

2018

Business Employment Dynamics

4th Quarter



Oklahoma Employment Security Commission
Economic Research and Analysis Division

OKLAHOMA BUSINESS EMPLOYMENT DYNAMICS

4th Quarter 2018

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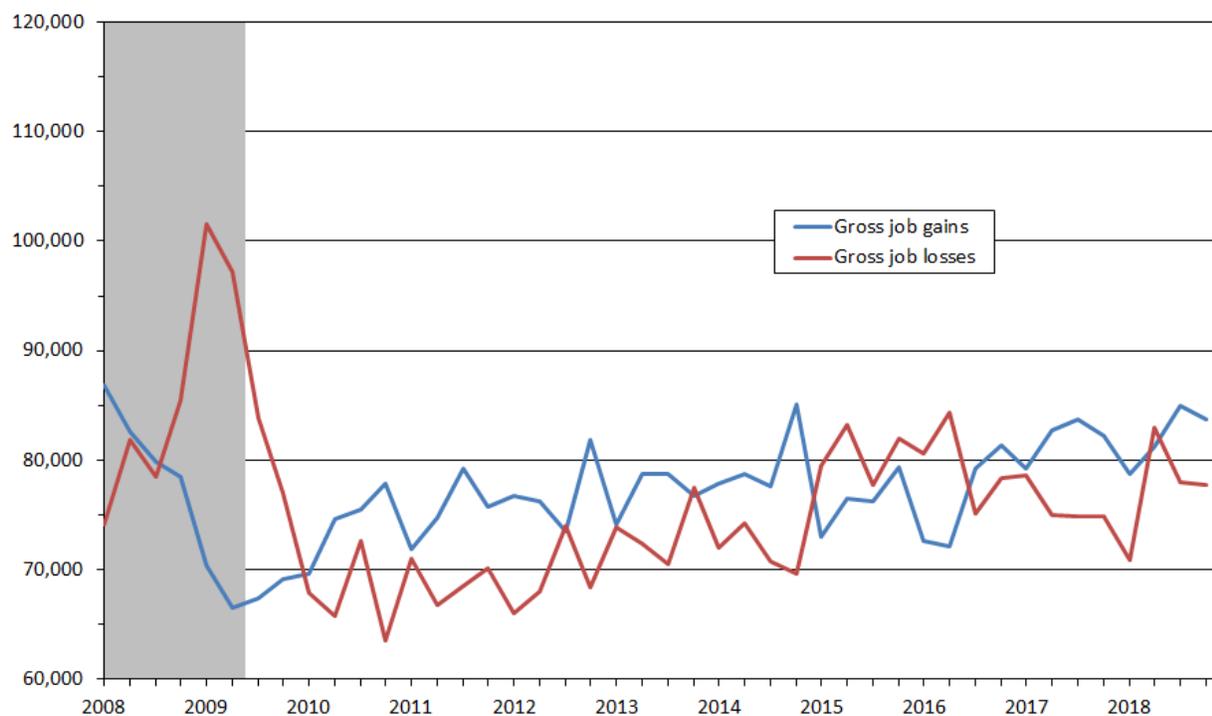
OKLAHOMA BUSINESS EMPLOYMENT DYNAMICS: 4th Quarter 2018

Gross Job Gains and Gross Job Losses: 4th Quarter 2018

From September 2018 to December 2018, gross job gains from opening and expanding private-sector establishments in Oklahoma totaled 83,749, while gross job losses from closing and contracting private-sector establishments numbered 77,698, 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 6,051 jobs in Oklahoma’s private sector during the 4th quarter of 2018. In the previous quarter, gross job gains exceeded gross job losses by 7,004.

Chart 1

Private sector gross job gains and gross job losses in Oklahoma
March 2008 - December 2018, seasonally adjusted



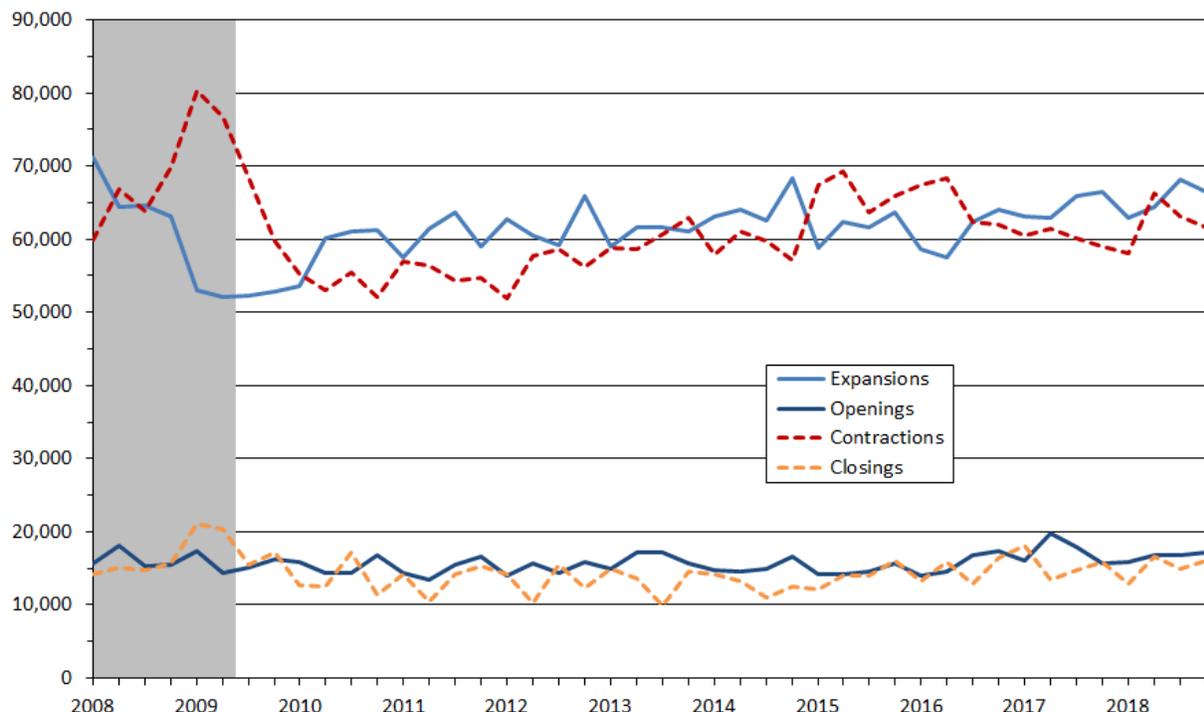
Source: U.S. Bureau of Labor Statistics
Note: Shaded area represents NBER defined recession period.

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).

The number of gross job gains in Oklahoma decreased by 1,231 from September 2018 to December 2018, (see Chart 1, above and Table 1, page 6). At the same time, gross job losses declined from the previous quarter by 278. 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. In the past ten years, gross job losses in the state peaked in 1st quarter 2009, at the end of the ‘Great Recession’, when 93,397 jobs were lost.

Chart 2

Components of private sector gross job gains and losses in Oklahoma
March 2008 - December 2018, seasonally adjusted



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

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

Expanding establishments in Oklahoma gained 66,571 jobs in the 4th quarter of 2018, which was 1,660 less jobs gained compared to the 3rd quarter of 2018. Contracting establishments lost 61,675 jobs in the October to December quarter, 1,446 fewer jobs lost than in the previous quarter (see Chart 2, above).

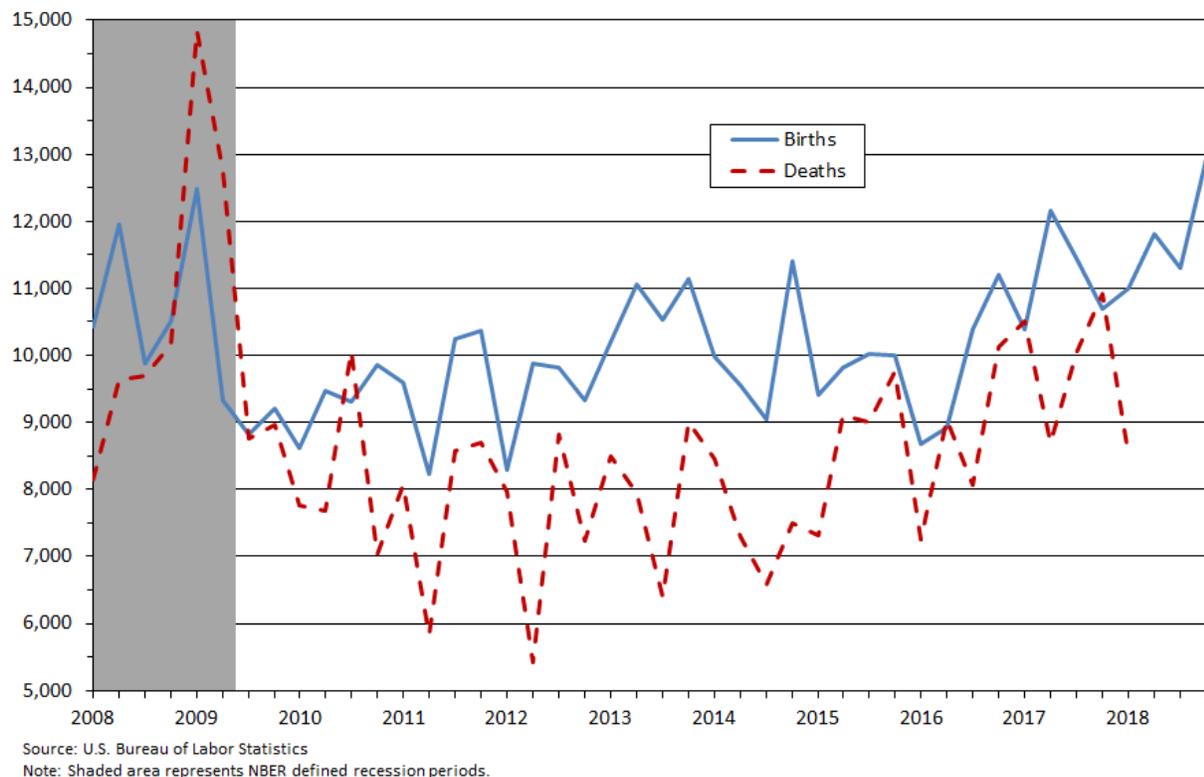
From October 2018 to December 2018, there were 17,187 jobs gained from opening establishments. This represents 429 more jobs gained from openings than the prior quarter. Closing establishments lost 16,023 jobs during the 4th quarter of 2018, representing 1,168 more jobs lost from private sector establishment closings than in the 3rd quarter of 2018.

In Oklahoma, the number of private sector establishment births, (a subset of the openings data), increased by 220 to 2,684 births in the 4th quarter of 2018—the largest quarterly gain in over 10 years. These new establishments accounted for 12,938 jobs, 1,635 more jobs than in 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 2018. From December 2017 to March 2018, there were 8,518 jobs lost due to 2,253 private sector establishment deaths in Oklahoma. In the prior quarter, 10,910 jobs were lost due to 2,725 private sector establishment deaths (see Chart 3, below).

Chart 3

Employment from private sector establishment births and deaths in Oklahoma
March 2008 - December 2018, seasonally adjusted



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

Gross job gains represented 6.4 percent of total private sector employment in Oklahoma for the quarter ending December 2018 with expansions accounting for 5.1 percent of total private sector employment and openings contributing 1.3 percent. Nationally, gross job gains accounted for 6.1 percent of private sector employment in the 4th quarter of 2018. 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 but have exceeded the U.S. rate in eight of the past nine quarters, (See Chart 4, page 4).

In the 4th quarter of 2018, Oklahoma’s rate of gross job losses represented 6.0 percent of private-sector employment, with contractions accounting for 4.8 percent and closings adding another 1.2 percent. The national rate of gross job losses was 5.6 percent. 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 2008 - December 2018, seasonally adjusted

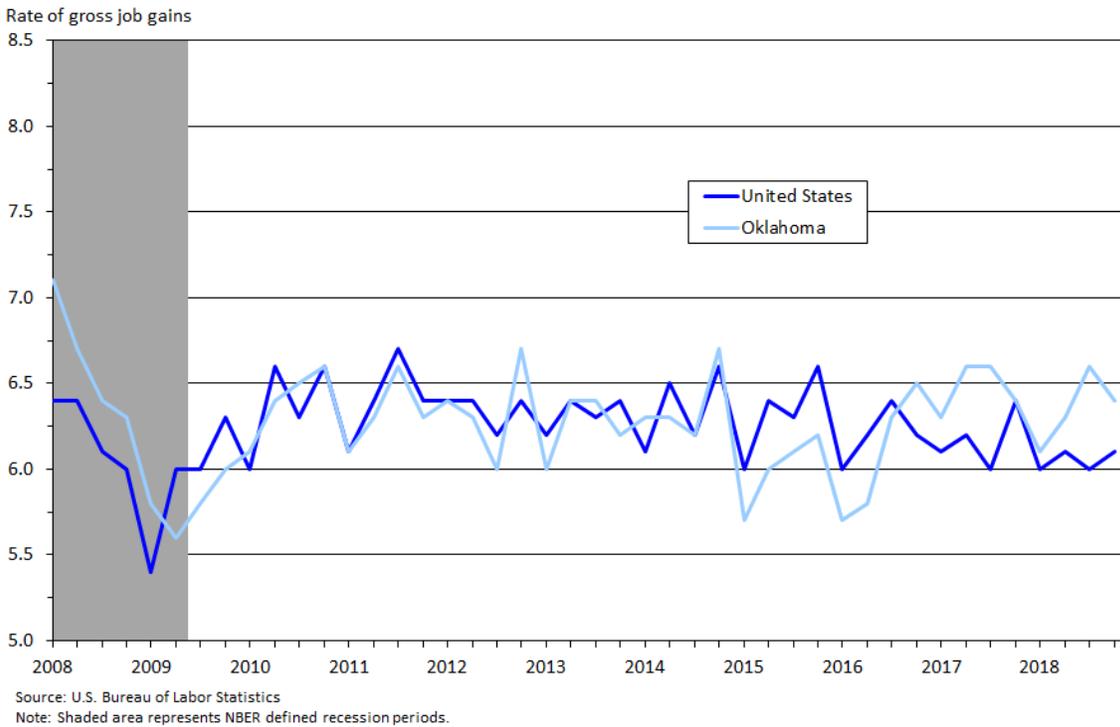
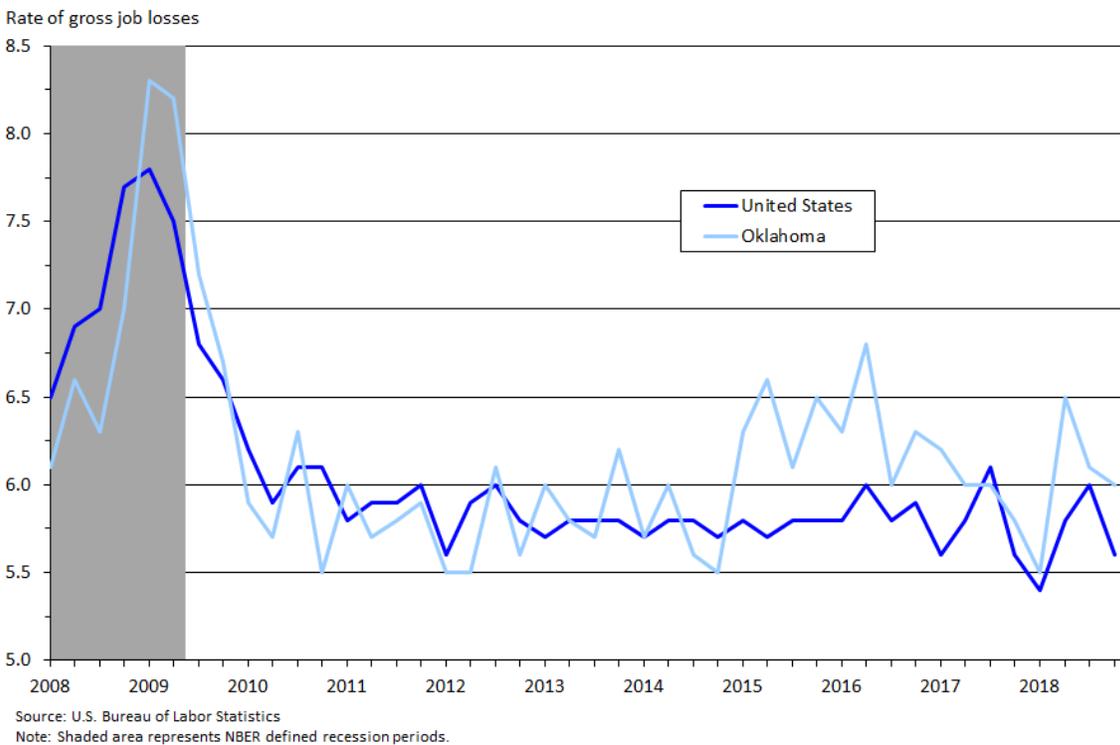


Chart 5

Private sector gross job losses as a percent of employment, United States and Oklahoma
March 2008 - December 2018, seasonally adjusted



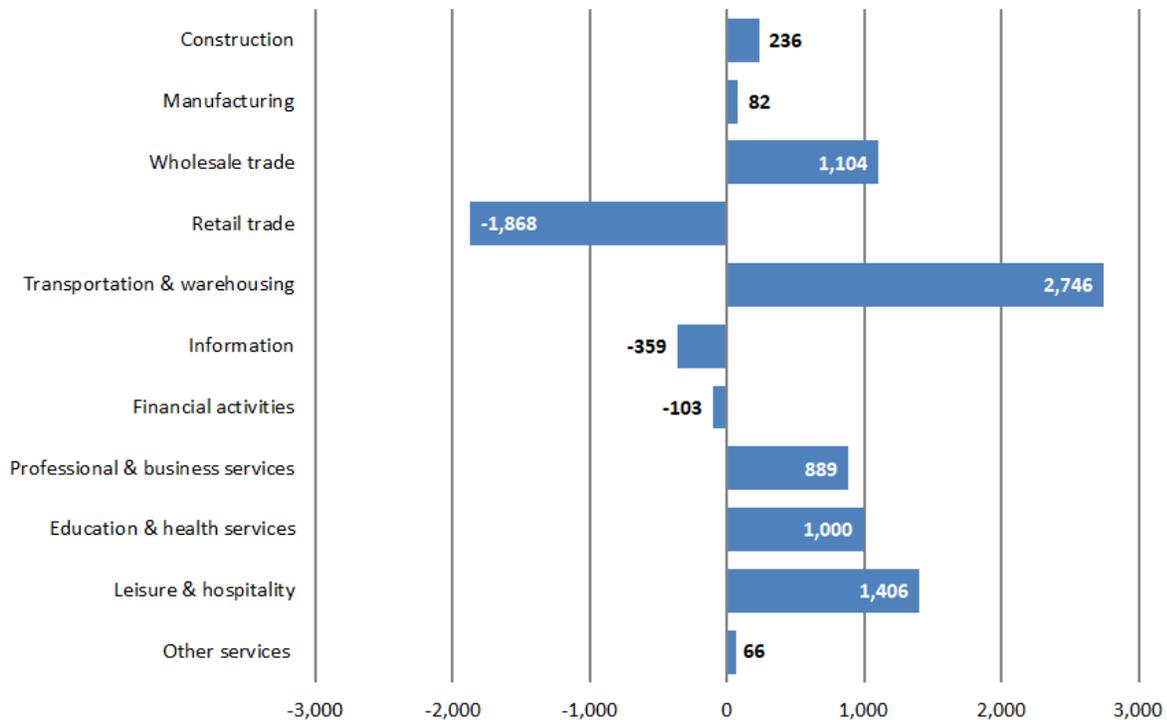
Gross Job Gains and Gross Job Losses by Industry: 4th Quarter 2018

Gross job gains exceeded gross job losses in 8 of 11 reported Oklahoma industries in the 4th quarter of 2018. Transportation and warehousing had the largest positive net change in jobs as gross job gains exceeded gross job losses by 2,746 jobs. While 5,068 jobs were created at opening and expanding transportation and warehousing establishments, 2,322 jobs were lost at closing and contracting establishments for the three months ending December 2018. Leisure & hospitality also had a significant positive net change in jobs in the 4th quarter as gross job gains exceeded gross job losses by 1,406 jobs. Other sectors showing net job gains in 4th quarter 2018 were Construction (236); Manufacturing (82 jobs); Wholesale trade (1,104 jobs); Professional & business services (889 jobs); education and health services (1,000 jobs); and other services (66).

Retail trade saw the largest negative net change in jobs in the 4th quarter of 2018 as gross job losses exceeded gross job gains by 1,868 jobs. Although 9,213 jobs were created at opening and expanding manufacturing establishments, 11,081 jobs were lost at closing and contracting establishments for the three months ending December 2018. Information followed, gaining 952 jobs at opening and expanding establishments but losing 1,311 jobs at closing and contracting establishments, resulting in a net job loss of 359 jobs. The only other sector with net job losses in 4th quarter 2018 was Financial activities (-103 jobs), (see Chart 6 below and Table 5, pages 12-15).

Chart 6

Private sector net change in jobs by industry, Oklahoma
December 2018, seasonally adjusted



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

Table 1. Oklahoma: Three-month private sector gross job gains and losses, seasonally adjusted					
Category	Dec	March	June	Sep	Dec
	2017	2018	2018	2018	2018
	Levels				
Gross job gains.....	82,246	78,771	81,185	84,980	83,749
Expanding establishments	66,487	62,852	64,459	68,231	66,571
Opening establishments	15,759	15,919	16,726	16,749	17,178
Gross job losses.....	74,837	70,899	82,922	77,976	77,698
Contracting establishments	58,962	58,040	66,297	63,121	61,675
Closing establishments	15,875	12,859	16,625	14,855	16,023
Net employment change ¹	7,409	7,872	-1,737	7,004	6,051
	Rates (percent)				
Gross job gains.....	6.4	6.1	6.3	6.6	6.4
Expanding establishments	5.2	4.9	5.0	5.3	5.1
Opening establishments	1.2	1.2	1.3	1.3	1.3
Gross job losses.....	5.8	5.5	6.5	6.1	6.0
Contracting establishments	4.6	4.5	5.2	4.9	4.8
Closing establishments	1.2	1.0	1.3	1.2	1.2
Net employment change ¹	0.6	0.6	-0.2	0.5	0.4
Source: U.S Bureau of Labor Statistics					
¹ 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

Year	3 months ended	Net change ¹	Gross job gains			Gross job losses		
			Total	Expanding establishments	Opening establishment	Total	Contracting establishments	Closing establishments
2008	March	12,641	86,785	71,079	15,706	74,144	59,959	14,185
	June	705	82,583	64,449	18,134	81,878	66,815	15,063
	September	1,383	79,905	64,675	15,230	78,522	63,851	14,671
	December	-6,998	78,512	63,049	15,463	85,510	69,908	15,602
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	5,793	77,836	63,155	14,681	72,043	57,917	14,126
	June	4,395	78,666	64,023	14,643	74,271	61,058	13,213
	September	6,884	77,583	62,580	15,003	70,699	59,781	10,918
	December	15,484	85,062	68,378	16,684	69,578	57,105	12,473
2015	March	-6,574	72,952	58,845	14,107	79,526	67,387	12,139
	June	-6,658	76,524	62,400	14,124	83,182	69,254	13,928
	September	-1,424	76,258	61,628	14,630	77,682	63,596	14,086
	December	-2,652	79,327	63,606	15,721	81,979	65,846	16,133
2016	March	-7,973	72,574	58,633	13,941	80,547	67,384	13,163
	June	-12,140	72,152	57,513	14,639	84,292	68,431	15,861
	September	4,053	79,205	62,429	16,776	75,152	62,335	12,817
	December	3,001	81,380	63,964	17,416	78,379	61,948	16,431
2017	March	689	79,282	63,196	16,086	78,593	60,466	18,127
	June	7,817	82,735	62,973	19,762	74,918	61,511	13,407
	September	8,898	83,769	65,944	17,825	74,871	60,178	14,693
	December	7,409	82,246	66,487	15,759	74,837	58,962	15,875
2018	March	7,872	78,771	62,852	15,919	70,899	58,040	12,859
	June	-1,737	81,185	64,459	16,726	82,922	66,297	16,625
	September	7,004	84,980	68,231	16,749	77,976	63,121	14,855
	December	6,051	83,749	66,571	17,178	77,698	61,675	16,023

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 ²	Total	Expanding establishments	Opening establishments	Total	Contracting establishments	Closing establishments
2008	March	1.0	7.1	5.8	1.3	6.1	4.9	1.2
	June	0.1	6.7	5.2	1.5	6.6	5.4	1.2
	September	0.1	6.4	5.2	1.2	6.3	5.1	1.2
	December	-0.7	6.3	5.1	1.2	7.0	5.7	1.3
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	0.3	6.3	5.1	1.2	6.0	4.9	1.1
	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	-0.6	6.0	4.9	1.1	6.6	5.5	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	-0.6	5.7	4.6	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	6.3	5.0	1.3	6.2	4.8	1.4
	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	0.6	6.1	4.9	1.2	5.5	4.5	1.0
	June	-0.2	6.3	5.0	1.3	6.5	5.2	1.3
	September	0.5	6.6	5.3	1.3	6.1	4.9	1.2
	December	0.4	6.4	5.1	1.3	6.0	4.8	1.2

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

²Net 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 ¹		Deaths ²	
		Establishments	Employment	Establishments	Employment
2008	March	2,173	10,424	2,004	8,140
	June	2,622	11,963	2,176	9,625
	September	2,001	9,881	2,185	9,704
	December	2,289	10,520	2,522	10,172
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	2,353	9,982	2,478	8,458
	June	2,449	9,551	1,973	7,294
	September	2,339	9,051	1,675	6,585
	December	2,499	11,414	2,084	7,490
2015	March	2,373	9,404	2,335	7,308
	June	2,352	9,820	2,554	9,097
	September	2,362	10,020	2,399	9,004
	December	2,349	9,998	2,453	9,749
2016	March	2,254	8,676	2,302	7,253
	June	2,305	8,925	2,384	9,045
	September	2,351	10,392	2,313	8,077
	December	2,402	11,197	2,378	10,133
2017	March	2,537	10,393	2,896	10,503
	June	2,546	12,158	1,978	8,690
	September	2,540	11,446	2,113	10,045
	December	2,394	10,692	2,725	10,910
2018	March	2,228	10,992	2,253	8,518
	June	2,511	11,814	N/A	N/A
	September	2,464	11,303	N/A	N/A
	December	2,684	12,938	N/A	N/A

¹ Values for births are not available for the first three quarters² Values for death s are not available for the most recent three quarters by definition.

Table 4. Oklahoma: Rates¹ of private sector establishment births and deaths, seasonally adjusted					
		Births²		Deaths³	
Year	3 months ended	Establishments	Employment	Establishments	Employment
2008	March	2.6	0.8	2.4	0.7
	June	3.2	1.0	2.6	0.8
	September	2.4	0.8	2.6	0.8
	December	2.8	0.9	3.0	0.8
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	2.4	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	2.8	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	2.2	0.7
	September	2.8	0.9	2.4	0.8
	December	2.7	0.8	3	0.9
2018	March	2.5	0.9	2.5	0.7
	June	2.8	0.9	N/A	N/A
	September	2.7	0.9	N/A	N/A
	December	3.0	1.0	N/A	N/A

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

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

³Values 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 (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.
	2017	2018	2018	2018	2018	2017	2018	2018	2018	2018
Total private ¹										
Gross job gains	82,246	78,771	81,185	84,980	83,749	6.4	6.1	6.3	6.6	6.4
At expanding establishments ...	66,487	62,852	64,459	68,231	66,571	5.2	4.9	5.0	5.3	5.1
At opening establishments ...	15,759	15,919	16,726	16,749	17,187	1.2	1.2	1.3	1.3	1.3
Gross job losses	74,837	70,899	82,922	77,976	77,698	5.8	5.5	6.5	6.1	6.0
At contracting establishments ...	58,962	58,040	66,297	63,121	61,675	4.6	4.5	5.2	4.9	4.8
At closing establishments ...	15,875	12,859	16,625	14,855	16,023	1.2	1.0	1.3	1.2	1.2
Net employment change ²	7,409	7,872	-1,737	7,004	6,051	0.6	0.6	-0.2	0.5	0.4
Construction										
Gross job gains	7,927	8,059	8,025	9,416	8,333	10.1	10.2	10.1	11.6	10.1
At expanding establishments ...	6,270	6,503	6,392	7,854	6,763	8.0	8.2	8.0	9.7	8.2
At opening establishments ...	1,657	1,556	1,633	1,562	1,570	2.1	2.0	2.1	1.9	1.9
Gross job losses	8,305	7,253	8,552	7,017	8,097	10.6	9.1	10.7	8.7	9.8
At contracting establishments ...	6,824	5,801	6,927	5,842	6,519	8.7	7.3	8.7	7.2	7.9
At closing establishments ...	1,481	1,452	1,625	1,175	1,578	1.9	1.8	2.0	1.5	1.9
Net employment change ²	-378	806	-527	2,399	236	-0.5	1.1	-0.6	2.9	0.3
Manufacturing										
Gross job gains	5,143	5,027	5,803	4,974	4,947	4.0	3.7	4.2	3.6	3.5
At expanding establishments ...	4,396	4,344	5,116	4,485	4,186	3.4	3.2	3.7	3.2	3.0
At opening establishments ...	747	683	687	489	761	0.6	0.5	0.5	0.4	0.5
Gross job losses	4,126	3,842	4,460	5,200	4,865	3.2	2.8	3.3	3.7	3.5
At contracting establishments ...	3,405	3,039	3,556	4,443	3,712	2.6	2.2	2.6	3.2	2.7
At closing establishments ...	749	721	904	757	1,153	0.6	0.6	0.7	0.5	0.8
Net employment change ²	1,017	1,185	1,343	-226	82	0.8	0.9	0.9	-0.1	0.0
Wholesale trade										
Gross job gains	3,833	2,975	3,073	3,651	4,193	6.5	5.1	5.3	6.3	7.1
At expanding establishments ...	3,208	2,329	2,370	2,892	3,407	5.4	4.0	4.1	5.0	5.8
At opening establishments ...	625	646	703	759	786	1.1	1.1	1.2	1.3	1.3

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.
	2017	2018	2018	2018	2018	2017	2018	2018	2018	2018
Gross job losses	2,898	3,093	3,159	3,141	3,089	4.9	5.3	5.5	5.4	5.3
At contracting	1,974	2,602	2,241	2,268	1,965	3.3	4.5	3.9	3.9	3.4
At closing establishments ...	924	491	918	873	1,124	1.6	0.8	1.6	1.5	1.9
Net employment	935	-118	-86	510	1,104	1.6	-0.2	-0.2	0.9	-1.1
Retail trade										
Gross job gains	9,875	10,345	9,865	11,459	9,213	5.5	5.8	5.5	6.4	5.2
At expanding	8,745	8,692	8,292	9,195	7,881	4.9	4.9	4.6	5.1	4.4
At opening establishments ...	1,130	1,653	1,573	2,264	1,332	0.6	0.9	0.9	1.3	0.8
Gross job losses	9,832	9,780	11,945	10,413	11,081	5.5	5.5	6.7	5.9	6.3
At contracting establishments ...	8,452	8,547	9,702	9,237	9,678	4.7	4.8	5.4	5.2	5.5
At closing establishments ...	1,380	1,233	2,243	1,176	1,403	0.8	0.7	1.3	0.7	0.8
Net employment	43	565	-2,080	1,046	-1,868	0.0	0.3	-1.2	0.5	-1.1
Transportation and warehousing										
Gross job gains	4,118	2,333	2,994	4,125	5,068	7.5	4.6	6.1	8.1	9.5
At expanding establishments ...	3,633	1,961	2,312	3,695	4,352	6.6	3.9	4.7	7.3	8.2
At opening establishments ...	485	372	682	430	716	0.9	0.7	1.4	0.8	1.3
Gross job losses	1,866	3,441	2,185	2,423	2,322	3.4	6.8	4.4	4.8	4.3
At contracting establishments ...	1,481	3,188	1,687	1,785	1,823	2.7	6.3	3.4	3.5	3.4
At closing	385	253	498	638	499	0.7	0.5	1.0	1.3	0.9
Net employment change ²	2,252	-1,108	809	1,702	2,746	4.1	-2.2	1.7	3.3	5.2
Information										
Gross job gains	883	729	1,115	931	952	4.4	3.6	5.6	4.7	4.8
At expanding establishments ...	626	645	854	789	651	3.1	3.2	4.3	4.0	3.3
At opening	257	84	261	142	301	1.3	0.4	1.3	0.7	1.5
Gross job losses	961	930	1,158	1,139	1,311	4.8	4.7	5.7	5.7	6.7
At contracting establishments ...	774	729	928	857	1,151	3.9	3.7	4.6	4.3	5.9
At closing	187	201	230	282	160	0.9	1.0	1.1	1.4	0.8
Net employment change ²	-78	-201	-43	-208	-359	-0.4	-1.1	-0.1	-1.0	-1.0

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.
	2017	2018	2018	2018	2018	2017	2018	2018	2018	2018
Financial activities										
Gross job gains	3,917	3,647	3,840	3,831	3,952	5.1	4.7	5.0	4.9	5.1
At expanding establishments ...	3,075	2,833	2,857	2,876	2,881	4.0	3.7	3.7	3.7	3.7
At opening establishments ...	842	814	983	955	1,071	1.1	1.0	1.3	1.2	1.4
Gross job losses	3,585	3,700	3,859	3,659	4,055	4.6	4.8	5.0	4.7	5.3
At contracting establishments ...	2,725	2,854	2,787	2,711	3,129	3.5	3.7	3.6	3.5	4.1
At closing establishments ...	860	846	1,072	948	926	1.1	1.1	1.4	1.2	1.2
Net employment change ²	332	-53	-19	172	-103	0.5	-0.1	0.0	0.2	0.2
Professional and business services										
Gross job gains	14,204	14,960	15,306	15,394	15,701	7.5	7.9	8.0	8.0	8.1
At expanding establishments ...	10,935	11,798	12,049	12,078	12,177	5.8	6.2	6.3	6.3	6.3
At opening establishments ...	3,269	3,162	3,257	3,316	3,524	1.7	1.7	1.7	1.7	1.8
Gross job losses	13,923	12,666	14,565	14,914	14,812	7.4	6.7	7.6	7.8	7.7
At contracting establishments ...	10,844	10,042	11,685	11,434	11,325	5.8	5.3	6.1	6.0	5.9
At closing establishments ...	3,079	2,624	2,880	3,480	3,487	1.6	1.4	1.5	1.8	1.8
Net employment change ²	281	2,294	741	480	889	0.1	1.2	0.4	0.2	0.4
Education and health services										
Gross job gains	9,626	9,396	9,046	9,579	9,744	4.6	4.5	4.3	4.6	4.7
At expanding establishments ...	7,554	7,277	7,382	7,558	7,516	3.6	3.5	3.5	3.6	3.6
At opening establishments ...	2,072	2,119	1,664	2,021	2,228	1.0	1.0	0.8	1.0	1.1
Gross job losses	9,670	8,726	10,321	9,280	8,744	4.6	4.1	4.9	4.5	4.1
At contracting establishments ...	7,065	6,815	7,973	7,447	6,590	3.4	3.2	3.8	3.6	3.1
At closing establishments ...	2,605	1,911	2,348	1,833	2,154	1.2	0.9	1.1	0.9	1.0
Net employment change ²	-44	670	-1,275	299	1,000	0.0	0.4	-0.6	0.1	0.6
Leisure and hospitality										
Gross job gains	15,497	14,046	14,778	14,423	14,567	9.2	8.2	8.6	8.4	8.4
At expanding establishments ...	11,966	10,438	11,091	11,260	11,120	7.1	6.1	6.5	6.6	6.4
At opening establishments ...	3,531	3,608	3,687	3,163	3,447	2.1	2.1	2.1	1.8	2.0

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. 2017	Mar. 2018	Jun. 2018	Sep. 2018	Dec. 2018	Dec. 2017	Mar. 2018	Jun. 2018	Sep. 2018	Dec. 2018
Gross job losses	13,192	12,293	15,690	14,632	13,161	7.8	7.1	9.2	8.5	7.6
At contracting establishments ...	10,674	10,169	13,469	12,237	10,871	6.3	5.9	7.9	7.1	6.3
At closing establishments ...	2,518	2,124	2,221	2,395	2,290	1.5	1.2	1.3	1.4	1.3
Net employment change ²	2,305	1,753	-912	-209	1,406	1.4	1.1	-0.6	-0.1	0.8
Other services ³										
Gross job gains	2,632	2,693	2,790	2,943	2,869	7.6	7.7	7.9	8.3	8.0
At expanding establishments ...	2,086	2,138	2,073	2,238	2,297	6.0	6.1	5.9	6.3	6.4
At opening establishments ...	546	555	717	705	572	1.6	1.6	2.0	2.0	1.6
Gross job losses	2,720	2,514	2,751	2,611	2,803	7.8	7.1	7.8	7.4	7.8
At contracting establishments ...	1,950	1,985	2,154	2,054	2,227	5.6	5.6	6.1	5.8	6.2
At closing establishments ...	770	529	597	557	576	2.2	1.5	1.7	1.6	1.6
Net employment change ²	-88	179	39	332	66	-0.2	0.6	0.1	0.9	0.8

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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