

Tennessee Labor Market Report

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July 2019

Highlights

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> Department of Labor & Workforce Development

Cybersecurity and the 2020 Census

A lot has changed since the last decennial census in 2010, when all the questionnaires were on paper and an iPhone 4, early Samsung or HTC cellphone were considered state of the art. Now there is a broad array of social media platforms and chat bot technology, plus millions more homes now have consistent access to the internet. This Census is the first to offer everyone the opportunity to respond online. This presents a great opportunity for the Census Bureau to reach audiences and households throughout the United States.

This new technology is transforming the way the U.S. Census Bureau will attempt to count every person in the United States once, only once, and in the right place. There are 52 new or legacy IT systems that the 2020 Census will run. Malicious foreign attackers interfered in the Australian census three years ago, forcing a system shutdown to "ensure the integrity of the data." This could happen to the 2020 Census.

The Mueller Report- Volume I

Part of the findings from the "Report on the Investigation into Russian Interference in the 2016 Presidential Election" on Russian hacking during 2016 election states "The Internet Research Agency (IRA), based in St. Petersburg, Russia, carried out the earliest Russian interference operations identified ... as a social media campaign designed to provoke and amplify political and social discord in the United States through a system it termed as "information warfare." The IRA's opera-tion also included the purchase of political advertisements on social media in the names of U.S. persons and entities. The IRA also staged political rallies in the U.S. and its employees posed as U.S. grassroots entities." Many of the democracyfocused attacks we've seen recently target NGOs and think tanks, and reflect a pattern that we also observed in the early stages of some previous elections.

No one solution can address cyberattacks from nation-states. The Census Bureau is leveraging cutting-edge solutions and practices that will expand outreach and awareness campaigns to connect with hard-to-count populations. This includes voice-based commands to request and receive information on a daily basis. Census 2020 is harnessing the capabilities of social media platforms such as Facebook, Twitter, YouTube and Instagram, to connect with households across the country. The Bureau is working diligently to keep respondent data strictly confidential by implementing differential privacy.

Respondent Data Confidentiality

Hackers will take any avenue to gain intelligence and disrupt the democratic process. Is there a concern about computer hacking of non-paper responses? The short answer is yes. Cybersecurity is one of the top priorities of the Census Bureau, which has designed, developed and tested its systems to contain cybersecurity threats. The bureau has its own cybersecurity risk management framework in place. Its program meets the latest, highest standards for protecting respondent information.

The Census Bureau has partnered with Microsoft using their product Account-Guard. Since last year they have uncov-ered attacks specifically targeting organizations that are fundamental to democracy. Microsoft has expanded AccountGuard. This software is a threat notification service for political campaigns, parties, and democracy-focused nongovernmental organizations (NGOs), including 26 countries across four continents. AccountGuard has made 781 notifications of nation-state attacks targeting organizations. This data shows that democracy-focused organizations in the United States should be particularly concerned as 95% of these attacks have targeted U.S.-based organizations. By nature, these organizations are critical to society but have fewer resources to protect against cyberattacks than large enterprises.

AccountGuard and other products build in intelligence to protect customers and use it in support of our efforts to disrupt threatening activities through direct legal action or in collaboration with law enforcement.

According to the Census Bureau this partnership might include portions of the 2020

Preparations to Combat Cybersecurity

census. There is no single company that can tackle all the cyber issues. Attackers will take any avenue to disrupt our government's democratic process. Microsoft notes that cyberattacks continue to be a significant tool and weapon wielded in cyberspace. In some instances, those attacks appear to be related to ongoing efforts to attack the democratic process.

Security Threats and the Public Trust

Microsoft has notified nearly 10,000 customers they've been targeted or compromised by nationstate attacks. About 84% of these attacks targeted Microsoft customers, and about 16% targeted consumer personal email accounts. While many of these attacks are unrelated to the democratic process, this data demonstrates the significant extent to which nation-states continue to rely on cyberattacks as a tool to gain intelligence, influence geopolitics, or achieve other objectives. The majority of nationstate activity during this period originated from actors in three countries – Iran, North Korea and Russia.

The following is a brief outline, compiled by the Census Bureau to fight cybersecurity and maintain public trust in the data collected.

I. Contain Issues/Sustain Services=Maintain Public Trust

- A. Employ "Physical Security" Techniques
- 1. "Layer" physical entry with the appropriate level of security (doors, walls etc.)
- 2. "Isolate" separate areas within layers to effi-
- ciently handle interactions (lines, guards etc.)
- 3. Lock down valuables behind closed doors

II. External Threat/Migration Strategies

- A. Compromising Respondent Device
 - 1. Minimal Storing of data on Device
 - 2. Encryption of data in-transit for web site communication
 - 3. Proactive public outreach and awareness
- B. Compromised External Network Access
 - 1. Proactive monitoring of site performance and activity
 - 2. Proactive monitoring for unauthorized or unusual connection attempts
 - 3. Industry and interagency coordination and information sharing
- C. Impersonation of U.S. Census
 - 1. Interagency coordination and information sharing
- D. Invalid Response
 - 1. Automated analysis of individual responses to identify and analyze irregularities
 - 2. Data flow analysis

III. External Cyber Threat Migration Relying on Partnerships

- 1. Internal Threat/Migration Strategies
 - A. Disruption of the Internet Self Response 1. Monitoring for traffic spikes and unusual activity in systems/applications
 - 2. Proactive identification of malicious traffic, rogue websites, and robots
 - 3. Commercial and governmental cyber threat intelligence
 - 4. Designed to sustain self-response
 - 5. Use of Distributed Denial of Service (DDoS) protection services
 - 6. Commercial and governmental cyber threat intelligence
- B. Data Breaches
 - 1. Monitoring for irregular data flows or unauthorized access
 - 2. Encryption of data in-transit and at-rest as well as remote wide capability
 - 3. System/application penetration testing and timely patch management
 - Cyber awareness training and security management, monitoring, and analytics
 - 5. Two factor authentication and phishing tests

In the Future

On November 16, 2018, President Trump signed into law the Cybersecurity and Infrastructure Security Agency Act of 2018. This legislation established the Cybersecurity and Infrastructure Security Agency (CISA).

At the initial meeting they created the Information and Communications Technology (ICT) Supply Chain Risk Management Task Force. The task force is a public-private partnership formed to examine and develop consensus recommendations to identify and manage risk to the global ICT supply chain. Some of the private industry partners include: Accenture, AT&T, CenturyLink, Charter, Cisco, Comcast, CyberRx, Cybersecurity Coalition, Intel, Information Technology Industry Council, Information Technology Information Sharing and Analysis Center, Samsung, Sprint, Threat Sketch, T-Mobile, USTelecom, and Verizon

CISA is building the national capacity to defend against cyber attacks to provide cybersecurity tools, incident response services and assessment capabilities to safeguard the '.gov' networks that support the essential operations of partner departments and agencies.

Tennessee Civilian Labor Workforce 1989-Present

(p)=preliminary

Trade = Wholesale and Retail Trade

County Unemployment Rates*

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			Civil	ian Labor Foi	ce			
				Employed	l		Unem	ployed
Year			N	onfarm Emplo	oyment			
and		Employ-		**Manu-				Rate
Month	Total	ment	Total	facturing	**Trade	**Services	Number	(%)
1989	2,367.3	2,247.2	2,167.2	524.5	508.4	467.2	120.2	5.1 %
1990	2,394.7	2,266.8	2,193.2	493.4	379.1	611.0	128.0	5.3
1991	2,413.7	2,250.6	2,183.6	480.3	373.0	626.7	163.1	6.8
1992	2,457.2	2,297.4	2,245.0	492.8	374.1	664.8	159.8	6.5
1993	2,526.9	2,380.5	2,328.5	502.8	382.5	709.8	146.4	5.8
1994	2,659.9	2,531.1	2,423.0	513.8	398.4	751.4	128.8	4.8
1995	2,732.2	2,591.5	2,498.9	518.0	412.6	795.0	140.7	5.2
1996	2,767.0	2,623.8	2,533.3	501.5	420.9	814.3	143.2	5.2
1997	2,786.1	2,639.2	2,584.0	498.0	430.5	849.7	146.9	5.3
1998	2,812.4	2,691.5	2,638.4	498.6	437.1	875.7	120.9	4.3
1999	2,852.4	2,739.2	2,685.3	494.7	443.6	900.8	113.3	4.0
2000	2,843.1	2,733.3	2,728.9	488.1	447.5	930.9	109.8	3.9
2001	2,861.3	2,731.0	2,688.3	454.2	446.6	921.5	130.4	4.6
2002	2,906.6	2,756.1	2,664.4	428.5	438.7	938.0	150.5	5.2
2003	2,912.2	2,748.1	2,667.5	414.1	440.8	950.3	164.0	5.6
2004	2,878.7	2,725.1	2,706.1	411.8	447.5	978.7	153.6	5.3
2005	2,904.8	2,743.4	2,743.1	408.8	454.6	1,005.6	161.4	5.6
2006	3,036.0	2,878.5	2,783.1	400.1	460.6	1,030.4	157.6	5.2
2007	3,063.7	2,920.4	2,797.4	380.0	463.5	1,052.8	143.3	4.7
2008	3,054.8	2,853.7	2,774.8	361.0	457.0	1,058.2	201.0	6.6
2009	3,052.7	2,733.1	2,619.8	309.2	427.8	1,025.3	319.6	10.5
2010	3,090.8	2,792.1	2,615.4	298.9	423.5	1,041.2	298.7	9.7
2011	3,125.3	2,844.7	2,661.4	304.4	427.1	1,076.8	280.6	9.0
2012	3,100.7	2,857.9	2,714.0	313.4	433.3	1,112.2	242.7	7.8
2013	3,072.5	2,832.9	2,749.7	318.8	437.2	1,139.2	239.6	7.8
2014	3,024.2	2,825.1	2,822.1	322.7	438.9	1,188.3	199.1	6.6
2015	3,061.5	2,889.4	2,893.7	330.8	443.0	1,227.9	172.1	5.6
2016	3,128.9	2,981.6	2,965.3	341.7	450.8	1262.6	147.3	4.7
2017	3,190.2	3,070.3	3,011.3	346.3	454.1	1285.8	119.9	3.8
2018	3,244.9	3,131.7	3,060.3	350.7	457.3	1,309.7	113.3	3.5
2019								
January	3,266.3	3,146.5	3,060.8	352.8	457.5	1,296.9	119.9	3.7 %
February	3,299.4	3,195.2	3,077.3	356.5	457.5	1,307.2	104.2	3.2
March	3,330.6	3,220.2	3,084.6	355.1	455.5	1,313.3	110.4	3.3
April	3,336.6	3,245.2	3,104.2	354.9	454.7	1,328.8	91.4	2.7
May	3,362.9	3,260.7	3,112.6	356.5	460.3	1,332.3	102.2	3.0
June (r)	3,391.5	3,255.5	3,100.0	359.8	460.6	1,342.7	136.0	4.0
July (p)	3,403.4	3,257.3	3,090.2	360.8	460.5	1,338.8	146.0	4.3
August								
September								
October								
November								
December								
(r)=revised						y employment da		

_	Jui	Jui
County	2018	2019
Anderson	4.3	4.6
Bedford	4.5	5.0
Benton	5.5	5.6
Bledsoe	6.8	6.7
Blount	3.5	4.0
Bradley	4.1	4.7
Campbell	5.2	5.4
Cannon	3.6	4.2
Carroll	5.9	6.3
Carter	4.6	5.1
Cheatham	3.0	3.3
Chester		
Claiborne	4.2	4.3
	4.6	5.5
Clay	5.5	8.1
Cocke	4.8	5.2
Coffee	3.8	4.1
Crockett	4.0	4.1
Cumberland	4.5	5.2
Davidson	3.0	3.2
Decatur	5.3	5.6
DeKalb	4.9	5.2
Dickson	3.3	3.8
Dver	4.8	6.1
Fayette	4.0	4.4
Fentress	4.7	5.9
Franklin	3.8	4.3
Gibson	5.1	5.3
Giles	5.1 4.1	
	-	5.1
Grainger	4.6	5.0
Greene	5.6	5.8
Grundy	5.4	5.7
Hamblen	4.2	4.9
Hamilton	3.9	4.2
Hancock	6.3	8.2
Hardeman	5.1	5.8
Hardin	4.9	5.4
Hawkins	4.5	5.2
Haywood	5.9	5.9
Henderson	5.0	5.1
Henry	4.6	4.8
Hickman	3.6	3.9
Houston	5.0 6.4	5.7
Humphreys	4.6	4.6
Jackson		
	5.2	5.9
Jefferson	4.2	4.7
Johnson	3.6	4.2
Knox	3.3	3.8
Lake	5.0	7.0

11.1 Rates 1989-2018 Unemployment 10.2 9.3 8.4 er fix teg Exolin Eefo 3.9 3.0 2002 2002 2005 ²⁰09 2017 2073 2015 <02 980 1 1661 66 $^{60}_{50}$ 486) 666 2007 ²⁰03

Leisure/Hospitality, and Other Services.

1990 because of changes to NAICS coding system.

Services = Professional/Business Services, Educational/Health Services,

Statewide

Estimated Nonfarm Employment (in thousands)

		-) -		····,		
	July	Revised June	Preliminary	Net Ch July 2018		2019
Industry	2018	June 2019	July 2019	July 2018		2019
Total Nonfarm	3,029.7	3,100.0	3,090.2	60.5	-9.8	
Total Private	2,625.7	2,687.9	2,681.8	56.1	-6.1	
Goods-Producing	482.5	494.3	493.4	10.9	-0.9	
Mining, Logging, & Construction	131.3	134.5	132.6	1.3	-1.9	
Mining and Logging	4.4	4.5	4.5	0.1	0.0	
Construction Construction of Buildings	126.9 27.1	130.0 26.7	128.1 26.7	1.2 -0.4	-1.9 0.0	
Heavy and Civil Engineering Construction	16.7	17.8	17.9	1.2	0.0	
Specialty Trade Contractors	83.1	85.5	83.5	0.4	-2.0	
Manufacturing	351.2	359.8	360.8	9.6	1.0	
Durable Goods Manufacturing	224.2	230.8	231.3	7.1	0.5	
Wood Product Manufacturing	12.5	12.7	12.5	0.0	-0.2	
Nonmetallic Mineral Product Manufacturing	14.2	14.9	15.0	0.8	0.1	
Primary Metal Manufacturing Fabricated Metal Product Manufacturing	11.0 36.9	11.7 37.9	11.7 37.9	0.7	0.0 0.0	
Machinery Manufacturing	25.3	26.3	25.8	0.5	-0.5	
Computer & Electronic Product Manufacturing	5.2	5.5	5.5	0.3	0.0	
Electrical Equipment & Appliance Manufacturing	18.9	18.8	18.9	0.0	0.1	
Transportation Equipment Manufacturing Furniture & Related Product Manufacturing	73.4	76.1	76.9	3.5	0.8	
Miscellaneous Manufacturing Durable Goods	9.6 17.2	9.6 17.3	9.6 17.5	0.0	0.0	
Nondurable Goods Manufacturing	127.0	129.0	129.5	2.5	0.5	
Food Manufacturing	35.7	36.0	36.1	0.4	0.1	
Beverage & Tobacco Product Manufacturing	7.4	8.0	8.0	0.6	0.0	
Paper Manufacturing	12.0	12.1	12.1	0.1	0.0	
Printing & Related Support Activities Chemical Manufacturing	9.1 25.8	9.0	9.0	-0.1 0.1	0.0 0.0	
Plastics & Rubber Products Manufacturing	25.8	25.9 25.1	25.9 25.1	0.1	0.0	
Plastics Product Manufacturing	14.3	14.4	14.4	0.1	0.0	
Rubber Product Manufacturing	10.6	10.7	10.7	0.1	0.0	
Service-Providing	2,547.2	2,605.7	2,596.8	49.6	-8.9	
Trade, Transportation, & Utilities	625.0	635.3	635.0	10.0	-0.3	
Wholesale Trade	119.8	121.1	120.5	0.7	-0.6	
Merchant Wholesalers, Durable Goods Merchant Wholesalers, Nondurable Goods	70.1	72.1	72.1	2.0	0.0	
Wholesale Electronic Markets	42.2 7.5	41.7 7.3	41.2 7.2	-1.0 -0.3	-0.5 -0.1	
Retail Trade	336.1	339.5	340.0	3.9	0.5	
Motor Vehicle & Parts Dealers	47.7	46.5	47.0	-0.7	0.5	
Furniture & Home Furnishings Stores	9.8	10.0	10.0	0.2	0.0	
Building Material, Garden Equipment, & Supplies	30.6	31.8	31.6	1.0	-0.2	
Food & Beverage Stores Health & Personal Care Stores	54.8	54.0	54.5	-0.3 -0.2	0.5 -0.2	
Gasoline Stations	23.3 23.7	23.3 23.9	23.1 23.9	0.2	0.0	
Clothing & Clothing Accessories Stores	24.1	23.3	23.4	-0.7	0.1	
Sporting Goods, Hobby, Book, & Music Stores	12.0	12.0	12.0	0.0	0.0	
General Merchandise Stores	71.5	72.3	72.1	0.6	-0.2	
Miscellaneous Store Retailers	18.0	17.2	17.1	-0.9	-0.1	
Nonstore Retailers Transportation, Warehousing, & Utilities	10.3	10.4	10.5	0.2	0.1	
Utilities	169.1 3.6	174.7 3.6	174.5 3.5	5.4 -0.1	-0.2	
Transportation & Warehousing	165.5	171.1	171.0	5.5	-0.1	
Truck Transportation	58.5	59.7	59.2	0.7	-0.5	
Information	44.4	47.3	46.4	2.0	-0.9	
Financial Activities	163.8	168.3	168.2	4.4	-0.1	
Finance & Insurance	122.6	124.9	124.9	2.3	0.0	
Real Estate, Rental, & Leasing	41.2	43.4	43.3	2.1	-0.1	
Professional & Business Services	412.5	422.6	418.2	5.7	-4.4	
Professional, Scientific, & Technical Services Management of Companies & Enterprises	140.4	143.1 51.6	143.7	3.3 1.0	0.6	
Administrative, Support, & Waste Management	51.0 221.1	51.6 227.9	52.0 222.5	1.0	0.4 -5.4	
Educational & Health Services	429.5	432.8	432.5	3.0	-0.3	
Educational Services	53.8	54.7	54.2	0.4	-0.5	
Health Care & Social Assistance	375.7	378.1	378.3	2.6	0.2	
Ambulatory Health Care Services Hospitals	152.2	154.2	154.2	2.0	0.0 0.0	
Hospitals Nursing & Residential Care Facilities	110.8 63.2	110.8 62.9	110.8 63.3	0.0	0.0 0.4	
Social Assistance	49.5	50.2	50.0	0.5	-0.2	
Leisure & Hospitality	348.6	367.3	367.6	19.0	0.3	
Arts, Entertainment, & Recreation	45.8	49.9	49.2	3.4	-0.7	
Accommodation & Food Services	302.8	317.4	318.4	15.6	1.0	
Accommodation Food Services & Drinking Places	41.0 261.8	41.3 276.1	42.5 275.0	1.5 14.1	1.2 -0.2	
Other Services	119.4	2/0.1 120.0	275.9 120.5	14.1	-0.2	
Government	404.0	412.1	408.4	4.4	-3.7	
Federal Government	48.8	50.1	49.9	1.1	-0.2	
State Government	91.5	93.5	92.1	0.6	-1.4	
State Government Educational Services	49.8	52.0	50.5	0.7	-1.5	
Local Government	263.7	268.5	266.4	2.7	-2.1	
Local Government Educational Services	117.5	119.8	118.7	1.2	-1.1	

Nonfarm Employment & Labor Workforce Narrative

Total nonfarm employment increased by 60,500 jobs from July 2018 to July 2019. There were increases in accommodation/ food services (up 15,600 jobs), which includes an increase of 14,100 jobs in food services/drinking places; professional/ business services (up 5,700 jobs), which includes increases of 3,300 jobs in professional/scientific/technical services and 1,400 jobs in administrative/support/ waste management; transportation/ warehousing (up 5,500 jobs); financial activities (up 4,400 jobs) which includes an increase of 2,300 jobs in finance/ insurance; retail trade (up 3,900 jobs); transportation equipment manufacturing (up 3,500 jobs); arts/entertainment/ recreation (up 3,400 jobs); local government (up 2,700 jobs); health care/social assistance (up 2,600 jobs), which includes an increase of 2,000 jobs in ambulatory health care services; and durable goods wholesalers (up 2,000 jobs).

These increases were partially offset by a decline of 1,000 jobs in nondurable goods wholesalers.

During the past month, nonfarm employment decreased by 9,800 jobs. There were declines in administrative/support/waste management (down 5,400 jobs); local government (down 2,100 jobs), specialty trade contractors (down 2,000 jobs); state government educational services (down 1,500 jobs).

These large decreases were partially offset by an increase in accommodation (up 1,200 jobs).

Tennessee's seasonally adjusted estimated unemployment rate for July 2019 was 3.5 percent, up 0.1 percentage point from the June 2019 rate. The United States unemployment rate for July 2019 was 3.7 percent, unchanged from the June 2019 rate. In July 2018, the U.S. seasonally adjusted rate was 3.9 percent while the state rate was 3.5 percent.

The not seasonally adjusted unemployment rate increased in 93 counties and remained the same in two counties. Williamson and Davidson Counties had the lowest rate at 3.2 percent. Both counties increased by 0.2 percent from the June rate. The highest rate was Hancock County at 8.2 percent, up from 7.7 percent.

The data from all the nonfarm employment estimates tables include all full- and part-time nonfarm wage and salary employees who worked during or received pay for any part of the pay period that includes the 12th of the month. This is a count of jobs by place of work. Agricultural workers, proprietors, selfemployed persons, workers in private households, and unpaid family workers are excluded. These numbers may not add due to rounding. Data are based on the 2018 benchmark.

Civilian Labor Force

				/IIIai	n Labor F	-orce Su	immary					
		July 2018			J	une 2019				July 2019		
	Labor Force	Employment	Unemployed	Rate	Labor Force	Employment	Unemployed	Rate	Labor Force	Employment	Unemployed	Rat
Seasonally Adjus	sted											
U.S.	162,209,000	155,964,00	6,245,000	3.9	162,981,000	157,005,0	5,975,000	3.7	163,351,000	157,288,00	6,063,000	3.7
TENNESSEE	3,246,400	3,131,600	114,800	3.5	3,336,800	3,224,700	112,100	<u>3</u> .4	3,350,100	3,232,900	117,200	3.5
Not Seasonally A	Adjusted											
U.S. TENNESSEE	163,734,000 3,282,500	157,004,00 3,153,300	6,730,000 129,200		164,120,000		6,292,000 136,000	3.8	164,941,000		6,556,000	4.0
Metropolitan Sta		3,153,300	129,200	3.9	3,391,500	3,255,500	130,000	4.0	3,403,400	3,257,300	146,000	4.3
Chattanooga	274,450	263,560	10,890	4.0	280,160	269,310	10,850	3.9	282,400	270,970	11,430	4.0
Clarksville	115,710	110,080	5,640	4.0	119,920	114,110	5,820	3.9 4.9	120,080	113,870	6,210	5.2
Cleveland	57,390	54,980	2,410	4.2	59,100	56,510	2,590	4.4	59,110	56,270	2,840	4.8
Jackson	65,470	62,740	2,720	4.2	67,420	64,630	2,790	4.1	67,850	64,930	2,920	4.3
Johnson City	90,850	86,960	3,890	4.3	93,140	89,010	4,130	4.4	93,660	89,260	4,400	4.7
Kingsport	137,800	132,180	5,620	4.1	142,720	136,750	5,970	4.2	142,840	136,540	6,300	4.4
Knoxville	427,850	412,050	15,800	3.7	442,780	425,460	17,320	3.9	445,240	426,760	18,480	4.2
Memphis	644,750	614,850	29,900	4.6	661,710	629,880	31,830	4.8	664,290	630,920	33,380	5.0
Morristown	51,590	49,420	2,170	4.2	53,340	50,930	2,410	4.5	53,510	50,960	2,550	4.8
Nashville	1,055,480	1,022,940	32,540	3.1	1,094,650	1,060,220	34,440	3.1	1,097,190	1,060,340	36,850	3.4
Micropolitan Sta	tistical Areas											
Athens	23,010	22,010	1,000	4.4	23,800	22,710	1,090	4.6	23,930	22,750	1,180	4.9
*Brownsville	7,700	7,250	450	5.9	7,800	7,370	440	5.6	7,790	7,330	460	5.9
Cookeville Crossville	48,590 23,680	46,520 22,610	2,070	4.2	50,290	48,050	2,240 1,160	4.4	50,280	47,880	2,400	4.8
*Dayton	13,080	12,270	1,070 810	4.5 6.2	23,920 13,350	22,760 12,460	890	4.8 6.7	24,180 13,370	22,910 12,450	1,270 910	5.2 6.8
Dyersburg	16,320	15,540	780	4.8	16,660	15,690	960	5.8	16,770	15,740	1,030	6.:
Greeneville	29,990	28,330	1,670	5.6	30,620	29,060	1,560	5.1	30,790	29,010	1,780	5.8
Lawrenceburg	18,300	17,460	840	4.6	18,920	18,020	900	4.8	19,020	18,010	1,000	5.3
Lewisburg Martin	15,510	14,920	590	3.8	15,750	15,140	610	3.9	15,800	15,150	650	4.1
McMinnville	15,300 16,860	14,160 16,080	1,140 780	7.5 4.6	16,290 16,870	15,490 16,010	800 870	4.9 5.1	15,850 17,060	14,770 16,130	1,080 930	6.8 5.4
Newport	15,280	14,550	730	4.8	15,600	14,840	760	4.9	15,730	14,900	820	5.2
Paris	14,360	13,690	660	4.6	14,830	14,170	660	4.5	14,970	14,260	710	4.8
Sevierville	55,570	53,890	1,690	3.0	57,960	56,160	1,800	3.1	58,630	56,710	1,920	3.3
Shelbyville Tullahoma	20,710 49,360	19,770 47,500	940 1,860	4.5 3.8	21,280 51,040	20,310 49,050	970 1,990	4.6 3.9	21,290 51,390	20,230 49,260	1,060 2,130	5.0 4.1
Cities	+9,000	4/,500	1,000	0.0	51,040	+9,000	1,990	0.9	32,390	79,200	_,-30	
Bartlett	01 (00		1.050	0.4		01 =60	1.1.40	o =		01 500	1 000	0.5
Brentwood	31,620 22,240	30,550 21,610	1,070 630	3.4 2.8	32,700 23,140	31,560 22,410	1,140 730	3.5 3.2	32,720 23,200	31,520 22,440	1,200 770	3.7 3.3
Bristol	11,850	11,320	530	2.0 4.5	23,140 12,320	22,410 11,740	580	3.2 4.7	12,300	11,700	600	3.3 4.9
Chattanooga	86,550	82,830	3,730	4.3	89,270	85,310	3,960	4.4	90,000	85,780	4,220	4.7
Clarksville	62,560	59,570	2,980	4.8	65,210	62,160	3,050	4.7	65,400	62,050	3,350	5.1
Cleveland	20,530	19,670	860	4.2	21,190	20,220	970	4.6	21,170	20,140	1,030	4.9
Collierville	26,260	25,460	800	3.0	27,190	26,300	890	3.3	27,220	26,260	960	3.5
Columbia Cookeville	18,410	17,620	790 600	4.3	18,960	18,260	700	3.7	19,010	18,260	750	3.9
Franklin	13,930 45,570	13,310 44,360	630 1,220	4.5 2.7	14,360 47,310	13,670 45,990	690 1,320	4.8 2.8	14,380 47,470	13,650 46,040	740 1,430	5.1 3.0
Gallatin	19,800	44,300 19,110	690	2.7 3.5	20,520	45,990 19,810	700	2.8 3.4	20,570	19,820	740	3.6
Germantown	20,210	19,610	610	3.0	20,890	20,260	640	3.1	20,950	20,230	720	3.4
Hendersonville	32,830	31,860	970	3.0	34,060	33,030	1,020	3.0	34,140	33,050	1,090	3.2
Jackson	32,760	31,280	1,480	4.5	33,720	32,230	1,490	4.4	33,930	32,370	1,560	4.6
Johnson City	31,440	30,190	1,250	4.0	32,250	30,900	1,360	4.2	32,370	30,970	1,410	4.3
Kingsport Knoxville	22,940 97,550	22,010 94,000	930 3,540	4.0 3.6	23,910 101,050	22,840 97,070	1,080 3,980	4.5 3.9	23,900 101,570	22,750 97,350	1,140 4,230	4.8 4.2
LaVergne	19,560	18,950	610	3.1	20,280	19,640	650	3.2	20,310	19,620	680	3.4
Lebanon	15,540	14,990	560	3.6	16,120	15,530	600	3.7	16,160	15,520	640	3.9
Maryville	13,800	13,330	470	3.4	14,310	13,770	550	3.8	14,390	13,810	570	4.0
Memphis	299,020	283,330	15,690	5.2	308,790	292,670	16,120	5.2	309,310	292,260	17,050	5.5
Morristown	11,530	11,000	530	4.6	11,940	11,330	600	5.1	11,970	11,340	630	5.3
*Mount Juliet Murfreesboro	19,170 78,420	18,600 75.040	580 2,480	3.0	19,900 81.260	19,270 78,690	630 2,580	3.2	19,920 81,400	19,260 78,620	660 2 770	3.3
Nashville	401,330	75,940 389,430	2,480 11,900	3.2 3.0	81,260 416,170	403,700	2,580 12,470	3.2 3.0	81,400 417,130	403,680	2,770 13,450	3.4 3.2
Oak Ridge	14,320	13,730	580	3.0 4.1	14,770	14,180	590	3.0 4.0	14,850	14,220	630	4.2
Smyrna	28,080	27,220	850	3.0	29,140	28,210	930	3.2	29,150	28,190	960	3.3
Spring Hill	22,040	21,400	640	2.9	22,860	22,180	680	3.0	22,900	22,200	700	3.

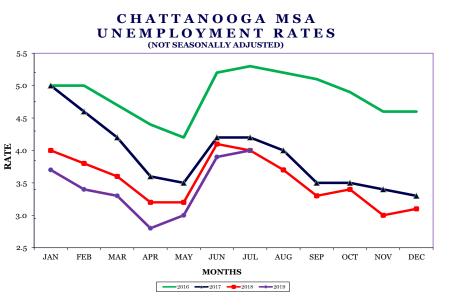
*2016 Census changes: Micropolitan Areas-Dayton and Brownsville added, Columbia, Harriman, Humboldt, LaFollette deleted. Cities: Mount Juliet added and Union City deleted.

Chattanooga MSA

Total nonagricultural employment increased by 900 jobs from June 2019 to July 2019. There were increases in leisure/hospitality (up 1,000 jobs); retail trade (up 600 jobs), durable goods manufacturing (up 400 jobs); and state government and mining/logging/construction (both up 200 jobs).

These increases were partially offset by declines in local government (down 2,200 jobs) and financial activities (down 200 jobs).

During the past 12 months, nonfarm employment increased by 6,300 jobs. During the year, goods-producing jobs increased by 1,800 while service-producing jobs increased by 4,500 jobs.



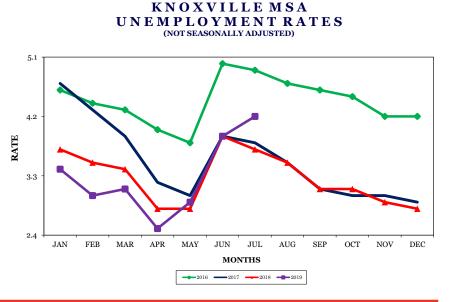
Industry	July 2018	Revised June 2019	Preliminary July 2019	Net July 2018 July 2019	Change June 2019 July 2019
Total Nonfarm	259.8	265.2	266.1	6.3	0.9
Total Private	224.9	227.8	230.8	5.9	3.0
Goods-Producing	45.8	47.0	47.6	1.8	0.6
Mining, Logging, & Construction	11.3	11.8	12.0	0.7	0.2
Manufacturing	34.5	35.2	35.6	1.1	0.4
Durable Goods Manufacturing	19.1	19.9	20.3	1.2	0.4
Nondurable Goods Manufacturing	15.4	15.3	15.3	-0.1	0.0
Service-Providing	214.0	218.2	218.5	4.5	0.3
Trade, Transportation, & Utilities	53.0	53.6	54.2	1.2	0.6
Wholesale Trade	8.4	8.4	8.4	0.0	0.0
Retail Trade	27.7	27.8	28.4	0.7	0.6
Transportation, Warehousing, & Utilities	16.9	17.4	17.4	0.5	0.0
Information	3.3	3.3	3.3	0.0	0.0
Financial Activities	16.8	17.0	16.8	0.0	-0.2
Professional & Business Services	30.0	29.9	30.0	0.0	0.1
Educational & Health Services	33.4	34.0	34.9	1.5	0.9
Leisure & Hospitality	30.4	31.0	32.0	1.6	1.0
Other Services	12.2	12.0	12.0	-0.2	0.0
Government	34.9	37.4	35.3	0.4	-2.1
Federal Government	5.4	5.5	5.4	0.0	-0.1
State Government	6.0	6.2	6.4	0.4	0.2
Local Government	23.5	25.7	23.5	0.0	-2.2

Knoxville MSA

Total nonagricultural employment remained the same from June 2019 to July 2019. There were seasonal increases in mining/logging/ construction (up 500 jobs), professional/ business/ services (up 400 jobs), and retail trade (up 200 jobs). These increases were completely offset by declines in state government, local government, and financial activities (each down 300 jobs); and durable goods manufacturing (down 200 jobs).

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During the past 12 months, nonfarm employment increased by 9,300 jobs, with goods-producing industries increasing by 1,000 jobs and service-providing jobs up by 8,300.



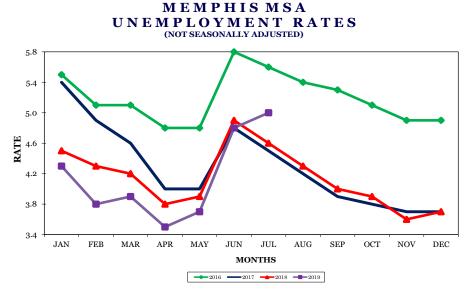
		Revised	Preliminary	Net Change	
Industry	July	June	July	July 2018	June 2019
	2018	2019	2019	July 2019	July 2019
Total Nonfarm	395.8	405.1	405.1	9.3	0.0
Total Private	339.2	348.5	349.1	9.9	0.6
Goods-Producing	58.8	59.5	59.8	1.0	0.3
Mining, Logging, & Construction	18.6	18.2	18.7	0.1	0.5
Manufacturing	40.2	41.3	41.1	0.9	-0.2
Durable Goods Manufacturing	30.1	31.1	30.9	0.8	-0.2
Nondurable Goods Manufacturing	10.1	10.2	10.2	0.1	0.0
Service-Providing	337.0	345.6	345.3	8.3	-0.3
Trade, Transportation, & Utilities	77.9	80.7	80.9	3.0	0.2
Wholesale Trade	16.2	16.4	16.4	0.2	0.0
Retail Trade	48.2	50.0	50.2	2.0	0.2
Transportation, Warehousing, & Utilities	13.5	14.3	14.3	0.8	0.0
Information	6.0	5.9	5.9	-0.1	0.0
Financial Activities	20.0	20.3	20.0	0.0	-0.3
Professional & Business Services	63.7	64.5	64.9	1.2	0.4
Educational & Health Services	54.0	55.7	55.8	1.8	0.1
Leisure & Hospitality	43.4	46.0	45.9	2.5	-0.1
Other Services	15.4	15.9	15.9	0.5	0.0
Government	56.6	56.6	56.0	-0.6	-0.6
Federal Government	5.4	5.5	5.5	0.1	0.0
State Government	19.2	18.8	18.5	-0.7	-0.3
Local Government	32.0	32.3	32.0	0.0	-0.3

Memphis MSA

Total nonfarm employment decreased by 3,400 jobs from June 2019 to July 2019. There were declines in administrative/ support/waste management (down 1,800 jobs), mining/logging/construction (down 1,000 jobs), transportation/warehousing/ utilities (down 900 jobs), leisure/ hospitality (down 600 jobs), and educational/health services and state government (both down 400 jobs).

These were partially offset by increases in local government and professional/ scientific/technical services (both up 600 jobs); and other services and durable goods manufacturing (both up 300 jobs).

During the past 12 months, nonfarm employment increased by 12,300 jobs. During that time, goods-producing jobs increased by 1,200, while service-providing jobs increased by 11,100 jobs.



Industry	July 2018	Revised June 2019	Preliminary July 2019	Net July 2018 July 2019	Change June 2019 July 2019
Total Nonfarm	642.7	658.4	655.0	12.3	-3.4
Total Private	564.0	578.9	575-4	11.4	-3.5
Goods-Producing	68.8	70.6	70.0	1.2	-0.6
Mining, Logging, & Construction	23.9	25.5	24.5	0.6	-1.0
Manufacturing	44.9	45.1	45.5	0.6	0.4
Durable Goods Manufacturing	26.9	27.0	27.3	0.4	0.3
Nondurable Goods Manufacturing	18.0	18.1	18.2	0.2	0.1
Service-Providing	573.9	587.8	585.0	11.1	-2.8
Trade, Transportation, & Utilities	174.7	176.3	175.4	0.7	-0.9
Wholesale Trade	35.0	35.3	35.4	0.4	0.1
Retail Trade	67.0	66.9	66.7	-0.3	-0.2
Transportation, Warehousing, & Utilities	72.7	74.1	73.3	0.6	-0.8
Information	5.5	5.4	5.4	-0.1	0.0
Financial Activities	29.5	30.3	30.2	0.7	-0.1
Professional & Business Services	95.2	100.1	98.9	3.7	-1.2
Professional, Scientific, & Technical Services	24.3	23.5	24.1	-0.2	0.6
Management of Companies & Enterprises	10.1	9.9	9.9	-0.2	0.0
Administrative, Support, & Waste Management	60.8	66.7	64.9	4.1	-1.8
Educational & Health Services	93.1	94.1	93. 7	0.6	-0.4
Leisure & Hospitality	69.9	74.7	74.1	4.2	-0.6
Other Services	27.3	27.4	27.7	0.4	0.3
Government	78.7	79.5	79.6	0.9	0.1
Federal Government	13.3	13.5	13.4	0.1	-0.1
State Government	15.1	15.8	15.4	0.3	-0.4
Local Government	50.3	50.2	50.8	0.5	0.6

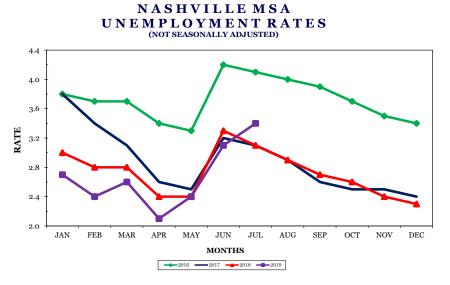


Nashville MSA

Total nonfarm employment decreased by 4,300 jobs from June 2019 to July 2019. There were declines in administrative/support/waste management (down 2,700 jobs); educational/health services (down 1,100 jobs), which includes a drop of 800 jobs in health care/social assistance; wholesale trade, state government, and leisure/ hospitality (each down 800 jobs); and mining/ logging/construction and information (both down 400 jobs).

These decreases were partially offset by increases in financial activities (up 900 jobs); other services (up 800 jobs); retail trade (up 500 jobs); and transportation/warehouse/utilities and durable goods manufacturing (both up 400 jobs).

During the past 12 months, nonfarm employment increased by 23,000 jobs. During that time, goods-producing jobs increased by 700, while service-providing jobs increased by 22,300.



Industry		Revised	Preliminary	Net Change	
muustry	July	June	July	July 2018	June 2019
	2018	2019	2019	July 2019	July 2019
Total Nonfarm	1,002.1	1,029.4	1,025.1	23.0	-4.3
Total Private	893.0	916.5	913.2	20.2	-3.3
Goods-Producing	130.7	131.4	131.4	0.7	0.0
Mining, Logging, & Construction	46.9	47.4	47.0	0.1	-0.4
Manufacturing	83.8	84.0	84.4	0.6	0.4
Durable Goods Manufacturing	59.3	59.1	59.5	0.2	0.4
Nondurable Goods Manufacturing	24.5	24.9	24.9	0.4	0.0
Service-Providing	871.4	898.0	893. 7	22.3	-4.3
Trade, Transportation, & Utilities	193.5	196.6	196.7	3.2	0.1
Wholesale Trade	42.1	42.0	41.2	-0.9	-0.8
Retail Trade	101.0	99.9	100.4	-0.6	0.5
Transportation, Warehousing, & Utilities	50.4	54.7	55.1	4.7	0.4
Information	22.5	24.1	23.7	1.2	-0.4
Financial Activities	68.8	70.2	71.1	2.3	0.9
Professional & Business Services	164.4	171.8	169.0	4.6	-2.8
Professional, Scientific, & Technical Services	65.5	67.2	67.0	1.5	-0.2
Management of Companies & Enterprises	22.8	23.0	23.1	0.3	0.1
Administrative, Support, & Waste Management	76.1	81.6	78.9	2.8	-2.7
Educational & Health Services	150.5	152.0	150.9	0.4	-1.1
Educational Services	25.8	26.5	26.2	0.4	-0.3
Health Care & Social Assistance	124.7	125.5	124.7	0.0	-0.8
Leisure & Hospitality	119.8	126.8	126.0	6.2	-0.8
Other Services	42.8	43.6	44.4	1.6	0.8
Government	109.1	112.9	111.9	2.8	-1.0
Federal Government	13.9	14.3	14.3	0.4	0.0
State Government	28.1	30.3	29.5	1.4	-0.8
Local Government	67.1	68.3	68.1	1.0	-0.2



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Nonfarm Employment (Smaller MSAs)

	Clarksville,	ΓN-KY MSA	Cleveland	, TN MSA	Jackson,	TN MSA
	June 2019	July 2019	June 2019	July 2019	June 2019	July 2019
	Revised	Prelim.	Revised	Prelim.	Revised	Prelim.
Total Nonfarm	93,700	93,100	46,100	45,700	70,600	70,500
Total Private	76,100	75,700	41,400	41,000	56,200	56,300
Goods-Producing	16,600	16,500	11,200	10,900	13,900	14,200
Mining, Logging, & Construction	3,400	3,400	1,800	1,800	2,800	2,900
Manufacturing	13,200	13,100	9,400	9,100	11,100	11,300
Service-Providing	77,100	76,600	34,900	34,800	56,700	56,300
Trade, Transportation, & Utilities	18,100	18,100	9,500	9,700	13,100	12,900
Wholesale Trade	N.A.	N.A.	800	800	3,200	3,100
Retail Trade	12,700	12,700	4,900	5,000	8,200	8,100
Transportation, Warehousing, & Utilities	2,600	2,500	3,800	3,900	1,700	1,700
Information	1,200	1,200	300	300	500	400
Financial Activities	3,200	3,100	1,300	1,300	2,100	2,100
Professional & Business Services	8,800	8,800	5,500	5,200	7,200	7,200
Educational & Health Services	12,400	12,400	5,400	5,400	10,500	10,600
Leisure & Hospitality	12,600	12,400	5,900	5,900	6,900	6,900
Other Services	3,200	3,200	2,300	2,300	2,000	2,000
Government	17,600	17,400	4,700	4,700	14,400	14,200
Federal Government	5,400	5,300	300	300	500	500
State Government	2,500	2,500	600	600	1,800	1,800
Local Government	9,700	9,600	3,800	3,800	12,100	11,900

	Johnson Ci	ty, TN MSA	Kingsport-Brist	ol, TN-VA MSA	Morristow	n, TN MSA
	June 2019	July 2019	June 2019	July 2019	June 2019	July 2019
	Revised	Prelim.	Revised	Prelim.	Revised	Prelim.
Total Nonfarm	79,400	79,300	123,000	121,900	45,900	46,000
Total Private	64,800	64,600	108,000	107,900	40,000	40,100
Goods-Producing	10,200	10,000	27,700	27,500	13,900	14,100
Mining, Logging, & Construction	2,400	2,300	6,100	6,100	1,900	2,000
Manufacturing	7,800	7,700	21,600	21,400	12,000	12,100
Service-Providing	69,200	69,300	95,300	94,400	32,000	31,900
Trade, Transportation, & Utilities	13,400	13,400	23,500	23,300	9,700	9,600
Wholesale Trade	2,400	2,400	3,300	3,300	1,200	1,100
Retail Trade	10,100	10,100	15,500	15,300	5,900	5,900
Transportation, Warehousing, & Utilities	900	900	4,700	4,700	2,600	2,600
Information	1,200	1,200	1,300	1,200	300	300
Financial Activities	4,400	4,300	3,700	3,700	900	900
Professional & Business Services	8,300	8,400	13,400	13,200	4,000	4,100
Educational & Health Services	14,400	14,400	18,500	18,500	5,600	5,400
Leisure & Hospitality	10,200	10,200	14,100	14,800	4,300	4,400
Other Services	2,700	2,700	5,800	5,700	1,300	1,300
Government	14,600	14,700	15,000	14,000	5,900	5,900
Federal Government	2,900	3,000	900	900	300	300
State Government	5,300	5,200	2,200	2,200	1,200	1,300
Local Government	6,400	6,500	11,900	10,900	4,400	4,300

Clarksville MSA is Montgomery County, Christian County, KY, & Trigg County, KY. Cleveland MSA is Bradley & Polk counties. Jackson MSA is Chester, Crockett, & Madison counties. Johnson City MSA is Carter, Unicoi, & Washington counties. Kingsport-Bristol MSA is Hawkins County, Sullivan County, Scott County, VA, Washington County, VA, & Bristol City, VA. Morristown MSA is Hamblen & Jefferson counties.

U.S. Consumer Price Index — July 2019

	All U	rban Consun	ners	Wage	& Clerical Ea	rners
		Percent	Change		Percen	t Change
Group	Index	Yearly	Monthly	Index	Yearly	Monthly
U.S. City Average						
All Items (1982-84=100)	256.571	1.8	0.2	250.236	1.7	0.2
Food and beverages	258.015	1.8	0.1	256.910	1.8	0.1
Housing	267.101	3.0	0.2	262.981	3.0	0.2
Apparel	122.161	-0.5	-1.3	121.293	-1.0	-1.3
Transportation	213.405	-0.3	0.2	213.345	-0.4	0.3
Medical care	497.687	2.6	0.4	502.666	2.8	0.5
South						
All Items (1982-84=100)	247.250	1.4	0.3	242.873	1.3	0.3
Food and beverages	254.928	1.8	0.2	253.716	1.8	0.3
Housing	245.364	2.8	0.2	245.501	2.8	0.3
Apparel	131.962	-1.5	-1.2	129.860	-1.7	-1.2
Transportation	212.724	-0.9	1.0	210.814	-1.1	1.1
Medical care	472.693	1.7	0.4	482.321	2.1	0.5

Hours And Earnings Of Production Workers

	Averag	Average Weekly Earnings			e Hourly E	arnings	Average Weekly Hours		
	July	June	July	July	June	July	July	June	July
	2018	2019	2019	2018	2019	2019	2018	2019	2019
Manufacturing	\$850.54	\$852.77	\$811.59	\$19.78	\$20.16	\$19.99	43.0	42.3	40.6
Durable Goods Manufacturing	\$867.26	\$883.15	\$835.11	\$20.60	\$20.78	\$20.62	42.1	42.5	40.5
Non-Durable Goods Manufacturing	\$819.62	\$803.27	\$769.64	\$18.46	\$19.08	\$18.91	44.4	42.1	40.7

All Employee Hours And Earnings										
	Aver	Average Weekly Earnings			Average Hourly Earnings			Average Weekly Hours		
	July	June	July	July	June	July	July	June	July	
	2018	2019	2019	2018	2019	2019	2018	2019	2019	
Total Private	\$836.65	\$864.93	\$841.70	\$23.37	\$24.16	\$23.98	35.8	35.8	35.1	
Goods-Producing	\$1,024.99	\$1,069.77	\$1,029.92	\$24.58	\$25.29	\$25.12	41.7	42.3	41.0	
Mining, Logging & Construction	\$1,040.00	\$1,088.43	\$1,092.22	\$25.00	\$25.61	\$25.76	41.6	42.5	42.4	
Manufacturing	\$1,018.73	\$1,062.17	\$1,007.64	\$24.43	\$25.17	\$24.88	41.7	42.2	40.5	
Private Service-Providing	\$794.88	\$817.71	\$797.34	\$23.04	\$23.84	\$23.66	34.5	34.3	33.7	
Trade, Transportation, & Utilities	\$710.70	\$757.00	\$740.22	\$20.66	\$22.07	\$21.90	34.4	34.3	33.8	
Information	\$1,203.58	\$1,153.85	\$1,107.82	\$31.02	\$29.97	\$29.78	38.8	38.5	37.2	
Financial Activities	\$1,240.67	\$1,311.32	\$1,275.21	\$31.33	\$33.71	\$33.47	39.6	38.9	38.1	
Professional & Business Services	\$1,049.45	\$1,029.70	\$1,016.29	\$27.69	\$27.68	\$27.92	37.9	37.2	36.4	
Education & Health Services	\$821.63	\$830.62	\$811.37	\$23.21	\$23.80	\$23.45	35.4	34.9	34.6	
Leisure & Hospitality	\$396.89	\$416.44	\$405.25	\$14.38	\$14.82	\$14.63	27.6	28.1	27.7	
Other Services	\$668.32	\$732.52	\$700.88	\$20.82	\$22.82	\$22.25	32.1	32.1	31.5	

TENNESSEE & UNITED STATES UNEMPLOYMENT RATES

