3	5.3	1.0
	June	-1.0	5.8	4.6	1.2	6.8	5.5	1.3
	September	0.3	6.3	5.0	1.3	6.0	5.0	1.0
	December	0.2	6.5	5.1	1.4	6.3	5.0	1.3
2017	March	0.1	6.4	5.1	1.3	6.3	4.8	1.5
	June	0.6	6.6	5.0	1.6	6.0	4.9	1.1
	September	0.6	6.6	5.2	1.4	6.0	4.8	1.2
	December	0.6	6.4	5.2	1.2	5.8	4.6	1.2
2018	March	0.5	6.2	4.9	1.3	5.7	4.6	1.1
	June	0.1	6.4	5.1	1.3	6.3	5.1	1.2
	September	0.6	6.7	5.4	1.3	6.1	4.9	1.2
	December	0.4	6.5	5.1	1.4	6.1	4.8	1.3
2019	March	0.0	5.8	4.7	1.1	5.8	4.7	1.1
	June	-0.3	5.9	4.7	1.2	6.2	5.1	1.1
	September	0.2	6.3	5.0	1.3	6.1	5.0	1.1
	December	0.2	6.4	5.0	1.4	6.2	5.1	1.1

<sup>1</sup>The rates measure gross job gains and job losses as a percentage of the average of the previous and current employment levels.

<sup>2</sup>Net change is the difference between total gross job gains and total gross job losses.

**Table 3. Oklahoma: Private sector establishment births and deaths, seasonally adjusted**

Year	3 months ended	Births <sup>1</sup>		Deaths <sup>2</sup>	
		Establishments	Employment	Establishments	Employment
2009	March	2,593	12,492	2,578	14,840
	June	1,893	9,326	3,197	12,745
	September	1,835	8,815	2,108	8,757
	December	2,335	9,204	2,164	8,964
2010	March	2,239	8,617	1,791	7,768
	June	2,209	9,472	1,935	7,676
	September	2,171	9,319	2,646	10,067
	December	2,365	9,850	1,884	7,020
2011	March	2,140	9,596	2,353	8,074
	June	2,057	8,234	1,625	5,818
	September	2,209	10,254	2,136	8,566
	December	2,395	10,368	2,007	8,696
2012	March	2,109	8,288	2,164	7,963
	June	2,178	9,883	1,558	5,420
	September	2,369	9,822	2,279	8,827
	December	1,962	9,329	1,775	7,238
2013	March	2,463	10,200	2,396	8,486
	June	2,315	11,058	2,079	7,952
	September	2,545	10,534	1,684	6,388
	December	2,329	11,139	2,158	9,012
2014	March	2,356	10,025	2,484	8,500
	June	2,449	9,512	1,965	7,301
	September	2,338	9,051	1,685	6,583
	December	2,496	11,401	2,072	7,420
2015	March	2,376	9,444	2,340	7,345
	June	2,352	9,780	2,544	9,107
	September	2,362	10,020	2,413	9,002
	December	2,347	9,987	2,439	9,658
2016	March	2,256	8,713	2,307	7,289
	June	2,305	8,888	2,374	9,054
	September	2,350	10,392	2,326	8,075
	December	2,399	11,184	2,365	10,038
2017	March	2,540	10,437	2,902	10,556
	June	2,546	12,108	1,969	8,699
	September	2,539	11,446	2,121	10,083
	December	2,392	10,680	2,726	10,854
2018	March	2,261	11,086	2,225	8,207
	June	2,556	11,953	2,735	10,301
	September	2,485	11,374	2,498	10,626
	December	2,716	13,010	2,481	10,427
2019	March	2,297	9,339	2,424	8,558
	June	2,653	11,325	N/A	N/A
	September	2,707	12,267	N/A	N/A
	December	2,567	12,917	N/A	N/A

<sup>1</sup> Values for births are not available for the first three quarters

<sup>2</sup> Values for deaths are not available for the most recent three quarters by definition.

<b>Table 4. Oklahoma: Rates<sup>1</sup> of private sector establishment births and deaths, seasonally adjusted</b>					
		<b>Births<sup>2</sup></b>		<b>Deaths<sup>3</sup></b>	
<b>Year</b>	<b>3 months ended</b>	<b>Establishments</b>	<b>Employment</b>	<b>Establishments</b>	<b>Employment</b>
2009	March	3.1	1.0	3.1	1.2
	June	2.3	0.8	3.9	1.1
	September	2.3	0.8	2.6	0.8
	December	2.9	0.8	2.7	0.8
2010	March	2.7	0.7	2.2	0.7
	June	2.7	0.8	2.4	0.7
	September	2.6	0.8	3.2	0.9
	December	2.9	0.8	2.3	0.6
2011	March	2.6	0.8	2.8	0.7
	June	2.5	0.7	2.0	0.5
	September	2.7	0.9	2.6	0.7
	December	2.9	0.9	2.4	0.7
2012	March	2.5	0.7	2.6	0.7
	June	2.6	0.8	1.9	0.4
	September	2.8	0.8	2.7	0.7
	December	2.3	0.8	2.1	0.6
2013	March	2.9	0.8	2.8	0.7
	June	2.7	0.9	2.4	0.6
	September	3.0	0.8	2.0	0.5
	December	2.7	0.9	2.5	0.7
2014	March	2.7	0.8	2.9	0.7
	June	2.8	0.8	2.3	0.6
	September	2.7	0.7	1.9	0.5
	December	2.8	0.9	2.3	0.6
2015	March	2.7	0.7	2.6	0.6
	June	2.7	0.8	2.9	0.7
	September	2.7	0.8	2.7	0.7
	December	2.6	0.8	2.7	0.8
2016	March	2.5	0.7	2.6	0.6
	June	2.6	0.7	2.7	0.7
	September	2.7	0.8	2.6	0.6
	December	2.7	0.9	2.7	0.8
2017	March	2.9	0.8	3.3	0.8
	June	2.9	1.0	2.2	0.7
	September	2.8	0.9	2.4	0.8
	December	2.7	0.8	3.0	0.9
2018	March	2.5	0.9	2.5	0.6
	June	2.9	0.9	3.1	0.8
	September	2.8	0.9	2.8	0.8
	December	3.0	1.0	2.8	0.8
2019	March	2.5	0.7	2.7	0.7
	June	2.9	0.9	N/A	N/A
	September	3.0	0.9	N/A	N/A
	December	2.8	1.0	N/A	N/A

<sup>1</sup>The rates measure births and deaths as a percentage of the average of the previous and current quarter employment levels or total number of establishments.

<sup>2</sup>Values for births are not available for the first three quarters of the time series by definition.

<sup>3</sup>Values for deaths are not available for the most recent three quarters by definition.

**Table 5. Private sector gross job gains and losses by industry, Oklahoma, seasonally adjusted**

Category	Gross job gains and job losses (3 months ended)					Gross job gains and job losses as a percent of employment (3 months ended)				
	Dec. 2018	Mar. 2019	Jun. 2019	Sep. 2019	Dec. 2019	Dec. 2018	Mar. 2019	Jun. 2019	Sep. 2019	Dec. 2019
	Total private <sup>1</sup> .....									
Gross job gains .....	84,052	74,976	76,968	81,812	82,766	6.5	5.8	5.9	6.3	6.4
At expanding establishments ...	66,373	60,931	61,138	64,400	65,181	5.1	4.7	4.7	5.0	5.0
At opening establishments ...	17,679	14,045	15,830	17,412	17,585	1.4	1.1	1.2	1.3	1.4
Gross job losses .....	78,597	75,282	80,251	78,936	80,110	6.1	5.8	6.2	6.1	6.2
At contracting establishments ...	62,326	61,262	65,514	64,071	66,273	4.8	4.7	5.1	5.0	5.1
At closing establishments ...	16,271	14,020	14,737	14,865	13,837	1.3	1.1	1.1	1.1	1.1
Net employment change <sup>2</sup> .....	5,455	-306	-3,283	2,876	2,656	0.4	0.0	-0.3	0.2	0.2
Construction .....										
Gross job gains .....	8,436	9,024	8,043	8,420	6,646	10.8	10.8	9.7	10.1	8.1
At expanding establishments ...	6,756	7,576	6,714	6,753	5,349	8.2	9.1	8.1	8.1	6.5
At opening establishments ...	1,680	1,448	1,329	1,667	1,297	2.0	1.7	1.6	2.0	1.6
Gross job losses .....	8,500	7,859	9,041	7,681	8,054	10.4	9.4	10.9	9.2	9.8
At contracting establishments ...	6,900	6,338	7,579	6,021	6,593	8.4	7.6	9.1	7.2	8.0
At closing establishments ...	1,600	1,521	1,462	1,660	1,461	2.0	1.8	1.8	2.0	1.8
Net employment change <sup>2</sup> .....	-64	1,165	-998	739	-1,408	1.4	1.4	-1.2	0.9	-1.7
Manufacturing .....										
Gross job gains .....	5,180	5,298	4,636	4,266	4,803	3.7	3.7	3.3	3.0	3.4
At expanding establishments ...	4,171	4,273	3,924	3,674	4,259	3.0	3.0	2.8	2.6	3.0
At opening establishments ...	1,009	1,025	712	592	544	0.7	0.7	0.5	0.4	0.4
Gross job losses .....	5,041	4,388	4,891	5,231	5,602	3.7	3.1	3.5	3.7	4.0
At contracting establishments ...	3,701	3,566	4,195	4,698	5,085	2.7	2.5	3.0	3.3	3.6
At closing establishments ...	1,340	822	696	533	517	1.0	0.6	0.5	0.4	0.4
Net employment change <sup>2</sup> .....	139	910	-255	-965	-799	0.0	0.6	-0.2	-0.7	-0.6
Wholesale trade .....										
Gross job gains .....	4,193	2,810	2,977	3,002	3,031	7.2	4.8	5.1	5.3	5.2
At expanding establishments ...	3,398	2,233	2,369	2,223	2,230	5.8	3.8	4.1	3.9	3.8
At opening establishments ...	795	577	608	779	801	1.4	1.0	1.0	1.4	1.4

Note: See footnotes at end of table

**Table 5. Private sector gross job gains and losses by industry, Oklahoma, seasonally adjusted (cont.)**

Category	Gross job gains and job losses (3 months ended)					Gross job gains and job losses as a percent of employment (3 months ended)				
	Dec. 2018	Mar. 2019	Jun. 2019	Sep. 2019	Dec. 2019	Dec. 2018	Mar. 2019	Jun. 2019	Sep. 2019	Dec. 2019
Gross job losses .....	3,144	2,764	2,891	3,316	2,901	5.4	4.8	5.0	5.7	5.0
At contracting establishments ...	1,961	2,088	2,261	2,333	2,374	3.4	3.6	3.9	4.0	4.1
At closing establishments ...	1,183	676	630	983	527	2.0	1.2	1.1	1.7	0.9
Net employment change <sup>2</sup> .....	1,049	46	86	-3,316	-2,901	1.8	0.0	0.1	-5.7	-5.0
Retail trade .....										
Gross job gains .....	9,263	10,410	10,295	11,087	10,645	5.2	5.9	5.9	6.3	6.0
At expanding establishments ...	7,883	8,595	8,433	9,216	8,918	4.4	4.9	4.8	5.2	5.0
At opening establishments ...	1,380	1,815	1,862	1,871	1,727	0.8	1.0	1.1	1.1	1.0
Gross job losses .....	11,241	10,328	10,906	10,134	10,632	6.3	5.8	6.2	5.7	6.0
At contracting establishments ...	9,768	9,042	9,323	8,675	9,157	5.5	5.1	5.3	4.9	5.2
At closing establishments ...	1,473	1,286	1,583	1,459	1,475	0.8	0.7	0.9	0.8	0.8
Net employment change <sup>2</sup> .....	-1,978	82	-611	953	13	-1.1	0.1	-0.3	0.6	0.0
Transportation and warehousing .....										
Gross job gains .....	5,071	2,094	2,935	5,744	7,586	9.5	3.8	5.6	10.6	12.9
At expanding establishments ...	4,334	1,651	2,662	5,394	6,746	8.1	3.0	5.1	10.0	11.5
At opening establishments ...	737	443	273	350	840	1.4	0.8	0.5	0.6	1.4
Gross job losses .....	2,356	4,765	2,452	2,348	2,566	4.4	8.8	4.7	4.4	4.4
At contracting establishments ...	1,862	4,462	2,055	1,879	2,066	3.5	8.2	3.9	3.5	3.5
At closing establishments ...	494	303	397	469	500	0.9	0.6	0.8	0.9	0.9
Net employment change <sup>2</sup> .....	2,715	-2,671	483	3,396	5,020	5.1	-5.0	0.9	6.2	8.5
Information .....										
Gross job gains .....	951	969	1,017	1,035	900	4.8	4.9	5.2	5.3	4.6
At expanding establishments ...	650	783	719	731	759	3.3	4.0	3.7	3.7	3.9
At opening establishments ...	301	186	298	304	141	1.5	0.9	1.5	1.6	0.7
Gross job losses .....	1,307	1,198	1,077	1,113	916	6.6	6.0	5.5	5.7	4.7
At contracting establishments ...	1,144	880	799	858	745	5.8	4.4	4.1	4.4	3.8
At closing establishments ...	163	318	278	255	171	0.8	1.6	1.4	1.3	0.9
Net employment change <sup>2</sup> .....	-356	-229	-60	-78	-16	-1.8	-1.1	-0.3	-0.4	-0.1

Note: See footnotes at end of table

**Table 5. Private sector gross job gains and losses by industry, Oklahoma, seasonally adjusted (cont.)**

Category	Gross job gains and job losses (3 months ended)					Gross job gains and job losses as a percent of employment (3 months ended)				
	Dec.	Mar.	Jun.	Sep.	Dec.	Dec.	Mar.	Jun.	Sep.	Dec.
	2018	2019	2019	2019	2019	2018	2019	2019	2019	2019
Financial activities .....										
Gross job gains .....	3,976	3,543	3,706	3,362	3,873	5.1	4.6	4.8	4.3	5.0
At expanding establishments ...	2,892	2,778	2,851	2,579	2,832	3.7	3.6	3.7	3.3	3.7
At opening establishments ...	1,084	765	855	783	1,041	1.4	1.0	1.1	1.0	1.3
Gross job losses .....	4,123	3,603	3,730	3,542	4,054	5.3	4.7	4.8	4.6	5.3
At contracting establishments ...	3,162	2,678	2,876	2,613	3,145	4.1	3.5	3.7	3.4	4.1
At closing establishments ...	961	925	854	929	909	1.2	1.2	1.1	1.2	1.2
Net employment change <sup>2</sup> .....	-147	-60	-24	-180	-181	-0.2	-0.1	0.0	-0.3	-0.3
Professional and business services .....										
Gross job gains .....	15,449	13,089	13,844	13,938	15,160	8.0	6.8	7.2	7.2	7.7
At expanding establishments ...	11,860	10,618	10,395	10,876	10,783	6.1	5.5	5.4	5.6	5.5
At opening establishments ...	3,589	2,471	3,449	3,062	4,377	1.9	1.3	1.8	1.6	2.2
Gross job losses .....	14,426	12,250	13,411	14,282	13,841	7.5	6.3	7.0	7.3	7.1
At contracting establishments ...	11,341	9,855	10,789	11,092	10,728	5.9	5.1	5.6	5.7	5.5
At closing establishments ...	3,085	2,395	2,622	3,190	3,113	1.6	1.2	1.4	1.6	1.6
Net employment change <sup>2</sup> .....	1,023	839	433	-344	1,319	0.5	0.5	0.2	-0.1	0.6
Education and health services .....										
Gross job gains .....	9,755	8,841	10,065	9,329	10,286	4.6	4.2	4.7	4.3	4.8
At expanding establishments ...	7,595	7,428	8,373	7,348	7,998	3.6	3.5	3.9	3.4	3.7
At opening establishments ...	2,160	1,413	1,692	1,981	2,288	1.0	0.7	0.8	0.9	1.1
Gross job losses .....	8,881	8,660	8,995	8,881	8,244	4.2	4.1	4.3	4.2	3.8
At contracting establishments ...	6,611	6,458	6,743	7,041	6,673	3.1	3.1	3.2	3.3	3.1
At closing establishments ...	2,270	2,202	2,252	1,840	1,571	1.1	1.0	1.1	0.9	
Net employment change <sup>2</sup> .....	874	181	1,070	448	2,042	0.4	0.1	0.4	0.1	1.0
Leisure and hospitality										
Gross job gains .....	14,642	13,200	13,520	15,801	14,539	8.4	7.5	7.8	9.2	8.3
At expanding establishments ...	11,139	10,529	10,360	11,353	11,277	6.4	6.0	6.0	6.6	6.4
At opening establishments ...	3,503	2,671	3,160	4,448	3,262	2.0	1.5	1.8	2.6	1.9

Note: See footnotes at end of table



**Table 5. Private sector gross job gains and losses by industry, Oklahoma, seasonally adjusted (cont.)**

Category	Gross job gains and job losses (3 months ended)					Gross job gains and job losses as a percent of employment (3 months ended)				
	Dec. 2018	Mar. 2019	Jun. 2019	Sep. 2019	Dec. 2019	Dec. 2018	Mar. 2019	Jun. 2019	Sep. 2019	Dec. 2019
Gross job losses .....	13,243	12,433	15,217	13,407	13,287	7.7	7.1	8.8	7.8	7.6
At contracting establishments ...	10,877	10,188	12,637	11,415	11,082	6.3	5.8	7.3	6.6	6.3
At closing establishments ...	2,366	2,245	2,580	1,992	2,205	1.4	1.3	1.5	1.2	1.3
Net employment change <sup>2</sup> .....	1,399	767	-1,697	-13,407	-13,287	0.7	0.4	-1.0	-7.8	-7.6
Other services <sup>3</sup>										
Gross job gains .....	2,933	2,911	2,884	2,916	2,759	8.2	8.2	8.1	8.2	7.6
At expanding establishments ...	2,354	2,205	2,125	2,239	2,240	6.6	6.2	6.0	6.3	6.2
At opening establishments ...	579	706	759	677	519	1.6	2.0	2.1	1.9	1.4
Gross job losses .....	2,879	2,722	2,795	2,674	2,510	8.0	7.6	7.8	7.5	7.0
At contracting establishments ...	2,295	2,070	2,010	2,094	1,885	6.4	5.8	5.6	5.9	5.3
At closing establishments ...	584	652	785	580	625	1.6	1.8	2.2	1.6	1.7
Net employment change <sup>2</sup> .....	54	189	89	242	249	0.2	0.6	0.3	0.7	0.6

## Footnotes:

(1) Includes unclassified sector not shown separately.

(2) The net employment change is the difference between total gross job gains and total gross job losses.

See the Technical Note for further information.

(3) Except public administration.

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