

in each county to obtain the quarterly average number of personnel for each subgroup, and then multiplied by the national annual average pay (for example, the number of Navy officers in each county is multiplied by the national average pay of Navy officers).

Second, the approximations of the quarterly cash wages for each subgroup in each county are summed to obtain county approximations, and the county approximations for each service are summed to obtain state approximations for each service. Third, the quarterly state approximations for each service are averaged to yield calendar year approximations, which are then adjusted proportionately to sum to the national estimates.

The national estimate of cash wages for the full-time personnel of the Coast Guard is allocated to states in proportion to an unpublished annual summation of monthly Coast Guard payroll from the Department of Homeland Security.

The national estimate of wages for the Reserves is from the appendix of the *Budget of the United States Government*. It is allocated to states in proportion to reserve wages by state provided by the Department of Defense, Office of Reserve Affairs.

The national estimate of the pay-in-kind of full-time personnel in the Coast Guard is allocated to the states in proportion to the number of enlisted personnel in the Coast Guard reported by the Department of Homeland Security, and the national estimate for each of the other services is allocated by the number of enlisted personnel in each service reported by the Department of Defense.

### **Alternative Measure of Wages**

Another measure of wages by place of work is the payroll data published in the Census Bureau's *County Business Patterns* (CBP). It differs in source data and coverage from BEA's wages and salaries and QCEW wages.<sup>17</sup>

The CBP data are derived from Census Bureau business establishment surveys and federal administrative records.

The coverage of the CBP data differs from that of the QCEW data primarily because the CBP data exclude most government employees, while the QCEW data cover civilian government employees.<sup>18</sup> CBP data also exclude several private industries covered at least in part by the QCEW: crop and animal production; rail transportation; insurance and employee benefit funds; trusts, estates, and agency accounts; and private households. However, the CBP data cover the employees of educational institutions, membership organizations, and small nonprofit organizations in other industries more completely than the QCEW data.<sup>19</sup>

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<sup>17</sup> See table C.

<sup>18</sup> The CBP data cover only those government employees who work in government hospitals, federally chartered savings institutions and credit unions, retail liquor stores, wholesale liquor establishments and university publishers. QCEW data in most states exclude state and local elected officials, members of the judiciary, state national and air national guardsmen, temporary emergency employees, and those in policy and advisory positions.

<sup>19</sup> Some religious elementary and secondary schools are not covered by QCEW because of a 1981 Supreme Court decision stating "schools operated and supported by churches and not separately incorporated [are] held exempt from unemployment compensation taxes." College students (and their spouses) employed by the school in which they are enrolled and student nurses and interns employed by hospitals as part of their

Beginning in 2001, QCEW classifies employees of Indian tribal governments and enterprises in local government. These employees were previously classified in the relevant private industries.<sup>20</sup> In the CBP data, these employees are still classified in private industries.

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training are also excluded from QCEW. While QCEW coverage varies, half of the states only include nonprofit organizations with four or more employees during twenty weeks in a calendar year.

<sup>20</sup> For example, employees of casinos owned by tribal councils were included in the North American Industry Classification System 3-digit industry “Amusement, Gambling, and Recreation Industries.”

**Table C.--Wages and Salaries, by Industry, United States, 2015**

	Millions of dollars	Percent of personal income
Personal income /1/	15,463,981	100.0
Wages and salaries by place of work /2/	7,848,555	50.8
Farm wages and salaries	26,208	0.2
Forestry, fishing, and related activities	17,922	0.1
Forestry and logging	2,724	0.0
Fishing, hunting, and trapping	617	0.0
Agriculture and forestry support activities	14,581	0.1
Mining	76,971	0.5
Oil and gas extraction	31,399	0.2
Mining (except oil and gas)	14,860	0.1
Support activities for mining	30,712	0.2
Utilities	57,465	0.4
Construction	380,306	2.5
Construction of buildings	91,342	0.6
Heavy and civil engineering construction	66,143	0.4
Specialty trade contractors	222,821	1.4
Manufacturing	806,749	5.2
Durable goods manufacturing	533,760	3.5
Wood product manufacturing	16,569	0.1
Nonmetallic mineral product manufacturing	22,177	0.1
Primary metal manufacturing	25,762	0.2
Fabricated metal product manufacturing	80,074	0.5
Machinery manufacturing	76,784	0.5
Computer and electronic product manufacturing	116,065	0.8
Electrical equipment and appliance manufacturing	24,963	0.2
Motor vehicles, bodies and trailers, and parts manufacturing	56,825	0.4
Other transportation equipment manufacturing	60,708	0.4
Furniture and related product manufacturing	16,616	0.1
Miscellaneous manufacturing	37,217	0.2
Nondurable goods manufacturing	272,989	1.8
Food manufacturing	69,878	0.5
Beverage and tobacco product manufacturing	12,647	0.1
Textile mills	5,344	0.0
Textile product mills	4,640	0.0
Apparel manufacturing	5,356	0.0
Leather and allied product manufacturing	1,310	0.0
Paper manufacturing	24,919	0.2
Printing and related support activities	21,979	0.1
Petroleum and coal products manufacturing	12,654	0.1
Chemical manufacturing	78,514	0.5
Plastics and rubber products manufacturing	35,748	0.2
Wholesale trade	440,251	2.8
Retail trade	482,275	3.1
Motor vehicle and parts dealers	95,245	0.6

Furniture and home furnishings stores	16,736	0.1
Electronics and appliance stores	24,856	0.2
Building material and garden supply stores	41,266	0.3
Food and beverage stores	74,659	0.5
Health and personal care stores	39,943	0.3
Gasoline stations	19,181	0.1
Clothing and clothing accessories stores	30,661	0.2
Sporting goods, hobby, book and music stores	13,355	0.1
General merchandise stores	73,704	0.5
Miscellaneous store retailers	21,946	0.1
Nonstore retailers	30,723	0.2
Transportation and warehousing	257,382	1.7
Air transportation	37,040	0.2
Rail transportation	18,004	0.1
Water transportation	5,822	0.0
Truck transportation	72,846	0.5
Transit and ground passenger transportation	15,931	0.1
Pipeline transportation	5,987	0.0
Scenic and sightseeing transportation	1,117	0.0
Support activities for transportation	35,699	0.2
Couriers and messengers	28,356	0.2
Warehousing and storage	36,580	0.2
Information	266,815	1.7
Publishing industries, except Internet	76,211	0.5
Motion picture and sound recording industries	27,929	0.2
Broadcasting, except Internet	23,590	0.2
Telecommunications	67,979	0.4
ISPs, search portals, and data processing	29,952	0.2
Other information services 2/	41,154	0.3
Finance and insurance	609,705	3.9
Monetary authorities - central bank	2,068	0.0
Credit intermediation and related activities	199,866	1.3
Securities, commodity contracts, investments	195,931	1.3
Insurance carriers and related activities	210,899	1.4
Funds, trusts, and other financial vehicles	941	0.0
Real estate and rental and leasing	117,371	0.8
Real estate	87,881	0.6
Rental and leasing services	27,168	0.2
Lessors of nonfinancial intangible assets	2,322	0.0
Professional, scientific, and technical services	788,837	5.1
Management of companies and enterprises	260,974	1.7
Administrative and waste management services	337,732	2.2
Administrative and support services	314,995	2.0
Waste management and remediation services	22,737	0.1
Educational services	143,799	0.9
Health care and social assistance	897,590	5.8
Ambulatory health care services	412,621	2.7
Hospitals	300,794	1.9

Nursing and residential care facilities	101,178	0.7
Social assistance	82,997	0.5
Arts, entertainment, and recreation	86,511	0.6
Performing arts and spectator sports	40,140	0.3
Museums, historical sites, zoos, and parks	5,201	0.0
Amusement, gambling, and recreation	41,170	0.3
Accommodation and food services	290,685	1.9
Accommodation	66,254	0.4
Food services and drinking places	224,431	1.5
Other services, except public administration	246,017	1.6
Repair and maintenance	55,600	0.4
Personal and laundry services	44,809	0.3
Membership associations and organizations	124,911	0.8
Private households	20,697	0.1
Government and government enterprises	1,256,990	8.1
Federal, civilian	220,372	1.4
Military	91,746	0.6
State and local	944,872	6.1
State government	268,328	1.7
Local government	676,544	4.4

#### Footnotes

1. Includes the adjustment for residence which is the net inflow of the earnings of interarea commuters. For the United States, it consists of adjustments for border workers: Wage and salary disbursements to U.S. residents commuting to Canada less wage and salary disbursements to Canadian and Mexican residents commuting into the United States.

2. Includes wages received by border workers employed in the United States

NOTE.—Detail may not add to totals due to rounding.

**Table D. Relation of BEA Wages and Salaries to  
Wages Published by the Bureau of Labor Statistics, United States, 2015**  
[Millions of dollars]

Total wages, BLS <sup>1</sup> ...	7,384,083
Plus: Adjustments made by BEA:	
For unreported wages and unreported tips on employment tax returns...	87,839
For wages and salaries not covered or not fully covered by unemployment insurance:	
Private...	251,264
Government...	127,686
Other adjustments <sup>2</sup> ...	-2,317
Equals: Wage and salary, BEA ...	7,848,555

1. BLS.gov data as of 08/01/16. Preliminary data.

2. Consists of adjustments to the wage and salary estimates to remove employees of U.S. companies stationed overseas, and reflect updates to published BLS Quarterly Census of Employment and Wages (QCEW) data.