

2014

PROJECTED DEFENSE PURCHASES: DETAIL BY INDUSTRY AND STATE

Calendar Years 2013 Through 2019



Office of the Secretary of Defense
Cost Assessment and Program Evaluation

The estimated cost of this report or study for the Department of Defense is approximately \$206,000 in Fiscal Years 2014 - 2015. This includes \$198,000 in expenses and \$8,260 in DoD labor.

Generated on 2014Dec16 RefID: C-A2E33E7

PROJECTED DEFENSE PURCHASES: DETAIL BY INDUSTRY AND STATE

Since the 1996 edition of *Projected Defense Purchases: Detail by Industry and State*, the Defense Employment and Purchases Projection System (*DEPPS*) has consisted of three defense-spending models:

- *IDEPPS* is a detailed interindustry model that forecasts defense spending from 360 industries and by major appropriation and procurement category for the top ten industries.
- *RDEPPS* is a state-level (regional) model that determines the effect of defense expenditures by major procurement category on each state, at an aggregate level of 110 industries (unlike the more detailed *IDEPPS*).
- *LDEPPS* is a skilled-labor model that determines the requirements for various occupational classifications of employment in each industry. The occupational matrix used in *LDEPPS* comprises 101 occupational categories, with greater detail provided on categories that are heavily employed either directly or indirectly by Department of Defense.

Two input-output models feed *DEPPS*:

- *LIFT*, the Long-term Interindustry Forecasting Tool, is a 97-sector input-output model embedded in a macroeconomic model. *LIFT* establishes the macroeconomic environment as well as industry controls.
- *ILIAD*, the Interindustry Long-run Integrated and Dynamic model, uses the macroeconomic forecasts and the industry controls from *LIFT* to further divide the economy into 360 industries.

The Office of Cost Assessment and Program Evaluation and Interindustry Forecasting at the University of Maryland (Inforum) developed *DEPPS*. *LIFT* and *ILIAD* were developed by Inforum. *DEPPS*, *LIFT*, and *ILIAD* are maintained by Inforum.

The last and most critical element in developing the projections is the *Defense Translator*. The *Defense Translator* disaggregates the total defense budget by budget category into source industries.

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**SECTION I
INTRODUCTION AND
HIGHLIGHTS:
Expenditures by Industry and
Region and Employment**

Introduction

The *Projected Defense Purchases: Detail by Industry and State* is produced by the Defense Employment and Purchases Projection System (DEPPS). DEPPS estimates industrial and regional patterns of defense expenditures for calendar years 2013 through 2019. Specifically, this report estimates direct and indirect purchases from 360 industries and projections of defense-related spending for each of the 50 states and the District of Columbia. Moreover, the report illustrates the occupational requirements of employment directly and indirectly related to defense expenditures.

Projection Highlights

Defense-related expenditures have a major impact on the U.S. and changes in defense spending can have major implications. Table 1 shows that direct Defense expenditures are projected to be \$534B in 2015.¹ In 2015, direct Defense expenditures are expected to comprise 13 percent of all federal expenditures and 3 percent of total U.S. Gross Domestic Product (GDP). When compared to the GDP of world economies, U.S. Defense expenditures would be the 24th largest economy in the world.² For example, U.S. direct defense expenditures are expected to exceed Poland's entire GDP in 2015. Additionally, defense-related spending (indirects from purchases and induced spending from pay) accounts for another \$410B of the U.S. economy. Indirect purchases are those that are made across the supply chain for final goods. For example, expenditures on

¹ Funding for overseas contingency operations are included in FY13 and FY14 estimates, but not FY15–19.

² Source: IHS, Comparative World Overview Tables, November 2014

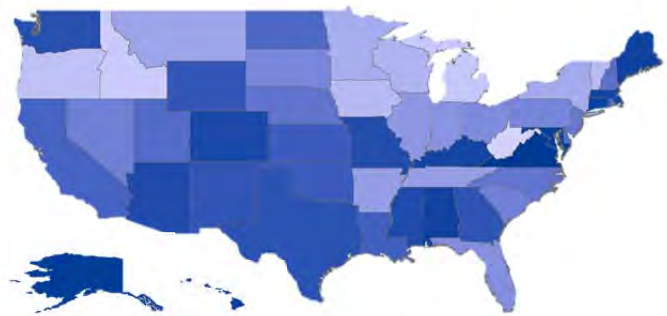
aircraft stimulate indirect purchases of electronic components, aircraft parts, tires, aluminum, etc. Induced expenditures are derived from the wages and salaries of DoD personnel and from military retirement pay. More specifically, induced expenditures are the household purchases from defense personnel that occur in each state. Obviously, states with large and numerous military installations tend to have large induced expenditures. Less obviously, states that produce consumer goods sold in a national market (such as automobiles and appliances) will also have significant induced expenditures.

Another way to look at the impact of Defense-related expenditures on the economy is to look at the number of workers directly or indirectly employed from Defense-related expenditures. Defense-related employment is projected to be 2.9 percent of the total labor force in the U.S. in 2015.³ Table 2 shows defense-related employment by type of worker. In 2015, 2.9 million civilians will be directly employed by defense expenditures. Another three hundred thousand will be employed indirectly from defense-related expenditures. DoD will also employ 1.3 million active duty military personnel and another eight hundred thousand reservists.

State Projections

While the impact of defense spending on the United States' economy is significant, the distribution is varied by state and industry. See Table 3 for spending by region. The geographic distribution of defense expenditures reflects the distribution of military personnel and DoD civilian employees, as well as the location of the industries that make defense. The dispersion within regions is

larger than the dispersion across them. For example: 1) Seven of the nine regions contain one or more states in which total projected defense expenditures (direct and indirect) exceed the national average; 2) Every region contains at least one state in which total projected defense expenditures are less than 75 percent of the national average; and 3) Intraregional variation (the difference between the lowest and highest state estimate within a region) is greater than the variation among regional averages (the difference between the lowest and highest regional estimate) in five of the nine regions.



*Figure 1: Direct Defense Spending, Per Capita
(Darker higher per capita and lighter lower per capita)*

Looking at spending by state, Figure 1 illustrates that the per capita rate of spending varies across the map.⁴ The District of Columbia has the highest level of direct defense spending per capita at more than \$13,000 in direct defense expenditures per person. This is well above the per capita rate for the entire United States at \$1,700 and the lowest per capita rate of West Virginia at only \$552.

Table 3 details additional information on per capita spending by state for pay, purchases, total direct expenditures, indirect defense purchases, and induced purchases from pay.

³ This number excludes part-time reservists.

⁴ Expenditures by state are produced by the RDEPPS model.

Perhaps a more meaningful way of looking at the effect of defense spending is to analyze the percent of defense spending in a state's economy, or GDP. While the District of Columbia has the highest per capita direct defense spending, it has the fifth highest rate of direct defense spending as a percent of GDP. Virginia has the highest rate of defense spending as a percent of the state's GDP at 12.6 percent, significantly larger than the rate of defense spending to GDP for the entire U.S. at 3 percent. In contrast, New York state has the lowest rate of defense spending to GDP at just above one percent. This measure is a good indicator of the effect of defense spending and changes in defense spending on a state's overall economy. While Virginia and Hawaii might be significantly affected by changes in defense spending, New York and Oregon would have much smaller impact in general.

Direct Defense Spending as a Percent of State GDP		
Rank	State	Percent of GDP
Highest		
1	Virginia	12.6
2	Hawaii	10.5
3	Maine	8.2
4	Mississippi	7.3
5	District of Columbia	6.9
Lowest		
1	New York	1.1
2	Oregon	1.2
3	Minnesota	1.2
4	Michigan	1.2
5	West Virginia	1.3

Full details on ratios of defense spending to state GDP are provided in Table 4.

Additionally, the type of spending in a state is important. Table 5 shows the level of spending by state on total direct expenditures, expenditures on Procurement and Research, Development, Testing, and Evaluation (RDT&E), direct expenditures on pay, indirect expenditures from purchases, and

induced expenditures from pay. Note that California has the highest level of direct purchases and direct purchases from Procurement and RDT&E, while Virginia has the highest level of direct spending on pay.

More detailed tabulations of defense-related spending by state are provided in Section IV.

Industry Projections

Another important distribution of defense spending is spending by industry. Although the majority of both defense and nondefense spending is in service industries, manufacturing accounts for a greater percentage of defense spending than of nondefense spending. More than one third of defense purchases—36 percent—are from manufacturing industries, whereas one quarter of nondefense purchases—24 percent—are from the manufacturing industries. Conversely, services account for about 58 percent of direct defense purchases but about 67 percent of direct nondefense purchases. The distribution of indirect purchases is similar across both defense and nondefense purchases.

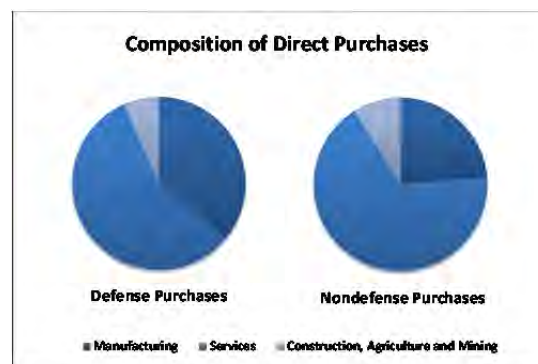


Table 7 presents the 75 non-food industries that receive the largest share of direct defense expenditures. While some of these industries are defense-specific (e.g., shipbuilding, tanks and tank components, aircraft, and guided

missiles), a significant share of defense purchases are made directly to industries not typically associated with defense activities (e.g., employment services, printing, legal services, and insurance carriers). Note that the top two industries for direct purchases are in highly skilled labor. The top 10 industries, shown below, make up a third of all direct defense purchases. Moreover, one half of all direct defense spending are in the top 25 industries.

Total Direct Purchases in the Top 10 Industries		
Rank	Industry	2015 \$Millions
1	Scientific research and development services	35,541
2	Architectural, engineering, and related services	31,229
3	Aircraft	24,095
4	Offices of physicians, dentists, and other practitioners	18,335
5	Ship building and repairing	14,248
6	Petroleum refineries	12,405
7	Air transportation	12,261
8	Truck transportation	11,557
9	Telecommunications	11,390
10	Guided missiles and space vehicles	11,272

More detailed tabulations of defense-related spending by industry are provided in Section III.

Employment Projections

DEPPS also estimates the impact of defense-related expenditures on U.S. employment. Defense-related civilian employment (including civilian employees of the Department of Defense) represents about 2 percent of projected total U.S. civilian employment in 2015.

The composition of defense-related civilian employment reflects the higher manufacturing intensity of defense purchases, as well as specific employment patterns of the individual industries from which defense purchases are made. Jobs related to defense spending are far less concentrated in sales and service occupations than jobs in the U.S. as a whole.



Table 9 details defense-related employment by major occupational category for years 2013–2019. Because of the interest in defense-related employment of engineers and scientists, additional details on employment of these labor categories are provided in Table 10.

Table 1 Defense Expenditures Rounded to Billions of 2015 dollars							
	<i>Includes OCO</i>						
	2013	2014	2015	2016	2017	2018	2019
Direct Defense Expenditures							
Total Direct Defense Expenditures	\$620	\$586	\$534	\$525	\$524	\$520	\$518
Total Federal Outlays	\$3,536	\$3,779	\$3,983	\$4,099	\$4,184	\$4,275	\$4,492
% of Federal Spending	18%	16%	13%	13%	13%	12%	12%
Projected US GDP	\$17,328	\$17,872	\$18,515	\$19,191	\$19,871	\$20,472	\$20,977
% of Defense Expenditures to GDP	3.6%	3.3%	2.9%	2.7%	2.6%	2.5%	2.5%
Direct Expenditures per capita (in dollars)	\$1,973	\$1,874	\$1,723	\$1,700	\$1,701	\$1,690	\$1,686
Indirect and Induced Defense Expenditures							
Total Indirect Expenditures from Purchases	\$342	\$305	\$274	\$269	\$269	\$266	\$265
Total Induced Expenditures from Pay	\$135	\$144	\$136	\$134	\$134	\$135	\$134

Sources: IDEPPS calculation, FY15 OSD Comptroller Green Book

Note: Numbers are in calendar year, constant dollars and may not add due to rounding.

Table 2 Projected Defense and Defense-Related Employment (Thousands of Workers)							
Employment Category	2013	2014	2015	2016	2017	2018	2019
DoD Active Duty Military Personnel	1,413	1,355	1,339	1,312	1,288	1,268	1,258
DoD Reserve Personnel	338	338	333	326	320	317	317
DoD US Direct Civilian Hires	0	0	0	0	0	0	0
Direct Private Sector Employment	2,586	2,412	2,193	2,124	2,082	2,032	1,997
Indirect Private Sector Employment	625	442	313	286	271	257	245
Civilian Defense-Related Employment	3,211	2,853	2,506	2,410	2,354	2,289	2,242
Civilian and Military Defense Related Employment	4,624	4,208	3,845	3,722	3,642	3,557	3,500
All Defense-Related Employment, including Reserves	4,962	4,546	4,178	4,048	3,962	3,874	3,817

Notes:

Sources: FY2015 DEPPS, PB15 FYDP Book

Defense-related employment includes jobs associated with spending on Overseas Contingency Operations (OCO) in 2013 and 2014

DoD Active Duty Military personnel include Active Duty Army, Navy, Air Force, and Marines as well as active duty Reservists

DoD Direct Civilian Hires exclude foreign national hires and includes Reserve civilian technicians

Direct Private Sector Employment is an estimate of private sector jobs created by direct defense expenditures

Indirect Private Sector Employment is an estimate of private sector jobs created by indirect defense expenditures

DoD Reserve Personnel include only traditional, part-time personnel.

The Army National Guard and Air Guard are not included because personnel expenses are not included in DoD's budget

Table 3 Estimated Defense Expenditures Per Capita, 2015 (By State and Region, in 2015 dollars)						
State/Region	Population (Thousands)	Direct			Indirect from Direct	Induced from Direct
		Pay	Purchases	Total	Purchases	Pay
New England	14,726	305	2,248	2,553	1,018	327
Connecticut	3,615	192	3,427	3,618	1,273	345
Maine	1,349	745	2,963	3,708	515	437
Massachusetts	6,707	212	2,072	2,284	1,132	291
New Hampshire	1,357	315	1,152	1,466	724	286
Rhode Island	1,059	710	794	1,504	773	437
Vermont	639	295	659	953	466	267
Mid-Atlantic	41,490	252	747	999	833	330
New Jersey	8,968	295	903	1,198	922	348
New York	19,679	198	594	792	788	341
Pennsylvania	12,844	304	875	1,179	841	301
South Atlantic	63,276	1,073	1,514	2,587	912	583
Delaware	939	659	518	1,177	1,020	488
District of Columbia	630	5,587	8,068	13,655	4,288	2419
Florida	20,042	571	728	1,299	522	346
Georgia	10,268	1,059	791	1,850	794	612
Maryland	6,064	1,175	2,455	3,630	1,339	605
North Carolina	10,095	954	526	1,480	672	601
South Carolina	4,865	785	691	1,476	617	440
Virginia	8,514	2,393	5,096	7,490	1,937	1104
West Virginia	1,859	260	292	552	546	207
East North Central	46,969	241	576	817	795	304
Illinois	13,028	238	625	863	821	301
Indiana	6,620	255	595	850	894	328
Michigan	9,920	169	418	587	631	289
Ohio	11,579	350	624	974	866	341
Wisconsin	5,824	138	621	759	765	236
West North Central	21,101	455	945	1,400	757	371
Iowa	3,100	159	593	752	694	275
Kansas	2,935	1,052	657	1,708	720	590
Minnesota	5,510	137	609	746	792	251
Missouri	6,121	448	1,684	2,132	830	366
Nebraska	1,881	686	768	1,454	713	458
North Dakota	706	1,006	605	1,611	607	555
South Dakota	849	606	765	1,371	585	434
East South Central	19,028	719	1,522	2,241	875	455
Alabama	4,917	993	1,972	2,965	1,236	552
Kentucky	4,438	1,027	1,917	2,944	994	594
Mississippi	3,038	689	2,108	2,796	575	406
Tennessee	6,636	323	657	980	664	313
West South Central	38,775	695	917	1,612	948	446
Arkansas	3,014	481	530	1,011	649	368
Louisiana	4,689	524	638	1,162	1,262	431
Oklahoma	3,878	1,086	602	1,688	743	556
Texas	27,194	693	1,052	1,745	956	442
Mountain	23,594	705	1,207	1,912	725	406
Arizona	6,853	545	1,786	2,331	678	331
Colorado	5,397	961	1,524	2,485	899	534
Idaho	1,669	473	268	741	391	308
Montana	1,036	561	544	1,105	504	328
Nevada	2,886	598	879	1,477	626	357
New Mexico	2,168	930	849	1,780	815	477
Utah	2,997	715	772	1,487	721	419
Wyoming	589	757	537	1,294	1,204	427
Pacific	52,312	646	1,126	1,772	815	442
Alaska	751	3,552	2,133	5,685	2,355	1574
California	38,989	414	1,172	1,586	806	360
Hawaii	1,426	4,228	1,863	6,091	1,012	1817
Oregon	4,006	239	444	683	659	249
Washington	7,141	1,124	1,002	2,126	754	605
United States	321,270	606	1,117	1,723	877	426

Source: RDEPPS Calculations

Table 4 Projections of Total Direct Expenditures by State (Millions of 2015 dollars)								
State	<i>Includes OCO</i>		2015	2016	2017	2018	2019	% of GDP in 2015
	2013	2014						
Alabama	16,716	15,856	14,581	14,403	14,458	14,277	14,207	6.75
Alaska	4,941	4,829	4,267	4,114	4,066	4,019	3,993	6.08
Arizona	18,142	17,072	15,975	15,903	15,903	15,912	15,957	5.17
Arkansas	3,406	3,347	3,047	2,975	2,956	2,937	2,937	2.24
California	70,536	65,945	61,850	61,406	61,390	61,038	60,785	2.54
Colorado	15,434	14,647	13,413	13,170	13,142	13,073	13,047	4.18
Connecticut	15,565	13,210	13,081	13,580	13,938	13,805	13,698	4.69
Delaware	1,235	1,223	1,106	1,076	1,068	1,059	1,053	1.58
District of Columbia	9,877	9,735	8,604	8,331	8,253	8,146	8,128	6.86
Florida	29,547	28,621	26,040	25,521	25,463	25,282	25,281	2.96
Georgia	21,125	20,745	18,999	18,642	18,571	18,562	18,521	3.80
Hawaii	9,634	9,567	8,687	8,471	8,417	8,363	8,312	10.49
Idaho	1,368	1,350	1,237	1,208	1,203	1,196	1,191	1.87
Illinois	13,062	12,525	11,240	10,945	10,923	10,841	10,809	1.39
Indiana	6,634	6,257	5,626	5,517	5,579	5,590	5,577	1.60
Iowa	2,716	2,520	2,332	2,294	2,286	2,267	2,264	1.30
Kansas	5,621	5,488	5,014	4,923	4,895	4,889	4,871	3.17
Kentucky	15,014	14,501	13,066	12,647	12,536	12,403	12,348	6.45
Louisiana	6,364	6,149	5,450	5,282	5,273	5,215	5,181	1.85
Maine	5,876	5,007	5,001	5,223	5,453	5,339	5,269	8.23
Maryland	25,209	24,146	22,010	21,589	21,565	21,329	21,263	5.75
Massachusetts	17,680	15,837	15,317	15,421	15,440	15,421	15,450	3.10
Michigan	7,057	6,650	5,824	5,697	5,822	5,860	5,918	1.22
Minnesota	4,775	4,553	4,111	4,009	3,978	3,929	3,931	1.20
Mississippi	10,142	8,797	8,495	8,746	9,062	8,895	8,806	7.31
Missouri	14,895	13,878	13,049	13,076	13,067	13,147	13,204	4.24
Montana	1,277	1,233	1,144	1,123	1,128	1,133	1,132	2.35
Nebraska	3,092	3,030	2,736	2,652	2,633	2,609	2,598	2.32
Nevada	4,976	4,764	4,265	4,161	4,149	4,126	4,111	2.89
New Hampshire	2,356	2,196	1,990	1,955	1,951	1,934	1,942	2.64
New Jersey	12,500	12,016	10,741	10,414	10,355	10,251	10,267	1.77
New Mexico	4,260	4,159	3,858	3,791	3,778	3,755	3,743	3.76
New York	18,192	16,921	15,577	15,293	15,179	14,951	14,823	1.05
North Carolina	16,804	16,557	14,943	14,514	14,402	14,281	14,206	2.90
North Dakota	1,289	1,268	1,138	1,101	1,089	1,080	1,071	1.93
Ohio	12,574	12,238	11,273	11,030	10,993	10,952	10,929	1.79
Oklahoma	7,066	7,147	6,548	6,412	6,395	6,409	6,394	3.27
Oregon	3,240	3,069	2,737	2,654	2,657	2,635	2,620	1.18
Pennsylvania	17,487	16,739	15,145	14,905	14,878	14,833	14,872	2.09
Rhode Island	1,744	1,755	1,593	1,555	1,550	1,546	1,547	2.70
South Carolina	8,180	7,992	7,184	7,002	6,997	6,943	6,930	3.54
South Dakota	1,292	1,267	1,164	1,136	1,130	1,123	1,119	2.31
Tennessee	7,409	7,148	6,505	6,339	6,313	6,246	6,228	2.03
Texas	53,947	51,041	47,449	47,192	47,113	47,161	47,023	2.77
Utah	4,813	4,800	4,456	4,392	4,392	4,400	4,421	2.89
Vermont	700	664	609	601	598	596	598	1.88
Virginia	73,360	70,237	63,773	62,568	62,604	61,795	61,692	12.63
Washington	16,692	16,206	15,184	15,118	15,118	15,176	15,121	3.45
West Virginia	1,147	1,130	1,027	1,003	1,000	994	992	1.29
Wisconsin	6,124	5,318	4,421	4,336	4,549	4,616	4,597	1.42
Wyoming	865	848	762	737	731	725	721	1.54
United States	633,958	602,198	553,647	546,155	546,389	543,065	541,699	2.99

Source: RDEPPS Calculations

* GDP by state is from the Inforum STEMS (State Employment Modeling System), a component of RDEPPS.

Table 5 State Projections for 2015 (Millions of 2015 dollars)					
	Direct Purchases from Procurement and RDT&E			Direct Expenditures on Pay	
	Total Direct Expenditures			Total Indirect Purchases	Total Induced Expenditures
Alabama	14,581	4,849	4,883	6,075	2,713
Alaska	4,267	142	2,666	1,767	1,181
Arizona	15,975	5,479	3,737	4,645	2,266
Arkansas	3,047	271	1,450	1,957	1,111
California	61,850	23,882	16,132	31,418	14,019
Colorado	13,413	3,462	5,186	4,850	2,881
Connecticut	13,081	10,205	692	4,603	1,248
Delaware	1,106	46	619	958	458
District of Columbia	8,604	1,479	3,521	2,702	1,524
Florida	26,040	4,546	11,437	10,463	6,940
Georgia	18,999	2,963	10,877	8,155	6,285
Hawaii	8,687	626	6,029	1,443	2,591
Idaho	1,237	55	789	653	515
Illinois	11,240	2,148	3,101	10,695	3,922
Indiana	5,626	1,613	1,689	5,920	2,168
Iowa	2,332	798	493	2,150	852
Kansas	5,014	721	3,087	2,113	1,733
Kentucky	13,066	393	4,558	4,411	2,637
Louisiana	5,450	444	2,456	5,916	2,019
Maine	5,001	3,238	1,005	695	590
Maryland	22,010	6,395	7,125	8,122	3,670
Massachusetts	15,317	10,022	1,422	7,589	1,950
Michigan	5,824	1,283	1,676	6,263	2,871
Minnesota	4,111	733	757	4,362	1,382
Mississippi	8,495	4,731	2,092	1,746	1,235
Missouri	13,049	6,084	2,740	5,081	2,238
Montana	1,144	231	581	521	340
Nebraska	2,736	207	1,291	1,342	862
Nevada	4,265	619	1,726	1,806	1,031
New Hampshire	1,990	701	427	983	389
New Jersey	10,741	2,558	2,647	8,265	3,125
New Mexico	3,858	844	2,017	1,766	1,034
New York	15,577	4,803	3,892	15,513	6,703
North Carolina	14,943	573	9,631	6,785	6,071
North Dakota	1,138	32	710	429	392
Ohio	11,273	2,763	4,051	10,030	3,953
Oklahoma	6,548	726	4,211	2,882	2,155
Oregon	2,737	317	957	2,638	998
Pennsylvania	15,145	4,800	3,909	10,796	3,860
Rhode Island	1,593	303	752	819	463
South Carolina	7,184	687	3,822	3,004	2,139
South Dakota	1,164	45	515	497	369
Tennessee	6,505	1,059	2,145	4,409	2,078
Texas	47,449	15,615	18,832	25,986	12,012
Utah	4,456	1,173	2,143	2,161	1,255
Vermont	609	172	188	298	171
Virginia	63,773	16,465	20,377	16,495	9,403
Washington	15,184	4,099	8,028	5,387	4,321
West Virginia	1,027	124	483	1,015	385
Wisconsin	4,421	941	804	4,454	1,374
Wyoming	762	25	446	709	251
U.S. Total	553,647	156,491	194,804	273,743	136,131

Source: RDEPPS Calculations

Table 6 Composition of Defense and Nondefense Purchases for 2015		
	Defense Purchases	Nondefense Purchases
Direct		
Manufacturing	35.9%	23.9%
Services	57.5%	67.2%
Construction, Agriculture and Mining	6.6%	8.9%
Indirect		
Manufacturing	30.4%	28.9%
Services	60.1%	61.0%
Construction, Agriculture and Mining	9.5%	10.1%

Rank	Industry	<i>Includes OCO</i>		2015	2016	2017	2018	2019
		2013	2014					
1	310 Scientific research and development services	40,006	34,888	35,541	36,072	36,138	35,476	35,212
2	303 Architectural, engineering, and related services	37,549	35,762	31,229	30,588	30,110	29,266	29,754
3	235 Aircraft	27,816	23,953	24,095	25,711	25,884	26,520	26,152
4	328 Offices of physicians, dentists, and other health practitioners	20,285	19,465	18,335	17,919	17,834	17,683	17,626
5	241 Ship building and repairing	20,051	13,729	14,248	16,296	17,786	16,990	16,429
6	94 Petroleum refineries	15,745	14,920	12,405	11,474	11,230	10,935	10,805
7	267 Air transportation	14,864	13,936	12,261	11,744	11,658	11,475	11,357
8	270 Truck transportation	14,566	13,587	11,557	10,785	10,573	10,361	10,224
9	285 Telecommunications	15,010	13,507	11,390	10,740	10,707	10,552	10,512
10	238 Guided missiles and space vehicles	12,704	11,735	11,272	11,599	12,085	12,626	12,805
11	35 Maintenance and repair of nonresidential buildings	14,950	13,983	10,827	9,931	9,723	9,327	9,166
12	32 New non-residential building construction	13,222	12,453	10,324	9,626	9,366	9,068	8,714
13	242 Boat building	8,862	8,488	8,734	8,548	8,773	8,687	8,778
14	237 Other aircraft parts and auxiliary equipment	9,177	7,923	7,176	6,896	6,725	6,895	6,943
15	269 Water transportation	8,127	7,944	6,852	6,541	6,437	6,227	6,175
16	203 Search, detection, and navigation instruments	7,961	6,804	6,773	6,995	7,019	6,986	7,148
17	307 Other computer related services, facilities management	7,853	7,572	6,738	6,553	6,526	6,384	6,427
18	312 All other miscellaneous professional, scientific, and technical services	7,503	6,586	5,942	5,711	5,671	5,648	5,669
19	308 Management, scientific, and technical consulting services	7,196	6,625	5,076	4,592	4,498	4,292	4,287
20	197 Broadcast and wireless communications equipment	5,729	4,754	4,911	5,046	5,100	5,041	5,038
21	306 Computer systems design services	5,321	4,845	4,287	4,130	4,110	4,028	4,020
22	294 Real estate	5,576	5,065	4,210	3,914	3,898	3,862	3,823
23	317 Facilities support services	6,075	5,516	4,140	3,721	3,616	3,477	3,441
24	28 Electric power	5,466	4,945	4,045	3,763	3,750	3,701	3,682
25	236 Aircraft engines and engine parts	4,676	3,987	3,846	4,066	3,883	3,866	3,897
26	339 Hotels and other accommodations	4,653	4,346	3,743	3,544	3,502	3,433	3,392
27	305 Custom computer programming services	4,362	3,966	3,456	3,272	3,238	3,162	3,149
28	273 Scenic and sightseeing transportation and support	4,025	3,744	3,242	3,211	3,199	3,177	3,174
29	275 Warehousing and storage	3,898	3,645	3,084	2,874	2,817	2,756	2,720
30	340 Food services and drinking places	3,817	3,613	3,030	2,859	2,820	2,741	2,714
31	152 Ammunition	3,112	3,054	2,893	2,999	2,909	2,843	3,039
32	291 Insurance carriers	2,864	2,860	2,689	2,638	2,600	2,543	2,494
33	324 Waste management and remediation services	3,965	3,471	2,400	2,006	1,910	1,837	1,804
34	326 Junior colleges, colleges, universities, and professional schools	3,017	2,691	2,368	2,241	2,167	2,059	2,002
35	280 Software publishers	2,856	2,665	2,283	2,171	2,162	2,138	2,139
36	327 Other educational services	2,689	2,432	1,975	1,847	1,830	1,797	1,790
37	201 All other electronic components	2,190	1,939	1,973	2,029	2,032	2,023	2,047
38	351 Postal service	2,503	2,271	1,898	1,786	1,789	1,770	1,761
39	92 Printing	2,471	2,148	1,857	1,795	1,810	1,797	1,784
40	75 Apparel accessories and other apparel	2,127	2,042	1,842	1,769	1,727	1,682	1,649
41	296 Automotive equipment rental and leasing	2,071	1,935	1,674	1,589	1,572	1,543	1,525
42	244 Military armored vehicles, tanks, and tank components	2,908	2,184	1,615	1,692	2,056	2,254	2,470
43	268 Rail transportation	1,873	1,747	1,488	1,390	1,364	1,336	1,319
44	321 Other support services	1,810	1,672	1,453	1,382	1,374	1,359	1,349
45	266 Retail trade	1,574	1,526	1,451	1,421	1,415	1,402	1,398
46	74 Cut and sew apparel	1,544	1,549	1,378	1,320	1,291	1,251	1,232
47	193 Computers	1,843	1,514	1,317	1,267	1,263	1,247	1,241
48	198 Other communications equipment	1,545	1,337	1,294	1,310	1,323	1,315	1,342
49	239 Propulsion units and parts for space vehicles and guided missiles	1,585	1,436	1,269	1,327	1,334	1,325	1,312
50	173 Other commercial and service industry machinery	1,709	1,640	1,245	1,128	1,076	1,009	1,003
51	309 Environmental and other technical consulting services	1,684	1,520	1,191	1,091	1,069	1,039	1,026
52	33 Highway, street, bridge, tunnel, water, sewer, pipeline construction	1,504	1,478	1,115	903	774	669	593
53	320 Services to buildings and dwellings	1,479	1,373	1,033	937	918	881	871
54	30 Water, sewage and other systems	1,148	1,043	832	763	755	741	736
55	263 All other miscellaneous manufacturing	1,026	957	816	763	751	739	740
56	29 Natural gas distribution	962	871	719	673	673	664	661
57	153 Arms, ordnance, and accessories	919	804	709	730	703	691	711
58	171 Optical instruments and lenses	985	842	708	682	676	676	684
59	311 Advertising and related services	982	914	669	592	571	543	537
60	113 All other chemical products and preparations	769	723	640	698	701	651	708
61	52 Meat products, except poultry	649	628	602	592	590	585	584
62	234 Motor vehicle parts	711	637	585	570	600	605	613
63	107 Pharmaceuticals and medicines	796	821	583	486	456	418	420
64	196 Telephone apparatus	789	606	573	574	585	583	582
65	265 Wholesale trade	629	608	566	550	546	540	538
66	331 Hospitals	652	653	548	527	521	498	496
67	319 Investigation and security services	695	664	529	492	485	466	463
68	110 Soaps and cleaning compounds	526	508	490	483	482	479	477
69	259 Office supplies (except paper)	608	548	429	408	417	412	404
70	232 Truck trailer manufacturing	984	615	428	478	612	708	728
71	195 Computer terminals and other computer peripherals	524	454	420	413	403	381	368
72	3 Vegetable and melon farming	437	424	406	398	397	394	393
73	55 Bread and bakery products	428	414	398	391	389	387	386
74	228 Carbon and graphite and miscellaneous electrical equipment	478	420	383	382	386	380	386
75	271 Transit and ground passenger transportation	474	441	379	358	354	347	343

Table 8 Composition of Civilian Employment (this version was done with the 2012-2022 occupational matrix)		
	Defense-Related Employment	Nondefense- Related Employment
Installation, Maintenance, Repair and Production	14.5%	10.4%
Agricultural, Extraction, Construction and Transport	13.7%	12.9%
Engineers, Scientists and Technicians	18.0%	13.1%
Service and Sales Occupations	13.9%	29.6%
Management and Administrative	35.0%	27.4%
Other professional specialties	4.9%	6.5%

Table 9 Projected Defense and Defense-Related Employment by Occupational Category (Thousands of Workers) Fiscal Year 2015 LDEPPS, with 2012-2022 Occupational Projections matrices							
Occupational Category	2013	2014	2015	2016	2017	2018	2019
Management, financial, and business operations	674	628	584	572	562	550	542
Computer and mathematical science occupations	162	145	131	127	125	122	120
Architectural and engineering occupations	273	250	236	233	229	224	221
Life, physical and social science occupations	75	70	66	65	64	62	62
Healthcare practitioners and technical occupations	170	161	150	145	143	140	139
Other professional specialties	189	174	158	153	150	146	143
Service occupations	401	364	318	305	298	292	288
Sales and related occupations	169	151	133	128	125	121	119
Office and administrative support occupations	678	617	551	531	520	506	497
Farming, fishing, and forestry occupations	14	13	11	11	10	10	10
Construction and extraction occupations	201	185	156	148	144	139	136
Installation, maintenance, and repair occupations	199	185	169	164	161	158	155
Production occupations	383	333	300	292	286	277	271
Transportation and material moving occupations	349	318	277	264	257	251	245
Total All Categories	3937	3596	3240	3137	3075	3000	2946

Source: LDEPPS calculations

Note: Numbers may not add to totals due to rounding

Table 10 Defense Related Employment of Engineers and Scientists (Thousands of Workers)							
	2013	2014	2015	2016	2017	2018	2019
Computer and mathematical science occupations							
Computer specialists	152.2	135.6	121.9	118.3	116.0	112.9	111.2
Mathematical science occupations	10.1	9.6	9.1	9.0	8.9	8.7	8.6
Total	162.3	145.2	131.0	127.3	124.9	121.6	119.8
Architectural and engineering occupations							
Architects, surveyors, and cartographers	16.1	14.6	13.4	13.1	12.8	12.6	12.4
Aerospace engineers	20.1	17.6	17.0	17.1	17.0	16.7	16.4
Chemical engineers	1.6	1.4	1.3	1.3	1.2	1.2	1.2
Civil engineers	26.7	24.9	23.3	22.8	22.5	22.0	21.8
Electrical and electronics engineers	40.5	38.0	36.1	35.6	35.0	34.3	33.8
Industrial engineers, incl health and safety	19.7	16.9	15.7	15.6	15.3	14.9	14.6
Mechanical engineers	31.3	28.6	27.1	26.8	26.5	25.9	25.5
Materials engineers	3.4	3.0	2.9	2.9	2.9	2.8	2.8
All other engineers	43.4	41.2	39.2	38.6	38.0	37.3	36.8
Drafters, engineering, and mapping technicians	70.0	64.0	59.9	58.9	57.9	56.6	55.8
Total	273.0	250.3	235.9	232.8	229.0	224.4	221.0
Life, physical and social science occupations							
Life scientists	16.3	15.2	14.2	13.9	13.7	13.4	13.3
Chemists and materials scientists	6.3	5.8	5.3	5.2	5.1	5.0	4.9
Environmental scientists and geoscientists	7.6	6.9	6.2	6.1	6.0	5.8	5.8
Astronomers, physicists, atmospheric & space scientists	3.6	3.4	3.3	3.2	3.2	3.1	3.1
All other physical scientists	3.2	3.1	3.0	3.0	2.9	2.9	2.9
Social scientists and related occupations	19.7	19.4	18.7	18.5	18.3	18.0	17.8
Life, physical, and social science technicians	17.9	16.4	15.1	14.8	14.5	14.2	14.0
Total	74.6	70.2	65.9	64.7	63.7	62.4	61.8
Total Computer, Engineers, and Scientists	509.9	465.7	432.8	424.8	417.6	408.4	402.6

Source: LDEPPS calculations

Note: Numbers may not add to totals due to rounding

SECTION II: METHODOLOGY, DEFINITIONS, AND COVERAGE

Methodology

All estimates are based on the FY 2015 President's budget submission in March 2014 and on the geographic distribution of the major components of defense spending. Calendar years 2013 and 2014 have overseas contingency operations (OCO) funding included in the estimates, while 2015–2019 do not include OCO funding. Thus, there is a significant decline between years 2014 and 2015.

The figures reported here are *projections*. Purchases from particular industries will depend upon the size and composition of the defense outlays actually spent. The location of purchases will be determined not only by the level of defense spending, but also by the location of industries and by competition among firms within industries, both for prime contracts and for subcontracts. The model holds the spending distribution by state constant across all years for each industry and major category, based on the most recent three years average of prime contract award data.⁵ The projections therefore serve as reference points; they describe the future pattern of defense and defense-related expenditures, *assuming current spending plans and existing states' participation in the various components of defense activity*.

Two interindustry (or input-output) models support *DEPPS*. The first model, called the Long-term Interindustry Forecasting Tool (*LIFT*), is a 97-sector input-output model embedded in a macroeconomic model. *LIFT* establishes the macroeconomic environment as well as industry controls. The second input-output model is called Interindustry Long-run Integrated and Dynamic model (*ILIAD*). It uses the macroeconomic forecasts and the industry controls from

⁵ Data available at <http://www.usaspending.gov/>.

LIFT to further divide the economy into 360 industries.⁶

The computational framework for the projections is called the Defense Employment and Purchases Projection System (*DEPPS*). *DEPPS* consists of three defense-spending models:

- *IDEPPS*, a detailed interindustry model, forecasts defense demands of 360 industries, by major appropriation and procurement category.
- *RDEPPS*, a state-level (regional) model, determines the effect of defense expenditures by major procurement category on each state, at an aggregate level of 110 industries (unlike the more detailed *IDEPPS*).
- *LDEPPS*, a skilled labor model, determines the requirements for various occupational classifications of employment in each industry generated by defense expenditures.

The estimates projected from the *IDEPPS* model are of both direct and indirect defense expenditures. Direct defense expenditures are purchases made directly by the Department of Defense (DoD). These include purchases of goods and services, as well as military and civilian pay. Defense-related indirect expenditures, by contrast, represent purchases—generated throughout the economy—of items used to produce goods purchased by DoD. That is, indirect (sometimes called intermediate) expenditures reflect the costs of materials, tools, and parts that prime

contractors buy from suppliers in order to perform work for which DoD has contracted. For example, a direct expenditure for aircraft stimulates indirect purchases for the electronic components, tires, aluminum, engineering and logistic services used to manufacture the aircraft. The term “indirect defense purchases” applies to this sequence of purchases—goods and services from subcontractors and lower-tier suppliers. When discussed both direct and indirect defense expenditures, we use the term defense-related expenditures.

Direct and indirect expenditures are computed for 360 industries, with the top 75 industries reported in detail. A summary of all 360 industries sorted by industry number is presented in the appendix. All expenditure quantities are in constant (inflation-adjusted) 2015 dollars, by calendar year, for 2013 through 2019.

The estimates projected from the *RDEPPS* model are of both “direct” and “induced” defense expenditures. The state-level projections display the expenditures on goods and services by DoD’s civilian employees, military members, and retirees. Estimates for these expenditures are included in the statewide tables because the concept has been of interest to planning agencies and others concerned with local economic development. Induced defense purchases are purchases resulting from defense-related employment, i.e. spending by DoD employees on housing, food, other purchases in a state.

Relationship of the *RDEPPS* State Level Projections to the *IDEPPS* Industry Projections

IDEPPS and *RDEPPS* are not directly comparable due to the different

⁶ The Office of Cost Assessment and Program Evaluation and Interindustry Forecasting at the University of Maryland (Inforum) developed *DEPPS*. *LIFT* and *ILIAD* were developed by Inforum. *DEPPS*, *LIFT*, and *ILIAD* are maintained by Inforum.

objectives behind the models. Because the purpose of *RDEPPS* is to model the impact of defense-related spending on the regional (state) economies, *RDEPPS* excludes direct compensation to military, civilians, and retired personnel stationed or living outside the U.S. Compensation to employees living outside the U.S. would have little to no impact on state economies. Similarly, *RDEPPS* excludes the annual transfers to the Military Retirement Fund, but includes the amount of money paid from that fund to military retirees. The transfer from DoD to the fund should have little to no effect on the economy. Since, the payments from the fund are larger than the annual contributions from DoD, the total DoD expenditures in *RDEPPS* is larger than those in *IDEPPS*.

IDEPPS' treatment of defense expenditures differs from that of *RDEPPS* in several important ways, due to differences in the conceptual rationale for each module. *IDEPPS* is designed to investigate economy-wide effects of the defense budget, by simultaneously determining domestic production, imports, and indirect purchases by industry. *RDEPPS* is designed to investigate domestic effects of expenditures by state, including military retirement disbursements. Therefore, *RDEPPS* includes *only* that part of active duty and retirement pay spent domestically, making an explicit adjustment for pay that is sent abroad. Retirement pay is treated on a disbursement basis in *RDEPPS*, whereas it is treated on an accrual basis in *IDEPPS*. The *RDEPPS* measure of total direct defense expenditures is made smaller by the removal of pay sent abroad, but is made larger by the fact that retirement disbursements currently exceed accruals. The net effect is that *RDEPPS* projections of total direct

spending are *larger* than the comparable *IDEPPS* projections.

Budget Concept Employed

The *DEPPS* projections are expressed in terms of outlays. Outlays represent disbursements of funds made during the course of a year. In contrast, budget authority is the amount of money that DoD is authorized to obligate in any given year. Budget authority differs from outlays in that contractual obligations (which must be within the limits set by budget authority) often call for payments to be spread over a period of years, as the work is completed. Budget authority for research, development, and procurement projects, in particular, tends to be disbursed during a period of several years.⁷ Because *DEPPS* projects the impact on the economy, it is more appropriate to use the amount of money disbursed, outlays.

Coverage

The federal budget comprises a number of sections called “functional categories,” each containing programs serving a common purpose. National security-related programs are grouped into Functional Category 050 (National Defense). This category includes the entire Defense Department’s military programs and the national security programs administered by other federal departments, such as the Department of Energy. It *excludes* DoD programs serving civil functions (principally public works projects of the U.S. Army Corps of Engineers).

⁷ One metaphor is that of a checking account: budget authority represents the amount of money placed in a given account. Outlays represent “checks” that draw on those funds, which may be written over a number of years.

The *DEPPS* industry projections (*IDEPPS*) are based on a narrower budget grouping, Functional Category 051 (Department of Defense, Military). This subset of 050 funds *includes* all of the Defense Department's military programs, but *excludes* DoD civil functions.

The defense budget (defined here to include only those programs falling within FunctionalCategory 051) is partitioned into five major accounts: military personnel; operations and maintenance (O&M); procurement; research development, test, and evaluation (RDT&E); and military construction. The titles of these accounts are reasonably descriptive of the types of expenses they cover:

- The *Military Personnel* account includes the pay of active-duty service members and reservists, as well as some other personnel-related expenses such as permanent change-of-station (PCS) travel and purchases of military uniforms. Also included in this account are DoD's contributions to the Military Retirement Fund.
- The *Operations and Maintenance (O&M)* account funds the day-to-day operations of the defense establishment. Funding from this account is used to purchase fuel and other consumable items and to pay all but a small share of DoD's civilian work force.
- The *Procurement* account funds purchases of weapon systems, equipment, and other military capital goods.
- The *Research Development Test & Evaluation (RDT&E)* account pays for the development and testing of new military systems and other

research activities, including the associated civilian pay.

- The *Military Construction* account funds construction of military facilities and housing for military personnel and their dependents.

Supporting documentation, including a more complete description of the model and the underlying data is available on the DEPPS website.⁸

⁸ Available at <http://www.economics.osd.mil/>

SECTION III: PROJECTIONS FOR SELECTED INDUSTRIES (IDEPPS)

Industry Projections

The tables in this section show projected direct and indirect defense purchases from the 75 manufacturing industries most affected by defense spending.⁹ A separate table is provided for each industry.

The upper portion of each table provides projections of direct and indirect defense purchases for calendar years 2013 to 2019. The lower portion of each table displays the purchasing sectors for the indirect sales of the subject industry in those years.

As indicated in the introduction, indirect (sometimes called intermediate) demand reflects the costs of materials, parts, and services that prime contractors buy from suppliers to perform work for which DoD has contracted. Those sales, in turn, trigger subsequent rounds of transactions as subcontractors purchase goods and services from their major suppliers and those firms place orders with companies at lower tiers of the production chain. For example, a direct expenditure for aircraft stimulates indirect purchases for the electronic components, tires, aluminum, engineering and logistic services used to manufacture the aircraft. The term “indirect defense purchases” applies to this sequence of purchases—goods and services from subcontractors and lower-tier suppliers.

In addition, for the top 10 defense industries, tables are provided that display the origins of defense-related demand (both direct and indirect) by DoD purchasing function. That is, these

⁹ Although IDEPPS, the detailed interindustry model, forecasts defense demands by 360 industries, only the top 75 are presented in this section. A summary of all 360 industries sorted by the industry number is presented in the appendix.

tables trace the source of industrial demand by DoD appropriation such as operations and maintenance or aircraft procurement.

**Table 1a: Projected Defense Purchases of
310 Scientific research and development services**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	40,006	34,888	35,541	36,072	36,138	35,476	35,212
Indirect Purchases	3,702	3,210	2,983	3,011	3,046	3,009	3,020
Total :	43,708	38,098	38,525	39,083	39,184	38,485	38,232
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	56	48	46	49	47	47	47
Aircraft Parts	142	122	110	106	104	106	107
Ammunition	18	17	16	17	16	16	17
Communication Equipment	680	573	575	592	598	597	606
Missiles	255	233	225	231	241	251	254
Motor Vehicles	23	17	13	14	16	17	17
Shipbuilding	390	266	275	315	343	327	316
Tanks	27	21	16	16	20	21	22
Other Electronic Equipment	90	81	81	82	83	82	83
Other Ordinances	5	5	4	4	4	4	4
Other	2,014	1,826	1,621	1,584	1,574	1,541	1,546
Total :	3,702	3,210	2,983	3,011	3,046	3,009	3,020

Note: numbers may not add due to rounding

Table 1b: Sources of Projected Defense Purchases**310 Scientific research and development services**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES BY BUDGET CATEGORY							
Military Personnel	124	124	117	114	113	110	108
Operations & Maintenance *	8,749	8,345	6,719	6,267	6,163	5,941	5,899
Aircraft	402	337	320	329	324	341	344
Missiles	300	286	260	261	294	279	280
Weapons and Tracked Vehicles	70	45	32	35	44	47	47
Shipbuilding	538	288	300	363	406	407	355
Ammunition	124	122	108	110	107	106	113
Other	1,608	1,325	1,444	1,591	1,689	1,483	1,563
Total Procurement	3,041	2,402	2,463	2,688	2,863	2,662	2,702
RDT&E	31,705	27,092	29,153	29,941	29,974	29,700	29,452
Military Construction	84	128	68	68	68	68	67
Family Housing	6	6	5	4	4	4	4
Total :	43,708	38,098	38,525	39,083	39,184	38,485	38,232

Direct plus indirect purchases.

* Includes net funds appropriated to Defense-Wide Contingencies; Revolving and Management Funds; Trust Receipts; Deductions, Intragovernment Receipts.

Note: Numbers may not add due to rounding

**Table 2a: Projected Defense Purchases of
303 Architectural, engineering, and related services**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	37,549	35,762	31,229	30,588	30,110	29,266	29,754
Indirect Purchases	7,699	7,000	6,140	5,979	5,949	5,823	5,794
Total :	45,247	42,762	37,369	36,567	36,059	35,089	35,548
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	38	33	31	33	32	32	32
Aircraft Parts	122	105	95	91	89	91	92
Ammunition	15	14	14	14	14	13	14
Communication Equipment	182	153	154	159	160	160	162
Missiles	308	282	273	280	292	304	306
Motor Vehicles	13	9	7	8	9	9	9
Shipbuilding	345	235	243	278	303	289	279
Tanks	14	11	8	9	10	11	12
Other Electronic Equipment	17	15	15	15	15	15	15
Other Ordinances	6	5	5	5	5	4	5
Other	6,638	6,137	5,295	5,089	5,021	4,895	4,868
Total :	7,698	7,000	6,140	5,980	5,949	5,823	5,794

Note: numbers may not add due to rounding

Table 2b: Sources of Projected Defense Purchases
303 Architectural, engineering, and related services
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES BY BUDGET CATEGORY							
Military Personnel	187	189	178	175	172	169	166
Operations & Maintenance *	23,644	23,605	18,503	17,304	16,892	15,877	15,810
Aircraft	2,041	1,622	1,467	1,508	1,557	1,706	1,780
Missiles	1,461	1,453	1,374	1,329	1,461	1,412	1,425
Weapons and Tracked Vehicles	229	150	114	131	166	186	189
Shipbuilding	3,969	4,161	3,953	4,228	4,252	4,488	5,111
Ammunition	90	88	57	61	63	62	73
Other	4,056	3,206	3,530	3,599	3,517	3,665	3,807
Total Procurement	11,846	10,679	10,495	10,857	11,016	11,518	12,385
RDT&E	7,846	6,631	6,880	7,055	6,866	6,478	6,217
Military Construction	1,650	1,582	1,251	1,123	1,059	992	915
Family Housing	74	77	62	54	53	55	55
Total :	45,247	42,762	37,369	36,567	36,059	35,089	35,548

Direct plus indirect purchases.

* Includes net funds appropriated to Defense-Wide Contingencies; Revolving and Management Funds; Trust Receipts; Deductions, Intragovernment Receipts.

Note: Numbers may not add due to rounding

**Table 3a: Projected Defense Purchases of
94 Petroleum refineries**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	15,745	14,920	12,405	11,474	11,230	10,935	10,805
Indirect Purchases	15,335	14,139	12,233	11,692	11,574	11,343	11,240
Total :	31,080	29,059	24,638	23,166	22,804	22,278	22,045
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	39	33	32	33	32	32	32
Aircraft Parts	159	136	122	117	114	117	118
Ammunition	39	38	36	37	36	35	37
Communication Equipment	187	156	156	160	161	160	162
Missiles	131	118	114	116	121	125	126
Motor Vehicles	31	23	18	19	21	23	23
Shipbuilding	248	167	171	194	210	199	191
Tanks	31	24	17	18	22	23	24
Other Electronic Equipment	38	34	33	34	34	34	34
Other Ordinances	9	7	6	7	6	6	6
Other	14,422	13,402	11,527	10,958	10,817	10,590	10,486
Total :	15,334	14,139	12,233	11,693	11,574	11,343	11,240

Note: numbers may not add due to rounding

Table 3b: Sources of Projected Defense Purchases
94 Petroleum refineries
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES BY BUDGET CATEGORY							
Military Personnel	8,597	8,768	8,246	8,073	7,946	7,776	7,631
Operations & Maintenance *	18,444	16,936	13,261	11,981	11,719	11,367	11,273
Aircraft	570	490	479	506	507	531	531
Missiles	103	96	88	93	102	95	97
Weapons and Tracked Vehicles	83	53	36	39	50	54	55
Shipbuilding	284	203	209	240	257	251	252
Ammunition	90	89	81	82	79	78	82
Other	1,397	1,083	943	876	893	913	949
Total Procurement	2,527	2,013	1,836	1,836	1,888	1,923	1,966
RDT&E	1,006	852	908	931	925	904	889
Military Construction	462	444	350	314	295	276	255
Family Housing	44	47	37	31	31	32	32
Total :	31,080	29,059	24,638	23,166	22,804	22,278	22,045

Direct plus indirect purchases.

* Includes net funds appropriated to Defense-Wide Contingencies; Revolving and Management Funds; Trust Receipts; Deductions, Intragovernment Receipts.

Note: Numbers may not add due to rounding

**Table 4a: Projected Defense Purchases of
235 Aircraft**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	27,816	23,953	24,095	25,711	25,884	26,520	26,152
Indirect Purchases	165	147	135	133	131	130	128
Total :	27,981	24,100	24,229	25,843	26,015	26,649	26,281
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	0	0	0	0	0	0	0
Aircraft Parts	4	3	3	3	3	3	3
Ammunition	0	0	0	0	0	0	0
Communication Equipment	1	0	0	0	0	0	0
Missiles	2	2	2	2	2	2	2
Motor Vehicles	0	0	0	0	0	0	0
Shipbuilding	1	0	0	0	0	0	0
Tanks	0	0	0	0	0	0	0
Other Electronic Equipment	0	0	0	0	0	0	0
Other Ordinances	0	0	0	0	0	0	0
Other	157	140	128	127	125	123	122
Total :	165	147	135	133	131	130	128

Note: numbers may not add due to rounding

Table 4b: Sources of Projected Defense Purchases**235 Aircraft**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES BY BUDGET CATEGORY							
Military Personnel	21	22	20	20	20	19	19
Operations & Maintenance *	1,830	1,647	1,214	1,083	1,064	1,033	1,018
Aircraft	19,612	17,186	16,880	18,251	18,689	19,825	19,814
Missiles	35	37	35	34	36	37	39
Weapons and Tracked Vehicles	0	0	0	0	0	0	0
Shipbuilding	1	1	1	1	1	1	1
Ammunition	4	4	2	2	2	2	3
Other	334	286	435	530	471	488	513
Total Procurement	19,987	17,513	17,353	18,818	19,200	20,354	20,370
RDT&E	6,136	4,905	5,636	5,916	5,725	5,236	4,867
Military Construction	7	14	6	6	7	7	7
Family Housing	0	0	0	0	0	0	0
Total :	27,981	24,100	24,229	25,843	26,015	26,649	26,281

Direct plus indirect purchases.

* Includes net funds appropriated to Defense-Wide Contingencies; Revolving and Management Funds; Trust Receipts; Deductions, Intragovernment Receipts.

Note: Numbers may not add due to rounding

**Table 5a: Projected Defense Purchases of
315 Management of companies and enterprises**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Indirect Purchases	25,206	22,266	20,436	20,319	20,419	20,246	20,262
Total :	25,206	22,266	20,436	20,319	20,419	20,246	20,262
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	559	475	458	486	465	464	470
Aircraft Parts	1,483	1,280	1,153	1,110	1,083	1,110	1,120
Ammunition	174	170	160	166	161	157	168
Communication Equipment	3,036	2,558	2,563	2,639	2,668	2,659	2,701
Missiles	2,017	1,844	1,784	1,832	1,909	1,988	2,003
Motor Vehicles	229	169	135	139	160	173	177
Shipbuilding	1,306	885	911	1,037	1,127	1,071	1,032
Tanks	273	211	157	165	199	207	223
Other Electronic Equipment	397	354	353	361	362	360	365
Other Ordinances	56	49	43	44	42	42	43
Other	15,673	14,270	12,718	12,342	12,244	12,015	11,962
Total :	25,204	22,266	20,436	20,320	20,419	20,246	20,262

Note: numbers may not add due to rounding

Table 5b: Sources of Projected Defense Purchases**315 Management of companies and enterprises**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES BY BUDGET CATEGORY							
Military Personnel	1,434	1,444	1,359	1,333	1,313	1,286	1,263
Operations & Maintenance *	9,470	8,880	7,081	6,531	6,414	6,197	6,151
Aircraft	2,912	2,424	2,293	2,338	2,292	2,411	2,449
Missiles	1,038	994	907	927	1,010	986	996
Weapons and Tracked Vehicles	515	329	231	252	317	331	327
Shipbuilding	1,355	932	982	1,141	1,230	1,198	1,184
Ammunition	333	329	271	277	272	265	290
Other	3,971	3,355	3,581	3,711	3,800	3,920	4,040
Total Procurement	10,124	8,364	8,265	8,646	8,921	9,111	9,286
RDT&E	3,720	3,114	3,382	3,498	3,474	3,371	3,298
Military Construction	415	419	312	282	267	252	233
Family Housing	43	46	36	30	29	30	30
Total :	25,206	22,266	20,436	20,319	20,419	20,246	20,262

Direct plus indirect purchases.

* Includes net funds appropriated to Defense-Wide Contingencies; Revolving and Management Funds; Trust Receipts; Deductions, Intragovernment Receipts.

Note: Numbers may not add due to rounding

**Table 6a: Projected Defense Purchases of
16 Crude oil extraction**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	52	48	32	26	25	24	24
Indirect Purchases	25,787	23,944	20,341	19,184	18,925	18,509	18,332
Total :	25,839	23,991	20,373	19,210	18,950	18,532	18,356
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	48	40	39	41	39	39	39
Aircraft Parts	187	160	143	137	133	136	137
Ammunition	59	57	54	56	54	53	56
Communication Equipment	220	183	182	186	188	187	189
Missiles	154	140	134	137	142	147	148
Motor Vehicles	41	30	24	25	28	30	31
Shipbuilding	302	203	207	234	254	240	230
Tanks	41	31	23	24	29	30	32
Other Electronic Equipment	48	42	42	43	43	42	43
Other Ordinances	12	10	9	9	9	9	9
Other	24,674	23,047	19,485	18,294	18,007	17,596	17,418
Total :	25,786	23,944	20,342	19,186	18,925	18,509	18,332

Note: numbers may not add due to rounding

Table 6b: Sources of Projected Defense Purchases**16 Crude oil extraction**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES BY BUDGET CATEGORY							
Military Personnel	6,432	6,548	6,156	6,026	5,933	5,807	5,700
Operations & Maintenance *	15,413	14,130	11,094	10,051	9,845	9,554	9,475
Aircraft	603	515	501	527	527	553	553
Missiles	113	105	96	102	111	104	106
Weapons and Tracked Vehicles	108	68	46	51	65	70	70
Shipbuilding	330	230	239	275	295	288	286
Ammunition	108	105	96	97	94	92	97
Other	1,328	1,052	947	898	919	940	977
Total Procurement	2,590	2,075	1,924	1,950	2,011	2,046	2,088
RDT&E	963	811	864	886	879	858	843
Military Construction	382	365	287	258	242	227	209
Family Housing	59	62	48	40	39	41	40
Total :	25,839	23,991	20,373	19,210	18,950	18,532	18,356

Direct plus indirect purchases.

* Includes net funds appropriated to Defense-Wide Contingencies; Revolving and Management Funds; Trust Receipts; Deductions, Intragovernment Receipts.

Note: Numbers may not add due to rounding

**Table 7a: Projected Defense Purchases of
285 Telecommunications**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	15,010	13,507	11,390	10,740	10,707	10,552	10,512
Indirect Purchases	9,355	8,464	7,418	7,172	7,153	7,038	7,015
Total :	24,365	21,971	18,807	17,913	17,860	17,590	17,526
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	45	38	37	39	38	38	38
Aircraft Parts	107	92	83	80	78	80	80
Ammunition	21	21	19	20	20	19	20
Communication Equipment	303	254	256	263	266	266	269
Missiles	173	158	152	156	163	170	171
Motor Vehicles	20	15	12	12	14	15	16
Shipbuilding	244	166	171	195	212	201	194
Tanks	25	19	14	15	18	19	20
Other Electronic Equipment	31	28	28	28	28	28	28
Other Ordinances	8	7	6	6	6	6	6
Other	8,377	7,666	6,639	6,357	6,311	6,198	6,172
Total :	9,354	8,464	7,418	7,173	7,153	7,039	7,015

Note: numbers may not add due to rounding

Table 7b: Sources of Projected Defense Purchases**285 Telecommunications**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES BY BUDGET CATEGORY							
Military Personnel	407	412	388	380	374	366	359
Operations & Maintenance *	19,401	17,842	14,699	13,751	13,633	13,358	13,238
Aircraft	419	360	352	369	370	388	389
Missiles	150	146	133	132	142	140	140
Weapons and Tracked Vehicles	57	37	26	28	35	38	38
Shipbuilding	288	212	218	250	268	263	266
Ammunition	40	40	32	33	32	32	35
Other	2,058	1,545	1,608	1,631	1,681	1,710	1,792
Total Procurement	3,012	2,339	2,370	2,443	2,528	2,571	2,661
RDT&E	1,156	982	1,049	1,077	1,070	1,046	1,028
Military Construction	195	192	148	135	128	121	112
Family Housing	194	204	154	127	127	130	129
Total :	24,365	21,971	18,807	17,913	17,860	17,590	17,526

Direct plus indirect purchases.

* Includes net funds appropriated to Defense-Wide Contingencies; Revolving and Management Funds; Trust Receipts; Deductions, Intragovernment Receipts.

Note: Numbers may not add due to rounding

**Table 8a: Projected Defense Purchases of
328 Offices of physicians, dentists, and other health practitioners**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	20,285	19,465	18,335	17,919	17,834	17,683	17,626
Indirect Purchases	20	20	7	8	10	10	14
Total :	20,305	19,485	18,343	17,927	17,844	17,693	17,640
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	0	0	0	0	0	0	0
Aircraft Parts	0	0	0	0	0	0	0
Ammunition	0	0	0	0	0	0	0
Communication Equipment	0	0	0	0	0	0	0
Missiles	0	0	0	0	0	0	0
Motor Vehicles	0	0	0	0	0	0	0
Shipbuilding	0	0	0	0	0	0	0
Tanks	0	0	0	0	0	0	0
Other Electronic Equipment	0	0	0	0	0	0	0
Other Ordinances	0	0	0	0	0	0	0
Other	20	20	7	8	10	10	14
Total :	20	20	7	8	10	10	14

Note: numbers may not add due to rounding

Table 8b: Sources of Projected Defense Purchases
328 Offices of physicians, dentists, and other health practitioners
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES BY BUDGET CATEGORY							
Military Personnel	0	0	0	0	0	0	0
Operations & Maintenance *	20,294	19,475	18,333	17,918	17,835	17,684	17,632
Aircraft	0	0	0	0	0	0	0
Missiles	0	0	0	0	0	0	0
Weapons and Tracked Vehicles	0	0	0	0	0	0	0
Shipbuilding	0	0	0	0	0	0	0
Ammunition	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0
Total Procurement	0	0	0	0	0	0	0
RDT&E	12	10	9	9	9	8	8
Military Construction	0	0	0	0	0	0	0
Family Housing	0	0	0	0	0	0	0
Total :	20,305	19,485	18,343	17,927	17,844	17,693	17,640

Direct plus indirect purchases.

* Includes net funds appropriated to Defense-Wide Contingencies; Revolving and Management Funds; Trust Receipts; Deductions, Intragovernment Receipts.

Note: Numbers may not add due to rounding

**Table 9a: Projected Defense Purchases of
294 Real estate**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	5,576	5,065	4,210	3,914	3,898	3,862	3,823
Indirect Purchases	15,655	14,264	12,774	12,455	12,408	12,196	12,151
Total :	21,231	19,329	16,984	16,369	16,306	16,059	15,973
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	75	63	61	65	62	62	62
Aircraft Parts	219	188	169	163	159	162	164
Ammunition	47	46	43	45	43	42	45
Communication Equipment	499	418	419	431	436	435	440
Missiles	348	317	307	315	327	341	343
Motor Vehicles	43	32	25	26	30	32	33
Shipbuilding	423	287	296	337	366	348	336
Tanks	57	44	33	34	41	43	46
Other Electronic Equipment	73	65	65	67	67	66	67
Other Ordinances	17	14	13	13	13	12	13
Other	13,855	12,788	11,344	10,962	10,865	10,653	10,602
Total :	15,654	14,264	12,774	12,456	12,409	12,196	12,151

Note: numbers may not add due to rounding

Table 9b: Sources of Projected Defense Purchases**294 Real estate**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES BY BUDGET CATEGORY							
Military Personnel	1,066	1,078	1,015	994	979	957	940
Operations & Maintenance *	13,067	12,078	9,982	9,388	9,285	9,070	9,011
Aircraft	744	634	614	643	644	676	680
Missiles	238	231	212	215	234	229	231
Weapons and Tracked Vehicles	120	77	55	59	75	79	80
Shipbuilding	538	405	415	473	503	498	508
Ammunition	91	90	77	78	76	75	81
Other	1,195	997	1,048	1,074	1,099	1,115	1,152
Total Procurement	2,926	2,434	2,420	2,542	2,631	2,673	2,732
RDT&E	2,569	2,183	2,337	2,401	2,390	2,345	2,310
Military Construction	724	695	557	521	504	484	452
Family Housing	880	860	672	522	518	530	529
Total :	21,231	19,329	16,984	16,369	16,306	16,059	15,973

Direct plus indirect purchases.

* Includes net funds appropriated to Defense-Wide Contingencies; Revolving and Management Funds; Trust Receipts; Deductions, Intragovernment Receipts.

Note: Numbers may not add due to rounding

**Table 10a: Projected Defense Purchases of
270 Truck transportation**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	14,566	13,587	11,557	10,785	10,573	10,361	10,224
Indirect Purchases	5,020	4,511	3,984	3,874	3,859	3,801	3,778
Total :	19,586	18,098	15,541	14,659	14,432	14,162	14,002
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	56	47	46	48	46	46	47
Aircraft Parts	317	274	246	237	231	237	239
Ammunition	29	28	27	28	27	26	28
Communication Equipment	172	144	144	147	149	148	150
Missiles	140	127	123	126	131	136	137
Motor Vehicles	41	30	24	25	29	31	32
Shipbuilding	225	151	155	176	191	180	173
Tanks	34	26	19	20	24	25	27
Other Electronic Equipment	32	29	28	29	29	29	29
Other Ordinances	11	9	8	8	8	8	8
Other	3,964	3,645	3,165	3,030	2,995	2,935	2,909
Total :	5,020	4,511	3,984	3,874	3,859	3,802	3,778

Note: numbers may not add due to rounding

Table 10b: Sources of Projected Defense Purchases

270 Truck transportation

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES BY BUDGET CATEGORY							
Military Personnel	6,446	6,562	6,174	6,044	5,947	5,818	5,708
Operations & Maintenance *	10,405	9,320	7,322	6,588	6,430	6,274	6,211
Aircraft	484	405	384	392	386	406	411
Missiles	83	79	72	74	80	78	78
Weapons and Tracked Vehicles	91	57	39	43	55	59	59
Shipbuilding	227	153	161	187	202	196	192
Ammunition	49	48	43	43	42	41	44
Other	1,108	861	750	697	711	733	761
Total Procurement	2,041	1,603	1,449	1,436	1,476	1,513	1,545
RDT&E	472	396	427	440	435	421	411
Military Construction	200	192	151	135	127	119	109
Family Housing	22	25	19	17	17	17	17
Total :	19,586	18,098	15,541	14,659	14,432	14,162	14,002

Direct plus indirect purchases.

* Includes net funds appropriated to Defense-Wide Contingencies; Revolving and Management Funds; Trust Receipts; Deductions, Intragovernment Receipts.

Note: Numbers may not add due to rounding

**Table 11: Projected Defense Purchases of
35 Maintenance and repair of nonresidential buildings, infrastructure and other**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	14,950	13,983	10,827	9,931	9,723	9,327	9,166
Indirect Purchases	4,510	4,038	3,657	3,599	3,603	3,554	3,542
Total :	19,460	18,021	14,484	13,529	13,325	12,881	12,708
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	23	20	19	20	19	19	20
Aircraft Parts	61	52	47	45	44	45	46
Ammunition	20	19	18	19	18	18	19
Communication Equipment	122	102	103	105	107	106	108
Missiles	65	59	57	58	61	63	63
Motor Vehicles	16	12	10	10	11	12	12
Shipbuilding	159	107	111	126	137	130	126
Tanks	16	12	9	9	11	12	13
Other Electronic Equipment	22	20	20	20	20	20	20
Other Ordinances	5	4	4	4	4	4	4
Other	4,001	3,630	3,262	3,182	3,171	3,125	3,112
Total :	4,510	4,038	3,658	3,599	3,603	3,554	3,542

Note: numbers may not add due to rounding

**Table 12: Projected Defense Purchases of
241 Ship building and repairing**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	20,051	13,729	14,248	16,296	17,786	16,990	16,429
Indirect Purchases	257	237	202	199	200	194	195
Total :	20,307	13,966	14,450	16,494	17,987	17,184	16,625
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	0	0	0	0	0	0	0
Aircraft Parts	0	0	0	0	0	0	0
Ammunition	0	0	0	0	0	0	0
Communication Equipment	0	0	0	0	0	0	0
Missiles	0	0	0	0	0	0	0
Motor Vehicles	0	0	0	0	0	0	0
Shipbuilding	45	31	24	28	32	31	34
Tanks	0	0	0	0	0	0	0
Other Electronic Equipment	0	0	0	0	0	0	0
Other Ordinances	0	0	0	0	0	0	0
Other	211	205	178	170	168	162	161
Total :	257	237	202	199	200	194	195

Note: numbers may not add due to rounding

**Table 13: Projected Defense Purchases of
267 Air transportation**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	14,864	13,936	12,261	11,744	11,658	11,475	11,357
Indirect Purchases	2,134	1,921	1,762	1,782	1,798	1,804	1,797
Total :	16,997	15,857	14,023	13,526	13,456	13,279	13,154
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	15	13	13	13	13	13	13
Aircraft Parts	34	29	27	26	25	25	26
Ammunition	5	5	5	5	5	4	5
Communication Equipment	67	56	56	58	58	58	59
Missiles	61	55	54	55	57	60	60
Motor Vehicles	6	4	3	3	4	4	4
Shipbuilding	95	65	67	76	83	79	76
Tanks	6	5	3	4	4	5	5
Other Electronic Equipment	8	7	7	7	7	7	7
Other Ordinances	2	1	1	1	1	1	1
Other	1,835	1,680	1,526	1,534	1,541	1,547	1,540
Total :	2,133	1,921	1,762	1,782	1,798	1,804	1,797

Note: numbers may not add due to rounding

**Table 14: Projected Defense Purchases of
265 Wholesale trade**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	629	608	566	550	546	540	538
Indirect Purchases	15,533	13,680	12,434	12,359	12,454	12,323	12,273
Total :	16,162	14,288	13,000	12,910	13,000	12,863	12,811
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	135	114	110	116	111	111	112
Aircraft Parts	447	385	346	332	323	331	334
Ammunition	120	117	111	114	111	108	115
Communication Equipment	1,594	1,335	1,342	1,381	1,400	1,396	1,414
Missiles	543	495	479	491	512	533	538
Motor Vehicles	176	129	102	105	122	132	134
Shipbuilding	1,146	775	796	905	982	932	896
Tanks	177	136	101	106	128	133	143
Other Electronic Equipment	324	288	288	295	296	294	298
Other Ordinances	42	36	32	33	31	31	32
Other	10,828	9,870	8,728	8,482	8,439	8,323	8,257
Total :	15,532	13,680	12,435	12,360	12,454	12,323	12,273

Note: numbers may not add due to rounding

**Table 15: Projected Defense Purchases of
308 Management, scientific, and technical consulting services**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	7,196	6,625	5,076	4,592	4,498	4,292	4,287
Indirect Purchases	8,443	7,541	6,848	6,774	6,783	6,656	6,640
Total :	15,639	14,166	11,924	11,366	11,281	10,949	10,926
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	125	107	103	109	104	104	105
Aircraft Parts	124	107	96	92	90	92	93
Ammunition	23	23	21	22	22	21	22
Communication Equipment	343	288	290	298	301	300	304
Missiles	262	239	232	238	248	258	260
Motor Vehicles	20	15	12	12	14	15	16
Shipbuilding	639	437	452	516	562	536	518
Tanks	39	30	22	23	28	29	32
Other Electronic Equipment	38	34	34	34	35	34	35
Other Ordinances	10	9	7	8	7	7	7
Other	6,819	6,253	5,579	5,421	5,372	5,258	5,247
Total :	8,443	7,541	6,848	6,774	6,784	6,657	6,640

Note: numbers may not add due to rounding

**Table 16: Projected Defense Purchases of
238 Guided missiles and space vehicles**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	12,704	11,735	11,272	11,599	12,085	12,626	12,805
Indirect Purchases	321	292	285	292	302	312	314
Total :	13,025	12,026	11,557	11,891	12,387	12,938	13,118
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	0	0	0	0	0	0	0
Aircraft Parts	0	0	0	0	0	0	0
Ammunition	0	0	0	0	0	0	0
Communication Equipment	5	4	4	4	4	4	4
Missiles	269	246	239	245	255	266	268
Motor Vehicles	0	0	0	0	0	0	0
Shipbuilding	0	0	0	0	0	0	0
Tanks	0	0	0	0	0	0	0
Other Electronic Equipment	0	0	0	0	0	0	0
Other Ordinances	0	0	0	0	0	0	0
Other	46	40	41	41	41	40	40
Total :	321	292	285	292	302	312	314

Note: numbers may not add due to rounding

**Table 17: Projected Defense Purchases of
32 New non-residential building construction**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	13,222	12,453	10,324	9,626	9,366	9,068	8,714
Indirect Purchases	13	12	4	4	5	5	7
Total :	13,234	12,465	10,328	9,630	9,370	9,073	8,721
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Other	13	12	4	4	5	5	7
Total :	13	12	4	4	5	5	7

Note: numbers may not add due to rounding

**Table 18: Projected Defense Purchases of
237 Other aircraft parts and auxiliary equipment**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	9,177	7,923	7,176	6,896	6,725	6,895	6,943
Indirect Purchases	3,153	2,645	2,514	2,557	2,505	2,498	2,500
Total :	12,330	10,568	9,690	9,453	9,230	9,393	9,443
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	97	83	80	85	81	81	82
Aircraft Parts	634	568	484	476	466	478	497
Ammunition	3	3	3	3	3	3	3
Communication Equipment	6	5	5	5	6	5	6
Missiles	72	66	64	66	69	72	73
Motor Vehicles	0	0	0	0	0	0	0
Shipbuilding	2	1	1	1	1	1	1
Tanks	3	2	2	2	2	2	2
Other Electronic Equipment	0	0	0	0	0	0	0
Other Ordinances	2	2	1	1	1	1	1
Other	2,334	1,915	1,873	1,917	1,875	1,854	1,835
Total :	3,153	2,645	2,514	2,557	2,505	2,498	2,500

Note: numbers may not add due to rounding

**Table 19: Projected Defense Purchases of
312 All other miscellaneous professional, scientific, and technical services**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	7,503	6,586	5,942	5,711	5,671	5,648	5,669
Indirect Purchases	4,175	3,730	3,411	3,382	3,390	3,332	3,328
Total :	11,679	10,316	9,353	9,093	9,060	8,980	8,997
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	33	28	27	29	27	27	27
Aircraft Parts	84	72	65	63	61	62	63
Ammunition	12	12	11	12	11	11	12
Communication Equipment	113	95	95	98	99	98	100
Missiles	136	124	120	123	128	133	134
Motor Vehicles	14	10	8	8	10	10	10
Shipbuilding	269	183	189	216	235	224	216
Tanks	23	18	13	14	17	17	19
Other Electronic Equipment	15	14	14	14	14	14	14
Other Ordinances	5	4	4	4	4	4	4
Other	3,471	3,169	2,864	2,803	2,785	2,732	2,729
Total :	4,175	3,730	3,411	3,382	3,390	3,332	3,328

Note: numbers may not add due to rounding

**Table 20: Projected Defense Purchases of
307 Other computer related services, including facilities management**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	7,853	7,572	6,738	6,553	6,526	6,384	6,427
Indirect Purchases	2,920	2,632	2,369	2,328	2,324	2,282	2,281
Total :	10,772	10,204	9,107	8,881	8,849	8,665	8,708
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	22	19	18	19	18	18	19
Aircraft Parts	49	42	38	36	36	36	37
Ammunition	7	7	7	7	7	7	7
Communication Equipment	169	143	143	147	149	148	151
Missiles	84	77	75	77	80	83	84
Motor Vehicles	8	6	4	5	5	6	6
Shipbuilding	121	82	85	97	106	101	97
Tanks	10	8	6	6	7	7	8
Other Electronic Equipment	15	13	13	13	13	13	13
Other Ordinances	3	3	3	3	3	2	3
Other	2,431	2,232	1,977	1,918	1,900	1,859	1,857
Total :	2,919	2,632	2,369	2,328	2,324	2,282	2,281

Note: numbers may not add due to rounding

**Table 21: Projected Defense Purchases of
242 Boat building**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	8,862	8,488	8,734	8,548	8,773	8,687	8,778
Indirect Purchases	91	79	74	76	80	79	80
Total :	8,952	8,567	8,808	8,624	8,853	8,765	8,858
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	0	0	0	0	0	0	0
Aircraft Parts	0	0	0	0	0	0	0
Ammunition	0	0	0	0	0	0	0
Communication Equipment	0	0	0	0	0	0	0
Missiles	0	0	0	0	0	0	0
Motor Vehicles	0	0	0	0	0	0	0
Shipbuilding	30	21	21	25	27	26	25
Tanks	0	0	0	0	0	0	0
Other Electronic Equipment	0	0	0	0	0	0	0
Other Ordinances	0	0	0	0	0	0	0
Other	60	58	53	52	53	53	55
Total :	91	79	74	76	80	79	80

Note: numbers may not add due to rounding

**Table 22: Projected Defense Purchases of
28 Electric power generation, transmission, and distribution**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	5,466	4,945	4,045	3,763	3,750	3,701	3,682
Indirect Purchases	5,840	5,216	4,686	4,613	4,619	4,558	4,541
Total :	11,306	10,161	8,731	8,376	8,369	8,259	8,222
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	63	53	51	54	52	52	52
Aircraft Parts	217	187	168	162	158	161	163
Ammunition	67	65	62	64	62	60	65
Communication Equipment	262	220	220	226	229	228	232
Missiles	198	181	174	178	185	192	193
Motor Vehicles	43	32	26	26	30	32	33
Shipbuilding	335	227	233	265	288	273	263
Tanks	46	35	26	27	33	34	37
Other Electronic Equipment	58	52	52	53	53	53	54
Other Ordinances	17	14	13	13	12	12	13
Other	4,533	4,150	3,663	3,545	3,518	3,460	3,437
Total :	5,839	5,216	4,686	4,613	4,619	4,558	4,541

Note: numbers may not add due to rounding

**Table 23: Projected Defense Purchases of
311 Advertising and related services**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	982	914	669	592	571	543	537
Indirect Purchases	8,818	7,936	7,206	7,133	7,156	7,098	7,077
Total :	9,801	8,849	7,875	7,726	7,727	7,640	7,613
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	76	65	62	66	63	63	64
Aircraft Parts	207	178	161	154	150	154	155
Ammunition	40	39	37	38	37	36	38
Communication Equipment	581	489	491	505	510	509	516
Missiles	319	292	282	289	301	314	316
Motor Vehicles	38	28	22	23	26	28	29
Shipbuilding	339	230	237	270	294	279	269
Tanks	46	36	27	28	34	35	37
Other Electronic Equipment	69	62	61	63	63	62	63
Other Ordinances	18	15	14	14	13	13	14
Other	7,085	6,503	5,814	5,684	5,664	5,604	5,575
Total :	8,818	7,936	7,206	7,134	7,156	7,098	7,077

Note: numbers may not add due to rounding

**Table 24: Projected Defense Purchases of
340 Food services and drinking places**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	3,817	3,613	3,030	2,859	2,820	2,741	2,714
Indirect Purchases	5,796	5,274	4,706	4,602	4,589	4,508	4,499
Total :	9,612	8,887	7,737	7,461	7,409	7,250	7,212
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	33	28	27	29	28	28	28
Aircraft Parts	81	70	63	61	59	60	61
Ammunition	12	12	11	11	11	11	11
Communication Equipment	159	134	134	138	139	139	141
Missiles	157	143	138	142	148	154	155
Motor Vehicles	14	10	8	8	10	10	10
Shipbuilding	232	158	163	186	203	193	186
Tanks	17	13	9	10	12	12	13
Other Electronic Equipment	18	16	16	16	16	16	16
Other Ordinances	5	4	4	4	3	3	4
Other	5,067	4,686	4,132	3,997	3,961	3,882	3,873
Total :	5,795	5,274	4,706	4,602	4,589	4,508	4,499

Note: numbers may not add due to rounding

**Table 25: Projected Defense Purchases of
291 Insurance carriers**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2,864	2,860	2,689	2,638	2,600	2,543	2,494
Indirect Purchases	5,949	5,506	4,871	4,716	4,677	4,588	4,571
Total :	8,813	8,366	7,561	7,354	7,276	7,132	7,065
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	17	14	14	15	14	14	14
Aircraft Parts	50	43	39	37	36	37	38
Ammunition	8	8	8	8	8	7	8
Communication Equipment	99	83	83	85	86	86	87
Missiles	75	68	66	68	70	73	74
Motor Vehicles	9	7	5	6	6	7	7
Shipbuilding	103	70	72	82	89	84	81
Tanks	10	7	6	6	7	7	8
Other Electronic Equipment	13	12	12	12	12	12	12
Other Ordinances	3	3	2	2	2	2	2
Other	5,562	5,191	4,565	4,396	4,346	4,258	4,241
Total :	5,949	5,506	4,872	4,716	4,677	4,588	4,571

Note: numbers may not add due to rounding

**Table 26: Projected Defense Purchases of
203 Search, detection, and navigation instruments**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	7,961	6,804	6,773	6,995	7,019	6,986	7,148
Indirect Purchases	744	608	595	615	614	609	607
Total :	8,705	7,411	7,368	7,610	7,633	7,595	7,755
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	29	25	24	26	24	24	25
Aircraft Parts	58	50	45	44	43	44	44
Ammunition	0	0	0	0	0	0	0
Communication Equipment	22	19	15	16	16	16	19
Missiles	49	45	43	44	46	48	49
Motor Vehicles	0	0	0	0	0	0	0
Shipbuilding	84	57	59	68	74	71	69
Tanks	1	1	1	1	1	1	1
Other Electronic Equipment	0	0	0	0	0	0	0
Other Ordinances	0	0	0	0	0	0	0
Other	500	410	407	417	408	404	400
Total :	744	608	595	615	614	609	607

Note: numbers may not add due to rounding

**Table 27: Projected Defense Purchases of
269 Water transportation**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	8,127	7,944	6,852	6,541	6,437	6,227	6,175
Indirect Purchases	367	323	314	316	317	312	311
Total :	8,494	8,267	7,166	6,857	6,754	6,539	6,486
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	1	1	1	1	1	1	1
Aircraft Parts	3	3	2	2	2	2	2
Ammunition	1	1	0	1	0	0	1
Communication Equipment	6	5	5	5	5	5	5
Missiles	3	3	3	3	3	3	3
Motor Vehicles	1	0	0	0	0	1	1
Shipbuilding	5	3	3	4	4	4	4
Tanks	1	0	0	0	0	0	0
Other Electronic Equipment	1	1	1	1	1	1	1
Other Ordinances	0	0	0	0	0	0	0
Other	347	307	298	299	300	294	294
Total :	367	323	314	316	317	312	311

Note: numbers may not add due to rounding

**Table 28: Projected Defense Purchases of
236 Aircraft engines and engine parts**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	4,676	3,987	3,846	4,066	3,883	3,866	3,897
Indirect Purchases	4,051	3,367	3,258	3,377	3,296	3,292	3,300
Total :	8,728	7,354	7,103	7,443	7,179	7,158	7,197
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	1,338	1,140	1,096	1,164	1,116	1,114	1,128
Aircraft Parts	373	323	291	281	275	283	287
Ammunition	1	1	1	1	1	1	1
Communication Equipment	5	4	4	4	4	4	5
Missiles	91	83	80	83	86	90	91
Motor Vehicles	0	0	0	0	0	0	0
Shipbuilding	4	2	1	2	2	2	2
Tanks	38	29	22	23	28	29	31
Other Electronic Equipment	0	0	0	0	0	0	0
Other Ordinances	1	1	1	1	1	1	1
Other	2,199	1,784	1,761	1,817	1,782	1,767	1,754
Total :	4,051	3,367	3,257	3,376	3,296	3,291	3,300

Note: numbers may not add due to rounding

**Table 29: Projected Defense Purchases of
273 Scenic and sightseeing transportation and support activities for transportation**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	4,025	3,744	3,242	3,211	3,199	3,177	3,174
Indirect Purchases	4,466	4,182	3,667	3,528	3,496	3,427	3,399
Total :	8,492	7,927	6,909	6,739	6,695	6,604	6,573
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	7	6	6	6	6	6	6
Aircraft Parts	24	20	18	18	17	17	18
Ammunition	4	4	3	4	3	3	4
Communication Equipment	38	32	32	33	33	33	33
Missiles	26	24	23	24	24	25	26
Motor Vehicles	5	3	3	3	3	3	4
Shipbuilding	41	28	28	32	35	33	32
Tanks	4	3	3	3	3	3	4
Other Electronic Equipment	6	5	5	5	5	5	5
Other Ordinances	1	1	1	1	1	1	1
Other	4,311	4,056	3,545	3,401	3,365	3,296	3,268
Total :	4,466	4,182	3,667	3,528	3,496	3,427	3,399

Note: numbers may not add due to rounding

**Table 30: Projected Defense Purchases of
288 Monetary authorities and depository credit intermediation**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	0	0	0	0	0	0	0
Indirect Purchases	8,460	7,649	6,892	6,779	6,778	6,679	6,649
Total :	8,460	7,649	6,892	6,779	6,778	6,679	6,649
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	51	44	42	44	43	42	43
Aircraft Parts	130	112	101	97	95	97	98
Ammunition	20	20	19	19	19	18	19
Communication Equipment	224	188	188	193	195	195	197
Missiles	210	192	186	190	198	206	207
Motor Vehicles	23	17	13	14	16	17	18
Shipbuilding	387	263	272	310	337	321	310
Tanks	32	25	19	19	23	24	26
Other Electronic Equipment	28	25	24	25	25	25	25
Other Ordinances	8	7	6	6	6	6	6
Other	7,346	6,757	6,022	5,861	5,822	5,728	5,700
Total :	8,460	7,649	6,892	6,779	6,778	6,680	6,649

Note: numbers may not add due to rounding

**Table 31: Projected Defense Purchases of
197 Broadcast and wireless communications equipment**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	5,729	4,754	4,911	5,046	5,100	5,041	5,038
Indirect Purchases	2,156	1,860	1,848	1,930	1,966	2,000	2,006
Total :	7,885	6,614	6,759	6,975	7,066	7,042	7,044
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	15	13	12	13	12	12	13
Aircraft Parts	24	21	19	18	18	18	19
Ammunition	0	0	0	0	0	0	0
Communication Equipment	1,544	1,328	1,334	1,406	1,435	1,458	1,460
Missiles	278	254	248	254	266	279	282
Motor Vehicles	0	0	0	0	0	0	0
Shipbuilding	3	2	2	2	2	2	2
Tanks	1	0	0	0	0	0	1
Other Electronic Equipment	6	6	6	6	6	6	6
Other Ordinances	0	0	0	0	0	0	0
Other	284	235	227	230	226	224	223
Total :	2,156	1,860	1,848	1,930	1,966	2,000	2,006

Note: numbers may not add due to rounding

**Table 32: Projected Defense Purchases of
322 Employment services**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	258	261	207	196	193	181	180
Indirect Purchases	7,999	7,269	6,500	6,352	6,334	6,234	6,222
Total :	8,257	7,531	6,707	6,548	6,527	6,416	6,402
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	55	46	45	47	45	45	46
Aircraft Parts	128	111	100	96	93	96	97
Ammunition	21	21	19	20	20	19	20
Communication Equipment	297	250	252	259	262	261	265
Missiles	459	420	407	418	435	453	456
Motor Vehicles	14	11	9	9	10	11	11
Shipbuilding	268	182	188	214	233	222	214
Tanks	18	14	10	11	13	13	15
Other Electronic Equipment	23	20	20	21	21	21	21
Other Ordinances	8	7	6	7	6	6	6
Other	6,706	6,186	5,444	5,250	5,195	5,087	5,071
Total :	7,998	7,269	6,500	6,352	6,334	6,235	6,222

Note: numbers may not add due to rounding

**Table 33: Projected Defense Purchases of
290 Securities, commodity contracts, investments, and related activities**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	200	192	171	159	157	154	151
Indirect Purchases	7,106	6,326	5,742	5,683	5,710	5,620	5,590
Total :	7,307	6,518	5,913	5,842	5,867	5,773	5,741
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	82	70	67	71	68	68	69
Aircraft Parts	205	176	159	152	149	152	153
Ammunition	37	36	34	35	34	33	36
Communication Equipment	270	228	228	234	236	235	239
Missiles	366	334	323	332	345	359	361
Motor Vehicles	42	31	24	25	29	31	32
Shipbuilding	672	458	473	540	588	560	541
Tanks	53	41	31	32	38	40	43
Other Electronic Equipment	39	35	35	36	36	35	36
Other Ordinances	14	12	11	11	10	10	11
Other	5,324	4,905	4,358	4,215	4,176	4,095	4,070
Total :	7,105	6,326	5,742	5,684	5,710	5,620	5,590

Note: numbers may not add due to rounding

**Table 34: Projected Defense Purchases of
339 Hotels and other accommodations**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	4,653	4,346	3,743	3,544	3,502	3,433	3,392
Indirect Purchases	2,427	2,194	1,977	1,960	1,964	1,941	1,936
Total :	7,080	6,540	5,720	5,504	5,466	5,374	5,328
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	16	14	13	14	13	13	13
Aircraft Parts	39	33	30	29	28	29	29
Ammunition	5	5	5	5	5	5	5
Communication Equipment	81	68	68	70	71	71	72
Missiles	74	68	66	68	70	73	74
Motor Vehicles	6	4	4	4	4	4	5
Shipbuilding	131	89	92	105	114	109	105
Tanks	8	6	4	5	5	6	6
Other Electronic Equipment	8	7	7	7	7	7	7
Other Ordinances	2	2	2	2	2	2	2
Other	2,057	1,897	1,686	1,652	1,644	1,623	1,619
Total :	2,427	2,194	1,977	1,960	1,964	1,941	1,936

Note: numbers may not add due to rounding

**Table 35: Projected Defense Purchases of
135 Primary ferrous metal products**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	27	24	17	14	13	13	13
Indirect Purchases	6,956	5,858	5,265	5,305	5,379	5,303	5,256
Total :	6,983	5,882	5,282	5,319	5,393	5,316	5,269
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	111	94	89	94	90	90	90
Aircraft Parts	363	311	278	265	258	262	263
Ammunition	91	88	83	85	82	80	85
Communication Equipment	251	209	207	211	212	210	212
Missiles	244	221	211	215	222	229	229
Motor Vehicles	229	170	137	141	161	173	176
Shipbuilding	1,197	809	829	942	1,023	970	933
Tanks	199	152	113	118	142	147	157
Other Electronic Equipment	67	60	58	59	59	58	59
Other Ordinances	45	39	34	35	34	33	34
Other	4,158	3,706	3,224	3,138	3,097	3,050	3,015
Total :	6,955	5,858	5,265	5,305	5,379	5,303	5,256

Note: numbers may not add due to rounding

**Table 36: Projected Defense Purchases of
301 Legal services**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	30	29	22	20	19	18	17
Indirect Purchases	6,290	5,650	5,123	5,052	5,055	4,986	4,969
Total :	6,320	5,679	5,145	5,072	5,074	5,003	4,987
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	97	83	80	85	81	81	82
Aircraft Parts	156	135	121	117	114	117	118
Ammunition	25	25	23	24	23	23	24
Communication Equipment	339	286	287	295	298	297	302
Missiles	345	315	305	313	326	339	342
Motor Vehicles	22	16	13	13	15	16	16
Shipbuilding	296	201	207	237	257	245	236
Tanks	26	20	15	16	19	20	21
Other Electronic Equipment	37	33	33	34	34	34	34
Other Ordinances	10	8	7	8	7	7	7
Other	4,936	4,528	4,032	3,912	3,880	3,807	3,786
Total :	6,290	5,650	5,123	5,052	5,055	4,986	4,969

Note: numbers may not add due to rounding

**Table 37: Projected Defense Purchases of
306 Computer systems design services**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	5,321	4,845	4,287	4,130	4,110	4,028	4,020
Indirect Purchases	829	739	669	661	663	653	653
Total :	6,150	5,584	4,956	4,792	4,773	4,681	4,672
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	10	8	8	8	8	8	8
Aircraft Parts	21	18	16	16	15	16	16
Ammunition	3	3	3	3	3	3	3
Communication Equipment	73	62	62	64	64	64	65
Missiles	35	32	31	32	33	34	34
Motor Vehicles	3	2	2	2	2	2	2
Shipbuilding	51	35	36	41	45	43	41
Tanks	4	3	2	3	3	3	3
Other Electronic Equipment	6	5	5	5	6	5	6
Other Ordinances	1	1	1	1	1	1	1
Other	622	569	503	487	483	474	473
Total :	829	739	669	662	663	653	653

Note: numbers may not add due to rounding

**Table 38: Projected Defense Purchases of
317 Facilities support services**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	6,075	5,516	4,140	3,721	3,616	3,477	3,441
Indirect Purchases	496	444	402	399	402	399	399
Total :	6,571	5,960	4,542	4,120	4,018	3,876	3,840
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	7	6	6	6	6	6	6
Aircraft Parts	17	15	13	13	12	13	13
Ammunition	2	2	2	2	2	2	2
Communication Equipment	33	28	28	29	29	29	30
Missiles	78	71	69	71	74	77	78
Motor Vehicles	1	1	1	1	1	1	1
Shipbuilding	28	19	20	22	24	23	22
Tanks	2	1	1	1	1	1	1
Other Electronic Equipment	2	2	2	2	2	2	2
Other Ordinances	1	1	1	1	1	1	1
Other	324	298	260	251	249	244	244
Total :	496	444	402	399	402	399	399

Note: numbers may not add due to rounding

**Table 39: Projected Defense Purchases of
201 All other electronic components**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2,190	1,939	1,973	2,029	2,032	2,023	2,047
Indirect Purchases	3,004	2,588	2,470	2,498	2,527	2,515	2,533
Total :	5,194	4,527	4,443	4,528	4,559	4,537	4,580
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	13	11	11	11	11	11	11
Aircraft Parts	72	62	55	53	52	53	54
Ammunition	15	15	14	14	14	14	15
Communication Equipment	1,175	983	990	1,019	1,033	1,031	1,045
Missiles	191	174	169	174	182	191	194
Motor Vehicles	18	14	12	12	13	14	14
Shipbuilding	118	80	82	93	101	96	93
Tanks	10	8	6	6	7	8	8
Other Electronic Equipment	293	260	261	268	269	268	272
Other Ordinances	4	4	3	3	3	3	3
Other	1,096	977	867	844	841	826	825
Total :	3,004	2,588	2,470	2,498	2,527	2,515	2,533

Note: numbers may not add due to rounding

**Table 40: Projected Defense Purchases of
275 Warehousing and storage**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	3,898	3,645	3,084	2,874	2,817	2,756	2,720
Indirect Purchases	1,672	1,504	1,342	1,313	1,312	1,293	1,287
Total :	5,570	5,150	4,427	4,187	4,129	4,049	4,008
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	17	14	14	15	14	14	14
Aircraft Parts	52	45	40	39	38	39	39
Ammunition	11	11	10	11	10	10	11
Communication Equipment	108	91	91	94	95	94	96
Missiles	76	69	67	68	71	74	74
Motor Vehicles	7	5	4	4	5	5	5
Shipbuilding	99	68	70	79	86	82	79
Tanks	11	9	7	7	8	9	9
Other Electronic Equipment	15	14	14	14	14	14	14
Other Ordinances	4	3	3	3	3	3	3
Other	1,272	1,176	1,024	980	968	950	943
Total :	1,672	1,504	1,342	1,313	1,312	1,293	1,287

Note: numbers may not add due to rounding

**Table 44: Projected Defense Purchases of
324 Waste management and remediation services**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	3,965	3,471	2,400	2,006	1,910	1,837	1,804
Indirect Purchases	2,051	1,849	1,569	1,493	1,480	1,448	1,437
Total :	6,016	5,320	3,969	3,500	3,390	3,284	3,241
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	9	7	7	7	7	7	7
Aircraft Parts	24	21	19	18	18	18	18
Ammunition	9	8	8	8	8	8	8
Communication Equipment	37	31	31	32	33	33	33
Missiles	26	24	23	24	25	26	26
Motor Vehicles	6	5	4	4	4	5	5
Shipbuilding	80	54	56	64	70	66	64
Tanks	6	4	3	3	4	4	5
Other Electronic Equipment	7	6	6	6	6	6	7
Other Ordinances	2	2	2	2	1	1	2
Other	1,844	1,686	1,410	1,324	1,304	1,273	1,263
Total :	2,051	1,849	1,569	1,494	1,480	1,448	1,437

Note: numbers may not add due to rounding

**Table 41: Projected Defense Purchases of
300 Lessors of nonfinancial intangible assets**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	0	0	0	0	0	0	0
Indirect Purchases	5,273	4,652	4,222	4,189	4,226	4,168	4,163
Total :	5,273	4,653	4,222	4,189	4,226	4,169	4,163
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	52	44	42	45	43	43	43
Aircraft Parts	132	114	102	98	96	98	99
Ammunition	20	20	19	19	19	18	20
Communication Equipment	382	323	323	332	336	334	340
Missiles	240	219	212	218	227	236	238
Motor Vehicles	25	18	14	15	17	19	19
Shipbuilding	544	371	384	439	478	456	441
Tanks	35	27	20	21	25	26	29
Other Electronic Equipment	49	43	43	44	44	44	45
Other Ordinances	7	6	5	5	5	5	5
Other	3,787	3,467	3,056	2,952	2,936	2,888	2,884
Total :	5,273	4,652	4,222	4,189	4,226	4,169	4,163

Note: numbers may not add due to rounding

**Table 42: Projected Defense Purchases of
280 Software publishers**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2,856	2,665	2,283	2,171	2,162	2,138	2,139
Indirect Purchases	2,317	1,990	1,915	1,943	1,977	1,963	1,974
Total :	5,173	4,655	4,198	4,114	4,138	4,100	4,113
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	2	2	2	2	2	2	2
Aircraft Parts	13	11	10	10	9	10	10
Ammunition	6	6	6	6	6	6	6
Communication Equipment	1,077	909	912	936	947	944	956
Missiles	195	178	171	175	183	190	192
Motor Vehicles	8	6	4	4	5	6	6
Shipbuilding	154	105	109	125	136	130	126
Tanks	2	1	1	1	1	1	1
Other Electronic Equipment	23	21	20	20	20	20	20
Other Ordinances	1	1	1	1	1	1	1
Other	836	750	681	663	667	654	655
Total :	2,317	1,990	1,915	1,943	1,977	1,963	1,974

Note: numbers may not add due to rounding

**Table 43: Projected Defense Purchases of
320 Services to buildings and dwellings**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1,479	1,373	1,033	937	918	881	871
Indirect Purchases	3,763	3,374	3,087	3,041	3,038	2,986	2,972
Total :	5,241	4,747	4,119	3,977	3,956	3,868	3,843
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	20	17	17	18	17	17	17
Aircraft Parts	51	44	40	38	37	38	38
Ammunition	14	13	13	13	13	12	13
Communication Equipment	116	98	98	101	102	101	103
Missiles	68	62	60	62	64	67	67
Motor Vehicles	12	9	7	7	9	9	9
Shipbuilding	140	95	98	112	122	116	112
Tanks	13	10	7	8	9	9	10
Other Electronic Equipment	18	16	16	16	16	16	16
Other Ordinances	4	3	3	3	3	3	3
Other	3,305	3,006	2,728	2,664	2,647	2,598	2,584
Total :	3,762	3,374	3,087	3,041	3,038	2,986	2,972

Note: numbers may not add due to rounding

**Table 45: Projected Defense Purchases of
305 Custom computer programming services**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	4,362	3,966	3,456	3,272	3,238	3,162	3,149
Indirect Purchases	507	443	410	414	412	411	416
Total :	4,869	4,408	3,866	3,686	3,650	3,573	3,565
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	15	13	12	13	12	12	13
Aircraft Parts	35	31	28	27	26	27	27
Ammunition	27	27	25	26	26	25	27
Communication Equipment	122	103	103	106	107	106	108
Missiles	22	20	19	20	21	22	22
Motor Vehicles	1	1	1	1	1	1	1
Shipbuilding	6	4	4	5	5	5	5
Tanks	2	1	1	1	1	1	1
Other Electronic Equipment	10	9	8	8	8	8	8
Other Ordinances	14	12	11	11	11	10	11
Other	253	222	198	196	195	193	194
Total :	507	443	410	414	412	411	416

Note: numbers may not add due to rounding

**Table 46: Projected Defense Purchases of
351 Postal service**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2,503	2,271	1,898	1,786	1,789	1,770	1,761
Indirect Purchases	2,252	2,078	1,820	1,756	1,742	1,711	1,700
Total :	4,755	4,350	3,718	3,542	3,530	3,480	3,462
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	7	6	6	6	6	6	6
Aircraft Parts	24	20	18	18	17	18	18
Ammunition	4	4	3	3	3	3	3
Communication Equipment	45	38	38	39	40	40	40
Missiles	30	27	26	27	28	29	29
Motor Vehicles	4	3	3	3	3	3	3
Shipbuilding	42	28	29	33	36	34	33
Tanks	5	4	3	3	3	4	4
Other Electronic Equipment	6	5	5	6	6	6	6
Other Ordinances	1	1	1	1	1	1	1
Other	2,083	1,941	1,688	1,618	1,599	1,568	1,557
Total :	2,251	2,078	1,820	1,756	1,742	1,711	1,701

Note: numbers may not add due to rounding

**Table 47: Projected Defense Purchases of
234 Motor vehicle parts**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	711	637	585	570	600	605	613
Indirect Purchases	3,997	3,461	3,127	3,087	3,198	3,190	3,173
Total :	4,708	4,098	3,712	3,657	3,798	3,794	3,786
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	16	14	13	14	14	13	14
Aircraft Parts	45	39	35	34	33	34	34
Ammunition	5	5	5	5	5	5	5
Communication Equipment	101	84	85	87	88	88	89
Missiles	41	37	36	37	39	40	40
Motor Vehicles	208	152	121	125	145	158	161
Shipbuilding	142	95	96	107	115	108	102
Tanks	6	5	4	4	4	5	5
Other Electronic Equipment	18	16	16	16	16	16	16
Other Ordinances	2	2	2	2	2	2	2
Other	3,411	3,011	2,715	2,656	2,737	2,723	2,705
Total :	3,997	3,461	3,127	3,088	3,198	3,190	3,173

Note: numbers may not add due to rounding

**Table 48: Projected Defense Purchases of
296 Automotive equipment rental and leasing**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2,071	1,935	1,674	1,589	1,572	1,543	1,525
Indirect Purchases	2,498	2,239	2,015	1,983	1,983	1,953	1,949
Total :	4,569	4,174	3,690	3,572	3,555	3,496	3,473
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	22	19	18	19	18	18	18
Aircraft Parts	70	60	54	52	51	52	52
Ammunition	14	13	12	13	13	12	13
Communication Equipment	150	126	126	130	131	131	133
Missiles	89	82	79	81	84	88	88
Motor Vehicles	14	10	8	8	9	10	10
Shipbuilding	131	89	91	104	113	107	103
Tanks	14	11	8	9	10	11	12
Other Electronic Equipment	24	21	21	21	21	21	22
Other Ordinances	4	4	3	4	3	3	3
Other	1,966	1,805	1,594	1,543	1,529	1,500	1,494
Total :	2,498	2,239	2,015	1,983	1,983	1,954	1,949

Note: numbers may not add due to rounding

Table 49: Projected Defense Purchases of
302 Accounting, tax preparation, bookkeeping, and payroll services
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	340	334	272	256	251	240	239
Indirect Purchases	3,794	3,424	3,054	2,984	2,979	2,926	2,916
Total :	4,134	3,758	3,326	3,240	3,230	3,167	3,156
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	31	26	25	27	26	26	26
Aircraft Parts	72	62	56	54	52	53	54
Ammunition	13	12	12	12	12	11	12
Communication Equipment	168	142	142	146	148	147	149
Missiles	112	103	99	102	106	110	111
Motor Vehicles	13	10	8	8	9	10	10
Shipbuilding	183	124	128	146	159	152	146
Tanks	20	15	11	12	14	15	16
Other Electronic Equipment	21	19	19	19	19	19	19
Other Ordinances	5	4	4	4	3	3	3
Other	3,156	2,907	2,550	2,455	2,430	2,380	2,369
Total :	3,794	3,424	3,054	2,984	2,979	2,926	2,916

Note: numbers may not add due to rounding

**Table 50: Projected Defense Purchases of
266 Retail trade**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1,574	1,526	1,451	1,421	1,415	1,402	1,398
Indirect Purchases	1,964	1,822	1,614	1,545	1,544	1,511	1,504
Total :	3,538	3,348	3,066	2,967	2,959	2,913	2,902
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	3	3	3	3	3	3	3
Aircraft Parts	12	10	9	9	9	9	9
Ammunition	6	6	6	6	6	6	6
Communication Equipment	28	24	24	24	25	25	25
Missiles	12	11	11	11	11	12	12
Motor Vehicles	23	17	13	14	16	17	18
Shipbuilding	28	19	19	22	24	22	21
Tanks	2	2	1	1	2	2	2
Other Electronic Equipment	6	5	5	5	5	5	5
Other Ordinances	1	1	1	1	1	1	1
Other	1,842	1,725	1,523	1,450	1,444	1,411	1,403
Total :	1,964	1,822	1,614	1,545	1,544	1,511	1,504

Note: numbers may not add due to rounding

**Table 51: Projected Defense Purchases of
321 Other support services**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1,810	1,672	1,453	1,382	1,374	1,359	1,349
Indirect Purchases	1,906	1,719	1,553	1,536	1,541	1,524	1,525
Total :	3,716	3,391	3,006	2,918	2,915	2,884	2,874
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	22	19	18	19	18	18	18
Aircraft Parts	53	46	41	40	39	40	40
Ammunition	7	7	7	7	7	6	7
Communication Equipment	116	98	99	102	103	103	104
Missiles	222	203	197	202	211	219	221
Motor Vehicles	5	4	3	3	3	4	4
Shipbuilding	100	68	70	80	87	83	80
Tanks	7	5	4	4	5	5	6
Other Electronic Equipment	7	7	7	7	7	7	7
Other Ordinances	3	3	3	3	2	2	2
Other	1,363	1,260	1,106	1,071	1,059	1,038	1,037
Total :	1,906	1,719	1,553	1,536	1,541	1,525	1,525

Note: numbers may not add due to rounding

**Table 52: Projected Defense Purchases of
92 Printing**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2,471	2,148	1,857	1,795	1,810	1,797	1,784
Indirect Purchases	1,388	1,263	1,125	1,099	1,095	1,077	1,074
Total :	3,858	3,410	2,982	2,893	2,905	2,874	2,858
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	8	7	6	7	6	6	7
Aircraft Parts	20	17	15	15	14	15	15
Ammunition	3	3	3	3	3	3	3
Communication Equipment	51	43	43	44	44	44	45
Missiles	41	37	36	37	39	40	40
Motor Vehicles	4	3	2	2	2	3	3
Shipbuilding	40	27	28	32	34	33	31
Tanks	4	3	2	2	3	3	3
Other Electronic Equipment	6	5	5	5	5	5	5
Other Ordinances	1	1	1	1	1	1	1
Other	1,210	1,117	983	950	942	924	920
Total :	1,387	1,263	1,125	1,099	1,095	1,077	1,074

Note: numbers may not add due to rounding

**Table 53: Projected Defense Purchases of
152 Ammunition**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	3,112	3,054	2,893	2,999	2,909	2,843	3,039
Indirect Purchases	18	17	15	15	15	15	17
Total :	3,130	3,072	2,908	3,014	2,924	2,857	3,055
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	0	0	0	0	0	0	0
Aircraft Parts	0	0	0	0	0	0	0
Ammunition	17	16	14	14	14	14	16
Communication Equipment	0	0	0	0	0	0	0
Missiles	0	0	0	0	0	0	0
Motor Vehicles	0	0	0	0	0	0	0
Shipbuilding	0	0	0	0	0	0	0
Tanks	0	0	0	0	0	0	0
Other Electronic Equipment	0	0	0	0	0	0	0
Other Ordinances	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0
Total :	18	17	15	15	15	15	17

Note: numbers may not add due to rounding

**Table 54: Projected Defense Purchases of
200 Semiconductors and electron tubes**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	90	85	77	78	76	74	76
Indirect Purchases	3,277	2,814	2,695	2,735	2,774	2,774	2,788
Total :	3,366	2,899	2,772	2,813	2,850	2,848	2,863
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	24	20	19	21	20	20	20
Aircraft Parts	86	74	67	64	63	64	65
Ammunition	18	17	16	17	16	16	17
Communication Equipment	1,099	916	926	954	969	967	978
Missiles	369	337	328	337	352	368	372
Motor Vehicles	19	14	11	11	13	14	14
Shipbuilding	139	94	97	110	120	114	110
Tanks	13	10	7	8	9	10	10
Other Electronic Equipment	294	262	264	273	275	276	279
Other Ordinances	6	5	4	4	4	4	4
Other	1,211	1,064	955	936	933	921	917
Total :	3,276	2,814	2,695	2,735	2,774	2,774	2,788

Note: numbers may not add due to rounding

**Table 55: Projected Defense Purchases of
239 Propulsion units and parts for space vehicles and guided missiles**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1,585	1,436	1,269	1,327	1,334	1,325	1,312
Indirect Purchases	1,689	1,541	1,483	1,524	1,581	1,639	1,649
Total :	3,274	2,977	2,752	2,851	2,915	2,964	2,961
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	0	0	0	0	0	0	0
Aircraft Parts	11	9	9	8	8	8	8
Ammunition	4	4	4	4	4	4	4
Communication Equipment	28	24	24	24	24	24	25
Missiles	1,597	1,461	1,408	1,448	1,505	1,564	1,574
Motor Vehicles	0	0	0	0	0	0	0
Shipbuilding	1	0	0	1	1	1	1
Tanks	3	2	2	2	2	2	2
Other Electronic Equipment	0	0	0	0	0	0	0
Other Ordinances	4	4	3	3	3	3	3
Other	40	36	33	33	32	32	31
Total :	1,689	1,541	1,483	1,524	1,581	1,639	1,649

Note: numbers may not add due to rounding

**Table 56: Projected Defense Purchases of
268 Rail transportation**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1,873	1,747	1,488	1,390	1,364	1,336	1,319
Indirect Purchases	1,598	1,427	1,254	1,218	1,216	1,197	1,190
Total :	3,471	3,174	2,742	2,608	2,580	2,534	2,509
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	12	10	10	10	10	10	10
Aircraft Parts	66	57	51	49	47	49	49
Ammunition	12	11	11	11	11	10	11
Communication Equipment	40	33	33	34	34	34	35
Missiles	30	27	26	27	28	29	29
Motor Vehicles	17	13	10	10	12	13	13
Shipbuilding	83	56	57	64	70	66	63
Tanks	14	11	8	8	10	10	11
Other Electronic Equipment	11	9	9	9	9	9	9
Other Ordinances	4	3	3	3	3	3	3
Other	1,310	1,197	1,037	992	983	965	957
Total :	1,598	1,427	1,254	1,218	1,216	1,198	1,190

Note: numbers may not add due to rounding

**Table 57: Projected Defense Purchases of
274 Couriers and messengers**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	132	127	121	119	119	118	117
Indirect Purchases	3,106	2,872	2,506	2,409	2,387	2,342	2,325
Total :	3,239	2,999	2,627	2,528	2,505	2,459	2,443
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	10	8	8	9	8	8	8
Aircraft Parts	36	31	28	27	26	26	27
Ammunition	5	5	5	5	5	5	5
Communication Equipment	60	50	50	52	52	52	53
Missiles	39	36	34	35	37	38	39
Motor Vehicles	7	5	4	4	5	5	5
Shipbuilding	58	39	40	46	50	47	45
Tanks	7	5	4	4	5	5	5
Other Electronic Equipment	10	8	8	9	9	9	9
Other Ordinances	2	2	1	2	1	1	1
Other	2,874	2,682	2,322	2,218	2,189	2,144	2,127
Total :	3,106	2,872	2,506	2,409	2,387	2,342	2,325

Note: numbers may not add due to rounding

**Table 58: Projected Defense Purchases of
286 Data processing, hosting and internet service providers**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	324	302	249	231	227	222	220
Indirect Purchases	2,907	2,577	2,339	2,314	2,321	2,281	2,274
Total :	3,231	2,879	2,588	2,546	2,548	2,503	2,494
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	31	26	25	27	26	26	26
Aircraft Parts	73	63	57	55	53	55	55
Ammunition	12	12	11	11	11	11	11
Communication Equipment	201	170	170	175	177	176	179
Missiles	106	96	93	96	99	103	104
Motor Vehicles	11	8	7	7	8	8	8
Shipbuilding	238	162	167	191	208	198	191
Tanks	16	12	9	10	12	12	13
Other Electronic Equipment	19	17	17	18	18	18	18
Other Ordinances	5	4	4	4	4	4	4
Other	2,195	2,006	1,778	1,722	1,706	1,671	1,664
Total :	2,907	2,577	2,339	2,314	2,321	2,281	2,274

Note: numbers may not add due to rounding

**Table 59: Projected Defense Purchases of
292 Insurance agencies, brokerages, and related activities**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	21	20	14	12	12	11	11
Indirect Purchases	2,940	2,756	2,493	2,418	2,387	2,335	2,307
Total :	2,961	2,776	2,507	2,431	2,399	2,346	2,318
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	8	7	6	7	6	6	6
Aircraft Parts	22	19	17	16	16	16	16
Ammunition	4	4	3	3	3	3	3
Communication Equipment	43	36	36	37	37	37	37
Missiles	33	30	29	30	31	32	32
Motor Vehicles	4	3	2	2	3	3	3
Shipbuilding	49	33	34	38	41	39	38
Tanks	5	3	3	3	3	3	4
Other Electronic Equipment	6	5	5	5	5	5	5
Other Ordinances	1	1	1	1	1	1	1
Other	2,765	2,615	2,356	2,275	2,239	2,188	2,160
Total :	2,940	2,756	2,493	2,419	2,387	2,335	2,307

Note: numbers may not add due to rounding

**Table 60: Projected Defense Purchases of
326 Junior colleges, colleges, universities, and professional schools**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	3,017	2,691	2,368	2,241	2,167	2,059	2,002
Indirect Purchases	124	113	100	98	98	97	97
Total :	3,141	2,804	2,468	2,339	2,265	2,156	2,098
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	0	0	0	0	0	0	0
Aircraft Parts	1	1	1	1	1	1	1
Ammunition	0	0	0	0	0	0	0
Communication Equipment	2	1	1	1	2	2	2
Missiles	1	1	1	1	1	1	1
Motor Vehicles	0	0	0	0	0	0	0
Shipbuilding	2	1	1	1	1	1	1
Tanks	0	0	0	0	0	0	0
Other Electronic Equipment	0	0	0	0	0	0	0
Other Ordinances	0	0	0	0	0	0	0
Other	117	108	95	92	92	91	91
Total :	124	113	100	98	98	97	97

Note: numbers may not add due to rounding

**Table 61: Projected Defense Purchases of
29 Natural gas distribution**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	962	871	719	673	673	664	661
Indirect Purchases	2,195	1,974	1,747	1,702	1,699	1,671	1,661
Total :	3,157	2,845	2,466	2,375	2,371	2,336	2,322
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	21	18	17	18	17	17	17
Aircraft Parts	70	60	54	52	50	52	52
Ammunition	27	27	25	26	25	25	26
Communication Equipment	70	59	58	60	60	60	61
Missiles	52	47	45	47	48	50	50
Motor Vehicles	17	12	10	10	11	12	13
Shipbuilding	97	65	67	76	82	78	75
Tanks	15	12	9	9	11	11	12
Other Electronic Equipment	14	13	13	13	13	13	13
Other Ordinances	6	5	4	4	4	4	4
Other	1,805	1,656	1,445	1,388	1,375	1,349	1,338
Total :	2,195	1,974	1,747	1,702	1,699	1,671	1,661

Note: numbers may not add due to rounding

**Table 62: Projected Defense Purchases of
102 Plastics materials and resins**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	36	33	29	28	29	29	29
Indirect Purchases	2,993	2,660	2,434	2,402	2,419	2,367	2,357
Total :	3,029	2,693	2,463	2,431	2,448	2,397	2,386
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	10	8	8	8	8	8	8
Aircraft Parts	92	78	69	66	64	65	65
Ammunition	53	52	49	51	49	48	51
Communication Equipment	128	106	105	107	107	106	107
Missiles	50	45	43	43	45	46	46
Motor Vehicles	28	23	19	19	21	21	22
Shipbuilding	269	182	186	210	227	214	204
Tanks	39	30	22	23	28	29	31
Other Electronic Equipment	45	40	40	40	40	40	40
Other Ordinances	5	4	4	4	4	4	4
Other	2,272	2,092	1,890	1,831	1,827	1,788	1,780
Total :	2,992	2,660	2,434	2,403	2,419	2,367	2,357

Note: numbers may not add due to rounding

**Table 63: Projected Defense Purchases of
318 Business support services**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	194	186	144	140	139	134	129
Indirect Purchases	2,735	2,435	2,223	2,209	2,223	2,200	2,195
Total :	2,929	2,621	2,367	2,349	2,362	2,334	2,324
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	43	37	35	38	36	36	36
Aircraft Parts	85	74	66	64	62	64	64
Ammunition	12	11	11	11	11	10	11
Communication Equipment	168	142	143	147	149	148	150
Missiles	321	294	284	292	304	317	319
Motor Vehicles	9	6	5	5	6	6	7
Shipbuilding	209	142	147	168	183	174	168
Tanks	13	10	7	8	9	10	10
Other Electronic Equipment	13	12	12	12	12	12	12
Other Ordinances	5	5	4	4	4	4	4
Other	1,856	1,702	1,508	1,460	1,446	1,418	1,412
Total :	2,735	2,435	2,223	2,209	2,223	2,200	2,195

Note: numbers may not add due to rounding

**Table 64: Projected Defense Purchases of
299 Commercial and industrial machinery and equipment rental and leasing**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	313	322	256	244	239	224	223
Indirect Purchases	2,552	2,334	2,049	1,987	1,977	1,948	1,931
Total :	2,865	2,655	2,305	2,231	2,217	2,172	2,155
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	11	9	9	10	9	9	9
Aircraft Parts	38	33	29	28	28	28	29
Ammunition	7	7	7	7	7	6	7
Communication Equipment	70	59	59	60	61	61	62
Missiles	42	39	37	38	40	41	42
Motor Vehicles	7	5	4	4	5	6	6
Shipbuilding	67	45	47	53	58	55	53
Tanks	8	6	4	5	5	6	6
Other Electronic Equipment	11	10	10	10	10	10	10
Other Ordinances	2	2	2	2	2	2	2
Other	2,288	2,119	1,841	1,770	1,753	1,724	1,707
Total :	2,552	2,334	2,049	1,987	1,977	1,948	1,931

Note: numbers may not add due to rounding

**Table 65: Projected Defense Purchases of
304 Specialized design services**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	68	62	45	40	38	36	36
Indirect Purchases	2,729	2,430	2,237	2,244	2,266	2,260	2,265
Total :	2,796	2,491	2,282	2,284	2,305	2,296	2,301
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	53	45	43	46	44	44	45
Aircraft Parts	124	107	96	93	90	92	93
Ammunition	15	14	14	14	14	13	14
Communication Equipment	226	191	193	199	201	200	203
Missiles	593	542	526	540	562	586	590
Motor Vehicles	8	6	5	5	6	6	6
Shipbuilding	199	136	139	159	173	165	160
Tanks	11	8	6	6	8	8	9
Other Electronic Equipment	12	10	10	11	11	11	11
Other Ordinances	8	7	6	6	6	6	6
Other	1,481	1,363	1,199	1,165	1,152	1,128	1,129
Total :	2,728	2,430	2,237	2,244	2,266	2,260	2,265

Note: numbers may not add due to rounding

**Table 66: Projected Defense Purchases of
119 Other plastics products**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	52	51	45	43	42	41	41
Indirect Purchases	2,807	2,474	2,233	2,215	2,220	2,201	2,188
Total :	2,860	2,525	2,277	2,258	2,263	2,242	2,230
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	16	14	13	14	13	13	13
Aircraft Parts	314	271	245	235	230	235	238
Ammunition	23	23	21	22	21	21	22
Communication Equipment	165	139	138	141	143	142	144
Missiles	78	71	68	70	73	76	77
Motor Vehicles	23	18	15	15	17	17	18
Shipbuilding	210	143	147	168	183	174	168
Tanks	23	18	13	14	17	18	19
Other Electronic Equipment	22	20	19	20	20	20	20
Other Ordinances	7	6	5	6	5	5	5
Other	1,926	1,752	1,547	1,510	1,499	1,479	1,464
Total :	2,807	2,474	2,233	2,215	2,220	2,201	2,188

Note: numbers may not add due to rounding

**Table 67: Projected Defense Purchases of
289 Nondepository credit intermediation and related activities**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	15	14	12	11	11	11	11
Indirect Purchases	2,714	2,442	2,180	2,131	2,131	2,097	2,086
Total :	2,729	2,456	2,192	2,143	2,143	2,108	2,097
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	21	18	17	19	18	18	18
Aircraft Parts	60	51	46	44	43	44	45
Ammunition	10	9	9	9	9	9	9
Communication Equipment	104	88	88	90	91	91	92
Missiles	86	79	76	78	81	85	85
Motor Vehicles	12	9	7	7	8	9	9
Shipbuilding	164	111	115	131	143	136	131
Tanks	14	10	8	8	10	10	11
Other Electronic Equipment	15	13	13	14	14	13	14
Other Ordinances	3	3	3	3	3	3	3
Other	2,225	2,050	1,798	1,728	1,712	1,681	1,670
Total :	2,714	2,442	2,180	2,131	2,132	2,098	2,086

Note: numbers may not add due to rounding

**Table 68: Projected Defense Purchases of
309 Environmental and other technical consulting services**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1,684	1,520	1,191	1,091	1,069	1,039	1,026
Indirect Purchases	1,216	1,093	986	973	973	953	952
Total :	2,899	2,614	2,177	2,064	2,042	1,993	1,979
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	16	13	13	14	13	13	13
Aircraft Parts	16	14	12	12	12	12	12
Ammunition	3	3	3	3	3	3	3
Communication Equipment	43	36	36	37	38	38	38
Missiles	34	31	30	31	32	33	33
Motor Vehicles	3	2	2	2	2	2	2
Shipbuilding	80	55	57	65	70	67	65
Tanks	5	4	3	3	4	4	4
Other Electronic Equipment	5	4	4	4	4	4	4
Other Ordinances	1	1	1	1	1	1	1
Other	1,011	931	826	802	794	777	777
Total :	1,216	1,093	986	973	973	953	952

Note: numbers may not add due to rounding

**Table 69: Projected Defense Purchases of
147 Plate work and fabricated structural products**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	216	204	148	126	119	110	106
Indirect Purchases	2,499	2,251	1,998	1,951	1,949	1,911	1,891
Total :	2,715	2,455	2,146	2,077	2,068	2,021	1,997
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	12	10	10	10	10	10	10
Aircraft Parts	269	232	209	201	196	201	203
Ammunition	14	14	13	13	13	13	14
Communication Equipment	24	20	20	21	21	21	21
Missiles	127	116	113	116	120	125	126
Motor Vehicles	23	19	17	17	18	18	19
Shipbuilding	243	166	171	195	213	203	195
Tanks	12	9	7	7	9	9	10
Other Electronic Equipment	6	5	5	5	5	5	5
Other Ordinances	5	4	4	4	4	4	4
Other	1,763	1,654	1,429	1,361	1,340	1,302	1,284
Total :	2,499	2,251	1,998	1,951	1,949	1,911	1,891

Note: numbers may not add due to rounding

Table 70: Projected Defense Purchases of**316 Office administrative services**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	519	473	356	320	313	302	298
Indirect Purchases	2,106	1,911	1,708	1,669	1,663	1,632	1,628
Total :	2,625	2,383	2,064	1,989	1,976	1,934	1,926
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	16	13	13	14	13	13	13
Aircraft Parts	22	19	17	17	16	17	17
Ammunition	4	4	4	4	4	4	4
Communication Equipment	62	52	52	53	54	54	55
Missiles	45	41	39	41	42	44	44
Motor Vehicles	4	3	2	2	2	3	3
Shipbuilding	88	60	62	71	77	73	71
Tanks	6	4	3	3	4	4	4
Other Electronic Equipment	6	6	5	6	6	6	6
Other Ordinances	2	1	1	1	1	1	1
Other	1,853	1,708	1,509	1,458	1,444	1,414	1,410
Total :	2,106	1,911	1,708	1,669	1,663	1,632	1,628

Note: numbers may not add due to rounding

**Table 71: Projected Defense Purchases of
327 Other educational services**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2,689	2,432	1,975	1,847	1,830	1,797	1,790
Indirect Purchases	76	69	59	58	58	57	57
Total :	2,765	2,501	2,034	1,904	1,887	1,854	1,847
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	0	0	0	0	0	0	0
Aircraft Parts	1	1	1	1	1	1	1
Ammunition	0	0	0	0	0	0	0
Communication Equipment	2	1	1	1	1	1	1
Missiles	1	1	1	1	1	1	1
Motor Vehicles	0	0	0	0	0	0	0
Shipbuilding	2	1	1	1	1	1	1
Tanks	0	0	0	0	0	0	0
Other Electronic Equipment	0	0	0	0	0	0	0
Other Ordinances	0	0	0	0	0	0	0
Other	69	63	54	52	52	51	51
Total :	76	69	59	58	58	57	57

Note: numbers may not add due to rounding

**Table 72: Projected Defense Purchases of
75 Apparel accessories and other apparel**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2,127	2,042	1,842	1,769	1,727	1,682	1,649
Indirect Purchases	146	142	126	122	119	116	114
Total :	2,273	2,184	1,969	1,890	1,846	1,799	1,763
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	0	0	0	0	0	0	0
Aircraft Parts	0	0	0	0	0	0	0
Ammunition	0	0	0	0	0	0	0
Communication Equipment	0	0	0	0	0	0	0
Missiles	0	0	0	0	0	0	0
Motor Vehicles	0	0	0	0	0	0	0
Shipbuilding	0	0	0	0	0	0	0
Tanks	0	0	0	0	0	0	0
Other Electronic Equipment	0	0	0	0	0	0	0
Other Ordinances	0	0	0	0	0	0	0
Other	146	141	126	121	119	116	114
Total :	146	142	126	122	119	116	114

Note: numbers may not add due to rounding

Table 73: Projected Defense Purchases of**101 Other basic organic chemicals**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	11	10	8	7	7	7	6
Indirect Purchases	2,380	2,128	1,905	1,867	1,870	1,832	1,823
Total :	2,391	2,137	1,913	1,874	1,877	1,839	1,830
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	9	7	7	7	7	7	7
Aircraft Parts	49	41	37	35	34	34	34
Ammunition	30	30	28	29	28	27	29
Communication Equipment	77	64	63	64	65	64	65
Missiles	102	93	89	91	95	98	98
Motor Vehicles	21	16	13	13	15	16	16
Shipbuilding	145	98	100	112	122	115	110
Tanks	25	19	14	15	18	18	20
Other Electronic Equipment	23	20	20	20	20	20	20
Other Ordinances	5	4	4	4	3	3	3
Other	1,893	1,735	1,531	1,476	1,465	1,430	1,421
Total :	2,380	2,128	1,906	1,867	1,870	1,832	1,823

Note: numbers may not add due to rounding

**Table 74: Projected Defense Purchases of
107 Pharmaceuticals and medicines**

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	796	821	583	486	456	418	420
Indirect Purchases	1,466	1,396	1,270	1,225	1,212	1,190	1,185
Total :	2,261	2,217	1,854	1,711	1,668	1,609	1,606
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	0	0	0	0	0	0	0
Aircraft Parts	1	1	1	1	1	1	1
Ammunition	0	0	0	0	0	0	0
Communication Equipment	3	2	2	2	2	2	2
Missiles	1	1	1	1	1	1	1
Motor Vehicles	0	0	0	0	0	0	0
Shipbuilding	2	1	1	2	2	2	2
Tanks	0	0	0	0	0	0	0
Other Electronic Equipment	0	0	0	0	0	0	0
Other Ordinances	5	4	4	4	4	4	4
Other	1,453	1,385	1,260	1,215	1,201	1,180	1,175
Total :	1,466	1,396	1,270	1,225	1,212	1,190	1,185

Note: numbers may not add due to rounding

**Table 75: Projected Defense Purchases of
184 Other engine equipment**
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	101	92	67	62	61	58	57
Indirect Purchases	2,394	1,796	1,755	1,888	2,038	1,977	1,924
Total :	2,495	1,889	1,822	1,949	2,099	2,035	1,981
INDIRECT DEFENSE PURCHASES BY PURCHASING SECTOR							
Aircraft Engines	1	1	1	1	1	1	1
Aircraft Parts	3	2	2	2	2	2	2
Ammunition	1	1	0	1	0	0	1
Communication Equipment	6	5	5	5	5	5	5
Missiles	3	2	2	2	2	2	2
Motor Vehicles	8	6	5	5	5	6	6
Shipbuilding	1,426	970	1,001	1,141	1,241	1,181	1,138
Tanks	3	3	2	2	2	3	3
Other Electronic Equipment	1	1	1	1	1	1	1
Other Ordinances	2	2	1	1	1	1	1
Other	942	805	735	728	777	776	765
Total :	2,394	1,796	1,755	1,888	2,038	1,977	1,924

Note: numbers may not add due to rounding

SECTION IV: PROJECTIONS FOR INDIVIDUAL STATES (RDEPPS)

State Projections

The tables in this section give state-level estimates of defense and defense-related expenditures in calendar years 2013 through 2019. A separate table is provided for each of the 50 states and the District of Columbia; an additional table is provided for the United States as a whole. The tables are divided into two sections. The first section of each table presents estimates of direct defense purchases and pay and of indirect defense purchases for each year of the projection period (for purposes of comparison, projections of nondefense expenditures and of total output—total economic activity—also are provided). The second section provides estimates of the dollar value of direct and indirect purchases from the five industrial sectors projected to lead in defense sales in the state, and the five projected to lead in indirect sales stemming from DoD purchases, during the forecast period.

The industrial *sectors* represented in the tables are aggregates of the *industries* covered in Section II. Industrial projections are made for 360 industries. For purposes of the state-level reports, these are grouped into 110 industrial sectors. For example, industrial sector 54, “Aerospace products and parts,” used in the state tables, includes five industries: industry 235, “Aircraft”; industry 236, “Aircraft engines and engine parts”; industry 237, “Other aircraft parts and auxiliary equipment”; industry 238, “Guided Missiles and Space Vehicles”; and industry 239, “Propulsion units and parts for space vehicles and guided missiles.”

Table 1: Alabama Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	16,714	15,855	14,580	14,401	14,457	14,276	14,206
Indirect Defense Purchases Resulting from Direct Purchases	7,523	6,717	6,076	6,010	6,007	5,905	5,871
Induced Defense Purchases Resulting from Direct Pay	2,697	2,868	2,713	2,680	2,664	2,691	2,677
Total Nondefense Expenditures	854,018	881,792	902,965	918,540	957,474	969,139	1,002,638
Total Output	885,191	911,106	929,807	945,030	983,992	995,349	1,028,712
General government industry	4,560	4,989	4,883	4,879	4,911	4,986	4,990
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Professional, scientific and technical services	4,724	4,364	3,853	3,737	3,688	3,572	3,562
Ship and boat building	1,894	1,439	1,498	1,624	1,741	1,685	1,654
Administrative and support services	777	700	595	569	558	539	533
Aerospace products and parts	586	526	485	494	494	494	488
Transportation support, sightseeing, couriers	427	407	342	327	325	316	314
Indirect Defense Purchases Resulting from Direct Purchases							
Professional, scientific and technical services	1,985	1,804	1,559	1,511	1,503	1,467	1,454
Administrative and support services	1,503	1,329	1,314	1,352	1,353	1,334	1,328
Iron and steel	243	203	182	183	185	182	181
Nonferrous metals	227	195	181	184	187	189	191
Fabricated metal products	215	185	165	163	163	160	158

Note: Numbers may not add to totals due to roundings.

Table 2: Alaska Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	4,940	4,828	4,266	4,113	4,066	4,019	3,992
Indirect Defense Purchases Resulting from Direct Purchases	2,222	2,019	1,767	1,712	1,712	1,690	1,688
Induced Defense Purchases Resulting from Direct Pay	1,177	1,249	1,181	1,169	1,158	1,174	1,167
Total Nondefense Expenditures	537,298	555,807	570,488	581,242	610,579	615,997	640,460
Total Output	549,853	567,759	581,160	591,618	620,888	626,203	650,613
General government industry	2,810	2,844	2,666	2,632	2,614	2,612	2,602
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Administrative and support services	386	356	272	246	241	232	230
Maintenance and repair construction	355	332	255	232	226	217	215
Professional, scientific and technical services	184	174	145	138	136	131	130
Air transportation	155	145	127	121	120	118	117
New construction	125	119	97	88	83	79	74
Indirect Defense Purchases Resulting from Direct Purchases							
Administrative and support services	746	676	600	584	584	575	573
Crude oil extraction	577	528	454	438	441	441	445
Pipeline transportation	124	114	97	93	92	90	90
Petroleum and coal products	82	75	65	62	61	60	60
Waste management and remediation	79	71	61	58	58	56	56

Note: Numbers may not add to totals due to roundings.

Table 3: Arizona Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	18,141	17,071	15,974	15,901	15,901	15,910	15,955
Indirect Defense Purchases Resulting from Direct Purchases	5,730	5,090	4,645	4,611	4,632	4,590	4,599
Induced Defense Purchases Resulting from Direct Pay	2,245	2,392	2,266	2,236	2,224	2,244	2,234
Total Nondefense Expenditures	525,949	547,057	562,964	575,282	594,238	609,116	628,465
Total Output	552,244	571,749	585,999	598,195	617,177	632,032	651,422
General government industry	3,703	3,848	3,737	3,736	3,753	3,779	3,785
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Offices of physicians, dentists, and other health practitioners	3,888	3,731	3,514	3,434	3,418	3,389	3,378
Aerospace products and parts	3,691	3,258	3,082	3,185	3,214	3,319	3,324
Professional, scientific and technical services	2,661	2,385	2,297	2,317	2,321	2,298	2,344
Fabricated metal products	328	308	295	315	307	307	327
Air transportation	348	329	292	281	279	274	271
Indirect Defense Purchases Resulting from Direct Purchases							
Professional, scientific and technical services	1,118	986	929	937	946	943	957
Legal services	594	534	484	477	477	470	468
Management of companies and enterprises	279	246	226	225	226	224	224
Real estate	272	248	222	216	215	212	211
Wholesale trade	257	226	206	204	206	204	203

Note: Numbers may not add to totals due to roundings.

Table 4: Arkansas Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	3,405	3,346	3,046	2,974	2,956	2,937	2,937
Indirect Defense Purchases Resulting from Direct Purchases	2,467	2,186	1,957	1,924	1,926	1,897	1,886
Induced Defense Purchases Resulting from Direct Pay	1,106	1,175	1,111	1,095	1,088	1,097	1,090
Total Nondefense Expenditures	214,309	220,977	227,164	231,765	239,381	244,563	251,717
Total Output	221,335	227,717	233,309	237,792	245,384	250,526	257,660
General government industry	1,431	1,490	1,450	1,451	1,459	1,470	1,472
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Truck transportation	307	286	244	227	223	218	216
Petroleum and coal products	290	275	229	212	207	202	199
Fabricated metal products	195	183	177	190	185	185	198
Telecommunications	193	177	147	137	136	134	133
Dairy products, meat and seafood	128	124	119	116	116	115	115
Indirect Defense Purchases Resulting from Direct Purchases							
Management of companies and enterprises	266	235	216	215	216	214	214
Fabricated metal products	190	164	146	144	145	142	140
Iron and steel	149	124	111	112	113	111	110
Nonferrous metals	138	119	110	112	114	116	116
Wholesale trade	127	112	102	101	102	101	101

Note: Numbers may not add to totals due to roundings.

Table 5: California Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	70,531	65,941	61,845	61,401	61,385	61,033	60,780
Indirect Defense Purchases Resulting from Direct Purchases	38,924	34,657	31,418	30,976	31,026	30,630	30,513
Induced Defense Purchases Resulting from Direct Pay	13,880	14,805	14,019	13,808	13,748	13,828	13,763
Total Nondefense Expenditures	3,760,087	3,887,885	3,997,856	4,079,221	4,216,191	4,313,410	4,444,970
Total Output	3,881,544	4,002,261	4,103,998	4,184,060	4,320,864	4,417,508	4,548,732
General government industry	15,605	16,629	16,132	16,089	16,153	16,326	16,331
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Professional, scientific and technical services	12,847	11,384	11,186	11,248	11,196	10,988	10,961
Aerospace products and parts	9,335	8,180	7,935	8,250	8,301	8,515	8,493
Offices of physicians, dentists, and other health practioners	4,655	4,467	4,208	4,112	4,093	4,058	4,045
Communications and audio-video equipment	3,257	2,723	2,957	3,067	3,075	3,022	2,990
Ship and boat building	2,494	1,913	1,982	2,143	2,291	2,215	2,174
Indirect Defense Purchases Resulting from Direct Purchases							
Professional, scientific and technical services	5,399	4,705	4,525	4,548	4,563	4,511	4,473
Management of companies and enterprices	3,248	2,869	2,633	2,618	2,631	2,609	2,611
Real estate	2,579	2,350	2,105	2,052	2,044	2,009	2,001
Petroleum and coal products	2,303	2,115	1,823	1,741	1,724	1,688	1,673
Wholesale trade	1,887	1,662	1,511	1,502	1,513	1,497	1,491

Note: Numbers may not add to totals due to roundings.

Table 6: Colorado Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	15,433	14,645	13,411	13,169	13,140	13,071	13,046
Indirect Defense Purchases Resulting from Direct Purchases	5,978	5,319	4,850	4,794	4,807	4,753	4,744
Induced Defense Purchases Resulting from Direct Pay	2,859	3,042	2,881	2,847	2,829	2,861	2,847
Total Nondefense Expenditures	450,474	466,907	480,937	491,099	507,498	519,526	535,434
Total Output	474,812	489,983	502,154	511,987	528,359	540,293	556,152
General government industry	5,262	5,410	5,186	5,161	5,163	5,184	5,182
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Professional, scientific and technical services	2,578	2,283	2,254	2,277	2,274	2,241	2,253
Aerospace products and parts	2,083	1,879	1,594	1,566	1,577	1,598	1,594
Air transportation	1,242	1,146	990	941	937	924	917
Computer systems design and related services	704	621	642	653	656	651	654
Telecommunications	726	660	551	517	515	507	503
Indirect Defense Purchases Resulting from Direct Purchases							
Professional, scientific and technical services	1,083	944	912	921	927	920	919
Administrative and support services	503	455	404	393	393	386	385
Crude oil extraction	388	355	305	294	296	296	299
Management of companies and enterprises	367	324	298	296	298	295	295
Telecommunications	288	260	228	221	220	217	216

Note: Numbers may not add to totals due to roundings.

Table 7: Connecticut Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	15,565	13,210	13,081	13,580	13,937	13,804	13,697
Indirect Defense Purchases Resulting from Direct Purchases	5,661	4,999	4,603	4,574	4,587	4,539	4,528
Induced Defense Purchases Resulting from Direct Pay	1,221	1,313	1,248	1,233	1,237	1,244	1,246
Total Nondefense Expenditures	435,589	451,428	464,828	474,021	491,155	502,428	518,757
Total Output	458,026	470,962	483,770	493,414	510,926	522,025	538,240
General government industry	667	710	693	692	697	704	705
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Ship and boat building	5,822	4,420	4,605	4,993	5,352	5,181	5,085
Aerospace products and parts	3,947	3,423	3,428	3,597	3,615	3,703	3,688
Professional, scientific and technical services	2,305	2,005	2,070	2,123	2,129	2,111	2,130
Petroleum and coal products	566	536	446	413	404	393	389
Insurance	136	136	128	125	124	121	119
Indirect Defense Purchases Resulting from Direct Purchases							
Professional, scientific and technical services	969	829	837	858	868	867	869
Management of companies and enterprises	546	482	443	440	442	438	439
Aerospace products and parts	393	337	322	334	336	342	346
Insurance	379	350	313	301	297	290	287
Other chemicals	380	336	299	292	292	285	283

Note: Numbers may not add to totals due to roundings.

Table 9: District of Columbia Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	9,877	9,735	8,604	8,331	8,253	8,146	8,128
Indirect Defense Purchases Resulting from Direct Purchases	3,448	3,148	2,702	2,607	2,592	2,533	2,519
Induced Defense Purchases Resulting from Direct Pay	1,516	1,610	1,524	1,509	1,496	1,518	1,510
Total Nondefense Expenditures	203,085	208,950	213,125	216,480	221,924	226,254	231,491
Total Output	217,967	223,482	225,989	228,959	234,298	238,483	243,678
General government industry	3,405	3,690	3,521	3,482	3,476	3,517	3,506
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Professional, scientific and technical services	3,397	3,206	2,673	2,536	2,490	2,393	2,386
Computer systems design and related services	724	683	576	545	538	524	521
Administrative and support services	409	378	288	260	254	245	243
Fabricated metal products	270	253	247	265	259	260	277
Telecommunications	220	200	166	156	155	153	152
Indirect Defense Purchases Resulting from Direct Purchases							
Professional, scientific and technical services	1,427	1,325	1,081	1,025	1,015	982	974
Administrative and support services	791	716	636	618	617	607	605
Computer systems design and related services	172	155	134	130	128	125	125
Performing arts, spectator sports and museums	151	135	120	117	117	114	114
Information and data processing	143	128	115	112	112	110	109

Note: Numbers may not add to totals due to roundings.

Table 8: Delaware Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	1,235	1,223	1,106	1,075	1,068	1,059	1,052
Indirect Defense Purchases Resulting from Direct Purchases	1,187	1,066	958	940	938	923	919
Induced Defense Purchases Resulting from Direct Pay	455	485	458	451	449	452	449
Total Nondefense Expenditures	113,587	117,241	120,562	122,766	126,867	129,572	133,439
Total Output	116,473	120,023	123,091	125,239	129,330	132,013	135,867
General government industry	623	643	619	617	619	622	622
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Maintenance and repair construction	118	110	85	77	76	72	71
Apparel	63	62	59	58	57	56	55
Insurance	52	52	49	48	48	47	46
Petroleum and coal products	46	44	37	34	33	32	32
New construction	45	43	35	32	31	30	29
Indirect Defense Purchases Resulting from Direct Purchases							
Banks, credit cards and finance	241	217	195	192	192	189	188
Management of companies and enterprises	164	145	133	132	133	132	132
Insurance	146	135	120	116	114	112	110
Other chemicals	71	63	56	55	55	54	53
Real estate	54	49	44	43	43	42	42

Note: Numbers may not add to totals due to roundings.

Table 10: Florida Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	29,541	28,615	26,035	25,516	25,457	25,276	25,275
Indirect Defense Purchases Resulting from Direct Purchases	13,021	11,691	10,463	10,266	10,266	10,113	10,077
Induced Defense Purchases Resulting from Direct Pay	6,889	7,331	6,940	6,854	6,816	6,884	6,853
Total Nondefense Expenditures	1,300,289	1,345,378	1,384,327	1,412,571	1,458,296	1,490,967	1,534,387
Total Output	1,349,762	1,393,060	1,427,795	1,455,229	1,500,852	1,533,259	1,576,613
General government industry	11,188	11,690	11,437	11,463	11,544	11,641	11,670
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Professional, scientific and technical services	3,206	2,972	2,612	2,538	2,511	2,443	2,457
Water transportation	1,352	1,322	1,154	1,105	1,087	1,054	1,043
Aerospace products and parts	1,313	1,155	1,119	1,167	1,178	1,218	1,220
Computer systems design and related services	864	803	717	693	689	675	676
Maintenance and repair construction	946	886	685	628	614	589	579
Indirect Defense Purchases Resulting from Direct Purchases							
Administrative and support services	1,619	1,465	1,303	1,269	1,267	1,247	1,243
Professional, scientific and technical services	1,347	1,228	1,056	1,026	1,023	1,003	1,003
Management of companies and enterprises	937	828	760	755	759	753	753
Wholesale trade	936	825	750	745	751	743	740
Real estate	915	834	747	728	725	713	710

Note: Numbers may not add to totals due to roundings.

Table 11: Georgia Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	21,123	20,743	18,997	18,639	18,569	18,560	18,519
Indirect Defense Purchases Resulting from Direct Purchases	10,147	9,079	8,155	8,011	8,011	7,892	7,855
Induced Defense Purchases Resulting from Direct Pay	6,251	6,644	6,285	6,209	6,168	6,234	6,201
Total Nondefense Expenditures	879,224	906,893	930,163	947,420	977,412	997,547	1,025,799
Total Output	916,957	943,519	963,758	980,445	1,010,335	1,030,400	1,058,537
General government industry	10,931	11,374	10,877	10,804	10,799	10,861	10,847
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Aerospace products and parts	1,866	1,651	1,572	1,638	1,658	1,731	1,741
Professional, scientific and technical services	1,248	1,125	1,066	1,066	1,064	1,047	1,060
Air transportation	845	799	709	681	675	664	657
Petroleum and coal products	570	541	450	416	407	396	392
Administrative and support services	594	548	420	381	373	361	357
Indirect Defense Purchases Resulting from Direct Purchases							
Administrative and support services	1,149	1,040	928	906	905	892	890
Management of companies and enterprises	711	628	576	573	576	571	571
Legal services	659	592	537	529	529	521	520
Wholesale trade	590	520	472	470	473	468	466
Professional, scientific and technical services	524	465	431	431	433	430	433

Note: Numbers may not add to totals due to roundings.

Table 12: Hawaii Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	9,634	9,566	8,686	8,471	8,417	8,363	8,311
Indirect Defense Purchases Resulting from Direct Purchases	1,798	1,625	1,444	1,408	1,404	1,381	1,373
Induced Defense Purchases Resulting from Direct Pay	2,581	2,739	2,591	2,564	2,541	2,577	2,561
Total Nondefense Expenditures	171,733	176,428	179,669	182,426	186,865	190,313	194,559
Total Output	185,805	190,412	192,437	194,915	199,272	202,678	206,849
General government industry	6,184	6,391	6,029	5,958	5,927	5,947	5,927
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Maintenance and repair construction	645	604	463	421	412	394	390
Professional, scientific and technical services	385	354	318	309	304	295	291
Ship and boat building	272	210	217	234	250	242	237
Air transportation	225	213	189	182	180	177	175
Administrative and support services	268	248	189	171	167	161	159
Indirect Defense Purchases Resulting from Direct Purchases							
Administrative and support services	519	470	417	405	404	398	397
Professional, scientific and technical services	162	146	128	125	124	121	119
Real estate	105	95	85	83	83	81	81
Management of companies and enterprises	102	90	83	82	82	82	82
Performing arts, spectator sports and museums	102	92	81	79	79	77	77

Note: Numbers may not add to totals due to roundings.

Table 13: Idaho Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	1,368	1,350	1,237	1,208	1,203	1,196	1,191
Indirect Defense Purchases Resulting from Direct Purchases	809	723	653	643	644	637	635
Induced Defense Purchases Resulting from Direct Pay	511	544	515	508	504	509	506
Total Nondefense Expenditures	91,492	94,419	97,178	99,278	102,680	105,159	108,419
Total Output	94,193	97,045	99,592	101,646	105,042	107,510	110,760
General government industry	794	816	789	789	792	795	796
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Truck transportation	90	84	72	67	66	64	63
New construction	59	56	46	42	41	39	37
Professional, scientific and technical services	46	42	38	38	37	36	36
Maintenance and repair construction	46	44	34	31	30	29	29
Printing	28	24	21	20	21	20	20
Indirect Defense Purchases Resulting from Direct Purchases							
Management of companies and enterprises	92	81	75	74	75	74	74
Real estate	58	53	47	46	46	45	45
Semiconductors and other electronic components	54	47	45	46	48	48	50
Wholesale trade	54	48	43	43	43	43	43
Animal production	28	26	25	24	24	24	24

Note: Numbers may not add to totals due to roundings.

Table 14: Illinois Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	13,061	12,524	11,239	10,945	10,922	10,840	10,808
Indirect Defense Purchases Resulting from Direct Purchases	13,439	11,920	10,695	10,523	10,533	10,372	10,307
Induced Defense Purchases Resulting from Direct Pay	3,881	4,143	3,922	3,864	3,858	3,876	3,864
Total Nondefense Expenditures	1,337,799	1,380,617	1,419,297	1,446,698	1,494,617	1,527,015	1,572,567
Total Output	1,368,287	1,409,283	1,445,227	1,472,106	1,520,007	1,552,176	1,597,616
General government industry	2,943	3,184	3,101	3,094	3,110	3,151	3,153
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Petroleum and coal products	918	870	723	668	654	637	629
Air transportation	826	784	696	669	664	653	645
Truck transportation	756	705	600	560	549	538	531
Professional, scientific and technical services	697	635	584	574	569	554	551
Educational services	611	522	527	531	520	497	482
Indirect Defense Purchases Resulting from Direct Purchases							
Management of companies and enterprices	1,520	1,343	1,232	1,225	1,231	1,221	1,222
Fabricated metal products	1,033	890	792	784	785	771	761
Wholesale trade	835	736	669	665	670	663	660
Real estate	644	588	526	512	510	502	500
Petroleum and coal products	651	598	515	492	487	477	473

Note: Numbers may not add to totals due to roundings.

Table 15: Indiana Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	6,634	6,257	5,625	5,516	5,578	5,589	5,577
Indirect Defense Purchases Resulting from Direct Purchases	7,529	6,617	5,920	5,838	5,858	5,773	5,736
Induced Defense Purchases Resulting from Direct Pay	2,144	2,291	2,168	2,137	2,133	2,143	2,134
Total Nondefense Expenditures	621,185	639,417	656,024	668,056	690,526	704,863	726,314
Total Output	637,626	654,670	669,825	681,645	704,199	718,466	739,854
General government industry	1,552	1,718	1,689	1,689	1,703	1,733	1,735
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Professional, scientific and technical services	792	740	635	610	601	581	580
Aerospace products and parts	567	502	465	475	479	492	492
Truck transportation	526	491	418	390	382	375	370
Motor vehicle parts	353	309	301	301	321	327	332
Petroleum and coal products	296	281	234	216	212	206	204
Indirect Defense Purchases Resulting from Direct Purchases							
Iron and steel	808	676	604	608	615	606	600
Nonferrous metals	753	649	600	611	622	629	634
Fabricated metal products	583	503	448	443	444	436	430
Other chemicals	482	426	379	371	370	362	359
Management of companies and enterprises	336	297	272	271	272	270	270

Note: Numbers may not add to totals due to roundings.

Table 16: Iowa Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	2,716	2,520	2,331	2,293	2,286	2,267	2,263
Indirect Defense Purchases Resulting from Direct Purchases	2,700	2,388	2,150	2,117	2,118	2,082	2,065
Induced Defense Purchases Resulting from Direct Pay	848	902	852	838	834	837	831
Total Nondefense Expenditures	273,923	282,310	290,582	296,191	305,748	312,653	321,756
Total Output	280,209	288,137	295,932	301,456	311,003	317,855	326,932
General government industry	476	501	493	495	499	504	506
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Search, detection and navigation equipment	268	227	242	249	250	247	247
Truck transportation	296	276	235	220	215	211	208
Communications and audio-video equipment	252	200	204	212	218	222	227
Professional, scientific and technical services	165	145	145	147	146	144	144
Petroleum and coal products	178	169	140	130	127	124	122
Indirect Defense Purchases Resulting from Direct Purchases							
Insurance	209	194	173	167	164	160	159
Fabricated metal products	164	141	125	124	124	122	121
Wholesale trade	137	120	109	109	110	108	108
Real estate	124	113	102	99	98	97	96
Management of companies and enterprises	108	95	88	87	88	87	87

Note: Numbers may not add to totals due to roundings.

Table 17: Kansas Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	5,621	5,487	5,014	4,923	4,894	4,888	4,870
Indirect Defense Purchases Resulting from Direct Purchases	2,633	2,347	2,113	2,088	2,092	2,069	2,064
Induced Defense Purchases Resulting from Direct Pay	1,722	1,831	1,733	1,713	1,701	1,721	1,711
Total Nondefense Expenditures	232,357	240,183	246,822	251,849	260,074	265,935	273,814
Total Output	242,666	250,062	255,891	260,805	269,006	274,846	282,677
General government industry	3,198	3,260	3,087	3,058	3,047	3,052	3,045
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Aerospace products and parts	613	539	528	555	561	585	587
Professional, scientific and technical services	185	176	145	137	134	128	127
Truck transportation	178	167	142	132	130	127	125
Maintenance and repair construction	156	146	113	103	101	97	95
Petroleum and coal products	126	119	99	92	90	87	86
Indirect Defense Purchases Resulting from Direct Purchases							
Aerospace products and parts	275	235	225	233	235	239	242
Administrative and support services	217	195	184	189	192	192	194
Wholesale trade	145	127	116	115	116	115	114
Telecommunications	145	131	115	111	111	109	109
Management of companies and enterprises	107	95	87	87	87	86	86

Note: Numbers may not add to totals due to roundings.

Table 18: Kentucky Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	15,014	14,500	13,065	12,647	12,535	12,403	12,348
Indirect Defense Purchases Resulting from Direct Purchases	5,584	4,992	4,411	4,307	4,307	4,239	4,218
Induced Defense Purchases Resulting from Direct Pay	2,622	2,788	2,637	2,606	2,588	2,615	2,600
Total Nondefense Expenditures	502,180	521,290	536,489	548,605	566,202	579,897	597,979
Total Output	525,457	543,618	556,648	568,211	585,682	599,200	617,193
General government industry	4,807	4,849	4,558	4,507	4,481	4,476	4,463
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Offices of physicians, dentists, and other health practioners	5,307	5,093	4,797	4,688	4,666	4,627	4,612
Administrative and support services	810	747	570	516	505	488	482
Professional, scientific and technical services	585	561	450	423	415	399	402
Air transportation	428	395	341	324	322	318	315
Petroleum and coal products	425	403	335	310	303	295	292
Indirect Defense Purchases Resulting from Direct Purchases							
Administrative and support services	1,567	1,418	1,259	1,226	1,225	1,206	1,202
Iron and steel	247	206	185	186	188	185	183
Nonferrous metals	230	198	183	187	190	192	194
Professional, scientific and technical services	246	232	182	171	169	164	164
Waste management and remediation	236	213	180	170	168	164	163

Note: Numbers may not add to totals due to roundings.

Table 19: Louisiana Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	6,363	6,148	5,449	5,282	5,272	5,215	5,180
Indirect Defense Purchases Resulting from Direct Purchases	7,437	6,743	5,916	5,732	5,716	5,629	5,605
Induced Defense Purchases Resulting from Direct Pay	2,017	2,139	2,019	1,991	1,974	1,989	1,974
Total Nondefense Expenditures	542,667	561,492	578,413	592,448	612,389	627,222	646,544
Total Output	558,435	576,488	591,758	605,406	625,295	640,004	659,254
General government industry	2,489	2,567	2,456	2,442	2,441	2,452	2,450
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Water transportation	886	867	754	721	710	688	681
New construction	499	475	385	350	332	316	298
Maintenance and repair construction	269	252	196	180	176	169	166
Truck transportation	218	204	173	162	158	155	153
Ship and boat building	192	154	155	166	176	169	166
Indirect Defense Purchases Resulting from Direct Purchases							
Petroleum and coal products	2,811	2,580	2,225	2,125	2,103	2,060	2,041
Crude oil extraction	1,039	950	817	788	794	793	800
Administrative and support services	330	298	265	257	257	253	252
Other chemicals	255	225	200	196	196	191	190
Management of companies and enterprises	215	190	174	173	174	173	173

Note: Numbers may not add to totals due to roundings.

Table 20: Maine Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	5,875	5,007	5,001	5,223	5,453	5,338	5,269
Indirect Defense Purchases Resulting from Direct Purchases	869	774	695	684	685	676	673
Induced Defense Purchases Resulting from Direct Pay	586	623	590	583	579	585	582
Total Nondefense Expenditures	123,664	127,588	130,266	132,653	136,381	139,234	142,941
Total Output	131,015	134,004	136,561	139,152	143,107	145,842	149,473
General government industry	904	1,018	1,005	1,005	1,014	1,034	1,036
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Ship and boat building	3,954	3,031	3,148	3,402	3,633	3,511	3,444
Offices of physicians, dentists, and other health practioners	430	412	388	380	378	375	373
Maintenance and repair construction	86	81	62	57	56	53	52
Professional, scientific and technical services	55	51	46	45	45	44	45
Truck transportation	57	54	46	43	42	41	40
Indirect Defense Purchases Resulting from Direct Purchases							
Management of companies and enterprices	73	65	59	59	59	59	59
Paper	71	63	56	55	55	54	54
Aerospace products and parts	65	56	54	56	56	57	58
Real estate	66	60	53	52	51	50	50
Wholesale trade	54	48	43	43	43	43	43

Note: Numbers may not add to totals due to roundings.

Table 21: Maryland Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	25,207	24,144	22,009	21,588	21,563	21,327	21,262
Indirect Defense Purchases Resulting from Direct Purchases	10,130	9,101	8,122	7,959	7,950	7,814	7,777
Induced Defense Purchases Resulting from Direct Pay	3,644	3,876	3,670	3,629	3,604	3,649	3,630
Total Nondefense Expenditures	630,717	651,729	667,359	679,237	698,486	713,398	732,222
Total Output	669,778	688,929	701,229	712,479	731,670	746,253	764,956
General government industry	6,684	7,327	7,125	7,098	7,129	7,237	7,234
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Professional, scientific and technical services	7,497	6,869	6,204	6,070	6,007	5,842	5,838
Ship and boat building	1,378	1,050	1,091	1,182	1,267	1,226	1,203
Computer systems design and related services	1,165	1,102	939	894	885	863	861
Telecommunications	1,107	982	843	801	800	790	789
Offices of physicians, dentists, and other health practioners	740	710	669	654	651	645	643
Indirect Defense Purchases Resulting from Direct Purchases							
Professional, scientific and technical services	3,150	2,839	2,509	2,454	2,448	2,398	2,383
Legal services	1,099	987	894	881	882	869	866
Administrative and support services	1,104	999	887	863	862	848	846
Information and data processing	625	558	503	493	493	482	480
Real estate	441	401	359	351	350	344	343

Note: Numbers may not add to totals due to roundings.

Table 22: Massachusetts Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	17,680	15,837	15,317	15,420	15,439	15,421	15,449
Indirect Defense Purchases Resulting from Direct Purchases	9,237	8,111	7,589	7,585	7,619	7,544	7,513
Induced Defense Purchases Resulting from Direct Pay	1,908	2,051	1,950	1,922	1,929	1,937	1,938
Total Nondefense Expenditures	712,102	739,037	760,894	776,411	804,254	823,107	849,910
Total Output	741,123	765,189	785,903	801,503	829,419	848,177	874,975
General government industry	1,332	1,454	1,422	1,421	1,430	1,452	1,453
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Professional, scientific and technical services	6,445	5,613	5,749	5,852	5,841	5,755	5,737
Aerospace products and parts	2,434	2,140	2,088	2,194	2,220	2,321	2,334
Search, detection and navigation equipment	1,171	1,017	989	1,005	1,004	991	1,004
Communications and audio-video equipment	684	548	575	594	605	605	612
Telecommunications	616	499	463	451	458	459	471
Indirect Defense Purchases Resulting from Direct Purchases							
Professional, scientific and technical services	2,708	2,320	2,325	2,366	2,380	2,362	2,342
Management of companies and enterprises	861	760	698	694	697	691	692
Securities, investments, funds and trusts	507	452	410	406	407	401	399
Real estate	470	429	384	374	372	366	365
Wholesale trade	403	355	322	320	323	319	318

Note: Numbers may not add to totals due to roundings.

Table 23: Michigan Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	7,057	6,650	5,823	5,697	5,821	5,860	5,918
Indirect Defense Purchases Resulting from Direct Purchases	7,937	6,977	6,263	6,169	6,195	6,101	6,060
Induced Defense Purchases Resulting from Direct Pay	2,829	3,031	2,871	2,828	2,835	2,837	2,832
Total Nondefense Expenditures	893,511	919,648	944,546	960,920	992,982	1,011,919	1,041,961
Total Output	911,398	936,337	959,535	975,648	1,007,871	1,026,753	1,056,806
General government industry	1,528	1,697	1,676	1,678	1,694	1,725	1,728
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Other transportation equipment	918	677	513	557	689	761	837
Petroleum and coal products	613	581	483	447	438	426	421
Professional, scientific and technical services	522	472	445	447	447	442	452
Truck transportation	411	384	327	305	299	293	289
Air transportation	333	315	280	269	266	262	259
Indirect Defense Purchases Resulting from Direct Purchases							
Management of companies and enterprises	1,089	962	883	878	882	874	875
Fabricated metal products	730	629	560	554	555	545	538
Motor vehicle parts	748	628	554	536	548	534	523
Wholesale trade	489	431	392	389	392	388	387
Real estate	342	311	279	272	270	266	265

Note: Numbers may not add to totals due to roundings.

Table 24: Minnesota Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	4,774	4,553	4,111	4,009	3,978	3,928	3,930
Indirect Defense Purchases Resulting from Direct Purchases	5,447	4,839	4,362	4,298	4,304	4,245	4,225
Induced Defense Purchases Resulting from Direct Pay	1,367	1,460	1,382	1,360	1,359	1,362	1,359
Total Nondefense Expenditures	521,388	539,136	555,173	566,753	586,277	599,878	618,735
Total Output	533,063	550,043	565,079	576,475	595,974	609,467	628,299
General government industry	726	769	757	759	766	775	777
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Offices of physicians, dentists, and other health practitioners	527	506	477	466	464	460	458
Fabricated metal products	374	352	321	333	323	322	340
Petroleum and coal products	381	361	301	278	272	265	262
Air transportation	298	282	250	240	238	234	232
Truck transportation	280	261	222	207	203	199	197
Indirect Defense Purchases Resulting from Direct Purchases							
Management of companies and enterprises	990	875	803	798	802	796	796
Fabricated metal products	376	324	288	285	286	281	277
Wholesale trade	331	292	265	264	266	263	262
Petroleum and coal products	333	305	263	251	249	244	242
Real estate	263	239	214	209	208	204	204

Note: Numbers may not add to totals due to roundings.

Table 25: Mississippi Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	10,141	8,796	8,495	8,746	9,062	8,895	8,806
Indirect Defense Purchases Resulting from Direct Purchases	2,191	1,958	1,746	1,710	1,710	1,684	1,677
Induced Defense Purchases Resulting from Direct Pay	1,227	1,305	1,235	1,219	1,212	1,223	1,217
Total Nondefense Expenditures	195,155	201,222	206,326	210,172	216,639	220,999	227,071
Total Output	208,746	213,304	217,823	221,869	228,644	232,822	238,791
General government industry	2,028	2,157	2,092	2,087	2,095	2,117	2,118
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Ship and boat building	5,315	4,049	4,209	4,560	4,884	4,727	4,640
Transportation support, sightseeing, couriers	512	473	416	416	414	414	414
Professional, scientific and technical services	301	271	259	261	262	260	267
Computer systems design and related services	302	286	237	222	219	213	211
Petroleum and coal products	214	203	169	156	153	149	147
Indirect Defense Purchases Resulting from Direct Purchases							
Administrative and support services	246	223	197	192	192	188	188
Professional, scientific and technical services	126	112	105	106	107	107	109
Management of companies and enterprises	106	94	86	85	86	85	85
Petroleum and coal products	94	86	74	71	70	69	68
Fabricated metal products	94	81	72	71	71	70	69

Note: Numbers may not add to totals due to roundings.

Table 26: Missouri Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	14,894	13,877	13,048	13,075	13,066	13,146	13,203
Indirect Defense Purchases Resulting from Direct Purchases	6,285	5,554	5,081	5,036	5,050	4,990	4,975
Induced Defense Purchases Resulting from Direct Pay	2,221	2,365	2,238	2,208	2,197	2,214	2,203
Total Nondefense Expenditures	531,274	549,741	565,036	576,344	595,351	608,534	626,788
Total Output	554,756	571,611	585,491	596,763	615,783	628,994	647,281
General government industry	2,709	2,836	2,740	2,732	2,740	2,761	2,762
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Aerospace products and parts	3,674	3,234	3,143	3,300	3,340	3,494	3,516
Professional, scientific and technical services	2,416	2,113	2,155	2,205	2,212	2,194	2,220
Offices of physicians, dentists, and other health practioners	1,189	1,141	1,074	1,050	1,045	1,036	1,033
Fabricated metal products	513	481	452	477	464	463	491
Petroleum and coal products	540	511	425	393	384	374	370
Indirect Defense Purchases Resulting from Direct Purchases							
Professional, scientific and technical services	1,015	873	872	891	901	901	906
Management of companies and enterprices	835	738	677	673	677	671	672
Wholesale trade	298	262	238	237	239	236	235
Fabricated metal products	291	251	223	221	221	217	214
Banks, credit cards and finance	233	211	189	186	186	183	182

Note: Numbers may not add to totals due to roundings.

Table 27: Montana Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	1,277	1,233	1,144	1,123	1,128	1,133	1,132
Indirect Defense Purchases Resulting from Direct Purchases	650	586	522	509	509	501	499
Induced Defense Purchases Resulting from Direct Pay	338	359	340	336	333	337	335
Total Nondefense Expenditures	62,711	64,942	66,852	68,353	70,540	72,166	74,270
Total Output	64,982	67,126	68,863	70,327	72,515	74,142	76,240
General government industry	584	602	581	580	582	585	585
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Publishing, except software	200	171	185	191	202	214	217
Truck transportation	60	56	47	44	43	43	42
Maintenance and repair construction	61	57	44	40	40	38	37
New construction	57	54	44	40	39	37	36
Professional, scientific and technical services	41	37	35	35	35	34	35
Indirect Defense Purchases Resulting from Direct Purchases							
Petroleum and coal products	99	91	78	75	74	72	72
Real estate	42	39	35	34	34	33	33
Wholesale trade	35	31	28	28	28	28	28
Information and data processing	30	27	24	24	24	23	23
Rail transportation	30	27	24	23	23	23	23

Note: Numbers may not add to totals due to roundings.

Table 28: Nebraska Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	3,092	3,029	2,736	2,652	2,633	2,609	2,597
Indirect Defense Purchases Resulting from Direct Purchases	1,678	1,504	1,342	1,313	1,311	1,290	1,282
Induced Defense Purchases Resulting from Direct Pay	857	911	862	851	845	853	848
Total Nondefense Expenditures	168,804	174,063	178,964	182,595	188,439	192,674	198,178
Total Output	174,459	179,528	183,923	187,430	193,249	197,445	202,924
General government industry	1,292	1,342	1,291	1,286	1,287	1,295	1,295
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Computer systems design and related services	338	314	280	271	269	264	264
Truck transportation	235	219	186	174	170	167	165
Professional, scientific and technical services	229	216	181	172	169	163	163
Rail transportation	193	180	153	143	141	138	136
New construction	98	93	76	70	68	65	62
Indirect Defense Purchases Resulting from Direct Purchases							
Management of companies and enterprises	160	141	130	129	130	128	129
Rail transportation	148	132	116	112	112	111	110
Professional, scientific and technical services	96	89	73	69	69	67	66
Wholesale trade	91	80	73	73	73	72	72
Insurance	88	82	73	70	69	68	67

Note: Numbers may not add to totals due to roundings.

Table 29: Nevada Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	4,976	4,763	4,264	4,160	4,148	4,125	4,110
Indirect Defense Purchases Resulting from Direct Purchases	2,243	2,014	1,806	1,774	1,774	1,749	1,741
Induced Defense Purchases Resulting from Direct Pay	1,025	1,090	1,031	1,018	1,012	1,022	1,017
Total Nondefense Expenditures	200,089	207,290	213,710	218,271	225,392	230,544	237,229
Total Output	208,352	215,173	220,827	225,238	232,342	237,455	244,112
General government industry	1,753	1,785	1,726	1,725	1,731	1,737	1,739
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Aerospace products and parts	941	846	731	724	729	741	739
Accommodation	492	460	398	377	372	365	361
Air transportation	219	207	184	177	176	173	171
Professional, scientific and technical services	211	193	176	173	172	167	167
Transportation support, sightseeing, couriers	201	191	161	155	154	150	149
Indirect Defense Purchases Resulting from Direct Purchases							
Administrative and support services	340	308	273	265	265	261	260
Accommodation	257	232	210	208	209	206	206
Management of companies and enterprises	248	219	201	200	201	199	199
Banks, credit cards and finance	139	125	113	111	111	109	108
Real estate	123	112	101	98	98	96	95

Note: Numbers may not add to totals due to roundings.

Table 30: New Hampshire Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	2,356	2,196	1,990	1,955	1,951	1,934	1,942
Indirect Defense Purchases Resulting from Direct Purchases	1,227	1,084	983	971	974	963	960
Induced Defense Purchases Resulting from Direct Pay	383	410	389	383	382	385	383
Total Nondefense Expenditures	102,755	106,321	109,562	111,784	115,615	118,281	121,960
Total Output	106,711	110,008	112,916	115,084	118,912	121,553	125,237
General government industry	410	431	427	430	435	439	441
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Professional, scientific and technical services	358	319	308	308	307	301	300
Search, detection and navigation equipment	302	251	258	272	274	276	286
Aerospace products and parts	254	230	194	190	191	193	193
Petroleum and coal products	137	129	108	100	97	95	94
Computer systems design and related services	118	112	96	91	91	89	89
Indirect Defense Purchases Resulting from Direct Purchases							
Professional, scientific and technical services	150	132	125	125	125	123	123
Management of companies and enterprices	115	101	93	93	93	92	92
Fabricated metal products	102	88	78	77	77	76	75
Real estate	74	68	61	59	59	58	58
Wholesale trade	72	63	57	57	57	57	57

Note: Numbers may not add to totals due to roundings.

Table 31: New Jersey Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	12,500	12,016	10,741	10,413	10,355	10,251	10,267
Indirect Defense Purchases Resulting from Direct Purchases	10,313	9,236	8,265	8,118	8,124	8,004	7,988
Induced Defense Purchases Resulting from Direct Pay	3,082	3,296	3,125	3,086	3,083	3,105	3,099
Total Nondefense Expenditures	1,084,915	1,120,890	1,152,297	1,175,415	1,214,412	1,242,716	1,280,659
Total Output	1,110,843	1,145,465	1,174,451	1,197,054	1,235,994	1,264,097	1,302,034
General government industry	2,425	2,714	2,647	2,636	2,650	2,699	2,697
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Professional, scientific and technical services	2,893	2,678	2,377	2,337	2,331	2,291	2,349
Air transportation	920	859	751	717	713	702	695
Search, detection and navigation equipment	718	605	645	669	670	665	668
Telecommunications	450	411	341	320	318	313	311
Truck transportation	418	390	332	310	304	297	294
Indirect Defense Purchases Resulting from Direct Purchases							
Professional, scientific and technical services	1,216	1,107	962	945	950	941	959
Management of companies and enterprises	1,147	1,013	930	925	929	922	922
Wholesale trade	751	662	601	598	602	596	594
Real estate	674	614	550	536	534	525	523
Other chemicals	611	540	480	470	469	458	454

Note: Numbers may not add to totals due to roundings.

Table 32: New Mexico Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	4,260	4,159	3,858	3,790	3,777	3,755	3,743
Indirect Defense Purchases Resulting from Direct Purchases	2,184	1,951	1,766	1,738	1,745	1,729	1,729
Induced Defense Purchases Resulting from Direct Pay	1,025	1,091	1,034	1,021	1,013	1,025	1,018
Total Nondefense Expenditures	154,328	159,397	163,701	167,270	172,789	177,155	182,643
Total Output	161,847	166,639	170,395	173,857	179,362	183,700	189,168
General government industry	1,976	2,084	2,017	2,011	2,018	2,036	2,036
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Professional, scientific and technical services	982	868	859	865	862	846	844
Maintenance and repair construction	154	144	111	102	99	95	94
New construction	123	116	95	87	83	79	75
Administrative and support services	119	109	84	76	74	72	71
Truck transportation	83	78	66	62	60	59	58
Indirect Defense Purchases Resulting from Direct Purchases							
Professional, scientific and technical services	413	359	347	350	351	347	344
Crude oil extraction	382	349	300	290	292	291	294
Administrative and support services	230	208	185	180	180	177	177
Semiconductors and other electronic components	126	107	104	107	110	112	114
Petroleum and coal products	113	104	89	85	85	83	82

Note: Numbers may not add to totals due to roundings.

Table 33: New York Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	18,191	16,920	15,576	15,292	15,178	14,951	14,822
Indirect Defense Purchases Resulting from Direct Purchases	19,285	17,228	15,513	15,258	15,272	15,046	14,977
Induced Defense Purchases Resulting from Direct Pay	6,556	7,051	6,703	6,610	6,650	6,672	6,692
Total Nondefense Expenditures	2,024,776	2,099,010	2,164,290	2,209,283	2,293,071	2,342,801	2,420,633
Total Output	2,068,764	2,140,227	2,202,085	2,246,430	2,330,155	2,379,458	2,457,118
General government industry	3,942	4,084	3,892	3,862	3,856	3,874	3,868
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Aerospace products and parts	2,572	2,153	2,306	2,412	2,384	2,316	2,245
Professional, scientific and technical services	1,264	1,146	1,066	1,054	1,045	1,020	1,018
Telecommunications	1,104	1,010	841	788	783	770	763
New construction	881	832	686	633	611	589	565
Air transportation	818	768	685	660	652	641	635
Indirect Defense Purchases Resulting from Direct Purchases							
Securities, investments, funds and trusts	2,493	2,224	2,018	1,996	2,004	1,972	1,961
Management of companies and enterprises	2,401	2,121	1,947	1,935	1,945	1,928	1,930
Banks, credit cards and finance	1,768	1,597	1,435	1,410	1,410	1,389	1,382
Telecommunications	1,380	1,248	1,094	1,058	1,055	1,038	1,035
Real estate	1,338	1,220	1,092	1,064	1,060	1,042	1,038

Note: Numbers may not add to totals due to roundings.

Table 34: North Carolina Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	16,802	16,555	14,941	14,512	14,400	14,279	14,204
Indirect Defense Purchases Resulting from Direct Purchases	8,495	7,584	6,785	6,651	6,649	6,538	6,498
Induced Defense Purchases Resulting from Direct Pay	6,046	6,422	6,071	5,991	5,947	6,002	5,964
Total Nondefense Expenditures	863,212	888,664	912,859	930,626	961,053	981,367	1,009,553
Total Output	894,758	919,391	940,808	957,933	988,203	1,008,335	1,036,364
General government industry	9,942	10,127	9,631	9,560	9,540	9,557	9,544
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Petroleum and coal products	1,200	1,138	947	876	857	835	825
New construction	591	561	456	415	396	377	357
Maintenance and repair construction	598	561	432	395	387	371	365
Professional, scientific and technical services	508	474	408	393	387	374	372
Truck transportation	398	372	316	295	289	283	280
Indirect Defense Purchases Resulting from Direct Purchases							
Management of companies and enterprices	910	803	737	733	737	731	731
Administrative and support services	698	632	561	545	544	536	534
Banks, credit cards and finance	641	579	520	511	511	503	501
Other chemicals	459	406	361	353	353	345	342
Food services and drinking places	417	375	328	319	318	312	312

Note: Numbers may not add to totals due to roundings.

Table 35: North Dakota Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	1,288	1,268	1,138	1,101	1,089	1,080	1,071
Indirect Defense Purchases Resulting from Direct Purchases	536	480	429	420	420	413	411
Induced Defense Purchases Resulting from Direct Pay	390	414	392	388	385	389	387
Total Nondefense Expenditures	55,932	57,810	59,520	60,819	62,756	64,224	66,095
Total Output	58,162	59,984	61,490	62,738	64,661	66,117	67,974
General government industry	737	752	711	703	700	701	699
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Truck transportation	132	123	105	98	96	94	93
Maintenance and repair construction	86	81	62	57	56	53	53
New construction	72	69	56	51	49	47	45
Apparel	25	25	23	23	22	22	21
Rail transportation	25	23	20	18	18	18	18
Indirect Defense Purchases Resulting from Direct Purchases							
Wholesale trade	42	37	33	33	33	33	33
Administrative and support services	39	36	32	31	31	30	30
Management of companies and enterprises	31	28	25	25	25	25	25
Real estate	28	26	23	22	22	22	22
Rental and leasing of goods	27	25	22	22	22	21	21

Note: Numbers may not add to totals due to roundings.

Table 36: Ohio Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	12,573	12,237	11,272	11,029	10,992	10,950	10,928
Indirect Defense Purchases Resulting from Direct Purchases	12,625	11,121	10,030	9,902	9,927	9,790	9,734
Induced Defense Purchases Resulting from Direct Pay	3,918	4,179	3,953	3,896	3,885	3,904	3,888
Total Nondefense Expenditures	1,085,352	1,118,380	1,146,866	1,167,454	1,205,140	1,229,520	1,265,364
Total Output	1,114,871	1,146,172	1,172,371	1,192,556	1,230,232	1,254,438	1,290,170
General government industry	3,713	4,131	4,051	4,046	4,074	4,147	4,149
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Professional, scientific and technical services	1,820	1,610	1,594	1,612	1,610	1,587	1,595
Petroleum and coal products	1,159	1,099	914	846	828	806	796
Truck transportation	693	647	550	514	504	493	487
Computer systems design and related services	394	368	319	304	301	294	293
Semiconductors and other electronic components	351	305	315	324	326	326	328
Indirect Defense Purchases Resulting from Direct Purchases							
Management of companies and enterprices	1,377	1,217	1,117	1,110	1,116	1,106	1,107
Fabricated metal products	1,133	976	869	860	861	846	835
Professional, scientific and technical services	765	665	645	652	656	651	651
Iron and steel	668	559	500	503	509	501	497
Nonferrous metals	623	537	496	505	515	521	524

Note: Numbers may not add to totals due to roundings.

Table 37: Oklahoma Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	7,065	7,146	6,547	6,411	6,394	6,408	6,393
Indirect Defense Purchases Resulting from Direct Purchases	3,632	3,258	2,882	2,816	2,821	2,786	2,780
Induced Defense Purchases Resulting from Direct Pay	2,144	2,278	2,155	2,130	2,114	2,139	2,127
Total Nondefense Expenditures	338,714	349,576	358,001	365,162	375,867	384,190	394,668
Total Output	351,610	362,305	369,628	376,562	387,243	395,567	406,011
General government industry	4,066	4,364	4,211	4,188	4,197	4,245	4,241
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Aerospace products and parts	431	384	360	374	378	394	396
Maintenance and repair construction	397	372	286	261	255	244	241
Professional, scientific and technical services	329	305	269	263	261	255	260
Truck transportation	189	176	150	140	137	134	132
Air transportation	151	142	126	120	120	118	116
Indirect Defense Purchases Resulting from Direct Purchases							
Crude oil extraction	812	743	639	616	621	620	626
Administrative and support services	285	258	230	225	225	222	221
Fabricated metal products	179	154	137	136	136	134	132
Management of companies and enterprises	143	126	116	115	116	115	115
Petroleum and coal products	139	128	110	105	104	102	101

Note: Numbers may not add to totals due to roundings.

Table 38: Oregon Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	3,240	3,069	2,737	2,654	2,657	2,634	2,619
Indirect Defense Purchases Resulting from Direct Purchases	3,295	2,909	2,638	2,611	2,628	2,605	2,604
Induced Defense Purchases Resulting from Direct Pay	981	1,051	998	982	979	983	978
Total Nondefense Expenditures	293,125	302,253	311,266	317,960	329,599	338,027	349,484
Total Output	300,540	309,215	317,568	324,127	335,773	344,166	355,606
General government industry	900	963	957	963	974	987	991
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Printing	448	389	337	325	328	326	323
Waste management and remediation	245	214	147	123	116	112	110
Truck transportation	184	171	146	136	134	131	129
Air transportation	156	146	128	122	121	120	118
Ship and boat building	137	110	111	118	126	121	119
Indirect Defense Purchases Resulting from Direct Purchases							
Semiconductors and other electronic components	347	297	287	295	305	309	316
Management of companies and enterprises	322	285	261	260	261	259	259
Wholesale trade	202	178	161	161	162	160	159
Real estate	195	177	159	155	154	151	151
Wood products	131	119	100	95	94	91	90

Note: Numbers may not add to totals due to roundings.

Table 39: Pennsylvania Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	17,486	16,738	15,144	14,904	14,877	14,832	14,870
Indirect Defense Purchases Resulting from Direct Purchases	13,576	12,074	10,796	10,609	10,616	10,455	10,394
Induced Defense Purchases Resulting from Direct Pay	3,821	4,077	3,860	3,808	3,797	3,822	3,809
Total Nondefense Expenditures	1,342,726	1,387,592	1,425,242	1,453,068	1,499,317	1,533,841	1,579,629
Total Output	1,377,516	1,420,435	1,454,992	1,482,329	1,528,538	1,562,886	1,608,643
General government industry	3,521	3,961	3,909	3,910	3,945	4,024	4,028
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Professional, scientific and technical services	3,613	3,323	2,967	2,886	2,849	2,761	2,747
Aerospace products and parts	1,513	1,327	1,300	1,365	1,379	1,436	1,441
Fabricated metal products	1,060	994	938	992	965	964	1,022
Petroleum and coal products	901	853	709	656	642	626	618
Truck transportation	685	639	543	507	497	487	480
Indirect Defense Purchases Resulting from Direct Purchases							
Professional, scientific and technical services	1,518	1,374	1,200	1,167	1,161	1,133	1,121
Management of companies and enterprises	1,250	1,104	1,013	1,007	1,012	1,004	1,004
Fabricated metal products	711	613	545	540	541	531	524
Petroleum and coal products	683	627	540	516	511	500	496
Iron and steel	720	602	538	541	548	540	535

Note: Numbers may not add to totals due to roundings.

Table 40: Rhode Island Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	1,744	1,754	1,593	1,555	1,549	1,546	1,547
Indirect Defense Purchases Resulting from Direct Purchases	1,037	927	819	800	800	788	784
Induced Defense Purchases Resulting from Direct Pay	459	489	463	457	455	459	457
Total Nondefense Expenditures	105,239	108,435	110,881	112,811	116,057	118,449	121,579
Total Output	108,510	111,627	113,777	115,646	118,885	121,264	124,389
General government industry	675	766	752	750	755	771	771
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Professional, scientific and technical services	362	344	280	263	257	246	244
Search, detection and navigation equipment	141	120	118	122	123	122	126
New construction	62	59	48	44	42	41	39
Maintenance and repair construction	55	52	40	37	36	35	34
Petroleum and coal products	41	39	32	30	29	29	28
Indirect Defense Purchases Resulting from Direct Purchases							
Professional, scientific and technical services	152	142	113	106	105	101	100
Management of companies and enterprises	124	110	101	100	101	100	100
Fabricated metal products	66	57	51	50	50	49	49
Real estate	61	56	50	49	48	48	47
Wholesale trade	49	43	39	39	39	39	39

Note: Numbers may not add to totals due to roundings.

Table 41: South Carolina Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	8,178	7,990	7,183	7,001	6,995	6,941	6,929
Indirect Defense Purchases Resulting from Direct Purchases	3,810	3,392	3,004	2,940	2,939	2,885	2,863
Induced Defense Purchases Resulting from Direct Pay	2,123	2,260	2,139	2,114	2,102	2,124	2,114
Total Nondefense Expenditures	314,847	324,893	333,920	340,270	351,318	358,624	369,053
Total Output	328,920	338,521	346,224	352,294	363,316	370,540	380,927
General government industry	3,803	3,946	3,822	3,817	3,831	3,856	3,860
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Professional, scientific and technical services	871	826	680	642	630	604	603
Petroleum and coal products	673	638	531	491	481	468	463
Telecommunications	390	349	306	294	292	286	284
Maintenance and repair construction	274	257	198	181	177	170	167
Communications and audio-video equipment	232	228	185	176	173	164	164
Indirect Defense Purchases Resulting from Direct Purchases							
Professional, scientific and technical services	366	341	275	260	257	248	246
Fabricated metal products	276	238	212	209	210	206	203
Administrative and support services	209	189	169	166	165	163	162
Plastic products	186	162	146	145	145	142	140
Wholesale trade	169	149	135	135	136	134	134

Note: Numbers may not add to totals due to roundings.

Table 42: South Dakota Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	1,292	1,267	1,164	1,136	1,130	1,123	1,119
Indirect Defense Purchases Resulting from Direct Purchases	616	553	497	487	487	479	477
Induced Defense Purchases Resulting from Direct Pay	367	390	369	363	361	364	362
Total Nondefense Expenditures	67,115	69,276	71,292	72,780	75,254	76,906	79,207
Total Output	69,396	71,493	73,327	74,772	77,237	78,876	81,168
General government industry	520	535	515	513	514	516	516
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Dairy products, meat and seafood	219	212	203	199	198	196	196
Retail trade	98	95	91	89	88	88	88
Truck transportation	61	57	49	45	45	44	43
Maintenance and repair construction	67	63	48	44	43	41	41
New construction	39	37	31	28	27	26	25
Indirect Defense Purchases Resulting from Direct Purchases							
Banks, credit cards and finance	127	114	103	101	101	100	99
Wholesale trade	38	34	31	30	31	30	30
Animal production	33	31	29	28	28	28	28
Management of companies and enterprises	35	31	28	28	28	28	28
Real estate	30	27	24	23	23	23	23

Note: Numbers may not add to totals due to roundings.

Table 43: Tennessee Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	7,408	7,147	6,504	6,338	6,312	6,244	6,226
Indirect Defense Purchases Resulting from Direct Purchases	5,507	4,875	4,409	4,351	4,358	4,293	4,265
Induced Defense Purchases Resulting from Direct Pay	2,059	2,196	2,079	2,048	2,042	2,053	2,044
Total Nondefense Expenditures	479,870	495,235	509,171	519,016	536,795	548,136	564,961
Total Output	494,933	509,510	522,217	531,813	549,570	560,787	577,552
General government industry	2,021	2,156	2,145	2,161	2,188	2,216	2,226
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Air transportation	1,139	1,047	900	855	852	840	834
Professional, scientific and technical services	874	760	781	794	790	776	768
Petroleum and coal products	861	816	678	628	614	598	591
Truck transportation	518	483	411	384	377	369	364
New construction	229	217	178	164	158	152	145
Indirect Defense Purchases Resulting from Direct Purchases							
Professional, scientific and technical services	367	314	316	321	322	319	313
Fabricated metal products	395	341	303	300	301	295	291
Transportation support, sightseeing, couriers	357	332	291	280	277	272	270
Wholesale trade	325	287	260	259	261	258	257
Real estate	292	265	238	233	232	228	228

Note: Numbers may not add to totals due to roundings.

Table 44: Texas Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	53,942	51,035	47,444	47,187	47,107	47,155	47,017
Indirect Defense Purchases Resulting from Direct Purchases	32,554	29,250	25,986	25,404	25,437	25,129	25,080
Induced Defense Purchases Resulting from Direct Pay	11,930	12,693	12,012	11,862	11,787	11,901	11,839
Total Nondefense Expenditures	2,354,538	2,435,581	2,509,123	2,567,018	2,655,776	2,721,586	2,808,034
Total Output	2,453,449	2,528,917	2,594,916	2,651,846	2,740,503	2,806,149	2,892,335
General government industry	19,115	19,663	18,832	18,735	18,739	18,814	18,804
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Aerospace products and parts	13,773	11,964	11,871	12,403	12,458	12,730	12,666
Professional, scientific and technical services	4,033	3,644	3,430	3,421	3,411	3,355	3,394
New construction	1,532	1,448	1,191	1,098	1,058	1,018	976
Truck transportation	1,424	1,329	1,131	1,055	1,034	1,014	1,000
Air transportation	1,215	1,152	1,023	983	975	959	948
Indirect Defense Purchases Resulting from Direct Purchases							
Crude oil extraction	5,917	5,410	4,653	4,487	4,521	4,518	4,558
Petroleum and coal products	4,061	3,728	3,215	3,070	3,039	2,977	2,950
Legal services	2,092	1,878	1,702	1,678	1,678	1,654	1,649
Administrative and support services	2,021	1,826	1,636	1,599	1,597	1,572	1,567
Professional, scientific and technical services	1,695	1,506	1,387	1,383	1,390	1,377	1,385

Note: Numbers may not add to totals due to roundings.

Table 45: Utah Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	4,813	4,799	4,456	4,392	4,392	4,400	4,421
Indirect Defense Purchases Resulting from Direct Purchases	2,686	2,379	2,162	2,151	2,167	2,156	2,162
Induced Defense Purchases Resulting from Direct Pay	1,247	1,326	1,255	1,238	1,231	1,242	1,236
Total Nondefense Expenditures	276,632	284,953	291,607	296,939	306,389	312,633	321,378
Total Output	285,455	293,509	299,529	304,774	314,236	320,486	329,249
General government industry	1,963	2,196	2,143	2,135	2,146	2,186	2,185
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Professional, scientific and technical services	896	802	784	803	812	814	848
New construction	223	212	172	157	150	143	135
Communications and audio-video equipment	202	179	165	165	166	162	163
Truck transportation	179	167	142	133	130	127	126
Air transportation	143	136	121	116	115	113	112
Indirect Defense Purchases Resulting from Direct Purchases							
Professional, scientific and technical services	377	331	317	325	331	334	346
Banks, credit cards and finance	199	179	161	158	158	156	155
Management of companies and enterprises	169	149	137	136	137	136	136
Information and data processing	139	113	113	125	132	139	140
Real estate	115	105	94	91	91	89	89

Note: Numbers may not add to totals due to roundings.

Table 46: Vermont Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	700	664	609	601	598	596	598
Indirect Defense Purchases Resulting from Direct Purchases	372	330	298	294	294	290	289
Induced Defense Purchases Resulting from Direct Pay	169	180	171	168	168	169	168
Total Nondefense Expenditures	43,387	44,828	46,120	47,039	48,597	49,713	51,204
Total Output	44,643	46,013	47,208	48,114	49,668	50,779	52,270
General government industry	183	193	188	189	190	192	192
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Fabricated metal products	77	72	70	75	73	73	77
Leather products	42	42	40	39	38	37	37
Petroleum and coal products	48	46	38	35	34	33	33
Aerospace products and parts	35	31	30	31	31	32	33
Computers and peripheral equipment	41	29	29	30	31	31	31
Indirect Defense Purchases Resulting from Direct Purchases							
Real estate	31	29	26	25	25	25	24
Wholesale trade	26	23	21	20	21	20	20
Fabricated metal products	26	22	20	20	20	19	19
Semiconductors and other electronic components	19	16	15	16	16	16	17
Insurance	15	14	13	12	12	12	12

Note: Numbers may not add to totals due to roundings.

Table 47: Virginia Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	73,355	70,232	63,768	62,563	62,599	61,789	61,687
Indirect Defense Purchases Resulting from Direct Purchases	20,851	18,830	16,495	16,083	16,057	15,767	15,727
Induced Defense Purchases Resulting from Direct Pay	9,361	9,939	9,403	9,300	9,221	9,343	9,285
Total Nondefense Expenditures	1,141,935	1,177,418	1,204,726	1,225,538	1,258,218	1,284,862	1,316,130
Total Output	1,245,729	1,276,618	1,294,568	1,313,654	1,346,263	1,371,926	1,402,992
General government industry	19,393	20,970	20,377	20,314	20,403	20,669	20,669
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Professional, scientific and technical services	21,420	19,940	17,293	16,695	16,480	15,967	16,004
Computer systems design and related services	7,647	7,153	6,311	6,075	6,042	5,909	5,924
Ship and boat building	5,811	4,523	4,638	4,999	5,333	5,150	5,060
Telecommunications	3,571	3,209	2,707	2,554	2,546	2,509	2,500
Apparel	1,757	1,732	1,626	1,592	1,564	1,527	1,498
Indirect Defense Purchases Resulting from Direct Purchases							
Professional, scientific and technical services	9,001	8,241	6,995	6,750	6,716	6,555	6,532
Administrative and support services	2,036	1,842	1,644	1,607	1,607	1,584	1,580
Computer systems design and related services	1,819	1,628	1,467	1,444	1,440	1,414	1,415
Management of companies and enterprises	1,047	925	849	844	848	841	842
Information and data processing	707	629	569	561	562	552	551

Note: Numbers may not add to totals due to roundings.

Table 48: Washington Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	16,690	16,205	15,182	15,116	15,116	15,174	15,119
Indirect Defense Purchases Resulting from Direct Purchases	6,696	5,956	5,387	5,333	5,342	5,292	5,286
Induced Defense Purchases Resulting from Direct Pay	4,294	4,566	4,321	4,270	4,243	4,290	4,269
Total Nondefense Expenditures	632,202	653,244	669,139	681,971	703,717	719,090	739,994
Total Output	660,597	680,404	694,457	707,165	728,916	744,323	765,112
General government industry	7,993	8,361	8,028	7,984	7,990	8,046	8,040
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Aerospace products and parts	3,708	3,230	3,213	3,376	3,401	3,509	3,507
Professional, scientific and technical services	578	535	472	456	449	434	430
Ship and boat building	480	391	390	415	439	422	415
New construction	370	351	287	264	253	243	231
Maintenance and repair construction	394	369	285	261	256	245	241
Indirect Defense Purchases Resulting from Direct Purchases							
Aerospace products and parts	1,132	969	927	962	968	985	997
Administrative and support services	601	544	482	469	468	461	459
Management of companies and enterprises	453	400	367	365	367	364	364
Real estate	391	357	320	311	310	305	304
Wholesale trade	352	310	282	280	282	279	278

Note: Numbers may not add to totals due to roundings.

Table 49: West Virginia Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	1,147	1,130	1,027	1,003	1,000	994	992
Indirect Defense Purchases Resulting from Direct Purchases	1,286	1,144	1,015	994	994	980	975
Induced Defense Purchases Resulting from Direct Pay	381	407	385	380	379	382	380
Total Nondefense Expenditures	110,077	113,817	117,008	119,524	123,471	126,289	130,088
Total Output	112,916	116,513	119,450	121,917	125,860	128,660	132,450
General government industry	459	490	483	485	490	496	498
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Professional, scientific and technical services	108	100	88	85	84	82	82
Truck transportation	87	81	69	64	63	62	61
New construction	62	58	48	44	43	41	40
Maintenance and repair construction	53	50	39	36	35	34	33
Fabricated metal products	31	29	28	29	28	28	30
Indirect Defense Purchases Resulting from Direct Purchases							
Coal mining	84	75	65	62	62	61	61
Nonmetallic mineral mining	70	63	54	51	50	50	49
Iron and steel	67	56	50	51	51	50	50
Nonferrous metals	63	54	50	51	52	52	53
Metal ore mining	62	53	48	48	49	48	48

Note: Numbers may not add to totals due to roundings.

Table 50: Wisconsin Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	6,124	5,318	4,421	4,336	4,548	4,615	4,597
Indirect Defense Purchases Resulting from Direct Purchases	5,628	4,964	4,454	4,389	4,393	4,325	4,296
Induced Defense Purchases Resulting from Direct Pay	1,361	1,452	1,374	1,353	1,350	1,354	1,349
Total Nondefense Expenditures	479,059	495,136	510,012	520,059	537,273	549,136	565,866
Total Output	492,346	506,976	520,368	530,255	547,689	559,548	576,216
General government industry	776	817	804	807	814	822	825
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Petroleum and coal products	1,006	954	793	734	718	699	691
Motor vehicles	1,341	792	521	616	848	956	937
Truck transportation	446	416	354	331	324	318	313
Other transportation equipment	391	321	221	200	214	221	233
Offices of physicians, dentists, and other health practitioners	197	189	178	174	173	171	171
Indirect Defense Purchases Resulting from Direct Purchases							
Fabricated metal products	628	541	482	477	477	469	463
Management of companies and enterprises	550	486	446	444	446	442	442
Real estate	406	368	331	325	324	319	318
Paper	309	274	244	238	238	234	233
Wholesale trade	270	238	216	215	217	214	213

Note: Numbers may not add to totals due to roundings.

Table 51: Wyoming Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	865	848	762	737	731	725	721
Indirect Defense Purchases Resulting from Direct Purchases	898	811	709	688	688	681	680
Induced Defense Purchases Resulting from Direct Pay	250	266	251	249	247	249	248
Total Nondefense Expenditures	63,427	66,048	68,291	70,170	72,537	74,560	76,932
Total Output	65,445	67,978	70,017	71,847	74,207	76,219	78,584
General government industry	454	466	446	443	443	445	445
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Rail transportation	67	63	53	50	49	48	47
Truck transportation	54	50	43	40	39	38	38
New construction	45	42	35	32	31	30	29
Maintenance and repair construction	45	42	33	30	30	28	28
Accommodation	21	19	17	16	16	15	15
Indirect Defense Purchases Resulting from Direct Purchases							
Crude oil extraction	299	273	235	227	228	228	230
Petroleum and coal products	85	78	67	64	63	62	62
Coal mining	59	52	45	44	44	43	43
Rail transportation	48	43	38	37	37	36	36
Nonmetallic mineral mining	49	44	38	36	35	35	34

Note: Numbers may not add to totals due to roundings.

Table 52: Entire United States Summary

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
AGGREGATE MEASURES							
Total Direct Expenditures (Purchases and Pay)	633,906	602,145	553,593	546,100	546,332	543,009	541,641
Indirect Defense Purchases Resulting from Direct Purchases	351,919	314,041	281,694	276,866	277,124	273,198	272,098
Induced Defense Purchases Resulting from Direct Pay	135,823	144,689	136,979	135,201	134,573	135,709	135,119
Total Nondefense Expenditures	30,500,822	31,519,624	32,393,868	33,039,639	34,149,878	34,896,134	35,953,929
Total Output	31,622,470	32,580,498	33,366,134	33,997,806	35,107,908	35,848,049	36,902,788
General government industry	191,152	201,758	194,804	194,052	194,546	196,264	196,231
LARGEST PURCHASES BY INDUSTRIAL SECTORS							
Total Direct Expenditures (Purchases and Pay)							
Professional, scientific and technical services	95,354	86,717	79,989	78,962	78,366	76,559	76,778
Aerospace products and parts	55,959	49,034	47,657	49,598	49,911	51,231	51,109
Ship and boat building	28,912	22,218	22,982	24,844	26,559	25,677	25,207
Offices of physicians, dentists, and other health practioners	20,285	19,465	18,335	17,919	17,834	17,683	17,626
Computer systems design and related services	17,536	16,382	14,480	13,955	13,874	13,574	13,596
Indirect Defense Purchases Resulting from Direct Purchases							
Professional, scientific and technical services	40,069	35,840	32,355	31,925	31,936	31,430	31,335
Management of companies and enterprices	25,206	22,266	20,436	20,319	20,419	20,246	20,262
Administrative and support services	21,350	19,272	17,383	17,083	17,079	16,830	16,788
Real estate	15,655	14,264	12,774	12,455	12,408	12,196	12,151
Wholesale trade	15,533	13,680	12,434	12,359	12,454	12,323	12,273

Note: Numbers may not add to totals due to roundings.

APPENDIX A

**MAPPING FROM INDUSTRIES TO INDUSTRIAL SECTORS,
WITH NAICS CODES**

Mapping From Industries to Industrial Sectors, with NAICS Codes

National		NAICS Classification		State Level	
Ind #	Industry Title	Classification Code(s)	Sec #	Industrial Sector Title	
160	1 Oilseed farming	111111-2	1	Crop Production	
	2 Grain farming	11113-6, 11119	1		
	3 Vegetable and melon farming	1112	1		
	4 Fruit and nut farming	11131-2, 111331-6, 111339	1		
	5 Greenhouse, nursery, and floriculture production	1114	1		
	6 Tobacco farming	11191	1		
	7 Cotton farming	11192	1		
	8 Sugarcane and sugar beet farming	11193, 111991	1		
	9 All other crop farming	11194, 111992, 111998	1		
	10 Cattle ranching and dairy farming	11211, 11212, 11213	2	Animal Production	
	11 Poultry and egg production	1123	2		
	12 Animal production, except cattle and poultry and eggs	1122, 1124-5, 1129	2		
	13 Forestry and logging	1131-3	3	Forestry, fishing and agriculture support activities	
	14 Fishing, hunting and trapping	1141-2	3		
	15 Support activities for agriculture and forestry	115	3		
	16 Crude oil extraction	211pt	4	Crude oil extraction	
	17 Natural gas extraction	211pt	5	Natural gas extraction	
	18 Coal mining	2121	6	Coal Mining	
	19 Iron ore mining	21221	7	Metal Ore Mining	
	20 Copper, nickel, lead, and zinc mining	21223	7	Nonmetallic mineral mining	
	21 Gold, silver, and other metal ore mining	21222, 21229	7		
	22 Stone mining and quarrying	21231	8		
	23 Sand, gravel, clay, and ceramic and refractory minerals mining and quarrying	21232	8		
	24 Other nonmetallic mineral mining and quarrying	21239	8	Support activities for mining	
	25 Drilling oil and gas wells	213111	9		
	26 Support activities for oil and gas operations	213112	9		
	27 Support activities for other mining	213113-5	9	Electric utilities	
	28 Electric power generation, transmission, and distribution	2211	10		
	29 Natural gas distribution	2212	11	Natural gas distribution	
	30 Water, sewage and other systems	2213	12	Water, sewage and other systems	
	31 New residential construction	23*	13	New construction	
	32 New non-residential building construction	23*	13		
	33 Highway, street, bridge, tunnel, water, sewer, pipeline and other construction	23*	13		
	34 Maintenance and repair of residential structures	23*	14	Maintenance and repair construction	
	35 Maintenance and repair of nonresidential buildings, infrastructure and other	23*	14		
	36 Dog and cat food	311111	16	Other foods	
	37 Other animal food	311119	16		
	38 Flour milling and malt	31121	16		
	39 Wet corn milling	311221	16		
	40 Soybean and other oilseed processing	311222-3	16		
	41 Fats and oils refining and blending	311225	16		
	42 Breakfast cereals	311230	16		
	43 Sugar manufacturing	311311-3	16		
	44 Chocolate	31132, 31133	16		
	45 Nonchocolate confectionery	31134	16		
	46 Frozen food manufacturing	31141	16		
	47 Fruit and vegetable canning, pickling, and drying	31142	16		
	48 Fluid milk and butter	311511-2	15	Dairy products, meat and seafood	
	49 Cheese	311513	15		
	50 Dry, condensed, and evaporated dairy product manufacturing	311514	15		
	51 Ice cream and frozen desserts	311520	15		

Mapping From Industries to Industrial Sectors, with NAICS Codes

Ind #	Industry Title	Classification Code(s)	Sec #	Industrial Sector Title
52	Animal (except poultry) slaughtering, rendering, and processing	311611-3	15	
53	Poultry processing	311615	15	
54	Seafood product preparation and packaging	3117	15	
55	Bread and bakery products	31181	16	Other foods
56	Cookies, crackers and tortillas	31182, 31183	16	
57	Snack foods	31191	16	
58	Coffee and tea	31192	16	
59	Flavoring syrup and concentrate	31193	16	
60	Seasonings and dressings	31194	16	
61	All other food	31199	16	
62	Soft drinks and ice	31211	17	Beverages
63	Breweries	31212	17	
64	Wineries	31213	17	
65	Distilleries	31214	17	
66	Tobacco product manufacturing	3122	18	Tobacco
67	Fiber, yarn, and thread mills	3131	19	Textiles and textile products
68	Fabric mills	3132	19	
69	Textile and fabric finishing mills	3133	19	
70	Carpet and rug mills	31411	19	
71	Curtain and linen mills	31412	19	
72	Other textile products	31491, 31499	19	
73	Apparel knitting mills	31511, 31519	20	Apparel
74	Cut and sew apparel	3152	20	
75	Apparel accessories and other apparel	3159	20	
76	Footwear and other leather products	3161	21	Leather products
77	Sawmills and wood preservation	3211	22	Wood products
78	Veneer, plywood, particleboard, and engineered wood products	3212	22	
79	Wood windows and doors and millwork	32191	22	
80	Wood containers and pallets	32192	22	
81	Manufactured homes (mobile homes)	321991	22	
82	Prefabricated wood buildings	321992	22	
83	All other miscellaneous wood products	321999	22	
84	Pulp mills	32211	23	Paper
85	Paper and paperboard mills	32212, 32213	23	
86	Paperboard container manufacturing	32221	23	
87	Coated and laminated paper, packaging paper and plastics film	322221-2	23	
88	All other paper bag and coated and treated paper manufacturing	322223-6	23	
89	Stationery product manufacturing	32223	23	
90	Sanitary paper product manufacturing	322291	23	
91	All other converted paper products	322299	23	
92	Printing	32311□	24	Printing
93	Support activities for printing	32312	24	
94	Petroleum refineries	32411	25	Petroleum and coal products
95	Asphalt products	324121, 324122	25	
96	Lubricating and other petroleum products	324191, 324199	25	
97	Petrochemicals	32511	28	Other chemicals
98	Industrial gases	32512	28	
99	Synthetic dyes and pigments	32513	28	
100	Other basic inorganic chemicals	32518	28	
101	Other basic organic chemicals	32519	28	
102	Plastics materials and resins	325211	26	Resin, synthetic rubber and fibers
103	Synthetic rubber	325212	26	

Mapping From Industries to Industrial Sectors, with NAICS Codes

Ind #	Industry Title	Classification Code(s)	Sec #	Industrial Sector Title
104	Artificial and synthetic fibers and filaments	32522	26	
105	Fertilizers	325311-4	28	Other chemicals
106	Pesticides and other agricultural chemicals	325320	28	
107	Pharmaceuticals and medicines	325411-4	27	Pharmaceuticals
108	Paints and coatings	32551	28	Other chemicals
109	Adhesives	32552	28	
110	Soaps and cleaning compounds	32561	28	
111	Toilet preparations	32562	28	
112	Printing ink	32591	28	
113	All other chemical products and preparations	32592, 32599	28	
114	Plastics packaging materials and unlaminated film and sheet	32611	29	Plastic products
115	Plastics pipe, fittings, and profile shapes	32612	29	
116	Laminated plastics plate, sheet (except packaging), and shapes	32613	29	
117	Plastic foam products	32614, 32615	29	
118	Plastic bottles	32616	29	
119	Other plastics products	32619	29	
120	Tires	32621	30	Rubber products
121	Rubber and plastics hoses and beltings	32622	30	
122	Other rubber products	32629	30	
123	Pottery, ceramics, and plumbing fixtures	32711	31	Nonmetallic mineral products
124	Clay building materials and refractories	327122,4,5	31	
125	Glass and glass products, exc containers	327211-2, 327215	31	
126	Glass containers	327213	31	
127	Cement	32731	31	
128	Ready-mix concrete	32732	31	
129	Concrete pipe, brick, and blocks	32733	31	
130	Other concrete products	32739	31	
131	Lime and gypsum products	3274	31	
132	Abrasive products	32791	31	
133	Cut stone and stone products	327991	31	
134	Other non-metallic mineral products	327992,3,9	31	
135	Primary ferrous metal products	3311, 3312	32	Iron and steel
136	Primary aluminum production	331311,2,4	33	Nonferrous metals
137	Aluminum product manufacturing from purchased aluminum	331315, 331316, 331319	33	
138	Primary smelting and refining of copper	331411	33	
139	Primary smelting and refining of nonferrous metal (except copper and aluminum)	331419	33	
140	Copper rolling, drawing, extruding and alloying	33142	33	
141	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding and alloying	33149	33	
142	Ferrous metal foundries	33151	32	Iron and steel
143	Nonferrous metal foundries	33152	33	Nonferrous metals
144	Forging and stamping	33211	34	Fabricated metal products
145	Cutlery, utensils, pots, and pans	332211, 332214	34	
146	Handtools	332212-3	34	
147	Plate work and fabricated structural products	33231	34	
148	Ornamental and architectural metal products	33232	34	
149	Power boilers and heat exchangers	33241	34	
150	Metal tanks (heavy gauge)	33242	34	
151	Metal cans, boxes, and other metal containers (light gauge)	33243	34	
152	Ammunition	332992-3	34	
153	Arms, ordnance, and accessories	332994-5	34	
154	Hardware manufacturing	3325	34	
155	Springs and wire products	3326	34	

Mapping From Industries to Industrial Sectors, with NAICS Codes

Ind #	Industry Title	Classification Code(s)	Sec #	Industrial Sector Title
156	Machine shops	33271	34	
157	Turned products and screws, nuts, and bolts	33272	34	
158	Coating, engraving, heat treating and allied activities	3328	34	
159	Metal valves	33291-3, 332919	34	
160	Ball and roller bearings	332991	34	
161	Fabricated pipe and pipe fittings	332996	34	
162	Other fabricated metal products	332997-9	34	
163	Farm machinery and equipment	333111	35	Agriculture, construction and mining machinery
164	Lawn and garden equipment	333112	35	
165	Construction machinery	33312	35	
166	Mining and oil and gas field machinery	33313	35	
167	Other industrial machinery	33321, 333291-4, 333298	36	Industrial machinery
168	Plastics and rubber industry machinery	33322	36	
169	Semiconductor machinery manufacturing	333295	36	
170	Vending, commercial, industrial, and office machinery	333311-3	37	Commercial and service industry machinery
171	Optical instruments and lenses	333314	37	
172	Photographic and photocopying equipment	333315	37	
173	Other commercial and service industry machinery	333319	38	Ventilation, heating, air-conditioning and ventilation equipment
174	Air purification and ventilation equipment	333411-2	38	
175	Heating equipment (except warm air furnaces)	333414	38	
176	Air conditioning, refrigeration, and warm air heating equipment	333415	38	
177	Industrial molds	333511	39	Metalworking machinery
178	Metal cutting and forming machine tools	333512-3	39	
179	Special tools, dies, jigs, and fixtures	333514	39	
180	Cutting tool and machine tool accessories	333515	39	
181	Rolling mill and other metalworking machinery	333516, 333518	39	
182	Turbine and turbine generator set units	333611	40	Engine, turbine and power transmission equipment
183	Speed changers and mechanical power transmission equipment	333612, 333613	40	
184	Other engine equipment	333618	40	
185	Pump and pumping equipment	333911, 333913	41	Other general purpose machinery
186	Air and gas compressors	333912	41	
187	Material handling equipment	333921-4	41	
188	Power-driven handtool manufacturing	333991	41	
189	Other general purpose machinery	333992, 333997, 333999	41	
190	Packaging machinery	333993	41	
191	Industrial process furnaces and ovens	333994	41	
192	Fluid power process machinery	333995-6	41	
193	Computers	334111	42	Computers and peripheral equipment
194	Computer storage devices	334112	42	
195	Computer terminals and other computer peripherals	334113, 334119	42	
196	Telephone apparatus	33421	43	Communications and audio-video equipment
197	Broadcast and wireless communications equipment	33422	43	
198	Other communications equipment	33429	43	
199	Audio and video equipment	3343	43	
200	Semiconductors and electron tubes	334411, 334413	44	Semiconductors and other electronic components
201	All other electronic components	334414,2,4-6,7-9	44	
202	Electromedical and electrotherapeutic apparatus	334510	45	Electromedical and electrotherapeutic apparatusw
203	Search, detection, and navigation instruments	334511	46	Search, detection and navigation equipment
204	Automatic environmental controls	334512	47	Measuring and control instruments
205	Industrial process variable instruments	334513	47	
206	Totalizing fluid meters and counting devices	334514	47	
207	Electricity and signal testing instruments	334515	47	

Mapping From Industries to Industrial Sectors, with NAICS Codes

Ind #	Industry Title	Classification Code(s)	Sec #	Industrial Sector Title
208	Analytical laboratory instruments	334516	47	
209	Irradiation apparatus manufacturing	334517	45	Electromedical and electrotherapeutic apparatusw
210	Watch, clock, and other measuring and controlling devices	334518-9	47	Measuring and control instruments
211	Software, audio, and video media reproducing	334611-2	48	Magnetic and optical media
212	Magnetic and optical recording media	334613	48	
213	Electric lamp bulbs and parts	33511	51	Other electrical equipment and components
214	Lighting fixtures	33512	51	
215	Small electrical appliances	33521	49	Household appliances
216	Household cooking appliances	335221	49	
217	Household refrigerators and home freezers	335222	49	
218	Household laundry equipment	335224	49	
219	Other major household appliances	335228	49	
220	Power, distribution, and specialty transformers	335311	50	Electrical equipment
221	Motors and generators	335312	50	
222	Switchgear and switchboard apparatus	335313	50	
223	Relays and industrial controls	335314	50	
224	Storage batteries	335911	51	Other electrical equipment and components
225	Primary battery manufacturing	335912	51	
226	Communication and energy wires and cables	33592	51	
227	Wiring devices	33593	51	
228	Carbon and graphite and miscellaneous electrical equipment	335991, 335999	51	
229	Automobiles	336111-2	52	Motor vehicles
230	Heavy duty trucks	336120	52	
231	Motor vehicle bodies	336211	52	
232	Truck trailer manufacturing	336212	52	
233	Motor homes, trailers and campers	336213, 336214	52	
234	Motor vehicle parts	3363	53	Motor vehicle parts
235	Aircraft	336411	54	Aerospace products and parts
236	Aircraft engines and engine parts	336412	54	
237	Other aircraft parts and auxiliary equipment	336413	54	
238	Guided missiles and space vehicles	336414	54	
239	Propulsion units and parts for space vehicles and guided missiles	336415, 336419	54	
240	Railroad rolling stock	3365	56	Other transportation equipment
241	Ship building and repairing	336611	55	Ship and boat building
242	Boat building	336612	55	
243	Motorcycles, bicycles, and parts	336991	56	Other transportation equipment
244	Military armored vehicles, tanks, and tank components	336992	56	
245	All other transportation equipment	336999	56	
246	Wood kitchen cabinet and countertops	33711	57	Furniture
247	Household and institutional furniture	33712	57	
248	Office furniture (including fixtures)	33721	57	
249	Mattresses, blinds and shades	33791, 33792	57	
250	Laboratory apparatus and furniture	339111	58	Medical equipment and supplies, dental labs
251	Surgical and medical instruments	339112	58	
252	Surgical appliances and supplies	339113	58	
253	Dental equipment and supplies	339114	58	
254	Ophthalmic goods	339115	59	Ophthalmic goods
255	Dental laboratories	339116	58	Medical equipment and supplies, dental labs
256	Jewelry and silverware	33991	60	Miscellaneous manufacturing
257	Sporting and athletic goods	33992	60	
258	Dolls, toys, and games	33993	60	
259	Office supplies (except paper)	33994	60	

Mapping From Industries to Industrial Sectors, with NAICS Codes

Ind #	Industry Title	Classification Code(s)	Sec #	Industrial Sector Title
260	Sign manufacturing	33995	60	
261	Gasket, packing, and sealing devices	339991	60	
262	Musical instruments	339992	60	
263	All other miscellaneous manufacturing	339993, 339995, 339999	60	
264	Broom, brush, and mop manufacturing	339994	60	
265	Wholesale trade	42	61	Wholesale trade
266	Retail trade	44, 45	62	Retail trade
267	Air transportation	481	63	Air transportation
268	Rail transportation	482	64	Rail transportation
269	Water transportation	483	65	Water transportation
270	Truck transportation	484	66	Truck transportation
271	Transit and ground passenger transportation	485	67	Transit and ground passenger transportation
272	Pipeline transportation	486	68	Pipeline transportation
273	Scenic and sightseeing transportation and support activities for transportation	487, 488	69	Transportation support, sightseeing, couriers
274	Couriers and messengers	492	69	
275	Warehousing and storage	493	70	Warehousing and storage
276	Newspaper publishers	51111	71	Publishing, except software
277	Periodical publishers	51112	72	Software
278	Book publishers	51113	71	Publishing, except software
279	Directory, mailing list, and other publishers	51114, 51119	71	
280	Software publishers	51121	71	
281	Motion picture and video industries	5121	73	Motion picture and sound recording
282	Sound recording industries	5122	73	
283	Radio and television broadcasting	5151	74	
284	Cable and internet	5152, 516	74	
285	Telecommunications	517	75	
286	Data processing, hosting and internet service providers	5181, 5182	76	
287	Other information services	519	76	
288	Monetary authorities and depository credit intermediation	521, 5221	77	Banks, credit cards and finance
289	Nondepository credit intermediation and related activities	5222-3	77	
290	Securities, commodity contracts, investments, and related activities	523	78	Securities, investments, funds and trusts
291	Insurance carriers	5241	79	Insurance
292	Insurance agencies, brokerages, and related activities	5242	79	
293	Funds, trusts, and other financial vehicles	525	78	Securities, investments, funds and trusts
294	Real estate	531	80	Real estate
295	Owner-occupied dwellings	500800	81	Owner-occupied dwellings
296	Automotive equipment rental and leasing	5321	82	Rental and leasing of goods
297	General and consumer goods rental except video tapes and discs	53221-2, 53229, 5323	82	
298	Video tape and disc rental	53223	82	
299	Commercial and industrial machinery and equipment rental and leasing	5324	82	
300	Lessors of nonfinancial intangible assets	533	83	Royalties
301	Legal services	5411	84	Legal services
302	Accounting, tax preparation, bookkeeping, and payroll services	5412	85	Professional, scientific and technical services
303	Architectural, engineering, and related services	5413	85	
304	Specialized design services	5414	85	
305	Custom computer programming services	541511	86	Computer systems design and related services
306	Computer systems design services	541512	86	
307	Other computer related services, including facilities management	541513, 541519	86	
308	Management, scientific, and technical consulting services	54161	85	Professional, scientific and technical services
309	Environmental and other technical consulting services	54162, 54169	85	
310	Scientific research and development services	5417	85	
311	Advertising and related services	5418	85	

Mapping From Industries to Industrial Sectors, with NAICS Codes

Ind #	Industry Title	Classification Code(s)	Sec #	Industrial Sector Title
312	All other miscellaneous professional, scientific, and technical services	54191, 54193, 54199	85	
313	Photographic services	54192	85	
314	Veterinary services	54194	85	
315	Management of companies and enterprises	55	87	Management of companies and enterprises
316	Office administrative services	5611	88	Administrative and support services
317	Facilities support services	5612	88	
318	Business support services	5614	88	
319	Investigation and security services	5616	88	
320	Services to buildings and dwellings	5617	88	
321	Other support services	5619	88	
322	Employment services	5613	88	
323	Travel arrangement and reservation services	5615	88	
324	Waste management and remediation services	562	89	Waste management and remediation
325	Elementary and secondary schools	6111	90	Educational services
326	Junior colleges, colleges, universities, and professional schools	6112-3	90	
327	Other educational services	6114-7	90	
328	Offices of physicians, dentists, and other health practitioners	6211-3	92	Offices of physicians, dentists, and other health practitioners
329	Medical and diagnostic labs and outpatient and other ambulatory care services	6214-5, 6219	93	Other ambulatory health care services
330	Home health care services	6216	91	Home health care services
331	Hospitals	622	94	Hospitals
332	Nursing and residential care facilities	623	95	Nursing and residential care facilities
333	Social assistance, except child day care services	6241-3	96	Child care and social assistance
334	Child day care services	6244	96	
335	Performing arts	7111,7113,7114,7115,	97	Performing arts, spectator sports and museums
336	Museums, historical sites, zoos, and parks	712	97	
337	Spectator sports	7112	97	
338	Amusements, gambling, & recreation activities	7131-2, 71391-3, 71394, 71395, 71399	98	Amusements, gambling and recreation
339	Hotels and other accommodations	72111-2, 72119, 7212-3	99	Accommodation
340	Food services and drinking places	722	100	Food services and drinking places
341	Automotive repair, maintenance and car washes	8111	101	Automotive repair and maintenance
342	Electronic and precision equipment repair and maintenance	8112	102	Other repair and maintenance, personal services
343	Commercial and industrial machinery and equipment repair and maintenance	8113	102	
344	Personal and household goods repair and maintenance	8114	102	
345	Personal care services	8121	102	
346	Death care services	8122	102	
347	Dry-cleaning and laundry services	8123	102	
348	Other personal services	8129	102	
349	Religious, grantmaking, civic & professional organizations	813	103	Religious, grantmaking and other organizations
350	Private households	814	104	Private households
351	Postal service	491	105	Postal service and federal government enterprises
352	Other federal government enterprises	S00102	105	
353	Other state and local government enterprises	S00203	106	State and local government enterprises
354	General Federal defense government services	S00500	107	General government industry
355	General Federal nondefense government services	S00600	107	
356	General state and local government services	S00700	107	
357	Noncomparable imports	S00300	108	Noncomparable imports
358	Scrap	S00401	109	Scrap, used and secondhand
359	Used and secondhand goods	S00402	109	
360	Rest of the world adjustment	S00900	110	Rest of the world adjustment to final uses

APPENDIX B

PROJECTIONS FOR 360 INDUSTRIES

1: Oilseed farming

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Indirect Purchases		139	127	115	111	108	105	102
Total:		139	127	115	111	108	105	102

2: Grain farming

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Direct Purchases		2	2	2	2	2	2	2
Indirect Purchases		600	557	519	507	503	493	489
Total:		602	559	521	509	505	495	491

3: Vegetable and melon farming

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Direct Purchases		437	424	406	398	397	394	393
Indirect Purchases		63	60	55	54	54	53	53
Total:		500	484	461	452	450	447	446

Note: Numbers may not add due to rounding

4: Fruit and nut farming

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	0	0	0	0	0	0	0
Indirect Purchases	72	69	64	63	63	62	62
Total:	72	69	64	63	63	62	62

5: Greenhouse, nursery, and floriculture production

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1	1	1	1	1	1	1
Indirect Purchases	33	30	27	26	25	25	25
Total:	34	31	28	26	26	26	26

6: Tobacco farming

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Indirect Purchases	3	3	3	3	3	3	3
Total:	3	3	3	3	3	3	3

Note: Numbers may not add due to rounding

7: Cotton farming

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Indirect Purchases		28	26	22	21	21	20	19
Total:		28	26	22	21	21	20	19

8: Sugarcane and sugar beet farming

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Indirect Purchases		40	38	36	35	35	35	35
Total:		40	38	36	35	35	35	35

9: All other crop farming

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Direct Purchases		0	0	0	0	0	0	0
Indirect Purchases		379	353	320	311	309	303	301
Total:		379	353	320	311	309	303	301

Note: Numbers may not add due to rounding

10: Cattle ranching and dairy farming

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	45	44	42	41	41	41	41
Indirect Purchases	971	927	866	847	842	832	829
Total:	1,016	971	908	888	884	873	870

11: Poultry and egg production

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	71	69	66	65	65	64	64
Indirect Purchases	304	291	274	268	267	264	263
Total:	376	361	340	333	331	328	327

12: Animal production, except cattle and poultry and eggs

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	9	8	7	6	6	5	5
Indirect Purchases	319	299	280	275	273	269	268
Total:	329	307	287	281	279	275	273

Note: Numbers may not add due to rounding

13: Forestry and logging

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2	2	1	1	1	1	1
Indirect Purchases	1,019	918	779	743	742	723	715
Total:	1,021	920	780	744	743	724	716

14: Fishing, hunting and trapping

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	65	63	60	59	59	58	58
Indirect Purchases	120	112	100	97	97	95	95
Total:	186	175	160	156	155	153	152

15: Support activities for agriculture and forestry

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	59	55	45	42	42	41	40
Indirect Purchases	257	238	218	213	212	209	208
Total:	317	293	263	255	254	250	248

Note: Numbers may not add due to rounding

16: Crude oil extraction

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	52	48	32	26	25	24	24
Indirect Purchases	25,787	23,944	20,341	19,184	18,925	18,509	18,332
Total:	25,839	23,992	20,373	19,210	18,950	18,532	18,356

18: Coal mining

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	14	15	12	11	11	11	11
Indirect Purchases	1,003	892	774	748	749	738	733
Total:	1,017	907	786	760	760	749	744

19: Iron ore mining

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	0	0	0	0	0	0	0
Indirect Purchases	275	231	208	209	211	208	206
Total:	276	231	208	209	211	208	206

Note: Numbers may not add due to rounding

20: Copper, nickel, lead, and zinc mining

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	0	0	0	0	0	0	0
Indirect Purchases	309	268	242	242	243	243	245
Total:	309	268	242	242	243	243	245

21: Gold, silver, and other metal ore mining

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	9	10	9	9	9	8	8
Indirect Purchases	172	148	136	137	140	140	141
Total:	181	159	144	146	148	148	149

22: Stone mining and quarrying

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	13	13	9	7	6	5	5
Indirect Purchases	418	387	316	296	290	281	277
Total:	431	400	325	303	297	286	281

Note: Numbers may not add due to rounding

23: Sand, gravel, clay, and ceramic and refractory minerals mining and quarrying

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	5	5	3	2	2	2	2
Indirect Purchases	336	292	265	260	256	256	256
Total:	341	297	268	262	258	258	257

24: Other nonmetallic mineral mining and quarrying

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2	2	1	1	1	1	1
Indirect Purchases	96	86	74	71	71	69	68
Total:	98	88	75	72	72	70	69

25: Drilling oil and gas wells

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	0	0	0	0	0	0	0
Indirect Purchases	0	0	0	0	0	0	0
Total:	0	0	0	0	0	0	0

Note: Numbers may not add due to rounding

26: Support activities for oil and gas operations

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1	1	0	0	0	0	0
Indirect Purchases	118	109	93	89	90	89	90
Total:	119	109	94	90	90	90	90

27: Support activities for other mining

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	3	3	2	2	2	2	1
Indirect Purchases	80	70	63	62	62	61	61
Total:	83	73	65	64	64	63	62

28: Electric power generation, transmission, and distribution

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	5,466	4,945	4,045	3,763	3,750	3,701	3,682
Indirect Purchases	5,840	5,216	4,686	4,613	4,619	4,558	4,541
Total:	11,306	10,161	8,731	8,376	8,370	8,259	8,222

Note: Numbers may not add due to rounding

29: Natural gas distribution

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	962	871	719	673	673	664	661
Indirect Purchases	2,195	1,974	1,747	1,702	1,699	1,671	1,661
Total:	3,157	2,845	2,466	2,375	2,371	2,336	2,322

30: Water, sewage and other systems

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1,148	1,043	832	763	755	741	736
Indirect Purchases	543	491	428	414	412	404	402
Total:	1,691	1,533	1,260	1,177	1,167	1,145	1,138

31: New residential construction

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	345	325	254	219	195	178	163
Indirect Purchases	33	30	26	25	24	24	24
Total:	378	355	280	243	219	202	187

Note: Numbers may not add due to rounding

32: New non-residential building construction

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	13,222	12,453	10,324	9,626	9,366	9,068	8,714
Indirect Purchases	13	12	4	4	5	5	7
Total:	13,234	12,465	10,328	9,630	9,370	9,073	8,721

33: Highway, street, bridge, tunnel, water, sewer, pipeline and other construction

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1,504	1,478	1,115	903	774	669	593
Indirect Purchases	1	1	0	0	0	0	0
Total:	1,505	1,480	1,115	904	774	670	593

34: Maintenance and repair of residential structures

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	352	353	274	258	253	238	236
Indirect Purchases	166	151	132	127	127	125	124
Total:	518	504	406	385	380	362	360

Note: Numbers may not add due to rounding

35: Maintenance and repair of nonresidential buildings, infrastructure and other

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	14,950	13,983	10,827	9,931	9,723	9,327	9,166
Indirect Purchases	4,510	4,038	3,657	3,599	3,603	3,554	3,542
Total:	19,460	18,021	14,484	13,529	13,325	12,881	12,708

36: Dog and cat food

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	34	33	31	31	31	31	31
Indirect Purchases	1	1	1	1	1	1	1
Total:	34	33	32	32	32	31	31

37: Other animal food

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	23	22	21	21	21	21	21
Indirect Purchases	290	273	256	251	250	246	245
Total:	313	296	278	272	271	267	266

Note: Numbers may not add due to rounding

38: Flour milling and malt

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	6	5	5	5	5	5	5
Indirect Purchases	74	70	66	65	64	64	63
Total:	79	76	71	70	69	68	68

39: Wet corn milling

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Indirect Purchases	113	105	96	94	93	92	91
Total:	113	105	96	94	93	92	91

40: Soybean and other oilseed processing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	0	0	0	0	0	0	0
Indirect Purchases	195	182	167	163	161	158	157
Total:	195	182	168	163	161	158	157

Note: Numbers may not add due to rounding

41: Fats and oils refining and blending

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	10	9	9	9	9	8	8
Indirect Purchases	88	82	75	74	73	72	72
Total:	98	91	84	83	82	80	80

42: Breakfast cereals

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	81	79	76	74	74	74	73
Indirect Purchases	3	3	3	3	2	2	2
Total:	85	82	78	77	77	76	76

43: Sugar manufacturing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	30	29	28	28	28	27	27
Indirect Purchases	82	79	74	73	72	72	71
Total:	112	108	102	100	100	99	99

Note: Numbers may not add due to rounding

44: Chocolate

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	183	177	171	168	168	167	166
Indirect Purchases	39	37	35	34	34	34	34
Total:	223	215	206	203	202	200	200

45: Nonchocolate confectionery

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	111	108	104	102	102	101	101
Indirect Purchases	13	12	10	10	10	10	10
Total:	124	120	114	112	112	111	110

46: Frozen food manufacturing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	63	61	58	57	57	56	56
Indirect Purchases	54	50	45	43	43	42	42
Total:	117	111	103	101	100	99	98

Note: Numbers may not add due to rounding

47: Fruit and vegetable canning, pickling, and drying

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	284	275	264	259	258	256	255
Indirect Purchases	111	103	92	89	89	87	87
Total:	394	378	356	348	347	343	342

48: Fluid milk and butter

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	231	224	213	208	207	205	205
Indirect Purchases	93	87	79	77	76	75	74
Total:	323	312	292	285	283	280	279

49: Cheese

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	124	120	114	112	111	110	110
Indirect Purchases	161	150	134	130	129	127	126
Total:	284	271	248	242	240	237	236

Note: Numbers may not add due to rounding

50: Dry, condensed, and evaporated dairy product manufacturing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	51	49	47	46	45	45	45
Indirect Purchases	50	47	42	41	41	40	40
Total:	101	96	89	87	86	85	85

51: Ice cream and frozen desserts

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	34	33	31	31	31	30	30
Indirect Purchases	62	57	50	48	48	47	47
Total:	96	91	82	79	79	77	77

52: Animal (except poultry) slaughtering, rendering, and processing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	649	628	602	592	590	585	584
Indirect Purchases	515	484	440	427	424	416	413
Total:	1,164	1,113	1,043	1,019	1,013	1,001	997

Note: Numbers may not add due to rounding

53: Poultry processing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	335	324	311	305	304	302	301
Indirect Purchases	160	150	135	131	130	128	128
Total:	494	474	446	436	434	430	429

54: Seafood product preparation and packaging

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	55	53	51	50	50	50	49
Indirect Purchases	96	89	78	75	75	73	73
Total:	151	142	129	125	125	123	122

55: Bread and bakery products

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	428	414	398	391	389	387	386
Indirect Purchases	71	66	57	55	55	53	53
Total:	499	480	455	446	444	440	439

Note: Numbers may not add due to rounding

56: Cookies, crackers and tortillas

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	186	180	173	170	170	168	168
Indirect Purchases	28	26	23	22	22	22	22
Total:	214	206	196	193	192	190	190

57: Snack foods

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	57	55	52	51	51	50	50
Indirect Purchases	43	40	36	35	34	34	33
Total:	100	95	88	86	85	84	84

58: Coffee and tea

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	55	54	51	50	50	50	49
Indirect Purchases	30	28	25	24	24	23	23
Total:	85	82	76	74	74	73	73

Note: Numbers may not add due to rounding

59: Flavoring syrup and concentrate

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Indirect Purchases		294	278	258	252	251	247	246
Total:		294	278	258	252	251	247	247

60: Seasonings and dressings

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Direct Purchases		192	186	179	176	175	174	174
Indirect Purchases		67	62	56	54	54	53	53
Total:		259	248	235	230	229	227	226

61: All other food

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Direct Purchases		41	40	37	37	36	36	36
Indirect Purchases		72	66	61	60	59	58	58
Total:		113	106	98	96	96	94	94

Note: Numbers may not add due to rounding

62: Soft drinks and ice

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	386	373	353	345	343	340	339
Indirect Purchases	68	63	55	53	53	52	52
Total:	454	436	408	398	396	392	391

63: Breweries

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Indirect Purchases	17	15	13	13	13	12	12
Total:	17	15	13	13	13	13	12

64: Wineries

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	0	0	0	0	0	0	0
Indirect Purchases	29	26	23	23	22	22	22
Total:	29	27	24	23	23	22	22

Note: Numbers may not add due to rounding

65: Distilleries

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	0	0	0	0	0	0	0
Indirect Purchases	63	58	51	49	49	48	48
Total:	63	58	51	49	49	48	48

66: Tobacco product manufacturing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	138	133	129	127	127	126	126
Indirect Purchases	4	4	4	4	4	4	4
Total:	142	138	133	131	131	130	130

67: Fiber, yarn, and thread mills

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2	2	2	1	1	1	1
Indirect Purchases	213	201	179	173	171	166	163
Total:	215	203	181	174	172	167	164

Note: Numbers may not add due to rounding

68: Fabric mills

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	9	9	6	5	5	5	5
Indirect Purchases	596	566	498	480	474	463	455
Total:	605	575	504	485	479	467	460

69: Textile and fabric finishing mills

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	22	21	14	12	11	10	10
Indirect Purchases	514	490	432	413	408	396	390
Total:	536	512	446	425	419	406	400

70: Carpet and rug mills

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	6	5	4	4	5	5	4
Indirect Purchases	162	145	142	145	147	149	148
Total:	168	150	146	150	152	154	152

Note: Numbers may not add due to rounding

71: Curtain and linen mills

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	15	15	14	13	13	13	13
Indirect Purchases	18	17	15	14	14	14	14
Total:	34	32	28	27	27	27	27

72: Other textile products

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	337	297	212	186	186	174	163
Indirect Purchases	629	577	554	554	563	559	556
Total:	966	874	766	740	749	733	719

73: Apparel knitting mills

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	29	28	26	26	25	24	24
Indirect Purchases	22	22	19	18	18	17	17
Total:	51	50	45	44	43	42	41

Note: Numbers may not add due to rounding

74: Cut and sew apparel

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1,544	1,549	1,378	1,320	1,291	1,251	1,232
Indirect Purchases	291	271	240	232	229	224	222
Total:	1,835	1,819	1,618	1,551	1,521	1,475	1,454

75: Apparel accessories and other apparel

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2,127	2,042	1,842	1,769	1,727	1,682	1,649
Indirect Purchases	146	142	126	122	119	116	114
Total:	2,273	2,184	1,969	1,890	1,846	1,799	1,763

76: Footwear and other leather products

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	238	237	214	206	202	197	193
Indirect Purchases	122	113	99	96	96	94	92
Total:	360	350	314	302	298	290	285

Note: Numbers may not add due to rounding

77: Sawmills and wood preservation

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2	2	1	1	1	1	1
Indirect Purchases	825	745	627	598	597	582	574
Total:	827	747	629	599	598	583	575

78: Veneer, plywood, particleboard, and engineered wood products

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	50	56	27	13	11	5	5
Indirect Purchases	474	440	380	359	357	347	342
Total:	524	496	407	373	368	352	347

79: Wood windows and doors and millwork

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2	2	1	1	1	1	1
Indirect Purchases	409	372	313	298	295	287	281
Total:	411	374	314	299	297	288	283

Note: Numbers may not add due to rounding

80: Wood containers and pallets

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	74	67	53	50	51	50	50
Indirect Purchases	130	117	99	94	93	91	90
Total:	204	184	152	144	144	141	140

81: Manufactured homes (mobile homes)

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	11	10	6	5	5	4	4
Indirect Purchases	6	6	4	4	4	4	4
Total:	17	15	11	9	9	8	8

82: Prefabricated wood buildings

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	9	9	7	7	7	6	6
Indirect Purchases	53	50	41	38	37	36	35
Total:	62	59	48	45	44	42	41

Note: Numbers may not add due to rounding

83: All other miscellaneous wood products

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2	2	1	1	1	1	1
Indirect Purchases	133	119	105	103	103	101	100
Total:	135	120	107	104	104	101	100

84: Pulp mills

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	0	0	0	0	0	0	0
Indirect Purchases	147	131	116	113	113	111	110
Total:	147	131	116	113	113	111	110

85: Paper and paperboard mills

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	90	87	82	80	80	79	79
Indirect Purchases	2,034	1,817	1,613	1,576	1,577	1,553	1,545
Total:	2,125	1,904	1,695	1,656	1,657	1,632	1,624

Note: Numbers may not add due to rounding

86: Paperboard container manufacturing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	9	9	6	5	4	4	4
Indirect Purchases	1,184	1,058	955	941	944	929	926
Total:	1,193	1,067	961	946	948	933	930

87: Coated and laminated paper, packaging paper and plastics film

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	13	11	9	9	10	9	9
Indirect Purchases	320	288	255	248	248	244	243
Total:	332	299	265	258	258	254	252

88: All other paper bag and coated and treated paper manufacturing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	24	23	22	22	22	22	22
Indirect Purchases	83	76	70	69	69	68	67
Total:	107	99	92	91	90	90	89

Note: Numbers may not add due to rounding

89: Stationery product manufacturing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2	2	2	1	1	1	1
Indirect Purchases	69	62	54	53	52	51	51
Total:	71	64	56	54	54	53	52

90: Sanitary paper product manufacturing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1	1	1	1	1	1	1
Indirect Purchases	4	4	4	3	3	3	3
Total:	6	5	5	5	5	4	4

91: All other converted paper products

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	43	43	40	39	39	38	38
Indirect Purchases	42	39	36	35	35	34	34
Total:	85	82	76	74	74	73	73

Note: Numbers may not add due to rounding

92: Printing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2,471	2,148	1,857	1,795	1,810	1,797	1,784
Indirect Purchases	1,388	1,263	1,125	1,099	1,095	1,077	1,074
Total:	3,858	3,410	2,982	2,893	2,905	2,874	2,858

93: Support activities for printing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	9	8	7	7	7	7	7
Indirect Purchases	204	184	162	158	158	155	155
Total:	213	192	169	165	164	162	162

94: Petroleum refineries

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	15,745	14,920	12,405	11,474	11,230	10,935	10,805
Indirect Purchases	15,335	14,139	12,233	11,692	11,574	11,343	11,240
Total:	31,080	29,059	24,638	23,166	22,804	22,278	22,045

Note: Numbers may not add due to rounding

95: Asphalt products

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2	1	1	1	1	1	1
Indirect Purchases	485	450	368	344	337	325	319
Total:	486	452	369	345	338	326	320

96: Lubricating and other petroleum products

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	29	33	27	26	26	23	24
Indirect Purchases	454	413	357	343	341	333	331
Total:	483	446	384	369	366	357	354

97: Petrochemicals

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1	1	0	0	0	0	0
Indirect Purchases	1,490	1,332	1,186	1,155	1,156	1,130	1,124
Total:	1,491	1,333	1,186	1,155	1,156	1,130	1,124

Note: Numbers may not add due to rounding

98: Industrial gases

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	26	26	18	15	14	13	13
Indirect Purchases	282	251	225	222	223	220	220
Total:	309	277	243	238	237	233	233

99: Synthetic dyes and pigments

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	3	3	2	2	2	2	2
Indirect Purchases	257	227	200	196	195	190	188
Total:	260	230	202	198	198	193	191

100: Other basic inorganic chemicals

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	23	21	15	13	12	11	11
Indirect Purchases	1,018	910	817	807	809	795	798
Total:	1,040	931	832	820	821	807	810

Note: Numbers may not add due to rounding

101: Other basic organic chemicals

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	11	10	8	7	7	7	6
Indirect Purchases	2,380	2,128	1,905	1,867	1,870	1,832	1,823
Total:	2,391	2,137	1,913	1,874	1,877	1,839	1,830

102: Plastics materials and resins

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	36	33	29	28	29	29	29
Indirect Purchases	2,993	2,660	2,434	2,402	2,419	2,367	2,357
Total:	3,029	2,693	2,463	2,431	2,448	2,397	2,386

103: Synthetic rubber

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1	1	1	0	0	0	0
Indirect Purchases	258	232	199	191	189	184	184
Total:	258	233	199	191	189	185	184

Note: Numbers may not add due to rounding

104: Artificial and synthetic fibers and filaments

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1	1	1	0	0	0	0
Indirect Purchases	321	293	258	249	248	241	236
Total:	322	293	258	249	248	241	236

105: Fertilizers

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	0	0	0	0	0	0	0
Indirect Purchases	360	330	291	281	279	272	269
Total:	360	330	291	281	279	272	269

106: Pesticides and other agricultural chemicals

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2	2	1	1	1	1	1
Indirect Purchases	115	107	98	96	95	94	93
Total:	117	109	100	97	96	95	94

Note: Numbers may not add due to rounding

107: Pharmaceuticals and medicines

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	796	821	583	486	456	418	420
Indirect Purchases	1,466	1,396	1,270	1,225	1,212	1,190	1,185
Total:	2,261	2,217	1,854	1,711	1,668	1,609	1,606

108: Paints and coatings

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	40	39	30	28	27	26	26
Indirect Purchases	939	811	736	738	751	741	733
Total:	979	851	766	766	778	767	759

109: Adhesives

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	6	6	4	4	4	4	4
Indirect Purchases	214	191	165	161	161	156	155
Total:	220	197	170	165	165	161	159

Note: Numbers may not add due to rounding

110: Soaps and cleaning compounds

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	526	508	490	483	482	479	477
Indirect Purchases	419	381	347	341	340	334	332
Total:	945	889	837	824	821	812	810

111: Toilet preparations

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	31	30	29	28	28	28	28
Indirect Purchases	33	30	28	27	27	26	26
Total:	64	60	56	55	55	54	54

112: Printing ink

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1	1	1	0	0	0	0
Indirect Purchases	266	236	208	203	203	200	199
Total:	266	237	209	204	204	201	200

Note: Numbers may not add due to rounding

113: All other chemical products and preparations

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	769	723	640	698	701	651	708
Indirect Purchases	1,128	1,011	915	909	907	894	898
Total:	1,897	1,734	1,555	1,607	1,608	1,545	1,606

114: Plastics packaging materials and unlaminated film and sheet

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	55	53	47	45	45	44	44
Indirect Purchases	1,126	987	909	910	923	909	903
Total:	1,181	1,039	957	955	968	953	947

115: Plastics pipe, fittings, and profile shapes

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	21	19	14	12	12	11	11
Indirect Purchases	762	631	587	604	622	605	594
Total:	783	650	601	616	634	616	605

Note: Numbers may not add due to rounding

116: Laminated plastics plate, sheet (except packaging), and shapes

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	9	8	5	4	4	4	3
Indirect Purchases	105	91	84	84	86	84	84
Total:	114	99	89	88	89	88	87

117: Plastic foam products

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	6	5	4	4	4	5	5
Indirect Purchases	397	365	322	314	313	309	306
Total:	403	370	326	318	318	314	312

118: Plastic bottles

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1	1	0	0	0	0	0
Indirect Purchases	130	121	113	112	112	111	111
Total:	131	122	113	112	112	112	111

Note: Numbers may not add due to rounding

119: Other plastics products

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	52	51	45	43	42	41	41
Indirect Purchases	2,807	2,474	2,233	2,215	2,220	2,201	2,188
Total:	2,860	2,525	2,277	2,258	2,263	2,242	2,230

120: Tires

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	49	45	36	33	30	28	28
Indirect Purchases	355	304	254	248	255	257	255
Total:	404	349	290	281	285	285	283

121: Rubber and plastics hoses and beltings

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	22	21	16	14	13	12	12
Indirect Purchases	98	82	70	69	70	69	67
Total:	120	102	86	83	83	81	79

Note: Numbers may not add due to rounding

122: Other rubber products

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	20	17	14	12	13	13	12
Indirect Purchases	528	450	410	411	419	418	418
Total:	549	467	423	424	432	431	430

123: Pottery, ceramics, and plumbing fixtures

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	18	17	16	15	15	15	15
Indirect Purchases	66	60	51	48	47	46	45
Total:	83	77	67	64	63	61	60

124: Clay building materials and refractories

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2	2	1	1	1	1	1
Indirect Purchases	218	197	169	163	161	157	154
Total:	220	199	171	164	162	158	155

Note: Numbers may not add due to rounding

125: Glass and glass products, except containers

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	6	6	4	3	3	3	3
Indirect Purchases	706	612	573	574	586	575	570
Total:	712	618	577	578	589	578	573

126: Glass containers

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	0	0	0	0	0	0	0
Indirect Purchases	28	27	24	24	24	23	23
Total:	28	27	25	24	24	23	23

127: Cement

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	0	0	0	0	0	0	0
Indirect Purchases	168	155	129	122	120	116	114
Total:	168	155	130	122	120	116	114

Note: Numbers may not add due to rounding

128: Ready-mix concrete

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1	1	1	1	1	1	1
Indirect Purchases	363	338	281	264	257	248	243
Total:	364	339	282	264	258	249	244

129: Concrete pipe, brick, and blocks

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1	1	1	1	1	1	1
Indirect Purchases	153	142	120	114	112	109	107
Total:	154	143	121	115	113	109	108

130: Other concrete products

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	21	19	13	11	9	9	8
Indirect Purchases	316	290	247	234	230	223	219
Total:	337	309	260	245	240	232	227

Note: Numbers may not add due to rounding

131: Lime and gypsum products

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2	1	1	1	1	1	1
Indirect Purchases	222	201	168	159	157	153	151
Total:	224	202	169	160	158	153	152

132: Abrasive products

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	19	17	12	11	11	11	11
Indirect Purchases	239	207	187	187	189	187	186
Total:	258	224	199	198	199	197	197

133: Cut stone and stone products

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1	1	1	1	0	0	0
Indirect Purchases	106	99	83	78	76	73	71
Total:	107	100	84	78	76	74	72

Note: Numbers may not add due to rounding

134: Other non-metallic mineral products

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	11	10	8	7	7	7	6
Indirect Purchases	191	172	151	149	148	147	145
Total:	202	182	158	156	155	154	151

135: Primary ferrous metal products

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	27	24	17	14	13	13	13
Indirect Purchases	6,956	5,858	5,265	5,305	5,379	5,303	5,256
Total:	6,983	5,882	5,282	5,319	5,393	5,316	5,269

136: Primary aluminum production

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2	2	1	1	1	1	1
Indirect Purchases	1,114	967	892	904	924	936	940
Total:	1,117	969	893	905	925	937	941

Note: Numbers may not add due to rounding

137: Aluminum product manufacturing from purchased aluminum

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	30	27	23	22	24	23	23
Indirect Purchases	2,027	1,754	1,638	1,657	1,697	1,722	1,727
Total:	2,057	1,781	1,660	1,680	1,721	1,745	1,750

138: Primary smelting and refining of copper

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	0	0	0	0	0	0	0
Indirect Purchases	668	571	517	517	518	516	520
Total:	668	571	517	517	518	517	520

139: Primary smelting and refining of nonferrous metal (except copper and aluminum)

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2	2	1	1	1	1	1
Indirect Purchases	703	606	559	566	576	577	580
Total:	705	608	561	568	577	578	582

Note: Numbers may not add due to rounding

140: Copper rolling, drawing, extruding and alloying

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	5	5	4	4	4	4	4
Indirect Purchases	1,205	1,047	952	956	954	947	954
Total:	1,210	1,052	956	960	958	950	958

141: Nonferrous metal (except copper and aluminum) rolling, drawing, extruding and alloying

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	10	10	7	6	6	5	6
Indirect Purchases	798	680	635	663	685	700	702
Total:	808	690	642	670	691	705	708

142: Ferrous metal foundries

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	4	3	2	2	2	2	2
Indirect Purchases	768	646	573	571	574	566	563
Total:	772	649	575	573	576	567	565

Note: Numbers may not add due to rounding

143: Nonferrous metal foundries

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	5	5	4	3	3	3	3
Indirect Purchases	494	429	396	403	406	405	403
Total:	499	433	400	407	409	408	406

144: Forging and stamping

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	26	23	18	18	17	17	17
Indirect Purchases	1,983	1,641	1,530	1,576	1,610	1,594	1,587
Total:	2,009	1,664	1,549	1,594	1,627	1,611	1,605

145: Cutlery, utensils, pots, and pans

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	9	8	5	4	4	3	3
Indirect Purchases	119	106	102	109	113	117	117
Total:	128	114	107	113	116	121	120

Note: Numbers may not add due to rounding

146: Handtools(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	162	134	92	79	78	78	78
Indirect Purchases	142	124	111	111	112	110	110
Total:	304	259	204	190	190	188	188

147: Plate work and fabricated structural products(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	216	204	148	126	119	110	106
Indirect Purchases	2,499	2,251	1,998	1,951	1,949	1,911	1,891
Total:	2,715	2,455	2,146	2,077	2,068	2,021	1,997

148: Ornamental and architectural metal products(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	19	19	15	15	14	14	13
Indirect Purchases	1,625	1,433	1,212	1,180	1,204	1,188	1,193
Total:	1,643	1,452	1,228	1,195	1,218	1,201	1,206

Note: Numbers may not add due to rounding

149: Power boilers and heat exchangers

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	229	175	247	357	345	414	450
Indirect Purchases	96	86	75	73	72	71	70
Total:	325	261	322	429	417	485	521

150: Metal tanks (heavy gauge)

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	126	98	70	68	76	81	83
Indirect Purchases	56	51	43	41	40	39	38
Total:	182	149	113	109	116	120	121

151: Metal cans, boxes, and other metal containers (light gauge)

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	123	120	93	84	80	76	77
Indirect Purchases	318	280	251	250	251	247	248
Total:	441	400	344	334	331	323	325

Note: Numbers may not add due to rounding

152: Ammunition
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	3,112	3,054	2,893	2,999	2,909	2,843	3,039
Indirect Purchases	18	17	15	15	15	15	17
Total:	3,130	3,072	2,908	3,014	2,924	2,858	3,056

153: Arms, ordnance, and accessories
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	919	804	709	730	703	691	711
Indirect Purchases	10	9	7	7	7	7	7
Total:	929	813	717	737	710	698	718

154: Hardware manufacturing
(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	116	110	79	69	68	65	64
Indirect Purchases	781	688	649	650	650	650	650
Total:	897	798	728	720	718	714	715

Note: Numbers may not add due to rounding

155: Springs and wire products

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	19	18	13	10	9	9	9
Indirect Purchases	159	142	125	123	124	122	122
Total:	179	160	138	133	133	131	131

156: Machine shops

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	64	63	53	44	40	38	39
Indirect Purchases	1,729	1,521	1,377	1,375	1,388	1,380	1,379
Total:	1,794	1,584	1,429	1,418	1,429	1,419	1,418

157: Turned products and screws, nuts, and bolts

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	32	37	21	15	13	11	11
Indirect Purchases	1,347	1,157	1,071	1,097	1,122	1,129	1,129
Total:	1,380	1,194	1,092	1,112	1,135	1,140	1,140

Note: Numbers may not add due to rounding

158: Coating, engraving, heat treating and allied activities

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	23	20	15	13	12	11	11
Indirect Purchases	1,296	1,158	1,039	1,030	1,038	1,033	1,032
Total:	1,319	1,178	1,054	1,042	1,050	1,044	1,043

159: Metal valves

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	84	80	64	62	58	57	59
Indirect Purchases	1,892	1,599	1,489	1,531	1,566	1,554	1,539
Total:	1,976	1,679	1,553	1,593	1,624	1,612	1,598

160: Ball and roller bearings

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	22	23	14	10	9	8	9
Indirect Purchases	334	287	257	255	256	254	254
Total:	356	310	270	266	265	262	262

Note: Numbers may not add due to rounding

161: Fabricated pipe and pipe fittings

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	7	9	4	2	1	0	1
Indirect Purchases	205	181	158	155	152	152	151
Total:	212	190	162	157	154	153	152

162: Other fabricated metal products

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	136	118	87	80	81	78	79
Indirect Purchases	694	619	550	540	543	538	538
Total:	830	738	637	621	624	617	618

163: Farm machinery and equipment

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	8	8	6	5	5	5	5
Indirect Purchases	31	28	26	25	25	25	24
Total:	39	36	32	31	30	29	29

Note: Numbers may not add due to rounding

164: Lawn and garden equipment

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	3	3	2	2	2	2	2
Indirect Purchases	9	8	7	7	7	7	7
Total:	12	11	9	9	9	8	8

165: Construction machinery

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	285	257	177	139	124	113	107
Indirect Purchases	133	104	98	103	108	104	101
Total:	418	361	275	242	232	217	208

166: Mining and oil and gas field machinery

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	3	2	2	1	1	1	1
Indirect Purchases	53	48	41	39	38	38	38
Total:	56	51	42	40	40	39	39

Note: Numbers may not add due to rounding

167: Other industrial machinery

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	132	122	92	82	80	76	75
Indirect Purchases	127	113	101	99	100	98	98
Total:	259	234	193	182	179	174	173

168: Plastics and rubber industry machinery

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	7	7	5	4	4	4	4
Indirect Purchases	14	12	11	11	11	11	11
Total:	22	19	16	16	16	15	15

169: Semiconductor machinery manufacturing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	12	11	9	8	8	8	8
Indirect Purchases	44	39	36	35	35	35	35
Total:	56	50	44	44	44	43	43

Note: Numbers may not add due to rounding

170: Vending, commercial, industrial, and office machinery

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	261	242	262	277	275	276	291
Indirect Purchases	48	43	40	41	41	41	41
Total:	309	285	303	318	316	317	332

171: Optical instruments and lenses

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	985	842	708	682	676	676	684
Indirect Purchases	48	42	35	34	34	34	34
Total:	1,033	884	744	716	710	710	718

172: Photographic and photocopying equipment

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	77	71	61	58	59	58	59
Indirect Purchases	5	4	4	4	4	4	4
Total:	81	75	64	62	62	62	62

Note: Numbers may not add due to rounding

173: Other commercial and service industry machinery

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1,709	1,640	1,245	1,128	1,076	1,009	1,003
Indirect Purchases	63	58	52	52	53	53	53
Total:	1,772	1,698	1,296	1,181	1,129	1,062	1,056

174: Air purification and ventilation equipment

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	56	50	36	30	29	28	28
Indirect Purchases	135	123	105	100	98	96	95
Total:	191	173	141	130	127	123	123

175: Heating equipment (except warm air furnaces)

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	10	7	4	3	5	4	2
Indirect Purchases	119	110	92	88	86	84	82
Total:	129	117	96	91	91	88	85

Note: Numbers may not add due to rounding

176: Air conditioning, refrigeration, and warm air heating equipment

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	170	157	113	99	94	90	89
Indirect Purchases	574	519	429	408	406	398	391
Total:	744	676	542	506	500	487	480

177: Industrial molds

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1	1	1	1	1	1	1
Indirect Purchases	180	162	162	175	179	187	184
Total:	181	164	163	176	180	188	185

178: Metal cutting and forming machine tools

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	110	102	80	72	72	69	70
Indirect Purchases	69	62	55	54	54	54	53
Total:	179	165	135	126	126	123	123

Note: Numbers may not add due to rounding

179: Special tools, dies, jigs, and fixtures

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	9	8	6	6	5	5	5
Indirect Purchases	228	205	206	224	230	240	237
Total:	237	213	212	229	235	245	242

180: Cutting tool and machine tool accessories

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	13	11	8	6	6	6	6
Indirect Purchases	422	369	350	363	368	371	369
Total:	434	380	357	369	374	377	375

181: Rolling mill and other metalworking machinery

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	14	15	12	12	13	13	14
Indirect Purchases	8	7	6	6	6	6	6
Total:	22	22	18	18	19	19	20

Note: Numbers may not add due to rounding

182: Turbine and turbine generator set units

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	146	115	93	95	103	109	117
Indirect Purchases	509	378	370	404	431	415	404
Total:	656	493	463	499	534	525	521

183: Speed changers and mechanical power transmission equipment

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	123	100	89	93	91	89	98
Indirect Purchases	780	566	527	571	618	610	601
Total:	903	666	616	664	709	699	699

184: Other engine equipment

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	101	92	67	62	61	58	57
Indirect Purchases	2,394	1,796	1,755	1,888	2,038	1,977	1,924
Total:	2,495	1,889	1,822	1,949	2,099	2,035	1,981

Note: Numbers may not add due to rounding

185: Pump and pumping equipment(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	109	107	79	71	67	64	63
Indirect Purchases	73	68	60	57	57	56	56
Total:	183	175	139	128	124	119	119

186: Air and gas compressors(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	27	26	19	18	18	18	17
Indirect Purchases	18	16	14	13	13	13	13
Total:	45	42	33	32	32	31	30

187: Material handling equipment(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	190	170	167	179	155	159	163
Indirect Purchases	271	245	211	203	200	196	192
Total:	460	415	378	382	355	355	355

Note: Numbers may not add due to rounding

188: Power-driven handtool manufacturing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	8	7	5	4	4	4	4
Indirect Purchases	5	4	4	3	3	3	3
Total:	12	11	9	8	8	7	7

189: Other general purpose machinery

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	359	325	260	250	243	244	247
Indirect Purchases	233	208	178	172	170	166	163
Total:	591	533	437	421	413	411	410

190: Packaging machinery

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2	2	1	1	1	1	1
Indirect Purchases	4	3	3	3	3	3	3
Total:	5	5	4	4	4	4	4

Note: Numbers may not add due to rounding

191: Industrial process furnaces and ovens

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	11	10	7	6	6	6	6
Indirect Purchases	7	7	6	5	5	5	5
Total:	19	17	13	12	12	11	11

192: Fluid power process machinery

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	10	9	7	6	6	6	6
Indirect Purchases	716	579	547	573	590	585	578
Total:	726	588	554	579	596	591	583

193: Computers

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1,843	1,514	1,317	1,267	1,263	1,247	1,241
Indirect Purchases	200	167	148	146	146	143	143
Total:	2,043	1,682	1,466	1,413	1,409	1,390	1,384

Note: Numbers may not add due to rounding

194: Computer storage devices

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	257	235	205	200	199	192	191
Indirect Purchases	349	304	271	265	264	259	258
Total:	606	539	476	465	463	451	449

195: Computer terminals and other computer peripherals

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	524	454	420	413	403	381	368
Indirect Purchases	415	367	333	329	329	325	325
Total:	938	821	752	742	732	706	693

196: Telephone apparatus

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	789	606	573	574	585	583	582
Indirect Purchases	138	123	108	104	104	103	103
Total:	927	729	681	678	690	686	684

Note: Numbers may not add due to rounding

197: Broadcast and wireless communications equipment

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	5,729	4,754	4,911	5,046	5,100	5,041	5,038
Indirect Purchases	2,156	1,860	1,848	1,930	1,966	2,000	2,006
Total:	7,885	6,614	6,759	6,975	7,066	7,042	7,044

198: Other communications equipment

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1,545	1,337	1,294	1,310	1,323	1,315	1,342
Indirect Purchases	107	97	83	80	79	77	77
Total:	1,652	1,434	1,377	1,389	1,402	1,392	1,419

199: Audio and video equipment

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	90	87	72	69	68	65	65
Indirect Purchases	71	61	56	56	58	58	59
Total:	162	148	128	125	126	123	124

Note: Numbers may not add due to rounding

200: Semiconductors and electron tubes

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	90	85	77	78	76	74	76
Indirect Purchases	3,277	2,814	2,695	2,735	2,774	2,774	2,788
Total:	3,366	2,899	2,772	2,814	2,850	2,848	2,863

201: All other electronic components

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2,190	1,939	1,973	2,029	2,032	2,023	2,047
Indirect Purchases	3,004	2,588	2,470	2,498	2,527	2,515	2,533
Total:	5,194	4,527	4,444	4,528	4,559	4,537	4,580

202: Electromedical and electrotherapeutic apparatus

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	65	68	47	41	38	34	35
Indirect Purchases	72	66	62	62	62	61	62
Total:	138	133	109	103	100	96	97

Note: Numbers may not add due to rounding

203: Search, detection, and navigation instruments

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	7,961	6,804	6,773	6,995	7,019	6,986	7,148
Indirect Purchases	744	608	595	615	614	609	607
Total:	8,705	7,412	7,368	7,610	7,633	7,595	7,755

204: Automatic environmental controls

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	30	28	22	21	20	20	20
Indirect Purchases	51	46	39	37	37	36	35
Total:	81	74	62	58	57	56	55

205: Industrial process variable instruments

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	117	109	98	97	97	94	96
Indirect Purchases	119	104	96	95	95	94	94
Total:	236	213	193	192	192	188	190

Note: Numbers may not add due to rounding

206: Totalizing fluid meters and counting devices

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	8	9	5	4	4	3	3
Indirect Purchases	64	56	48	47	49	48	48
Total:	73	65	54	51	52	51	51

207: Electricity and signal testing instruments

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	367	352	303	306	303	295	300
Indirect Purchases	108	94	89	91	92	91	92
Total:	474	446	393	397	394	386	393

208: Analytical laboratory instruments

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	329	299	220	193	184	175	174
Indirect Purchases	168	155	139	137	135	133	134
Total:	497	453	358	330	320	308	308

Note: Numbers may not add due to rounding

209: Irradiation apparatus manufacturing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	124	100	71	67	69	71	71
Indirect Purchases	25	24	23	22	22	22	22
Total:	149	124	94	89	91	93	93

210: Watch, clock, and other measuring and controlling devices

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	271	258	217	211	203	193	194
Indirect Purchases	290	243	235	240	236	234	234
Total:	561	501	452	451	439	427	428

211: Software, audio, and video media reproducing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	69	57	59	61	62	62	63
Indirect Purchases	108	97	87	85	85	84	84
Total:	177	154	146	146	147	147	147

Note: Numbers may not add due to rounding

212: Magnetic and optical recording media

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	8	8	7	7	7	7	7
Indirect Purchases	99	90	80	79	79	78	78
Total:	107	98	87	86	86	85	85

213: Electric lamp bulbs and parts

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	9	8	7	7	7	7	7
Indirect Purchases	27	23	20	20	20	19	19
Total:	35	32	28	27	27	26	26

214: Lighting fixtures

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	22	21	18	17	16	16	15
Indirect Purchases	460	426	359	339	332	322	313
Total:	483	447	377	355	348	337	329

Note: Numbers may not add due to rounding

215: Small electrical appliances

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1	1	1	1	1	1	1
Indirect Purchases	35	32	27	25	24	24	23
Total:	36	33	27	26	25	24	24

216: Household cooking appliances

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2	2	1	1	1	1	1
Indirect Purchases	11	10	8	8	8	8	8
Total:	13	12	10	9	9	9	9

217: Household refrigerators and home freezers

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	4	4	3	3	3	3	3
Indirect Purchases	3	3	2	2	2	2	2
Total:	7	7	6	5	5	5	5

Note: Numbers may not add due to rounding

218: Household laundry equipment

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	5	5	4	4	4	4	4
Indirect Purchases	2	2	1	1	1	1	1
Total:	7	7	6	5	5	5	5

219: Other major household appliances

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	13	15	12	10	10	10	10
Indirect Purchases	15	14	11	11	10	10	10
Total:	28	29	23	21	21	21	20

220: Power, distribution, and specialty transformers

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	76	69	54	48	48	45	43
Indirect Purchases	176	158	138	139	141	140	145
Total:	252	227	192	188	189	185	188

Note: Numbers may not add due to rounding

221: Motors and generators

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	126	119	92	78	70	62	58
Indirect Purchases	608	526	476	472	477	464	460
Total:	734	646	568	550	547	527	518

222: Switchgear and switchboard apparatus

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	39	38	31	29	28	27	27
Indirect Purchases	260	235	196	186	183	178	176
Total:	299	273	227	215	211	205	203

223: Relays and industrial controls

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	14	15	11	10	9	9	9
Indirect Purchases	493	422	390	395	399	393	391
Total:	506	437	400	404	408	401	399

Note: Numbers may not add due to rounding

224: Storage batteries

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	21	21	14	10	9	8	8
Indirect Purchases	99	89	78	76	75	74	74
Total:	120	111	91	86	85	82	82

225: Primary battery manufacturing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	18	17	14	14	13	12	11
Indirect Purchases	10	9	8	8	8	8	8
Total:	28	26	22	21	21	20	19

226: Communication and energy wires and cables

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	57	57	54	54	55	54	57
Indirect Purchases	1,152	1,026	908	886	879	864	862
Total:	1,209	1,082	962	940	933	918	919

Note: Numbers may not add due to rounding

227: Wiring devices

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	23	23	16	14	13	12	13
Indirect Purchases	388	345	306	298	295	289	287
Total:	411	369	322	312	308	302	300

228: Carbon and graphite and miscellaneous electrical equipment

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	478	420	383	382	386	380	386
Indirect Purchases	276	240	218	215	213	213	213
Total:	754	661	601	596	599	593	599

229: Automobiles

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	381	252	187	210	263	303	318
Indirect Purchases	5	4	4	3	3	3	3
Total:	386	257	190	213	267	307	322

Note: Numbers may not add due to rounding

230: Heavy duty trucks

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1,091	624	369	450	666	712	638
Indirect Purchases	39	28	20	20	24	25	25
Total:	1,130	652	389	470	690	737	663

231: Motor vehicle bodies

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	129	94	70	74	88	97	100
Indirect Purchases	16	11	8	8	10	11	11
Total:	145	104	77	83	99	108	111

232: Truck trailer manufacturing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	984	615	428	478	612	708	728
Indirect Purchases	4	3	2	2	2	3	3
Total:	988	618	430	480	614	710	731

Note: Numbers may not add due to rounding

233: Motor homes, trailers and campers

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	38	33	24	20	19	18	18
Indirect Purchases	83	63	50	50	55	58	59
Total:	121	97	74	70	74	77	77

234: Motor vehicle parts

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	711	637	585	570	600	605	613
Indirect Purchases	3,997	3,461	3,127	3,087	3,198	3,190	3,173
Total:	4,708	4,098	3,712	3,657	3,798	3,794	3,786

235: Aircraft

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	27,816	23,953	24,095	25,711	25,884	26,520	26,152
Indirect Purchases	165	147	135	133	131	130	128
Total:	27,981	24,100	24,229	25,843	26,015	26,650	26,281

Note: Numbers may not add due to rounding

236: Aircraft engines and engine parts

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	4,676	3,987	3,846	4,066	3,883	3,866	3,897
Indirect Purchases	4,051	3,367	3,258	3,377	3,296	3,292	3,300
Total:	8,728	7,354	7,103	7,443	7,179	7,158	7,197

237: Other aircraft parts and auxiliary equipment

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	9,177	7,923	7,176	6,896	6,725	6,895	6,943
Indirect Purchases	3,153	2,645	2,514	2,557	2,505	2,498	2,500
Total:	12,330	10,568	9,690	9,453	9,230	9,393	9,443

238: Guided missiles and space vehicles

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	12,704	11,735	11,272	11,599	12,085	12,626	12,805
Indirect Purchases	321	292	285	292	302	312	314
Total:	13,025	12,026	11,557	11,891	12,387	12,938	13,118

Note: Numbers may not add due to rounding

239: Propulsion units and parts for space vehicles and guided missiles

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1,585	1,436	1,269	1,327	1,334	1,325	1,312
Indirect Purchases	1,689	1,541	1,483	1,524	1,581	1,639	1,649
Total:	3,274	2,977	2,752	2,851	2,915	2,964	2,961

240: Railroad rolling stock

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	4	4	3	3	3	2	2
Indirect Purchases	59	54	47	44	44	43	42
Total:	64	58	50	47	46	46	45

241: Ship building and repairing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	20,051	13,729	14,248	16,296	17,786	16,990	16,429
Indirect Purchases	257	237	202	199	200	194	195
Total:	20,307	13,966	14,450	16,494	17,987	17,184	16,625

Note: Numbers may not add due to rounding

242: Boat building

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	8,862	8,488	8,734	8,548	8,773	8,687	8,778
Indirect Purchases	91	79	74	76	80	79	80
Total:	8,952	8,567	8,808	8,624	8,853	8,765	8,858

243: Motorcycles, bicycles, and parts

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	11	10	7	6	6	6	6
Indirect Purchases	9	8	7	7	7	6	6
Total:	20	18	14	13	12	12	12

244: Military armored vehicles, tanks, and tank components

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2,908	2,184	1,615	1,692	2,056	2,254	2,470
Indirect Purchases	105	81	61	64	77	80	87
Total:	3,013	2,265	1,676	1,757	2,133	2,334	2,557

Note: Numbers may not add due to rounding

245: All other transportation equipment

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	61	51	42	44	48	50	52
Indirect Purchases	14	12	10	10	10	10	10
Total:	74	63	52	54	58	60	62

246: Wood kitchen cabinet and countertops

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	0	0	0	0	0	0	0
Indirect Purchases	161	147	124	118	116	112	109
Total:	161	147	124	118	116	112	109

247: Household and institutional furniture

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	188	204	160	140	139	140	137
Indirect Purchases	68	60	56	55	55	55	55
Total:	256	265	215	196	195	195	192

Note: Numbers may not add due to rounding

248: Office furniture (including fixtures)

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	240	226	180	160	157	149	139
Indirect Purchases	107	100	84	79	78	75	73
Total:	346	325	264	239	235	225	213

249: Mattresses, blinds and shades

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	7	9	6	5	5	5	5
Indirect Purchases	13	10	9	10	11	10	10
Total:	20	19	16	15	16	16	15

250: Laboratory apparatus and furniture

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Indirect Purchases	2	2	1	1	1	1	1
Total:	2	2	1	1	1	1	1

Note: Numbers may not add due to rounding

251: Surgical and medical instruments

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	258	263	194	175	168	155	154
Indirect Purchases	163	155	137	131	130	127	126
Total:	421	419	332	306	298	282	281

252: Surgical appliances and supplies

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	511	497	335	275	257	234	233
Indirect Purchases	301	279	251	243	242	237	236
Total:	811	776	586	519	498	471	469

253: Dental equipment and supplies

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	33	32	24	22	21	20	20
Indirect Purchases	114	110	103	101	100	99	99
Total:	148	141	127	123	122	120	119

Note: Numbers may not add due to rounding

254: Ophthalmic goods

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	216	197	161	146	141	138	137
Indirect Purchases	8	7	6	6	6	6	6
Total:	224	204	167	152	147	144	143

255: Dental laboratories

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1	1	1	1	1	1	1
Indirect Purchases	215	206	194	189	188	187	186
Total:	216	207	195	190	189	188	187

256: Jewelry and silverware

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	3	3	2	2	2	2	2
Indirect Purchases	16	15	13	12	12	12	12
Total:	19	18	15	14	14	14	14

Note: Numbers may not add due to rounding

257: Sporting and athletic goods

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	278	297	222	195	187	175	176
Indirect Purchases	22	23	17	16	15	15	15
Total:	300	319	240	210	202	190	190

258: Dolls, toys, and games

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	6	6	5	4	4	4	4
Indirect Purchases	2	2	1	1	1	1	1
Total:	8	7	6	6	6	6	5

259: Office supplies (except paper)

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	608	548	429	408	417	412	404
Indirect Purchases	91	83	71	69	69	67	67
Total:	700	631	500	476	486	480	471

Note: Numbers may not add due to rounding

260: Sign manufacturing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	12	11	9	8	8	7	7
Indirect Purchases	13	12	11	10	10	10	10
Total:	26	24	19	18	18	17	17

261: Gasket, packing, and sealing devices

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	16	15	10	8	8	8	8
Indirect Purchases	242	214	192	190	192	191	190
Total:	258	229	202	199	200	199	198

262: Musical instruments

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	10	10	8	7	7	6	6
Indirect Purchases	5	4	4	3	3	3	3
Total:	15	14	11	10	10	10	10

Note: Numbers may not add due to rounding

263: All other miscellaneous manufacturing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1,026	957	816	763	751	739	740
Indirect Purchases	164	152	133	129	128	126	125
Total:	1,190	1,108	949	892	879	865	865

264: Broom, brush, and mop manufacturing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2	2	2	1	1	1	1
Indirect Purchases	29	26	23	22	22	21	21
Total:	31	28	24	23	23	23	23

265: Wholesale trade

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	629	608	566	550	546	540	538
Indirect Purchases	15,533	13,680	12,434	12,359	12,454	12,323	12,273
Total:	16,162	14,288	13,000	12,910	13,000	12,863	12,811

Note: Numbers may not add due to rounding

266: Retail trade

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1,574	1,526	1,451	1,421	1,415	1,402	1,398
Indirect Purchases	1,964	1,822	1,614	1,545	1,544	1,511	1,504
Total:	3,538	3,348	3,066	2,967	2,959	2,913	2,902

267: Air transportation

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	14,864	13,936	12,261	11,744	11,658	11,475	11,357
Indirect Purchases	2,134	1,921	1,762	1,782	1,798	1,804	1,797
Total:	16,997	15,857	14,023	13,526	13,456	13,279	13,154

268: Rail transportation

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1,873	1,747	1,488	1,390	1,364	1,336	1,319
Indirect Purchases	1,598	1,427	1,254	1,218	1,216	1,197	1,190
Total:	3,471	3,174	2,742	2,608	2,580	2,534	2,509

Note: Numbers may not add due to rounding

269: Water transportation

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	8,127	7,944	6,852	6,541	6,437	6,227	6,175
Indirect Purchases	367	323	314	316	317	312	311
Total:	8,494	8,267	7,166	6,857	6,754	6,539	6,486

270: Truck transportation

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	14,566	13,587	11,557	10,785	10,573	10,361	10,224
Indirect Purchases	5,020	4,511	3,984	3,874	3,859	3,801	3,778
Total:	19,586	18,098	15,541	14,659	14,432	14,162	14,002

271: Transit and ground passenger transportation

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	474	441	379	358	354	347	343
Indirect Purchases	731	661	589	575	574	563	562
Total:	1,206	1,103	967	933	928	911	905

Note: Numbers may not add due to rounding

272: Pipeline transportation

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	0	0	0	0	0	0	0
Indirect Purchases	672	615	527	502	498	489	486
Total:	672	615	528	502	499	490	486

273: Scenic and sightseeing transportation and support activities for transportation

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	4,025	3,744	3,242	3,211	3,199	3,177	3,174
Indirect Purchases	4,466	4,182	3,667	3,528	3,496	3,427	3,399
Total:	8,492	7,927	6,909	6,739	6,695	6,604	6,573

274: Couriers and messengers

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	132	127	121	119	119	118	117
Indirect Purchases	3,106	2,872	2,506	2,409	2,387	2,342	2,325
Total:	3,239	2,999	2,627	2,528	2,505	2,459	2,443

Note: Numbers may not add due to rounding

275: Warehousing and storage

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	3,898	3,645	3,084	2,874	2,817	2,756	2,720
Indirect Purchases	1,672	1,504	1,342	1,313	1,312	1,293	1,287
Total:	5,570	5,150	4,427	4,187	4,129	4,049	4,008

276: Newspaper publishers

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2	2	2	1	1	1	1
Indirect Purchases	14	13	12	11	11	11	11
Total:	16	15	13	13	13	13	13

277: Periodical publishers

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	31	29	22	21	20	19	19
Indirect Purchases	131	117	109	108	108	106	105
Total:	161	146	131	129	128	125	125

Note: Numbers may not add due to rounding

278: Book publishers

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	85	78	62	59	59	59	58
Indirect Purchases	111	101	92	90	89	88	87
Total:	196	179	154	149	149	147	145

279: Directory, mailing list, and other publishers

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	58	55	44	42	42	41	40
Indirect Purchases	216	194	173	168	167	164	164
Total:	274	248	216	210	209	205	204

280: Software publishers

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2,856	2,665	2,283	2,171	2,162	2,138	2,139
Indirect Purchases	2,317	1,990	1,915	1,943	1,977	1,963	1,974
Total:	5,173	4,655	4,199	4,114	4,138	4,100	4,113

Note: Numbers may not add due to rounding

281: Motion picture and video industries

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	61	57	49	46	45	44	44
Indirect Purchases	1,475	1,331	1,162	1,122	1,120	1,104	1,100
Total:	1,536	1,388	1,211	1,168	1,165	1,148	1,144

282: Sound recording industries

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	3	3	2	2	2	2	2
Indirect Purchases	86	78	69	67	67	66	66
Total:	89	81	71	70	70	69	68

283: Radio and television broadcasting

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	44	43	41	40	40	39	39
Indirect Purchases	365	329	293	287	287	283	282
Total:	409	372	333	327	326	323	322

Note: Numbers may not add due to rounding

284: Cable and internet

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	11	10	8	8	8	7	7
Indirect Purchases	975	882	770	743	740	728	726
Total:	987	892	778	750	748	735	733

285: Telecommunications

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	15,010	13,507	11,390	10,740	10,707	10,552	10,512
Indirect Purchases	9,355	8,464	7,418	7,172	7,153	7,038	7,015
Total:	24,365	21,971	18,807	17,913	17,860	17,590	17,527

286: Data processing, hosting and internet service providers

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	324	302	249	231	227	222	220
Indirect Purchases	2,907	2,577	2,339	2,314	2,321	2,281	2,274
Total:	3,231	2,879	2,588	2,546	2,548	2,503	2,494

Note: Numbers may not add due to rounding

287: Other information services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	160	148	117	110	109	107	106
Indirect Purchases	325	291	269	266	266	262	261
Total:	485	438	386	376	375	368	366

288: Monetary authorities and depository credit intermediation

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	0	0	0	0	0	0	0
Indirect Purchases	8,460	7,649	6,892	6,779	6,778	6,679	6,649
Total:	8,460	7,649	6,892	6,779	6,778	6,679	6,649

289: Nondepository credit intermediation and related activities

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	15	14	12	11	11	11	11
Indirect Purchases	2,714	2,442	2,180	2,131	2,131	2,097	2,086
Total:	2,729	2,456	2,192	2,143	2,143	2,108	2,097

Note: Numbers may not add due to rounding

290: Securities, commodity contracts, investments, and related activities

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	200	192	171	159	157	154	151
Indirect Purchases	7,106	6,326	5,742	5,683	5,710	5,620	5,590
Total:	7,307	6,518	5,913	5,842	5,867	5,773	5,741

291: Insurance carriers

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2,864	2,860	2,689	2,638	2,600	2,543	2,494
Indirect Purchases	5,949	5,506	4,871	4,716	4,677	4,588	4,571
Total:	8,813	8,366	7,561	7,354	7,276	7,132	7,065

292: Insurance agencies, brokerages, and related activities

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	21	20	14	12	12	11	11
Indirect Purchases	2,940	2,756	2,493	2,418	2,387	2,335	2,307
Total:	2,961	2,776	2,507	2,431	2,399	2,346	2,318

Note: Numbers may not add due to rounding

293: Funds, trusts, and other financial vehicles

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Indirect Purchases		401	370	336	327	324	317	314
Total:		401	370	336	327	324	317	314

294: Real estate

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Direct Purchases		5,576	5,065	4,210	3,914	3,898	3,862	3,823
Indirect Purchases		15,655	14,264	12,774	12,455	12,408	12,196	12,151
Total:		21,231	19,329	16,984	16,369	16,306	16,059	15,973

296: Automotive equipment rental and leasing

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Direct Purchases		2,071	1,935	1,674	1,589	1,572	1,543	1,525
Indirect Purchases		2,498	2,239	2,015	1,983	1,983	1,953	1,949
Total:		4,569	4,174	3,690	3,572	3,555	3,496	3,473

Note: Numbers may not add due to rounding

297: General and consumer goods rental except video tapes and discs

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	36	32	22	19	18	17	17
Indirect Purchases	389	350	312	305	304	299	298
Total:	425	383	334	323	322	316	315

298: Video tape and disc rental

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	0	0	0	0	0	0	0
Indirect Purchases	0	0	0	0	0	0	0
Total:	0	0	0	0	0	0	0

299: Commercial and industrial machinery and equipment rental and leasing

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	313	322	256	244	239	224	223
Indirect Purchases	2,552	2,334	2,049	1,987	1,977	1,948	1,931
Total:	2,865	2,655	2,305	2,231	2,217	2,172	2,155

Note: Numbers may not add due to rounding

300: Lessors of nonfinancial intangible assets

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	0	0	0	0	0	0	0
Indirect Purchases	5,273	4,652	4,222	4,189	4,226	4,168	4,163
Total:	5,273	4,653	4,222	4,189	4,226	4,169	4,163

301: Legal services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	30	29	22	20	19	18	17
Indirect Purchases	6,290	5,650	5,123	5,052	5,055	4,986	4,969
Total:	6,320	5,679	5,145	5,072	5,074	5,003	4,987

302: Accounting, tax preparation, bookkeeping, and payroll services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	340	334	272	256	251	240	239
Indirect Purchases	3,794	3,424	3,054	2,984	2,979	2,926	2,916
Total:	4,134	3,758	3,326	3,240	3,230	3,167	3,156

Note: Numbers may not add due to rounding

303: Architectural, engineering, and related services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	37,549	35,762	31,229	30,588	30,110	29,266	29,754
Indirect Purchases	7,699	7,000	6,140	5,979	5,949	5,823	5,794
Total:	45,247	42,763	37,369	36,568	36,059	35,089	35,548

304: Specialized design services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	68	62	45	40	38	36	36
Indirect Purchases	2,729	2,430	2,237	2,244	2,266	2,260	2,265
Total:	2,796	2,492	2,282	2,284	2,305	2,296	2,301

305: Custom computer programming services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	4,362	3,966	3,456	3,272	3,238	3,162	3,149
Indirect Purchases	507	443	410	414	412	411	416
Total:	4,869	4,408	3,866	3,686	3,650	3,573	3,565

Note: Numbers may not add due to rounding

306: Computer systems design services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	5,321	4,845	4,287	4,130	4,110	4,028	4,020
Indirect Purchases	829	739	669	661	663	653	653
Total:	6,150	5,584	4,956	4,792	4,773	4,681	4,672

307: Other computer related services, including facilities management

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	7,853	7,572	6,738	6,553	6,526	6,384	6,427
Indirect Purchases	2,920	2,632	2,369	2,328	2,324	2,282	2,281
Total:	10,772	10,204	9,107	8,881	8,850	8,666	8,708

308: Management, scientific, and technical consulting services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	7,196	6,625	5,076	4,592	4,498	4,292	4,287
Indirect Purchases	8,443	7,541	6,848	6,774	6,783	6,656	6,640
Total:	15,640	14,166	11,924	11,366	11,281	10,949	10,926

Note: Numbers may not add due to rounding

309: Environmental and other technical consulting services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1,684	1,520	1,191	1,091	1,069	1,039	1,026
Indirect Purchases	1,216	1,093	986	973	973	953	952
Total:	2,899	2,614	2,177	2,064	2,042	1,993	1,979

310: Scientific research and development services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	40,006	34,888	35,541	36,072	36,138	35,476	35,212
Indirect Purchases	3,702	3,210	2,983	3,011	3,046	3,009	3,020
Total:	43,708	38,098	38,525	39,083	39,184	38,485	38,232

311: Advertising and related services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	982	914	669	592	571	543	537
Indirect Purchases	8,818	7,936	7,206	7,133	7,156	7,098	7,077
Total:	9,801	8,849	7,875	7,726	7,727	7,640	7,614

Note: Numbers may not add due to rounding

312: All other miscellaneous professional, scientific, and technical services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	7,503	6,586	5,942	5,711	5,671	5,648	5,669
Indirect Purchases	4,175	3,730	3,411	3,382	3,390	3,332	3,328
Total:	11,679	10,316	9,353	9,093	9,061	8,980	8,997

313: Photographic services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	9	8	6	6	6	6	6
Indirect Purchases	144	131	117	114	114	111	111
Total:	153	139	123	120	119	117	117

314: Veterinary services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	17	18	15	14	14	13	13
Indirect Purchases	22	20	19	19	19	19	19
Total:	39	38	34	33	33	32	32

Note: Numbers may not add due to rounding

315: Management of companies and enterprises

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Indirect Purchases		25,206	22,266	20,436	20,319	20,419	20,246	20,262
Total:		25,206	22,266	20,436	20,319	20,419	20,246	20,262

316: Office administrative services

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Direct Purchases		519	473	356	320	313	302	298
Indirect Purchases		2,106	1,911	1,708	1,669	1,663	1,632	1,628
Total:		2,625	2,383	2,064	1,989	1,976	1,934	1,926

317: Facilities support services

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Direct Purchases		6,075	5,516	4,140	3,721	3,616	3,477	3,441
Indirect Purchases		496	444	402	399	402	399	399
Total:		6,571	5,960	4,542	4,120	4,018	3,876	3,840

Note: Numbers may not add due to rounding

318: Business support services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	194	186	144	140	139	134	129
Indirect Purchases	2,735	2,435	2,223	2,209	2,223	2,200	2,195
Total:	2,929	2,621	2,367	2,349	2,362	2,334	2,324

319: Investigation and security services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	695	664	529	492	485	466	463
Indirect Purchases	1,363	1,225	1,108	1,094	1,099	1,089	1,087
Total:	2,057	1,889	1,636	1,586	1,584	1,555	1,550

320: Services to buildings and dwellings

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1,479	1,373	1,033	937	918	881	871
Indirect Purchases	3,763	3,374	3,087	3,041	3,038	2,986	2,972
Total:	5,241	4,747	4,119	3,977	3,956	3,868	3,843

Note: Numbers may not add due to rounding

321: Other support services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	1,810	1,672	1,453	1,382	1,374	1,359	1,349
Indirect Purchases	1,906	1,719	1,553	1,536	1,541	1,524	1,525
Total:	3,716	3,391	3,006	2,918	2,915	2,884	2,874

322: Employment services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	258	261	207	196	193	181	180
Indirect Purchases	7,999	7,269	6,500	6,352	6,334	6,234	6,222
Total:	8,257	7,531	6,707	6,548	6,527	6,416	6,402

323: Travel arrangement and reservation services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	12	10	6	5	5	4	4
Indirect Purchases	989	901	809	789	787	773	767
Total:	1,001	911	815	794	791	777	772

Note: Numbers may not add due to rounding

324: Waste management and remediation services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	3,965	3,471	2,400	2,006	1,910	1,837	1,804
Indirect Purchases	2,051	1,849	1,569	1,493	1,480	1,448	1,437
Total:	6,016	5,320	3,969	3,500	3,390	3,284	3,241

325: Elementary and secondary schools

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	39	38	37	36	36	36	36
Indirect Purchases	4	4	4	4	4	5	4
Total:	43	42	40	40	40	40	40

326: Junior colleges, colleges, universities, and professional schools

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	3,017	2,691	2,368	2,241	2,167	2,059	2,002
Indirect Purchases	124	113	100	98	98	97	97
Total:	3,141	2,804	2,468	2,339	2,265	2,156	2,098

Note: Numbers may not add due to rounding

327: Other educational services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2,689	2,432	1,975	1,847	1,830	1,797	1,790
Indirect Purchases	76	69	59	58	58	57	57
Total:	2,765	2,501	2,035	1,904	1,887	1,854	1,847

328: Offices of physicians, dentists, and other health practitioners

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	20,285	19,465	18,335	17,919	17,834	17,683	17,626
Indirect Purchases	20	20	7	8	10	10	14
Total:	20,306	19,485	18,343	17,927	17,844	17,693	17,640

329: Medical and diagnostic labs and outpatient and other ambulatory care services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	381	341	253	223	215	209	206
Indirect Purchases	405	387	360	350	348	345	344
Total:	785	728	613	573	564	553	550

Note: Numbers may not add due to rounding

330: Home health care services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	22	22	21	20	20	20	20
Indirect Purchases	0	0	0	0	0	0	0
Total:	22	22	21	21	20	20	20

331: Hospitals

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	652	653	548	527	521	498	496
Indirect Purchases	2	2	2	2	2	1	2
Total:	654	656	549	528	522	500	498

332: Nursing and residential care facilities

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	39	38	36	36	36	35	35
Indirect Purchases	1	1	1	1	1	1	1
Total:	40	38	37	36	36	36	36

Note: Numbers may not add due to rounding

333: Social assistance, except child day care services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	348	313	248	224	215	204	200
Indirect Purchases	6	6	5	5	6	6	6
Total:	354	319	253	229	220	210	205

334: Child day care services

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	2	1	1	1	1	1	1
Indirect Purchases	6	6	5	5	5	5	5
Total:	8	7	6	6	6	6	6

335: Performing arts

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	17	16	13	12	12	11	11
Indirect Purchases	1,105	997	884	862	861	847	845
Total:	1,122	1,014	897	874	872	858	856

Note: Numbers may not add due to rounding

336: Museums, historical sites, zoos, and parks

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	8	8	5	5	4	4	4
Indirect Purchases	0	0	0	0	0	0	0
Total:	8	8	6	5	5	5	4

337: Spectator sports

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	6	5	3	3	3	3	3
Indirect Purchases	506	457	406	397	397	391	390
Total:	511	462	410	400	400	394	393

338: Amusements, gambling, & recreation activities

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	15	13	10	9	8	8	8
Indirect Purchases	258	232	208	204	204	200	200
Total:	272	246	218	213	212	209	208

Note: Numbers may not add due to rounding

339: Hotels and other accommodations

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	4,653	4,346	3,743	3,544	3,502	3,433	3,392
Indirect Purchases	2,427	2,194	1,977	1,960	1,964	1,941	1,936
Total:	7,080	6,540	5,720	5,504	5,466	5,374	5,328

340: Food services and drinking places

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Direct Purchases	3,817	3,613	3,030	2,859	2,820	2,741	2,714
Indirect Purchases	5,796	5,274	4,706	4,602	4,589	4,508	4,499
Total:	9,612	8,887	7,737	7,461	7,409	7,250	7,212

341: Automotive repair, maintenance and car washes

(Millions of 2015 dollars)

	2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES							
Indirect Purchases	1,719	1,545	1,368	1,332	1,328	1,303	1,294
Total:	1,719	1,545	1,368	1,332	1,328	1,303	1,294

Note: Numbers may not add due to rounding

342: Electronic and precision equipment repair and maintenance

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
<hr/>								
		SUMMARY OF DEFENSE PURCHASES						
Indirect Purchases		984	890	797	781	778	763	760
Total:		984	890	797	781	778	763	761

343: Commercial and industrial machinery and equipment repair and maintenance

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
<hr/>								
		SUMMARY OF DEFENSE PURCHASES						
Indirect Purchases		1,704	1,529	1,358	1,328	1,325	1,301	1,292
Total:		1,704	1,529	1,358	1,328	1,325	1,301	1,292

344: Personal and household goods repair and maintenance

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
<hr/>								
		SUMMARY OF DEFENSE PURCHASES						
Indirect Purchases		831	750	652	629	625	612	608
Total:		831	750	653	629	625	612	608

Note: Numbers may not add due to rounding

345: Personal care services

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Indirect Purchases		2	2	2	2	2	2	2
Total:		2	2	2	2	2	2	2

346: Death care services

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Indirect Purchases		1	0	0	1	1	1	1
Total:		1	1	1	1	1	1	1

347: Dry-cleaning and laundry services

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Indirect Purchases		316	279	253	251	253	248	245
Total:		316	279	253	251	253	248	245

Note: Numbers may not add due to rounding

348: Other personal services

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Indirect Purchases		316	286	256	251	250	245	245
Total:		316	286	256	251	250	245	245

349: Religious, grantmaking, civic & professional organizations

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Indirect Purchases		1,288	1,162	1,048	1,028	1,027	1,008	1,005
Total:		1,288	1,162	1,048	1,028	1,027	1,008	1,005

351: Postal service

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Direct Purchases		2,503	2,271	1,898	1,786	1,789	1,770	1,761
Indirect Purchases		2,252	2,078	1,820	1,756	1,742	1,711	1,700
Total:		4,755	4,350	3,718	3,542	3,531	3,480	3,462

Note: Numbers may not add due to rounding

352: Other federal government enterprises

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Indirect Purchases		74	66	59	58	58	57	57
Total:		74	66	60	58	58	57	57

353: Other state and local government enterprises

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Indirect Purchases		501	452	402	391	390	384	382
Total:		502	452	402	392	390	384	382

354: General Federal defense government services

(Millions of 2015 dollars)

		2013	2014	2015	2016	2017	2018	2019
SUMMARY OF DEFENSE PURCHASES								
Direct Purchases		177,398	186,106	175,412	173,161	172,157	173,145	172,422
Indirect Purchases		169	181	63	74	86	89	132
Total:		177,568	186,287	175,475	173,235	172,243	173,235	172,554

Note: Numbers may not add due to rounding