

# Territorial Economic Accounts for American Samoa, the Commonwealth of the Northern Mariana Islands, Guam, and the U.S. Virgin Islands

## New Estimates of GDP for 2017, New Estimates of GDP by Industry and Compensation by Industry for 2016

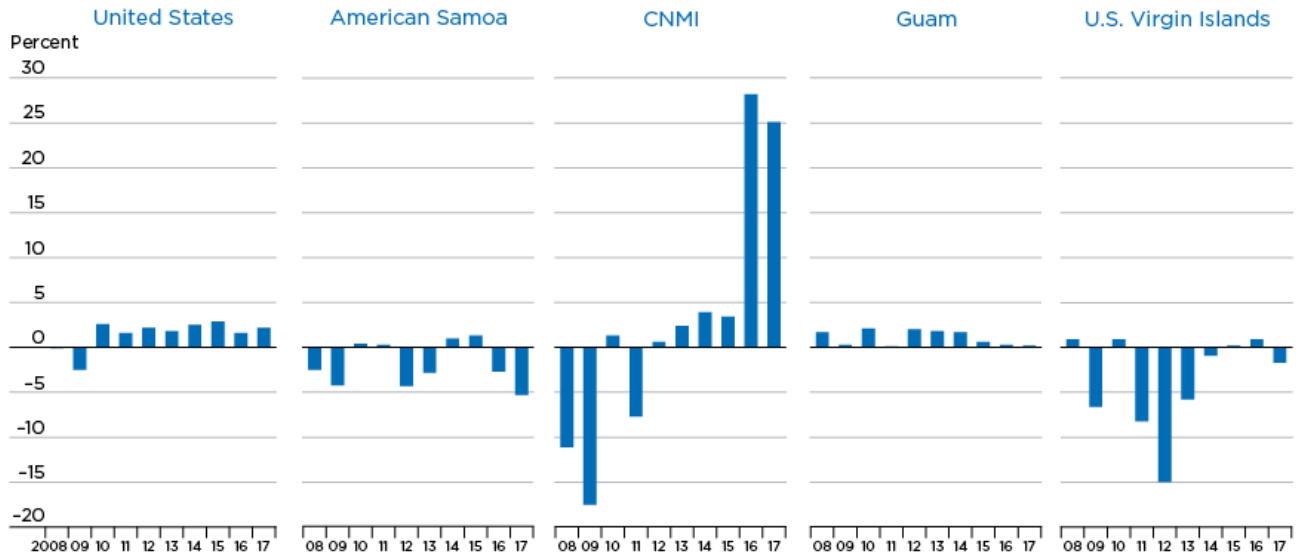
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In collaboration with the U.S. Department of the Interior's Office of Insular Affairs (OIA) and with staff from the territorial governments, the Bureau of Economic Analysis (BEA) produces annual economic accounts for American Samoa, the Commonwealth of the Northern Mariana Islands (CNMI), Guam, and the U.S. Virgin Islands. The OIA provides funding for the work and facilitates interactions between BEA and the territorial governments.<sup>1</sup>

The purpose of this ongoing project is to provide data users with comprehensive, objective measures of economic activity for these four U.S. territories. Consistent measures of economic activity are critical for understanding the territorial economies and how they have developed over time. Without such measures, it is difficult for businesses and governments to make informed economic and financial planning decisions and for policymakers to assess the impacts of their decisions on growth. For the United States, BEA produces gross domestic product (GDP) and other related economic measures as part of its National Income and Product Accounts (NIPAs); however, these estimates cover only the 50 states and the District of Columbia. Transactions with the territories are classified as transactions with the "rest-of-the-world."

This year, BEA released new estimates of GDP for 2017 and revised estimates for 2013–2016.<sup>2</sup> These estimates are shown in chart 1. For comparison, real GDP growth for the United States (excluding the territories) is also shown.

**Chart 1. Percent Change From Preceding Year in Real GDP, 2008–2017**



U.S. Bureau of Economic Analysis

## Highlights

Highlights of the latest GDP estimates for each territory are described below.

### American Samoa

Real GDP decreased 5.3 percent in 2017 (table A.1.3).

- The decline in the American Samoa economy reflected decreases in exports of goods and government spending.
- Exports of canned tuna and related products declined significantly in 2017, following the closure of one of two tuna canneries located in American Samoa.
- Government spending decreased, reflecting a continued decline in investment spending by the territorial government (table A.1.4).<sup>3</sup> Major infrastructure projects, including the Satala Power Plant and the Ta’u solar microgrid, reached their final stages in late 2016.

**Table A.1.1. Gross Domestic Product, American Samoa**  
[Millions of dollars]

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Gross domestic product</b>	<b>520</b>	<b>563</b>	<b>678</b>	<b>576</b>	<b>574</b>	<b>644</b>	<b>641</b>	<b>643</b>	<b>661</b>	<b>653</b>	<b>634</b>
<b>Personal consumption expenditures</b>	<b>383</b>	<b>407</b>	<b>398</b>	<b>402</b>	<b>414</b>	<b>424</b>	<b>447</b>	<b>455</b>	<b>444</b>	<b>446</b>	<b>460</b>
Goods	195	208	196	197	188	189	214	217	207	203	206
Durable goods	23	27	24	25	23	23	29	35	31	30	26
Nondurable goods	171	181	172	172	166	167	185	183	177	174	180
Services	189	202	207	211	229	242	242	248	246	252	264
Net foreign travel	-1	-3	-5	-5	-4	-6	-10	-11	-10	-9	-11
<b>Private fixed investment</b>	<b>41</b>	<b>46</b>	<b>38</b>	<b>49</b>	<b>51</b>	<b>53</b>	<b>60</b>	<b>66</b>	<b>53</b>	<b>51</b>	<b>51</b>
<b>Change in private inventories</b>	<b>-8</b>	<b>-17</b>	<b>-6</b>	<b>-5</b>	<b>-3</b>	<b>0</b>	<b>5</b>	<b>31</b>	<b>24</b>	<b>44</b>	<b>41</b>
<b>Net exports of goods and services</b>	<b>-116</b>	<b>-113</b>	<b>-26</b>	<b>-174</b>	<b>-225</b>	<b>-161</b>	<b>-184</b>	<b>-252</b>	<b>-230</b>	<b>-208</b>	<b>-224</b>
Exports	505	641	530	364	335	482	457	426	427	427	364
Goods	487	621	510	341	313	456	433	400	401	401	336
Services	17	20	20	22	22	26	25	26	26	26	28
Imports	621	754	556	537	559	643	641	678	657	634	588
Goods	571	698	508	489	509	588	587	616	594	572	527
Services	50	56	49	48	50	55	54	63	63	62	60
<b>Government consumption expenditures and gross investment</b>	<b>220</b>	<b>241</b>	<b>275</b>	<b>304</b>	<b>337</b>	<b>329</b>	<b>313</b>	<b>344</b>	<b>370</b>	<b>320</b>	<b>306</b>
Federal	17	20	30	22	23	22	22	24	26	26	26
Territorial	203	220	244	281	314	306	291	319	345	294	281

Note. Detail may not add to total because of rounding.

**Table A.1.2. Real Gross Domestic Product, Chained Dollars, American Samoa**  
[Millions of chained (2009) dollars]

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Gross domestic product</b>	<b>727</b>	<b>708</b>	<b>678</b>	<b>681</b>	<b>683</b>	<b>653</b>	<b>635</b>	<b>641</b>	<b>649</b>	<b>632</b>	<b>598</b>
<b>Personal consumption expenditures</b>	<b>420</b>	<b>410</b>	<b>398</b>	<b>381</b>	<b>364</b>	<b>357</b>	<b>369</b>	<b>372</b>	<b>371</b>	<b>375</b>	<b>374</b>
Goods	216	212	196	187	170	165	183	185	178	175	171
Durable goods	27	27	24	24	21	19	25	29	25	25	22
Nondurable goods	190	185	172	163	149	146	158	156	152	151	150
Services	207	202	207	200	198	197	195	196	201	206	210
Net foreign travel	-3	-4	-5	-6	-4	-6	-8	-9	-8	-7	-7
<b>Private fixed investment</b>	<b>40</b>	<b>45</b>	<b>38</b>	<b>50</b>	<b>52</b>	<b>51</b>	<b>55</b>	<b>59</b>	<b>47</b>	<b>44</b>	<b>44</b>
<b>Change in private inventories</b>	<b>-7</b>	<b>-11</b>	<b>-6</b>	<b>-4</b>	<b>-2</b>	<b>0</b>	<b>4</b>	<b>25</b>	<b>23</b>	<b>43</b>	<b>37</b>
<b>Net exports of goods and services</b>	<b>52</b>	<b>36</b>	<b>-26</b>	<b>-48</b>	<b>-67</b>	<b>-67</b>	<b>-84</b>	<b>-121</b>	<b>-114</b>	<b>-104</b>	<b>-128</b>
Exports	678	675	530	446	394	412	410	428	460	454	358
Goods	658	654	510	424	372	388	387	404	437	432	333
Services	20	20	20	22	20	23	22	23	22	22	23
Imports	626	639	556	494	460	479	494	549	575	558	486
Goods	575	586	508	450	417	433	448	497	523	508	436
Services	51	52	49	45	44	47	46	51	52	50	50
<b>Government consumption expenditures and gross investment</b>	<b>227</b>	<b>239</b>	<b>275</b>	<b>290</b>	<b>309</b>	<b>297</b>	<b>278</b>	<b>299</b>	<b>321</b>	<b>275</b>	<b>258</b>
Federal	18	20	30	22	22	21	20	22	23	23	23
Territorial	209	219	244	268	287	276	258	276	297	252	236
<b>Addenda:</b>											
Population (thousands) <sup>1</sup>	64.8	65.1	62.4	55.5	56.0	56.5	57.0	57.5	58.1	58.6	58.7
Per capita real GDP (chained dollars)	11,219	10,876	10,865	12,270	12,196	11,558	11,140	11,148	11,170	10,785	10,187

1. BEA estimates based on data from the American Samoa Department of Commerce and the U.S. Census Bureau.

**Table A.1.3. Percent Change From Preceding Year in Real Gross Domestic Product, American Samoa**  
[Percent]

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Gross domestic product</b>	-2.5	-4.2	0.4	0.3	-4.3	-2.8	1.0	1.3	-2.7	-5.3
<b>Personal consumption expenditures</b>	-2.4	-2.9	-4.3	-4.6	-2.0	3.5	0.8	-0.3	1.2	-0.2
Goods	-1.9	-7.8	-4.6	-9.3	-2.6	10.8	1.2	-4.0	-1.3	-2.5
Durable goods	3.0	-12.7	0.9	-14.6	-5.7	26.8	17.4	-12.1	-2.9	-12.6
Nondurable goods	-2.5	-7.1	-5.4	-8.5	-2.2	8.6	-1.4	-2.4	-1.0	-0.8
Services	-2.3	2.5	-3.4	-0.9	-0.5	-1.2	0.7	2.4	2.7	2.0
Net foreign travel	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>Private fixed investment</b>	<b>13.5</b>	<b>-15.9</b>	<b>30.9</b>	<b>5.2</b>	<b>-2.3</b>	<b>8.0</b>	<b>6.9</b>	<b>-20.7</b>	<b>-5.4</b>	<b>-1.0</b>
<b>Change in private inventories</b>	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>Net exports of goods and services</b>	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Exports	-0.4	-21.4	-15.8	-11.8	4.7	-0.5	4.4	7.6	-1.3	-21.2
Goods	-0.6	-22.1	-16.8	-12.2	4.1	-0.2	4.4	8.2	-1.3	-22.8
Services	4.9	-0.2	5.4	-5.8	13.0	-6.2	4.9	-1.7	-2.6	5.6
Imports	2.1	-12.9	-11.1	-6.9	4.1	3.1	11.1	4.7	-2.9	-12.9
Goods	1.9	-13.4	-11.4	-7.4	3.8	3.6	11.0	5.1	-2.9	-14.2
Services	3.5	-7.3	-8.0	-2.1	7.3	-2.3	12.1	1.2	-2.8	-1.0
<b>Government consumption expenditures and gross investment</b>	<b>5.4</b>	<b>15.0</b>	<b>5.6</b>	<b>6.6</b>	<b>-4.1</b>	<b>-6.4</b>	<b>7.5</b>	<b>7.4</b>	<b>-14.3</b>	<b>-6.0</b>
Federal	12.3	49.5	-28.1	1.4	-5.6	-3.6	11.0	5.0	-0.7	-2.1
Territorial	4.8	11.8	9.8	7.0	-4.0	-6.6	7.2	7.6	-15.3	-6.3

**Table A.1.4. Contributions to Percent Change in Real Gross Domestic Product, American Samoa**

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Percent change:</b>										
<b>Gross domestic product</b>	<b>-2.5</b>	<b>-4.2</b>	<b>0.4</b>	<b>0.3</b>	<b>-4.3</b>	<b>-2.8</b>	<b>1.0</b>	<b>1.3</b>	<b>-2.7</b>	<b>-5.3</b>
<b>Percentage points:</b>										
<b>Personal consumption expenditures</b>	<b>-1.78</b>	<b>-1.83</b>	<b>-2.84</b>	<b>-3.32</b>	<b>-1.37</b>	<b>2.26</b>	<b>0.57</b>	<b>-0.20</b>	<b>0.77</b>	<b>-0.10</b>
Goods	-0.69	-2.56	-1.50	-3.27	-0.81	3.17	0.39	-1.34	-0.39	-0.77
Durable goods	0.13	-0.54	0.03	-0.66	-0.21	0.94	0.80	-0.65	-0.13	-0.56
Nondurable goods	-0.82	-2.02	-1.54	-2.61	-0.59	2.23	-0.41	-0.68	-0.26	-0.21
Services	-0.83	0.81	-1.18	-0.36	-0.19	-0.45	0.27	0.92	0.99	0.78
Net foreign travel	-0.25	-0.08	-0.16	0.30	-0.38	-0.45	-0.10	0.22	0.18	-0.11
<b>Private fixed investment</b>	<b>0.99</b>	<b>-1.14</b>	<b>1.89</b>	<b>0.44</b>	<b>-0.19</b>	<b>0.67</b>	<b>0.65</b>	<b>-2.12</b>	<b>-0.43</b>	<b>-0.08</b>
<b>Change in private inventories</b>	<b>-0.98</b>	<b>0.90</b>	<b>0.43</b>	<b>0.35</b>	<b>0.48</b>	<b>0.83</b>	<b>3.93</b>	<b>-0.42</b>	<b>3.05</b>	<b>-0.84</b>
<b>Net exports of goods and services</b>	<b>-2.99</b>	<b>-7.80</b>	<b>-1.70</b>	<b>-0.80</b>	<b>-0.97</b>	<b>-3.33</b>	<b>-7.86</b>	<b>0.05</b>	<b>1.95</b>	<b>-1.40</b>
Exports	-0.46	-22.11	-12.25	-7.65	2.96	-0.36	2.99	4.81	-0.87	-14.19
Goods	-0.62	-22.11	-12.43	-7.42	2.49	-0.12	2.79	4.88	-0.76	-14.41
Services	0.16	-0.01	0.18	-0.23	0.47	-0.25	0.19	-0.07	-0.10	0.22
Imports	-2.53	14.31	10.55	6.86	-3.93	-2.97	-10.84	-4.77	2.81	12.78
Goods	-2.19	13.69	9.88	6.67	-3.33	-3.17	-9.80	-4.65	2.54	12.69
Services	-0.33	0.62	0.66	0.18	-0.60	0.20	-1.05	-0.11	0.27	0.10
<b>Government consumption expenditures and gross investment</b>	<b>2.21</b>	<b>5.67</b>	<b>2.58</b>	<b>3.58</b>	<b>-2.27</b>	<b>-3.24</b>	<b>3.71</b>	<b>3.95</b>	<b>-7.99</b>	<b>-2.91</b>
Federal	0.40	1.58	-1.40	0.06	-0.21	-0.12	0.37	0.19	-0.03	-0.08
Territorial	1.81	4.09	3.98	3.52	-2.06	-3.12	3.34	3.76	-7.97	-2.83

**Table A.1.5. Percent Change From Preceding Year in Prices for Gross Domestic Product, American Samoa**  
[Percent]

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Gross domestic product</b>	11.1	25.7	-15.4	-0.6	17.3	2.3	-0.6	1.4	1.6	2.6
<b>Personal consumption expenditures</b>	8.9	0.8	5.4	7.8	4.7	1.8	1.0	-2.2	-0.6	3.2

**Table A.2.1. Value Added by Industry, American Samoa**  
[Millions of dollars]

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Gross domestic product</b>	520	563	678	576	574	644	641	643	661	653
<b>Private industries</b>	365	404	514	389	389	450	450	455	465	457
Manufacturing	77	112	163	41	21	89	93	77	92	89
Nonmanufacturing	288	291	351	348	368	361	358	378	374	367
<b>Government</b>	156	160	165	187	185	195	190	188	195	196
Federal	14	16	18	18	17	17	18	18	18	19
Territorial	142	144	146	169	168	177	172	171	177	178

Note. Detail may not add to total because of rounding.

**Table A.2.2. Real Value Added by Industry, American Samoa**  
[Millions of chained (2009) dollars]

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Gross domestic product</b>	727	708	678	681	683	653	635	641	649	632
<b>Private industries</b>	568	544	514	501	514	474	464	478	485	469
Manufacturing	204	205	163	143	132	138	135	140	160	156
Nonmanufacturing	366	345	351	353	365	331	324	334	330	318
<b>Government</b>	163	166	165	177	170	176	168	162	163	161
Federal	14	17	18	17	16	16	17	16	16	16
Territorial	148	149	146	160	154	160	151	146	147	145

**Table A.2.3. Percent Changes in Real Value Added by Industry, American Samoa**  
[Percent]

	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Gross domestic product</b>	-2.5	-4.2	0.4	0.3	-4.3	-2.8	1.0	1.3	-2.7
<b>Private industries</b>	-4.2	-5.5	-2.4	2.5	-7.7	-2.2	3.1	1.4	-3.3
Manufacturing	0.4	-20.3	-12.3	-7.9	4.9	-1.9	3.3	14.5	-2.7
Nonmanufacturing	-5.7	1.7	0.7	3.4	-9.3	-2.2	3.1	-1.3	-3.5
<b>Government</b>	1.7	-0.6	7.8	-4.2	3.4	-4.3	-3.9	0.8	-1.0
Federal	14.7	10.7	-7.6	-4.4	-0.8	4.8	-4.1	-1.0	1.8
Territorial	0.4	-1.8	9.7	-4.1	3.8	-5.2	-3.8	1.0	-1.3

**Table A.2.4. Contributions to Percent Change in Real Gross Domestic Product by Industry, American Samoa**

	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Percent change:</b>									
<b>Gross domestic product</b>	-2.5	-4.2	0.4	0.3	-4.3	-2.8	1.0	1.3	-2.7
<b>Percentage points:</b>									
<b>Private industries</b>	-3.03	-4.14	-1.81	1.64	-5.34	-1.51	2.17	1.01	-2.35
Manufacturing	0.07	-4.98	-2.21	-0.47	0.40	-0.27	0.43	1.75	-0.37
Nonmanufacturing	-3.10	0.84	0.40	2.11	-5.74	-1.24	1.74	-0.74	-1.98
<b>Government</b>	0.48	-0.14	2.14	-1.38	1.02	-1.30	-1.17	0.25	-0.31
Federal	0.38	0.28	-0.23	-0.14	-0.02	0.13	-0.12	-0.03	0.05
Territorial	0.11	-0.42	2.37	-1.24	1.04	-1.43	-1.05	0.28	-0.36

Note. Percentage-point contributions do not sum to the percent change in real gross domestic product because of rounding and differences in source data used to estimate GDP by industry and the expenditures measure of real GDP.

**Table A.2.5. Compensation of Employees by Industry, American Samoa**

[Millions of dollars]

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total compensation</b>	265	274	271	270	262	272	279	297	311	312
<b>Private industries</b>	125	131	125	97	97	103	107	119	126	130
Manufacturing	52	59	53	31	27	40	42	46	54	54
Nonmanufacturing	73	72	71	66	70	63	65	74	72	75
<b>Government</b>	140	143	147	173	164	169	171	178	185	183
Federal	13	16	18	17	17	17	17	17	17	18
Territorial	127	127	129	156	148	152	154	161	167	165

Note. Detail may not add to total because of rounding.

## Commonwealth of the Northern Mariana Islands (CNMI)

Real GDP increased 25.1 percent in 2017 (table B.1.3).

- The growth in the CNMI economy primarily reflected a continued increase in gaming industry activity.
- Exports of services was the largest contributor to economic growth in 2017, reflecting growth in visitor spending, particularly on casino gambling (table B.1.4).
- Business spending on construction and equipment remained at historically high levels, supported by continued development of the casino resort on Saipan.

**Table B.1.1. Gross Domestic Product, Commonwealth of the Northern Mariana Islands**

[Millions of dollars]

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Gross domestic product</b>	<b>938</b>	<b>939</b>	<b>795</b>	<b>799</b>	<b>733</b>	<b>751</b>	<b>782</b>	<b>845</b>	<b>931</b>	<b>1,250</b>	<b>1,593</b>
<b>Personal consumption expenditures</b>	<b>480</b>	<b>504</b>	<b>431</b>	<b>442</b>	<b>451</b>	<b>469</b>	<b>494</b>	<b>520</b>	<b>526</b>	<b>551</b>	<b>597</b>
Goods	358	387	332	354	366	399	424	451	453	462	523
Durable goods	137	142	119	130	132	143	166	186	194	202	227
Nondurable goods	222	245	213	224	234	256	257	265	258	259	296
Services	409	427	381	398	378	427	460	498	556	965	1,214
Net foreign travel	-287	-310	-283	-309	-293	-357	-390	-429	-483	-876	-1,140
<b>Private fixed investment</b>	<b>79</b>	<b>83</b>	<b>85</b>	<b>77</b>	<b>74</b>	<b>79</b>	<b>87</b>	<b>123</b>	<b>198</b>	<b>327</b>	<b>301</b>
<b>Net exports of goods and services</b>	<b>47</b>	<b>29</b>	<b>-47</b>	<b>-70</b>	<b>-132</b>	<b>-98</b>	<b>-111</b>	<b>-110</b>	<b>-130</b>	<b>0</b>	<b>296</b>
Exports	627	488	312	335	317	380	414	451	504	903	1,170
Goods	333	172	23	19	17	16	17	15	13	19	23
Services	293	316	289	316	300	364	397	436	491	883	1,148
Imports	579	459	360	405	449	478	525	561	633	902	874
Goods	498	394	307	346	384	409	449	477	488	636	632
Services	81	66	53	59	65	69	76	84	145	267	242
<b>Government consumption expenditures and gross investment</b>	<b>332</b>	<b>324</b>	<b>327</b>	<b>349</b>	<b>340</b>	<b>301</b>	<b>312</b>	<b>312</b>	<b>336</b>	<b>372</b>	<b>400</b>
Federal	13	15	20	22	22	21	20	22	29	26	26
Territorial	319	308	306	327	318	279	292	290	308	346	374

Note. Detail may not add to total because of rounding.

**Table B.1.2. Real Gross Domestic Product, Chained Dollars, Commonwealth of the Northern Mariana Islands**

[Millions of chained (2009) dollars]

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Gross domestic product</b>	<b>1,084</b>	<b>964</b>	<b>795</b>	<b>806</b>	<b>744</b>	<b>748</b>	<b>766</b>	<b>795</b>	<b>822</b>	<b>1,054</b>	<b>1,319</b>
<b>Personal consumption expenditures</b>	<b>516</b>	<b>509</b>	<b>431</b>	<b>444</b>	<b>430</b>	<b>440</b>	<b>463</b>	<b>483</b>	<b>499</b>	<b>518</b>	<b>545</b>
Goods	395	400	332	349	338	363	388	403	414	422	463
Durable goods	149	149	119	127	121	131	153	169	185	190	203
Nondurable goods	246	251	213	222	217	232	234	235	230	233	260
Services	434	433	381	389	354	390	413	435	485	812	1,006
Net foreign travel	-313	-324	-283	-294	-263	-313	-336	-353	-400	-732	-945
<b>Private fixed investment</b>	<b>80</b>	<b>82</b>	<b>85</b>	<b>78</b>	<b>72</b>	<b>76</b>	<b>84</b>	<b>119</b>	<b>193</b>	<b>320</b>	<b>292</b>
<b>Net exports of goods and services</b>	<b>147</b>	<b>48</b>	<b>-47</b>	<b>-56</b>	<b>-82</b>	<b>-52</b>	<b>-64</b>	<b>-76</b>	<b>-148</b>	<b>-105</b>	<b>138</b>
Exports	747	476	312	320	284	333	357	373	415	721	920
Goods	396	138	23	19	15	14	15	13	12	18	20
Services	320	331	289	300	269	319	342	359	402	702	898
Imports	600	428	360	376	367	384	421	449	563	825	782
Goods	511	361	307	320	308	323	354	378	440	594	574
Services	88	67	53	56	59	61	67	71	124	229	206
<b>Government consumption expenditures and gross investment</b>	<b>348</b>	<b>326</b>	<b>327</b>	<b>341</b>	<b>327</b>	<b>286</b>	<b>289</b>	<b>279</b>	<b>297</b>	<b>324</b>	<b>340</b>
Federal	13	16	20	21	21	20	19	20	25	23	22
Territorial	335	310	306	320	307	265	270	259	272	301	317
<b>Addenda:</b>											
Population (thousands) <sup>1</sup>	59.3	57.6	55.5	53.5	52.2	51.4	51.2	51.0	50.8	50.6	50.3
Per capita real GDP (chained dollars)	18,280	16,736	14,324	15,065	14,253	14,553	14,961	15,588	16,181	20,830	26,223

1. Source: U.S. Census Bureau.

Note. Estimates of population for 2013–2017 reflect the incorporation of updated information from the U.S. Census Bureau's International Data Base.



**Table B.1.3. Percent Change From Preceding Year in Real Gross Domestic Product, Commonwealth of the Northern Mariana Islands**

[Percent]

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Gross domestic product</b>	<b>-11.1</b>	<b>-17.5</b>	<b>1.3</b>	<b>-7.7</b>	<b>0.6</b>	<b>2.4</b>	<b>3.9</b>	<b>3.4</b>	<b>28.2</b>	<b>25.1</b>
<b>Personal consumption expenditures</b>	<b>-1.4</b>	<b>-15.4</b>	<b>3.0</b>	<b>-3.2</b>	<b>2.4</b>	<b>5.3</b>	<b>4.2</b>	<b>3.4</b>	<b>3.7</b>	<b>5.3</b>
Goods	1.3	-17.1	5.1	-3.0	7.4	6.7	4.0	2.7	2.0	9.6
Durable goods	0.2	-20.2	6.7	-5.0	8.5	17.0	10.0	9.5	3.1	6.7
Nondurable goods	2.0	-15.3	4.1	-1.9	6.8	1.0	0.1	-2.1	1.2	11.9
Services	-0.3	-11.9	2.0	-9.1	10.4	5.7	5.3	11.6	67.4	23.9
Net foreign travel	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>Private fixed investment</b>	<b>2.1</b>	<b>4.4</b>	<b>-8.9</b>	<b>-6.9</b>	<b>5.6</b>	<b>9.4</b>	<b>42.2</b>	<b>62.6</b>	<b>65.7</b>	<b>-8.9</b>
<b>Net exports of goods and services</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>
Exports	-36.3	-34.4	2.4	-11.1	17.1	7.2	4.5	11.3	73.8	27.6
Goods	-65.2	-83.4	-16.7	-20.8	-8.6	6.9	-11.7	-9.0	48.2	16.5
Services	3.4	-12.5	3.8	-10.5	18.5	7.3	5.2	11.9	74.5	27.8
Imports	-28.6	-16.0	4.5	-2.5	4.8	9.5	6.7	25.4	46.6	-5.3
Goods	-29.3	-15.0	4.3	-3.8	5.0	9.6	6.6	16.4	35.0	-3.3
Services	-24.3	-21.2	6.0	5.7	3.8	8.8	7.3	73.4	85.3	-10.1
<b>Government consumption expenditures and gross investment</b>	<b>-6.4</b>	<b>0.2</b>	<b>4.4</b>	<b>-4.0</b>	<b>-12.8</b>	<b>1.1</b>	<b>-3.2</b>	<b>6.3</b>	<b>9.2</b>	<b>4.7</b>
Federal	19.2	30.7	4.4	-3.6	-2.5	-6.4	7.4	26.3	-9.5	-3.3
Territorial	-7.4	-1.3	4.4	-4.0	-13.5	1.7	-4.0	4.8	10.9	5.4

**Table B.1.4. Contributions to Percent Change in Real Gross Domestic Product, Commonwealth of the Northern Mariana Islands**

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Percent change:</b>										
<b>Gross domestic product</b>	<b>-11.1</b>	<b>-17.5</b>	<b>1.3</b>	<b>-7.7</b>	<b>0.6</b>	<b>2.4</b>	<b>3.9</b>	<b>3.4</b>	<b>28.2</b>	<b>25.1</b>
<b>Percentage points:</b>										
<b>Personal consumption expenditures</b>	<b>-0.68</b>	<b>-8.36</b>	<b>1.65</b>	<b>-1.80</b>	<b>1.47</b>	<b>3.27</b>	<b>2.63</b>	<b>2.00</b>	<b>2.07</b>	<b>2.34</b>
Goods	0.48	-7.20	2.14	-1.39	3.69	3.55	2.13	1.37	0.95	3.56
Durable goods	0.03	-3.14	1.02	-0.84	1.52	3.22	2.09	1.99	0.63	1.11
Nondurable goods	0.45	-4.06	1.12	-0.55	2.17	0.33	0.04	-0.63	0.31	2.46
Services	-0.13	-5.45	0.99	-4.67	5.37	3.25	3.13	6.64	40.08	18.42
Net foreign travel	-1.02	4.28	-1.47	4.25	-7.60	-3.52	-2.64	-6.00	-38.96	-19.64
<b>Private fixed investment</b>	<b>0.17</b>	<b>0.38</b>	<b>-0.96</b>	<b>-0.67</b>	<b>0.56</b>	<b>0.98</b>	<b>4.59</b>	<b>8.83</b>	<b>13.64</b>	<b>-2.32</b>
<b>Net exports of goods and services</b>	<b>-8.43</b>	<b>-9.64</b>	<b>-1.19</b>	<b>-3.46</b>	<b>4.44</b>	<b>-2.35</b>	<b>-2.05</b>	<b>-9.70</b>	<b>9.18</b>	<b>23.68</b>
Exports	-25.55	-17.22	0.95	-4.80	7.39	3.66	2.38	5.85	39.63	19.89
Goods	-26.56	-12.91	-0.49	-0.53	-0.20	0.14	-0.25	-0.15	0.66	0.25
Services	1.01	-4.31	1.44	-4.27	7.58	3.52	2.63	6.00	38.97	19.63
Imports	17.13	7.58	-2.14	1.35	-2.95	-6.01	-4.43	-15.55	-30.45	3.79
Goods	15.13	6.08	-1.74	1.78	-2.62	-5.21	-3.73	-8.49	-17.55	1.66
Services	2.00	1.50	-0.41	-0.43	-0.33	-0.80	-0.70	-7.06	-12.89	2.13
<b>Government consumption expenditures and gross investment</b>	<b>-2.12</b>	<b>0.08</b>	<b>1.82</b>	<b>-1.75</b>	<b>-5.92</b>	<b>0.45</b>	<b>-1.28</b>	<b>2.28</b>	<b>3.26</b>	<b>1.42</b>
Federal	0.24	0.51	0.11	-0.10	-0.07	-0.18	0.19	0.68	-0.29	-0.07
Territorial	-2.36	-0.43	1.71	-1.65	-5.84	0.63	-1.47	1.60	3.55	1.48

**Table B.1.5. Percent Change From Preceding Year in Prices for Gross Domestic Product, Commonwealth of the Northern Mariana Islands**

[Percent]

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Gross domestic product</b>	12.5	2.7	-0.8	-0.7	1.9	1.7	4.1	6.5	4.8	1.9
<b>Personal consumption expenditures</b>	6.3	1.1	-0.4	5.3	1.6	-0.1	1.1	-2.2	1.0	3.0

**Table B.2.1. Value Added by Industry, Commonwealth of the Northern Mariana Islands**

[Millions of dollars]

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Gross domestic product</b>	938	939	795	799	733	751	782	845	931	1,250
<b>Private industries</b>	717	727	586	589	540	563	583	642	716	1,024
Manufacturing	174	50	18	16	15	12	11	15	18	22
Distributive services	140	165	135	149	153	157	170	178	187	196
Accommodations and amusement	111	122	105	110	97	114	134	149	188	450
All other	291	390	328	314	274	280	269	301	323	355
<b>Government</b>	222	212	209	210	193	188	198	203	215	226
Federal	13	14	16	14	15	15	15	14	16	16
Territorial	209	197	193	196	178	173	184	189	199	210

Note. Detail may not add to total because of rounding.

**Table B.2.2. Real Value Added by Industry, Commonwealth of the Northern Mariana Islands**

[Millions of chained (2009) dollars]

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Gross domestic product</b>	1,084	964	795	806	744	748	766	795	822	1,054
<b>Private industries</b>	846	745	586	601	560	573	585	616	639	864
Manufacturing	181	52	18	16	15	11	10	13	16	20
Distributive services	147	169	135	147	148	148	158	164	170	179
Accommodations and amusement	120	128	105	110	98	110	126	136	165	364
All other	391	396	328	328	298	303	288	298	283	289
<b>Government</b>	237	219	209	204	184	176	182	182	185	192
Federal	13	15	16	14	14	14	13	13	13	14
Territorial	224	205	193	191	170	163	168	169	172	178

**Table B.2.3. Percent Changes in Real Value Added by Industry, Commonwealth of the Northern Mariana Islands**

[Percent]

	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Gross domestic product</b>	-11.1	-17.5	1.3	-7.7	0.6	2.4	3.9	3.4	28.2
<b>Private industries</b>	-12.0	-21.3	2.6	-6.9	2.3	2.1	5.2	3.8	35.3
Manufacturing	-71.4	-65.4	-10.5	-7.8	-27.3	-6.5	32.3	21.1	23.1
Distributive services	15.1	-20.4	9.3	0.8	-0.3	7.1	3.8	3.4	5.4
Accommodations and amusement	6.9	-17.8	4.2	-11.0	13.0	13.8	8.4	20.8	121.2
All other	1.2	-17.1	0.1	-9.1	1.6	-5.2	3.5	-4.9	2.1
<b>Government</b>	-7.5	-4.6	-2.3	-9.9	-4.3	3.1	-0.1	2.0	3.7
Federal	10.0	9.9	-15.1	1.5	-2.4	-2.1	-3.8	4.7	3.9
Territorial	-8.6	-5.6	-1.2	-10.8	-4.5	3.6	0.2	1.8	3.7

**Table B.2.4. Contributions to Percent Change in Real Gross Domestic Product by Industry, Commonwealth of the Northern Mariana Islands**

	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Percent change:</b>									
<b>Gross domestic product</b>	<b>-11.1</b>	<b>-17.5</b>	<b>1.3</b>	<b>-7.7</b>	<b>0.6</b>	<b>2.4</b>	<b>3.9</b>	<b>3.4</b>	<b>28.2</b>
<b>Percentage points:</b>									
<b>Private industries</b>	<b>-9.27</b>	<b>-16.49</b>	<b>1.94</b>	<b>-5.05</b>	<b>1.68</b>	<b>1.57</b>	<b>3.91</b>	<b>2.88</b>	<b>27.29</b>
Manufacturing	-12.60	-3.50	-0.24	-0.16	-0.58	-0.10	0.45	0.36	0.44
Distributive services	2.16	-3.58	1.58	0.16	-0.06	1.48	0.82	0.70	1.05
Accommodations and amusement	0.78	-2.34	0.55	-1.52	1.74	2.12	1.42	3.63	25.07
All other	0.39	-7.07	0.04	-3.53	0.58	-1.92	1.22	-1.81	0.72
<b>Government</b>	<b>-1.71</b>	<b>-1.04</b>	<b>-0.61</b>	<b>-2.65</b>	<b>-1.13</b>	<b>0.79</b>	<b>-0.03</b>	<b>0.49</b>	<b>0.84</b>
Federal	0.13	0.15	-0.32	0.03	-0.05	-0.04	-0.07	0.08	0.06
Territorial	-1.84	-1.19	-0.30	-2.68	-1.08	0.83	0.04	0.41	0.77

Note. Percentage-point contributions do not sum to the percent change in real gross domestic product because of rounding and differences in source data used to estimate GDP by industry and the expenditures measure of real GDP.

**Table B.2.5. Compensation of Employees by Industry, Commonwealth of the Northern Mariana Islands**  
[Millions of dollars]

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total compensation</b>	<b>533</b>	<b>501</b>	<b>455</b>	<b>456</b>	<b>431</b>	<b>415</b>	<b>433</b>	<b>469</b>	<b>497</b>	<b>581</b>
<b>Private industries</b>	<b>336</b>	<b>307</b>	<b>263</b>	<b>264</b>	<b>259</b>	<b>252</b>	<b>267</b>	<b>298</b>	<b>311</b>	<b>383</b>
Manufacturing	74	26	9	8	8	8	7	10	12	15
Distributive services	62	72	58	62	62	63	67	71	74	78
Accommodations and amusement	61	67	58	60	54	64	74	83	104	150
All other	140	142	137	134	135	119	118	135	121	141
<b>Government</b>	<b>197</b>	<b>194</b>	<b>192</b>	<b>191</b>	<b>172</b>	<b>163</b>	<b>166</b>	<b>171</b>	<b>186</b>	<b>198</b>
Federal	13	14	16	14	14	14	14	14	15	16
Territorial	184	180	176	177	158	149	152	158	171	182

Note. Detail may not add to total because of rounding.

## Guam

Real GDP increased 0.2 percent in 2017 (table C.1.3).

- The growth in the Guam economy reflected an increase in consumer spending (table C.1.4).
- Consumer spending increased for the seventh consecutive year in 2017, driven by growth in retail trade activity.

**Table C.1.1. Gross Domestic Product, Guam**

[Millions of dollars]

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Gross domestic product</b>	<b>4,375</b>	<b>4,621</b>	<b>4,781</b>	<b>4,895</b>	<b>4,928</b>	<b>5,199</b>	<b>5,336</b>	<b>5,538</b>	<b>5,710</b>	<b>5,793</b>	<b>5,859</b>
<b>Personal consumption expenditures</b>	<b>2,536</b>	<b>2,753</b>	<b>2,813</b>	<b>2,816</b>	<b>2,905</b>	<b>3,153</b>	<b>3,146</b>	<b>3,194</b>	<b>3,181</b>	<b>3,256</b>	<b>3,380</b>
Goods	1,414	1,512	1,448	1,462	1,564	1,765	1,709	1,717	1,664	1,704	1,782
Durable goods	518	542	520	523	564	635	616	596	586	607	640
Nondurable goods	897	970	928	939	1,001	1,130	1,093	1,120	1,078	1,097	1,142
Services	2,007	2,076	2,100	2,123	2,131	2,279	2,307	2,417	2,487	2,587	2,628
Net foreign travel	-885	-835	-735	-769	-790	-892	-871	-940	-969	-1,036	-1,030
<b>Private fixed investment</b>	<b>921</b>	<b>1,057</b>	<b>1,081</b>	<b>1,057</b>	<b>1,027</b>	<b>1,044</b>	<b>1,224</b>	<b>1,308</b>	<b>1,242</b>	<b>1,184</b>	<b>1,179</b>
<b>Net exports of goods and services</b>	<b>-1,483</b>	<b>-1,699</b>	<b>-1,801</b>	<b>-1,873</b>	<b>-2,021</b>	<b>-2,033</b>	<b>-2,153</b>	<b>-2,225</b>	<b>-1,994</b>	<b>-1,854</b>	<b>-1,887</b>
Exports	1,005	973	838	846	928	1,004	1,053	1,058	1,048	1,123	1,128
Goods	115	133	98	73	133	107	177	112	73	82	92
Services	890	840	740	774	795	897	876	946	975	1,041	1,036
Imports	2,489	2,673	2,639	2,719	2,949	3,037	3,206	3,283	3,042	2,976	3,015
Goods	2,018	2,115	2,051	2,098	2,289	2,395	2,512	2,558	2,331	2,285	2,324
Services	470	558	588	621	661	642	694	725	711	691	690
<b>Government consumption expenditures and gross investment</b>	<b>2,402</b>	<b>2,510</b>	<b>2,688</b>	<b>2,894</b>	<b>3,017</b>	<b>3,035</b>	<b>3,120</b>	<b>3,261</b>	<b>3,281</b>	<b>3,208</b>	<b>3,187</b>
Federal	1,491	1,597	1,738	1,854	1,895	1,898	1,890	1,965	2,011	1,987	1,905
Territorial	911	913	950	1,039	1,121	1,138	1,230	1,296	1,270	1,221	1,282

Note. Detail may not add to total because of rounding.

**Table C.1.2. Real Gross Domestic Product, Chained Dollars, Guam**

[Millions of chained (2009) dollars]

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Gross domestic product</b>	<b>4,685</b>	<b>4,766</b>	<b>4,781</b>	<b>4,881</b>	<b>4,887</b>	<b>4,986</b>	<b>5,077</b>	<b>5,165</b>	<b>5,194</b>	<b>5,207</b>	<b>5,217</b>
<b>Personal consumption expenditures</b>	<b>2,725</b>	<b>2,794</b>	<b>2,813</b>	<b>2,782</b>	<b>2,823</b>	<b>2,925</b>	<b>2,929</b>	<b>2,949</b>	<b>2,971</b>	<b>3,018</b>	<b>3,078</b>
Goods	1,507	1,520	1,448	1,477	1,551	1,686	1,650	1,648	1,628	1,671	1,717
Durable goods	553	538	520	529	575	631	628	618	626	639	649
Nondurable goods	954	983	928	948	976	1,056	1,024	1,030	1,004	1,035	1,070
Services	2,154	2,121	2,100	2,068	2,040	2,084	2,112	2,189	2,247	2,316	2,322
Net foreign travel	-937	-849	-735	-763	-766	-840	-830	-887	-906	-973	-963
<b>Private fixed investment</b>	<b>921</b>	<b>1,038</b>	<b>1,081</b>	<b>1,062</b>	<b>1,015</b>	<b>1,015</b>	<b>1,181</b>	<b>1,247</b>	<b>1,185</b>	<b>1,132</b>	<b>1,112</b>
<b>Net exports of goods and services</b>	<b>-1,448</b>	<b>-1,581</b>	<b>-1,801</b>	<b>-1,808</b>	<b>-1,845</b>	<b>-1,829</b>	<b>-1,933</b>	<b>-1,985</b>	<b>-1,902</b>	<b>-1,805</b>	<b>-1,777</b>
Exports	1,061	977	838	837	892	938	996	992	976	1,052	1,052
Goods	120	124	98	70	118	93	156	99	66	76	85
Services	942	853	740	767	771	845	835	892	911	978	968
Imports	2,509	2,558	2,639	2,646	2,737	2,767	2,928	2,977	2,878	2,858	2,829
Goods	2,031	2,008	2,051	2,024	2,090	2,149	2,274	2,309	2,232	2,237	2,224
Services	477	550	588	623	648	616	653	666	644	620	606
<b>Government consumption expenditures and gross investment</b>	<b>2,490</b>	<b>2,513</b>	<b>2,688</b>	<b>2,844</b>	<b>2,895</b>	<b>2,874</b>	<b>2,908</b>	<b>2,962</b>	<b>2,946</b>	<b>2,872</b>	<b>2,817</b>
Federal	1,528	1,587	1,738	1,818	1,817	1,791	1,773	1,814	1,837	1,801	1,690
Territorial	964	926	950	1,025	1,078	1,083	1,135	1,148	1,111	1,074	1,127
<b>Addenda:</b>											
Population (thousands) <sup>1</sup>	158.0	158.4	158.9	159.4	159.5	159.8	160.5	161.0	161.5	162.0	162.5
Per capita real GDP (chained dollars)	29,652	30,088	30,088	30,621	30,639	31,202	31,632	32,081	32,161	32,142	32,105

1. Source: U.S. Census Bureau.

**Table C.1.3. Percent Change From Preceding Year in Real Gross Domestic Product, Guam**  
[Percent]

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Gross domestic product</b>	<b>1.7</b>	<b>0.3</b>	<b>2.1</b>	<b>0.1</b>	<b>2.0</b>	<b>1.8</b>	<b>1.7</b>	<b>0.6</b>	<b>0.3</b>	<b>0.2</b>
<b>Personal consumption expenditures</b>	<b>2.5</b>	<b>0.7</b>	<b>-1.1</b>	<b>1.5</b>	<b>3.6</b>	<b>0.1</b>	<b>0.7</b>	<b>0.7</b>	<b>1.6</b>	<b>2.0</b>
Goods	0.9	-4.8	2.0	5.0	8.7	-2.1	-0.1	-1.2	2.7	2.7
Durable goods	-2.8	-3.3	1.7	8.8	9.7	-0.6	-1.5	1.2	2.1	1.6
Nondurable goods	3.0	-5.6	2.2	3.0	8.2	-3.0	0.6	-2.5	3.0	3.4
Services	-1.5	-1.0	-1.5	-1.4	2.1	1.3	3.6	2.7	3.1	0.3
Net foreign travel	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>Private fixed investment</b>	<b>12.8</b>	<b>4.1</b>	<b>-1.7</b>	<b>-4.4</b>	<b>0.0</b>	<b>16.4</b>	<b>5.6</b>	<b>-5.0</b>	<b>-4.5</b>	<b>-1.8</b>
<b>Net exports of goods and services</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>	<b>.....</b>
Exports	-7.9	-14.2	-0.1	6.5	5.2	6.1	-0.4	-1.6	7.8	0.0
Goods	3.1	-20.8	-28.2	68.1	-21.3	67.5	-36.3	-33.3	14.4	12.7
Services	-9.4	-13.3	3.7	0.4	9.6	-1.2	6.8	2.1	7.3	-1.0
Imports	2.0	3.1	0.3	3.4	1.1	5.8	1.7	-3.3	-0.7	-1.0
Goods	-1.1	2.2	-1.3	3.3	2.9	5.8	1.5	-3.3	0.2	-0.6
Services	15.3	6.8	5.9	4.1	-5.0	6.0	2.0	-3.3	-3.7	-2.4
<b>Government consumption expenditures and gross investment</b>	<b>0.9</b>	<b>6.9</b>	<b>5.8</b>	<b>1.8</b>	<b>-0.7</b>	<b>1.2</b>	<b>1.9</b>	<b>-0.5</b>	<b>-2.5</b>	<b>-1.9</b>
Federal	3.9	9.5	4.6	-0.1	-1.4	-1.0	2.3	1.3	-2.0	-6.1
Territorial	-3.9	2.6	7.9	5.1	0.5	4.8	1.2	-3.3	-3.3	5.0

**Table C.1.4. Contributions to Percent Change in Real Gross Domestic Product, Guam**

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Percent change:</b>										
<b>Gross domestic product</b>	<b>1.7</b>	<b>0.3</b>	<b>2.1</b>	<b>0.1</b>	<b>2.0</b>	<b>1.8</b>	<b>1.7</b>	<b>0.6</b>	<b>0.3</b>	<b>0.2</b>
<b>Percentage points:</b>										
<b>Personal consumption expenditures</b>	<b>1.49</b>	<b>0.41</b>	<b>-0.65</b>	<b>0.84</b>	<b>2.15</b>	<b>0.07</b>	<b>0.42</b>	<b>0.42</b>	<b>0.87</b>	<b>1.11</b>
Goods	0.28	-1.54	0.60	1.50	2.78	-0.72	-0.04	-0.37	0.78	0.81
Durable goods	-0.34	-0.38	0.18	0.93	1.10	-0.07	-0.17	0.13	0.21	0.17
Nondurable goods	0.62	-1.16	0.42	0.57	1.67	-0.65	0.13	-0.50	0.57	0.64
Services	-0.71	-0.44	-0.68	-0.59	0.92	0.59	1.57	1.16	1.34	0.12
Net foreign travel	1.91	2.39	-0.57	-0.07	-1.55	0.21	-1.11	-0.36	-1.24	0.19
<b>Private fixed investment</b>	<b>2.67</b>	<b>0.92</b>	<b>-0.39</b>	<b>-0.96</b>	<b>-0.01</b>	<b>3.29</b>	<b>1.28</b>	<b>-1.16</b>	<b>-0.97</b>	<b>-0.36</b>
<b>Net exports of goods and services</b>	<b>-2.94</b>	<b>-4.71</b>	<b>-0.16</b>	<b>-0.82</b>	<b>0.32</b>	<b>-2.22</b>	<b>-1.07</b>	<b>1.61</b>	<b>1.79</b>	<b>0.51</b>
Exports	-1.82	-2.96	-0.02	1.13	0.98	1.17	-0.08	-0.30	1.42	-0.01
Goods	0.09	-0.56	-0.59	1.06	-0.57	1.38	-1.19	-0.66	0.18	0.18
Services	-1.91	-2.39	0.57	0.07	1.55	-0.20	1.11	0.36	1.24	-0.19
Imports	-1.12	-1.76	-0.14	-1.96	-0.66	-3.39	-0.99	1.90	0.37	0.52
Goods	0.52	-0.95	0.59	-1.43	-1.32	-2.64	-0.72	1.47	-0.10	0.23
Services	-1.64	-0.81	-0.73	-0.53	0.66	-0.75	-0.26	0.43	0.47	0.28
<b>Government consumption expenditures and gross investment</b>	<b>0.50</b>	<b>3.72</b>	<b>3.28</b>	<b>1.08</b>	<b>-0.44</b>	<b>0.69</b>	<b>1.09</b>	<b>-0.31</b>	<b>-1.43</b>	<b>-1.08</b>
Federal	1.32	3.21	1.70	-0.02	-0.54	-0.37	0.82	0.45	-0.69	-2.12
Territorial	-0.82	0.51	1.58	1.10	0.10	1.06	0.28	-0.76	-0.74	1.04

**Table C.1.5. Percent Change From Preceding Year in Prices for Gross Domestic Product, Guam**  
[Percent]

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Gross domestic product</b>	<b>3.8</b>	<b>3.1</b>	<b>0.3</b>	<b>0.5</b>	<b>3.4</b>	<b>0.8</b>	<b>2.0</b>	<b>2.5</b>	<b>1.2</b>	<b>0.9</b>
<b>Personal consumption expenditures</b>	<b>5.9</b>	<b>1.5</b>	<b>1.2</b>	<b>1.7</b>	<b>4.7</b>	<b>-0.4</b>	<b>0.8</b>	<b>-1.1</b>	<b>0.8</b>	<b>1.8</b>

**Table C.2.1. Value Added by Industry, Guam**

[Millions of dollars]

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Gross domestic product</b>	<b>4,375</b>	<b>4,621</b>	<b>4,781</b>	<b>4,895</b>	<b>4,928</b>	<b>5,199</b>	<b>5,336</b>	<b>5,538</b>	<b>5,710</b>	<b>5,793</b>
<b>Private industries</b>	<b>2,654</b>	<b>2,827</b>	<b>2,872</b>	<b>2,875</b>	<b>2,847</b>	<b>3,117</b>	<b>3,202</b>	<b>3,316</b>	<b>3,396</b>	<b>3,500</b>
Construction	291	343	360	394	367	398	448	471	452	423
Distributive services	436	469	464	495	513	551	547	573	600	657
Accommodations and amusement	406	422	429	452	462	487	528	602	634	684
Other private	1,520	1,593	1,619	1,534	1,505	1,681	1,679	1,670	1,709	1,736
<b>Government</b>	<b>1,721</b>	<b>1,795</b>	<b>1,910</b>	<b>2,020</b>	<b>2,081</b>	<b>2,082</b>	<b>2,134</b>	<b>2,222</b>	<b>2,314</b>	<b>2,293</b>
Federal	1,008	1,071	1,157	1,217	1,253	1,249	1,250	1,274	1,311	1,274
Territorial	713	724	752	802	828	833	884	948	1,003	1,019

Note. Detail may not add to total because of rounding.

**Table C.2.2. Real Value Added by Industry, Guam**

[Millions of chained (2009) dollars]

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Gross domestic product</b>	<b>4,685</b>	<b>4,766</b>	<b>4,781</b>	<b>4,881</b>	<b>4,887</b>	<b>4,986</b>	<b>5,077</b>	<b>5,165</b>	<b>5,194</b>	<b>5,207</b>
<b>Private industries</b>	<b>2,876</b>	<b>2,929</b>	<b>2,872</b>	<b>2,906</b>	<b>2,879</b>	<b>2,998</b>	<b>3,071</b>	<b>3,140</b>	<b>3,136</b>	<b>3,191</b>
Construction	304	360	360	402	369	391	431	440	416	384
Distributive services	470	502	464	488	495	519	506	525	532	584
Accommodations and amusement	437	445	429	459	478	491	534	583	602	636
Other private	1,667	1,622	1,619	1,557	1,537	1,595	1,603	1,594	1,589	1,590
<b>Government</b>	<b>1,809</b>	<b>1,837</b>	<b>1,910</b>	<b>1,974</b>	<b>2,006</b>	<b>1,988</b>	<b>2,006</b>	<b>2,025</b>	<b>2,058</b>	<b>2,018</b>
Federal	1,033	1,070	1,157	1,185	1,199	1,181	1,179	1,184	1,198	1,156
Territorial	779	769	752	790	807	808	828	841	859	861

**Table C.2.3. Percent Changes in Real Value Added by Industry, Guam**

[Percent]

	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Gross domestic product</b>	<b>1.7</b>	<b>0.3</b>	<b>2.1</b>	<b>0.1</b>	<b>2.0</b>	<b>1.8</b>	<b>1.7</b>	<b>0.6</b>	<b>0.3</b>
<b>Private industries</b>	<b>1.8</b>	<b>-1.9</b>	<b>1.2</b>	<b>-0.9</b>	<b>4.1</b>	<b>2.5</b>	<b>2.2</b>	<b>-0.1</b>	<b>1.8</b>
Construction	18.4	0.0	11.6	-8.0	5.9	10.1	2.3	-5.5	-7.7
Distributive services	7.0	-7.7	5.3	1.4	4.8	-2.5	3.9	1.3	9.7
Accommodations and amusement	1.9	-3.6	7.1	4.1	2.9	8.6	9.3	3.3	5.6
Other private	-2.7	-0.2	-3.8	-1.3	3.8	0.5	-0.5	-0.3	0.0
<b>Government</b>	<b>1.5</b>	<b>3.9</b>	<b>3.4</b>	<b>1.6</b>	<b>-0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>1.6</b>	<b>-1.9</b>
Federal	3.6	8.2	2.3	1.2	-1.5	-0.1	0.4	1.2	-3.6
Territorial	-1.4	-2.1	5.0	2.2	0.1	2.4	1.6	2.1	0.2

**Table C.2.4. Contributions to Percent Change in Real Gross Domestic Product by Industry, Guam**

	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Percent change:</b>									
<b>Gross domestic product</b>	<b>1.7</b>	<b>0.3</b>	<b>2.1</b>	<b>0.1</b>	<b>2.0</b>	<b>1.8</b>	<b>1.7</b>	<b>0.6</b>	<b>0.3</b>
<b>Percentage points:</b>									
<b>Private industries</b>	<b>1.11</b>	<b>-1.19</b>	<b>0.72</b>	<b>-0.54</b>	<b>2.39</b>	<b>1.47</b>	<b>1.34</b>	<b>-0.08</b>	<b>1.05</b>
Construction	1.20	0.00	0.86	-0.65	0.44	0.78	0.19	-0.47	-0.61
Distributive services	0.69	-0.80	0.52	0.15	0.49	-0.27	0.39	0.13	1.02
Accommodations and amusement	0.17	-0.34	0.63	0.37	0.27	0.80	0.93	0.35	0.63
Other private	-0.94	-0.06	-1.29	-0.41	1.19	0.15	-0.17	-0.10	0.01
<b>Government</b>	<b>0.60</b>	<b>1.53</b>	<b>1.37</b>	<b>0.67</b>	<b>-0.37</b>	<b>0.36</b>	<b>0.38</b>	<b>0.64</b>	<b>-0.78</b>
Federal	0.83	1.86	0.58	0.30	-0.38	-0.03	0.10	0.27	-0.82
Territorial	-0.22	-0.34	0.79	0.36	0.01	0.39	0.28	0.37	0.03

Note. Percentage-point contributions do not sum to the percent change in real gross domestic product because of rounding and differences in source data used to estimate GDP by industry and the expenditures measure of real GDP.

**Table C.2.5. Compensation of Employees by Industry, Guam**

[Millions of dollars]

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total compensation</b>	<b>2,453</b>	<b>2,588</b>	<b>2,715</b>	<b>2,861</b>	<b>2,907</b>	<b>2,950</b>	<b>3,011</b>	<b>3,146</b>	<b>3,269</b>	<b>3,259</b>
<b>Private industries</b>	<b>1,224</b>	<b>1,299</b>	<b>1,348</b>	<b>1,407</b>	<b>1,397</b>	<b>1,446</b>	<b>1,478</b>	<b>1,558</b>	<b>1,622</b>	<b>1,655</b>
Construction	135	155	171	192	183	186	213	228	214	194
Distributive services	245	260	255	270	278	298	295	309	333	356
Accommodations and amusement	203	212	217	227	231	243	257	273	298	317
Other private	641	671	704	718	706	719	713	748	779	788
<b>Government</b>	<b>1,228</b>	<b>1,289</b>	<b>1,367</b>	<b>1,455</b>	<b>1,510</b>	<b>1,504</b>	<b>1,532</b>	<b>1,587</b>	<b>1,647</b>	<b>1,604</b>
Federal	647	695	746	802	835	829	827	849	883	844
Territorial	582	594	621	653	676	675	706	738	764	760

Note. Detail may not add to total because of rounding.



## U.S. Virgin Islands

Real GDP decreased 1.7 percent in 2017 (table D.1.3).

- The decline in the U.S. Virgin Islands economy primarily reflected decreases in exports of services and consumer spending (table D.1.4).
- Exports of services, which consists primarily of spending by tourists, declined after increasing for 5 consecutive years. Tourism arrivals decreased over 24 percent in 2017; arrivals fell significantly in the months following Hurricanes Irma and Maria.
- Consumer spending decreased, reflecting widespread declines in household purchases of goods and services.

New estimates of GDP by industry and compensation by industry for 2016 were also included in the 2017 GDP news releases for each territory. These estimates, along with GDP for 2017, are presented in detail in the accompanying tables.<sup>4</sup>

The methods used to derive the estimates of GDP and GDP by industry are summarized in the appendix “Summary of Methodologies.”

**Table D.1.1. Gross Domestic Product, U.S. Virgin Islands**

[Millions of dollars]

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Gross domestic product</b>	<b>4,803</b>	<b>4,250</b>	<b>4,203</b>	<b>4,339</b>	<b>4,239</b>	<b>4,095</b>	<b>3,762</b>	<b>3,622</b>	<b>3,748</b>	<b>3,863</b>	<b>3,855</b>
<b>Personal consumption expenditures</b>	<b>2,280</b>	<b>2,311</b>	<b>2,368</b>	<b>2,428</b>	<b>2,524</b>	<b>2,528</b>	<b>2,526</b>	<b>2,527</b>	<b>2,609</b>	<b>2,641</b>	<b>2,640</b>
Goods	1,319	1,262	1,215	1,205	1,233	1,206	1,200	1,207	1,213	1,216	1,117
Durable goods	822	741	688	664	678	666	718	729	718	732	627
Nondurable goods	497	520	527	541	556	540	481	479	495	484	490
Foods, feeds, and beverages	258	264	277	288	305	322	319	323	332	321	326
Other nondurable goods	239	257	250	253	251	219	162	155	163	163	165
Services	2,075	2,184	2,156	2,233	2,323	2,402	2,444	2,482	2,596	2,643	2,572
Housing and utilities	587	632	653	655	710	745	788	790	828	825	851
Health care	189	216	231	243	268	288	294	290	312	325	306
Food services and accommodations	515	538	507	542	551	568	585	617	652	670	615
Other services	784	797	764	792	793	801	777	785	804	823	800
Net foreign travel	-1,114	-1,135	-1,004	-1,011	-1,032	-1,080	-1,117	-1,162	-1,200	-1,218	-1,049
<b>Private fixed investment</b>	<b>529</b>	<b>476</b>	<b>393</b>	<b>380</b>	<b>363</b>	<b>263</b>	<b>274</b>	<b>286</b>	<b>288</b>	<b>289</b>	<b>310</b>
<b>Change in private inventories</b>	<b>-540</b>	<b>180</b>	<b>210</b>	<b>-267</b>	<b>104</b>	<b>114</b>	<b>149</b>	<b>-6</b>	<b>-172</b>	<b>582</b>	<b>839</b>
<b>Net exports of goods and services</b>	<b>1,532</b>	<b>240</b>	<b>123</b>	<b>580</b>	<b>100</b>	<b>163</b>	<b>-231</b>	<b>-234</b>	<b>-12</b>	<b>-678</b>	<b>-1,064</b>
Exports	14,141	18,412	10,717	12,945	14,371	3,278	2,525	2,795	1,537	1,808	2,450
Goods	13,002	17,255	9,696	11,922	13,329	2,186	1,395	1,623	329	582	1,393
Services	1,139	1,157	1,021	1,023	1,043	1,091	1,130	1,172	1,208	1,226	1,057
Imports	12,608	18,172	10,595	12,365	14,271	3,114	2,755	3,029	1,549	2,487	3,515
Goods	12,251	17,861	10,310	12,067	13,943	2,932	2,570	2,841	1,367	2,291	3,264
Services	357	311	285	298	329	182	185	188	182	195	251
<b>Government consumption expenditures and gross investment</b>	<b>1,002</b>	<b>1,043</b>	<b>1,110</b>	<b>1,219</b>	<b>1,148</b>	<b>1,027</b>	<b>1,044</b>	<b>1,049</b>	<b>1,036</b>	<b>1,029</b>	<b>1,131</b>
Federal	117	121	136	176	167	162	160	142	151	147	221
Territorial	885	922	974	1,043	981	865	884	907	884	882	909 <sup>P</sup>

1. (<sup>P</sup>) Fiscal year 2017 audited financial statements for the central government and various independent agencies were not available in time for incorporation into these estimates. Preliminary estimates of territorial government spending are based on information collected from budget documents and reports on federal grant expenditures, including disaster assistance grants.

Note. Detail may not add to total because of rounding.

**Table D.1.2. Real Gross Domestic Product, Chained Dollars, U.S. Virgin Islands**

[Millions of chained (2009) dollars]

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Gross domestic product</b>	<b>4,460</b>	<b>4,502</b>	<b>4,203</b>	<b>4,241</b>	<b>3,895</b>	<b>3,310</b>	<b>3,117</b>	<b>3,090</b>	<b>3,096</b>	<b>3,124</b>	<b>3,071</b>
<b>Personal consumption expenditures</b>	<b>2,417</b>	<b>2,313</b>	<b>2,368</b>	<b>2,396</b>	<b>2,375</b>	<b>2,297</b>	<b>2,240</b>	<b>2,232</b>	<b>2,287</b>	<b>2,293</b>	<b>2,236</b>
Goods	1,430	1,269	1,215	1,183	1,138	1,080	1,074	1,096	1,119	1,109	1,001
Durable goods	898	756	688	659	633	613	664	696	702	691	586
Nondurable goods	534	514	527	524	504	467	414	405	421	423	415
Foods, feeds, and beverages	277	267	277	287	293	291	279	275	270	264	260
Other nondurable goods	257	247	250	237	213	180	139	135	158	166	162
Services	2,184	2,195	2,156	2,205	2,220	2,224	2,197	2,212	2,273	2,292	2,168
Housing and utilities	646	625	653	647	652	641	639	645	661	662	647
Health care	200	222	231	240	262	279	282	277	297	307	287
Food services and accommodations	530	543	507	535	531	532	537	552	567	578	520
Other services	808	805	764	783	775	774	739	737	747	745	712
Net foreign travel	-1,197	-1,153	-1,004	-992	-982	-1,005	-1,031	-1,076	-1,106	-1,110	-932
<b>Private fixed investment</b>	<b>540</b>	<b>475</b>	<b>393</b>	<b>379</b>	<b>356</b>	<b>253</b>	<b>261</b>	<b>269</b>	<b>270</b>	<b>270</b>	<b>287</b>
<b>Change in private inventories</b>	<b>-435</b>	<b>111</b>	<b>210</b>	<b>-207</b>	<b>59</b>	<b>62</b>	<b>82</b>	<b>-4</b>	<b>-175</b>	<b>687</b>	<b>801</b>
<b>Net exports of goods and services</b>	<b>920</b>	<b>498</b>	<b>123</b>	<b>511</b>	<b>67</b>	<b>-2</b>	<b>-114</b>	<b>-20</b>	<b>60</b>	<b>-468</b>	<b>-592</b>
Exports	11,731	11,903	10,717	10,278	8,559	1,849	1,547	1,825	1,174	1,417	1,786
Goods	10,538	10,738	9,696	9,277	7,617	1,170	861	1,116	329	647	1,365
Services	1,222	1,173	1,021	1,004	992	1,015	1,042	1,085	1,113	1,118	939
Imports	10,811	11,405	10,595	9,768	8,492	1,851	1,661	1,844	1,114	1,885	2,378
Goods	10,469	11,106	10,310	9,482	8,226	1,728	1,539	1,723	994	1,763	2,227
Services	361	297	285	288	273	151	151	149	145	158	195
<b>Government consumption expenditures and gross investment</b>	<b>1,048</b>	<b>1,057</b>	<b>1,110</b>	<b>1,168</b>	<b>1,098</b>	<b>998</b>	<b>983</b>	<b>956</b>	<b>933</b>	<b>910</b>	<b>977</b>
Federal	121	122	136	170	155	150	146	127	134	128	187
Territorial	927	935	974	998	943	848	837	829	800	782	788 <sup>P</sup>
<b>Addenda:</b>											
Population (thousands) <sup>1</sup>	114.7	115.9	107.3	106.4	105.9	105.4	105.3	105.1	104.9	104.7	104.5
Per capita real GDP (chained dollars)	38,884	38,844	39,171	39,859	36,780	31,404	29,601	29,401	29,514	29,838	29,388

1. BEA estimates based on data from the U.S. Virgin Islands Bureau of Economic Research and the U.S. Census Bureau.

2. (<sup>P</sup>) Fiscal year 2017 audited financial statements for the central government and various independent agencies were not available in time for incorporation into these estimates. Preliminary estimates of territorial government spending are based on information collected from budget documents and reports on federal grant expenditures, including disaster assistance grants.

**Table D.1.3. Percent Change From Preceding Year in Real Gross Domestic Product, U.S. Virgin Islands**  
[Percent]

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Gross domestic product</b>	<b>0.9</b>	<b>-6.6</b>	<b>0.9</b>	<b>-8.2</b>	<b>-15.0</b>	<b>-5.8</b>	<b>-0.9</b>	<b>0.2</b>	<b>0.9</b>	<b>-1.7</b>
<b>Personal consumption expenditures</b>	<b>-4.3</b>	<b>2.4</b>	<b>1.2</b>	<b>-0.9</b>	<b>-3.3</b>	<b>-2.5</b>	<b>-0.3</b>	<b>2.5</b>	<b>0.2</b>	<b>-2.5</b>
Goods	-11.2	-4.2	-2.6	-3.9	-5.1	-0.5	2.0	2.1	-0.9	-9.8
Durable goods	-15.7	-9.0	-4.3	-3.9	-3.1	8.3	4.8	0.9	-1.7	-15.1
Nondurable goods	-3.8	2.6	-0.6	-3.8	-7.4	-11.3	-2.1	4.0	0.4	-1.8
Foods, feeds, and beverages	-3.8	3.9	3.6	1.9	-0.6	-4.0	-1.6	-1.8	-2.0	-1.5
Other nondurable goods	-3.8	1.2	-5.0	-10.1	-15.9	-22.5	-3.0	16.9	5.2	-2.2
Services	0.5	-1.8	2.3	0.7	0.2	-1.2	0.6	2.8	0.8	-5.4
Housing and utilities	-3.3	4.5	-1.0	0.8	-1.7	-0.2	0.9	2.5	0.0	-2.2
Health care	10.9	4.4	3.8	9.1	6.4	1.2	-2.0	7.4	3.5	-6.5
Food services and accommodations	2.4	-6.5	5.5	-0.8	0.2	0.8	2.8	2.8	1.9	-10.0
Other services	-0.3	-5.2	2.5	-1.0	-0.2	-4.5	-0.3	1.4	-0.2	-4.4
Net foreign travel	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>Private fixed investment</b>	<b>-12.1</b>	<b>-17.4</b>	<b>-3.5</b>	<b>-6.1</b>	<b>-28.8</b>	<b>3.1</b>	<b>3.0</b>	<b>0.1</b>	<b>0.2</b>	<b>6.1</b>
<b>Change in private inventories</b>	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>Net exports of goods and services</b>	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Exports	1.5	-10.0	-4.1	-16.7	-78.4	-16.3	17.9	-35.6	20.7	26.0
Goods	1.9	-9.7	-4.3	-17.9	-84.6	-26.5	29.6	-70.6	96.9	111.0
Services	-4.0	-13.0	-1.6	-1.3	2.4	2.7	4.1	2.6	0.5	-16.0
Imports	5.5	-7.1	-7.8	-13.1	-78.2	-10.2	11.0	-39.6	69.2	26.1
Goods	6.1	-7.2	-8.0	-13.2	-79.0	-10.9	11.9	-42.3	77.4	26.3
Services	-17.6	-4.0	0.9	-5.2	-44.8	0.4	-1.2	-2.8	8.5	23.6
<b>Government consumption expenditures and gross investment</b>	<b>0.8</b>	<b>5.1</b>	<b>5.1</b>	<b>-5.9</b>	<b>-9.1</b>	<b>-1.5</b>	<b>-2.8</b>	<b>-2.4</b>	<b>-2.4</b>	<b>7.3</b>
Federal	1.0	11.7	24.8	-8.6	-3.8	-2.2	-13.0	5.1	-4.0	45.9
Territorial	0.8	4.2	2.4	-5.5	-10.1	-1.4	-0.9	-3.5	-2.2	0.8 <sup>P</sup>

1. (<sup>P</sup>) Fiscal year 2017 audited financial statements for the central government and various independent agencies were not available in time for incorporation into these estimates. Preliminary estimates of territorial government spending are based on information collected from budget documents and reports on federal grant expenditures, including disaster assistance grants.

**Table D.1.4. Contributions to Percent Change in Real Gross Domestic Product, U.S. Virgin Islands**

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Percent change:</b>										
<b>Gross domestic product</b>	<b>0.9</b>	<b>-6.6</b>	<b>0.9</b>	<b>-8.2</b>	<b>-15.0</b>	<b>-5.8</b>	<b>-0.9</b>	<b>0.2</b>	<b>0.9</b>	<b>-1.7</b>
<b>Percentage points:</b>										
<b>Personal consumption expenditures</b>	<b>-2.28</b>	<b>1.26</b>	<b>0.68</b>	<b>-0.48</b>	<b>-1.80</b>	<b>-1.58</b>	<b>-0.23</b>	<b>1.72</b>	<b>0.16</b>	<b>-1.70</b>
Goods	-3.45	-1.22	-0.76	-1.06	-1.36	-0.16	0.65	0.69	-0.27	-3.08
Durable goods	-3.01	-1.53	-0.69	-0.59	-0.46	1.36	0.92	0.17	-0.32	-2.86
Nondurable goods	-0.44	0.31	-0.07	-0.47	-0.91	-1.51	-0.27	0.52	0.05	-0.22
Foods, feeds, and beverages	-0.23	0.24	0.23	0.12	-0.04	-0.33	-0.14	-0.16	-0.17	-0.13
Other nondurable goods	-0.22	0.07	-0.30	-0.59	-0.87	-1.19	-0.13	0.68	0.22	-0.09
Services	0.23	-0.89	1.17	0.34	0.10	-0.73	0.42	1.91	0.57	-3.72
Housing and utilities	-0.46	0.64	-0.15	0.13	-0.27	-0.05	0.20	0.54	0.01	-0.48
Health care	0.47	0.22	0.21	0.49	0.37	0.08	-0.16	0.59	0.29	-0.55
Food services and accommodations	0.28	-0.80	0.66	-0.10	0.03	0.12	0.44	0.49	0.32	-1.74
Other services	-0.06	-0.95	0.46	-0.18	-0.03	-0.89	-0.06	0.29	-0.04	-0.95
Net foreign travel	0.94	3.37	0.27	0.24	-0.54	-0.69	-1.30	-0.89	-0.14	5.10
<b>Private fixed investment</b>	<b>-1.44</b>	<b>-1.89</b>	<b>-0.32</b>	<b>-0.52</b>	<b>-2.25</b>	<b>0.20</b>	<b>0.23</b>	<b>0.01</b>	<b>0.02</b>	<b>0.45</b>
<b>Change in private inventories</b>	<b>17.57</b>	<b>2.99</b>	<b>-11.21</b>	<b>8.93</b>	<b>0.12</b>	<b>0.88</b>	<b>-3.86</b>	<b>-5.97</b>	<b>20.68</b>	<b>2.79</b>
<b>Net exports of goods and services</b>	<b>-13.12</b>	<b>-10.21</b>	<b>10.38</b>	<b>-14.50</b>	<b>-8.86</b>	<b>-4.93</b>	<b>3.77</b>	<b>5.14</b>	<b>-19.28</b>	<b>-5.20</b>
Exports	5.39	-34.53	-11.66	-55.71	-246.37	-12.73	11.88	-24.71	8.35	12.47
Goods	6.44	-31.08	-11.26	-55.42	-246.91	-13.45	10.64	-25.54	8.20	17.58
Services	-1.05	-3.45	-0.40	-0.29	0.54	0.72	1.24	0.83	0.16	-5.11
Imports	-18.51	24.31	22.04	41.21	237.51	7.80	-8.11	29.85	-27.63	-17.67
Goods	-19.95	24.03	22.10	40.84	234.36	7.82	-8.17	29.70	-27.23	-16.46
Services	1.44	0.28	-0.06	0.37	3.15	-0.02	0.06	0.15	-0.41	-1.21
<b>Government consumption expenditures and gross investment</b>	<b>0.19</b>	<b>1.22</b>	<b>1.37</b>	<b>-1.60</b>	<b>-2.23</b>	<b>-0.38</b>	<b>-0.79</b>	<b>-0.69</b>	<b>-0.67</b>	<b>1.95</b>
Federal	0.03	0.33	0.81	-0.34	-0.14	-0.09	-0.57	0.20	-0.16	1.77
Territorial	0.17	0.89	0.56	-1.26	-2.09	-0.30	-0.22	-0.89	-0.51	0.18 <sup>P</sup>

1. (<sup>P</sup>) Fiscal year 2017 audited financial statements for the central government and various independent agencies were not available in time for incorporation into these estimates. Preliminary estimates of territorial government spending are based on information collected from budget documents and reports on federal grant expenditures, including disaster assistance grants.

**Table D.1.5. Percent Change From Preceding Year in Prices for Gross Domestic Product, U.S. Virgin Islands**  
[Percent]

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Gross domestic product</b>	<b>-12.3</b>	<b>5.9</b>	<b>2.3</b>	<b>6.4</b>	<b>13.7</b>	<b>-2.5</b>	<b>-2.9</b>	<b>3.3</b>	<b>2.1</b>	<b>1.5</b>
<b>Personal consumption expenditures</b>	<b>5.9</b>	<b>0.1</b>	<b>1.3</b>	<b>4.9</b>	<b>3.6</b>	<b>2.5</b>	<b>0.4</b>	<b>0.8</b>	<b>1.0</b>	<b>2.5<sup>P</sup></b>

1. (<sup>P</sup>) Complete information on the 2017 USVI Consumer Price Index was not available in time for incorporation.  
2. Second footnote

**Table D.2.1. Value Added by Industry, U.S. Virgin Islands**

[Millions of dollars]

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Gross domestic product</b>	<b>4,803</b>	<b>4,250</b>	<b>4,203</b>	<b>4,339</b>	<b>4,239</b>	<b>4,095</b>	<b>3,762</b>	<b>3,622</b>	<b>3,748</b>	<b>3,863</b>
<b>Private industries</b>	<b>4,020</b>	<b>3,443</b>	<b>3,374</b>	<b>3,461</b>	<b>3,398</b>	<b>3,331</b>	<b>3,006</b>	<b>2,867</b>	<b>2,945</b>	<b>3,048</b>
Goods-producing industries	1,487	993	1,042	1,035	955	824	593	519	513	506
Services-producing industries	2,533	2,450	2,332	2,426	2,443	2,507	2,413	2,348	2,432	2,542
Wholesale and retail trade	449	435	408	413	422	411	402	393	386	381
Accommodation and food services	405	424	400	428	436	450	463	489	517	531
Other services, except government	1,678	1,591	1,524	1,585	1,585	1,646	1,547	1,466	1,530	1,630
<b>Government</b>	<b>783</b>	<b>807</b>	<b>829</b>	<b>878</b>	<b>841</b>	<b>764</b>	<b>757</b>	<b>755</b>	<b>803</b>	<b>815</b>
Federal	120	125	130	141	139	139	140	136	145	142
Territorial	663	682	699	738	702	626	617	619	658	673

Note. Detail may not add to total because of rounding.

**Table D.2.2. Real Value Added by Industry, U.S. Virgin Islands**

[Millions of chained (2009) dollars]

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Gross domestic product</b>	<b>4,460</b>	<b>4,502</b>	<b>4,203</b>	<b>4,241</b>	<b>3,895</b>	<b>3,310</b>	<b>3,117</b>	<b>3,090</b>	<b>3,096</b>	<b>3,124</b>
<b>Private industries</b>	<b>3,634</b>	<b>3,661</b>	<b>3,374</b>	<b>3,408</b>	<b>3,086</b>	<b>2,568</b>	<b>2,410</b>	<b>2,408</b>	<b>2,391</b>	<b>2,423</b>
Goods-producing industries	1,012	1,138	1,042	1,019	774	463	335	284	272	266
Services-producing industries	2,646	2,523	2,332	2,389	2,324	2,233	2,255	2,341	2,343	2,391
Wholesale and retail trade	464	442	408	408	410	388	377	365	352	349
Accommodation and food services	433	452	400	429	437	434	434	446	449	453
Other services, except government	1,747	1,629	1,524	1,552	1,479	1,414	1,446	1,534	1,546	1,595
<b>Government</b>	<b>833</b>	<b>841</b>	<b>829</b>	<b>833</b>	<b>808</b>	<b>755</b>	<b>719</b>	<b>690</b>	<b>715</b>	<b>710</b>
Federal	127	129	130	135	131	130	130	123	127	123
Territorial	707	712	699	697	677	624	589	567	588	587

**Table D.2.3. Percent Changes in Real Value Added by Industry, U.S. Virgin Islands**

[Percent]

	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Gross domestic product</b>	<b>0.9</b>	<b>-6.6</b>	<b>0.9</b>	<b>-8.2</b>	<b>-15.0</b>	<b>-5.8</b>	<b>-0.9</b>	<b>0.2</b>	<b>0.9</b>
<b>Private industries</b>	<b>0.8</b>	<b>-7.9</b>	<b>1.0</b>	<b>-9.5</b>	<b>-16.8</b>	<b>-6.2</b>	<b>-0.1</b>	<b>-0.7</b>	<b>1.3</b>
Goods-producing industries	12.5	-8.5	-2.1	-24.1	-40.2	-27.5	-15.4	-4.2	-2.0
Services-producing industries	-4.6	-7.6	2.4	-2.7	-3.9	1.0	3.8	0.1	2.1
Wholesale and retail trade	-4.7	-7.9	0.2	0.3	-5.3	-2.9	-3.2	-3.5	-0.8
Accommodation and food services	4.4	-11.5	7.1	2.0	-0.8	0.0	2.8	0.8	0.8
Other services, except government	-6.8	-6.4	1.8	-4.7	-4.4	2.3	6.1	0.8	3.2
<b>Government</b>	<b>0.9</b>	<b>-1.4</b>	<b>0.4</b>	<b>-3.0</b>	<b>-6.5</b>	<b>-4.7</b>	<b>-4.1</b>	<b>3.7</b>	<b>-0.7</b>
Federal	1.8	0.9	4.2	-3.3	-0.5	-0.3	-5.5	3.2	-2.8
Territorial	0.7	-1.8	-0.3	-2.9	-7.7	-5.7	-3.8	3.8	-0.3

**Table D.2.4. Contributions to Percent Change in Real Gross Domestic Product by Industry, U.S. Virgin Islands**

	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Percent change:</b>									
<b>Gross domestic product</b>	<b>0.9</b>	<b>-6.6</b>	<b>0.9</b>	<b>-8.2</b>	<b>-15.0</b>	<b>-5.8</b>	<b>-0.9</b>	<b>0.2</b>	<b>0.9</b>
<b>Percentage points:</b>									
<b>Private industries</b>	<b>0.65</b>	<b>-6.38</b>	<b>0.82</b>	<b>-7.63</b>	<b>-13.88</b>	<b>-4.97</b>	<b>-0.09</b>	<b>-0.55</b>	<b>1.06</b>
Goods-producing industries	3.27	-2.08	-0.53	-6.13	-11.76	-5.55	-2.51	-0.60	-0.28
Services-producing industries	-2.62	-4.29	1.35	-1.50	-2.12	0.58	2.42	0.05	1.33
Wholesale and retail trade	-0.47	-0.79	0.02	0.03	-0.49	-0.30	-0.34	-0.38	-0.09
Accommodation and food services	0.39	-1.15	0.66	0.19	-0.07	-0.01	0.36	0.10	0.11
Other services, except government	-2.54	-2.36	0.66	-1.71	-1.56	0.88	2.41	0.32	1.31
<b>Government</b>	<b>0.16</b>	<b>-0.26</b>	<b>0.08</b>	<b>-0.58</b>	<b>-1.16</b>	<b>-0.91</b>	<b>-0.85</b>	<b>0.76</b>	<b>-0.16</b>
Federal	0.05	0.02	0.13	-0.10	-0.02	-0.01	-0.21	0.12	-0.11
Territorial	0.11	-0.28	-0.05	-0.48	-1.15	-0.90	-0.64	0.64	-0.05

Note. Percentage-point contributions do not sum to the percent change in real gross domestic product because of rounding and differences in source data used to estimate GDP by industry and the expenditures measure of real GDP.

**Table D.2.5. Compensation of Employees by Industry, U.S. Virgin Islands**

[Millions of dollars]

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total compensation</b>	<b>2,139</b>	<b>2,185</b>	<b>2,114</b>	<b>2,245</b>	<b>2,198</b>	<b>2,042</b>	<b>1,880</b>	<b>1,881</b>	<b>1,920</b>	<b>1,969</b>
<b>Private industries</b>	<b>1,399</b>	<b>1,411</b>	<b>1,318</b>	<b>1,393</b>	<b>1,386</b>	<b>1,319</b>	<b>1,157</b>	<b>1,150</b>	<b>1,151</b>	<b>1,182</b>
Goods-producing industries	369	340	309	317	302	275	110	102	109	108
Services-producing industries	1,030	1,070	1,008	1,076	1,084	1,045	1,047	1,048	1,042	1,074
Wholesale and retail trade	201	205	197	198	209	209	236	222	212	206
Accommodation and food services	208	217	191	204	208	212	214	221	243	247
Other services, except government	621	649	620	674	668	624	597	604	588	622
<b>Government</b>	<b>741</b>	<b>774</b>	<b>797</b>	<b>852</b>	<b>812</b>	<b>722</b>	<b>724</b>	<b>731</b>	<b>769</b>	<b>786</b>
Federal	118	123	129	140	138	137	137	133	142	139
Territorial	622	651	668	712	674	585	586	598	627	648

Note. Detail may not add to total because of rounding.

## Future Directions

This project represents an important step toward achieving BEA's and OIA's long-term goal: to integrate these territories into the full set of U.S. NIPAs. A primary obstacle to realizing this goal is the lack of coverage of these four territories by most of the major surveys used by BEA to produce estimates of GDP and related economic measures.<sup>5</sup> Until the territories are included in these surveys, BEA will continue to depend heavily on the assistance and information provided by each of the territorial governments and on continued support from OIA.

Other future enhancements to the estimates for the four territories (subject to data availability and funding) include developing supplementary measures that are included in the full set of the U.S. NIPAs, such as personal income and personal saving rates.

## Appendix: Summary of Methodologies

The methodologies used to estimate GDP and GDP by industry for American Samoa, CNMI, Guam, and the U.S. Virgin Islands are consistent with the methods used to estimate GDP and GDP by industry for the United States (excluding the territories). Information from the Economic Census of Island Areas was used to establish levels of GDP for each territory for 2002, 2007, and 2012; for other years, annual indicator series were developed and used to estimate the components of GDP and of GDP by industry.

### Gross domestic product

**Consumer spending.** Personal consumption expenditures (PCE) consists primarily of purchases of goods and services by households.<sup>6</sup> Economic census data on the consumer shares of sales by industry were used to benchmark the estimates of household purchases of most goods and selected services.

Annual growth rates for most goods were derived using data on imports of goods and, where available, sales by businesses. For American Samoa, the CNMI, and Guam, data on imports of goods were provided by the territorial government.<sup>7</sup> For the U.S. Virgin Islands, data on imports of goods were available from the Census Bureau's U.S. Trade with Puerto Rico and U.S. Possessions (FT895) and U.S. International Trade in Goods and Services (FT900).<sup>8</sup>

Estimates that were not benchmarked to economic census data included housing services, utilities services, and financial services, which were estimated independently. Housing services were estimated using information on the number of occupied housing units and average rental rates reported in the Census of Population and Housing. Utilities services were estimated using revenue data reported by government-owned utilities and by the U.S. Energy Information Administration. Other services not covered by the economic census—such as financial services furnished without payment, insurance, and sales by government—were estimated using data from private trade sources and government financial reports.

**Private investment.** Private investment consists of spending on new fixed assets—equipment, software, and structures by private businesses—and improvements to existing assets. It also includes the construction of new residential structures and the improvements to these



structures.<sup>9</sup> Economic census data on businesses' capital expenditures on fixed assets were used to benchmark the estimates of private fixed investment for each territory. Annual growth rates were derived using building permit data, construction industry receipts and wages, and imports of capital goods.

**Net exports of goods and services.** The estimates of exports of goods to the United States from the four territories reflected data from the Census Bureau's U.S. Trade with Puerto Rico and U.S. Possessions (FT895). Estimates of exports of goods from American Samoa, the CNMI, and Guam to the rest of the world were based on information compiled by the territorial governments. Estimates of exports of goods from the U.S. Virgin Islands to the rest of the world were based on data from the Census Bureau's U.S. International Trade in Goods and Services (FT900).

Estimates of imports of goods for American Samoa and the CNMI were based on values or quantities of imported commodities reported by the territorial governments. For the U.S. Virgin Islands, estimates of imports of goods reflected data from the FT895 and FT900. For Guam, data on imports of goods are limited, particularly after 2015; the available data were supplemented with other information reported by the Guam government, including sales by businesses.

Information on imports of services and on exports of services other than tourism was limited. Estimates of exports of tourism services for American Samoa were based on visitor arrival data provided by the territorial government and the Federal Aviation Authority. Estimates of exports of tourism services for the CNMI and Guam were based on survey data on tourist expenditures and visitor arrivals provided by the territorial government visitors' authorities. For the CNMI, these data were supplemented with casino gambling revenues reported in company financial statements. For the U.S. Virgin Islands, the estimate of exports of tourism services was based on expenditures of cruise ship passengers available from the Florida-Caribbean Cruise Association, total visitor expenditures provided by the Virgin Islands Bureau of Economic Research, U.S. Virgin Islands visitor exit survey data, and gross business revenue data for select industries.

**Government consumption expenditures and gross investment.** The estimates of government expenditures were prepared for the territorial government sector and for the federal government sector. The primary sources of information for the territorial government estimates were financial statements of the primary government and of the government component units.<sup>10</sup> The primary data sources for the federal government estimates were the Census Bureau's *Consolidated Federal Funds Report* and the Federal Procurement Data System.<sup>11</sup> Information on military pay was provided by the U.S. Department of Defense.

**Estimates of real GDP.** Inflation-adjusted estimates of total GDP and its components were derived within a chain-type Fisher index framework.<sup>12</sup> For most of the detailed components of GDP, inflation-adjusted estimates were calculated by deflating each component using an appropriate price index. Consumer price indexes produced by each territorial government were used to deflate most of the detailed components of PCE. Inflation-adjusted estimates for most components other than PCE were calculated using U.S. prices from the U.S. Bureau of Labor Statistics.

## GDP by industry

**Current-dollar estimates.** The estimates of GDP by industry were prepared for broad industry groups using a methodology that was developed to incorporate data from the Economic Census of Island Areas. Current-dollar value added for most private industries was extrapolated using indicators such as gross business revenues and compensation. For select private industries, data were available to separately extrapolate gross output and intermediate inputs. These industries

included the manufacturing sector in American Samoa and the CNMI and the goods-producing sector in the U.S. Virgin Islands. Current-dollar value added for the government sector was prepared for the territorial government sector and the federal government sector; the primary sources of information were the data sources identified in “Government consumption expenditures and gross investment.”

**Real estimates.** Inflation-adjusted estimates of GDP by industry were derived within a chain-type Fisher index framework. For most industry sectors, the statistics on chained-dollar value added were prepared using the single-deflation method. Under this method, current-dollar value added of an industry is divided by a gross output price index.<sup>13</sup> For industries for which data were available to separately estimate gross output and intermediate inputs, a double-deflation method was used. Under the double-deflation method, current-dollar gross output and current-dollar intermediate inputs are deflated separately, and real value added is computed as the difference between real gross output and real intermediate inputs. Price indexes and other value and quantity data produced by each territorial government, in addition to U.S. prices, were used in the deflation of value added, gross output, and intermediate inputs.

**Compensation of employees.** Information on payroll and fringe benefits from the economic census was used to benchmark the estimates of compensation by industry. For American Samoa, the CNMI, and Guam, annual growth rates were based on payroll data from a number of sources, including wage information from the Census Bureau’s County Business Patterns and administrative and survey-based wage data provided by the territorial governments. For the U.S. Virgin Islands, wage information from the U.S. Bureau of Labor Statistics Quarterly Census of Employment and Wages was used.

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1. OIA is the federal agency that manages the federal government's relations with the governments of American Samoa, the CNMI, Guam, and the U.S. Virgin Islands. It works with these territories to encourage economic development, transparency of government, financial stability, and accountability.
  2. BEA released these estimates between August and December of 2018. Individual [news releases](#) for each of the territories are available on BEA's website.
  3. In this article, "consumer spending" refers to "personal consumption expenditures," "inventory investment" refers to "change in private inventories," and "government spending" refers to "government consumption expenditures and gross investment."
  4. The industry detail shown for GDP by industry and compensation by industry varies depending on the territory.
  5. These surveys include merchant wholesale trade and retail trade surveys; the annual capital expenditures survey; value of construction put in place; the service annual survey; the annual survey of manufactures; manufacturers' shipments, inventories, and orders; and survey of government finances.
  6. A small portion of PCE consists of expenses of nonprofit institutions serving households.
  7. Data on imports of goods for Guam were limited, particularly after 2015.
  8. It was assumed that most goods purchased by consumers were imported.
  9. For American Samoa and the U.S. Virgin Islands, private investment also includes inventory investment.
  10. Due to delays associated with Hurricanes Irma and Maria, fiscal year 2017 audited financial statements for the U.S. Virgin Islands were not available in time for incorporation into these estimates. Estimates of 2017 spending reflected information collected from budget documents and reports on federal grant expenditures.
  11. The *Consolidated Federal Funds Report* was discontinued in 2012 following the publication of the fiscal year 2010 report.
  12. For additional information, see J. Steven Landefeld, Brent R. Moulton, and Cindy M. Vojtech, "[Chained-Dollar Indexes: Issues, Tips on Their Use, and Upcoming Changes](#)," *Survey of Current Business* 83 (November 2003):8-17.
  13. Single deflation approximates the results obtained by double deflation when an industry's intermediate inputs prices increase at about the same rate as its output prices.