

## 100 Years Chronicling the U.S. Economy

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

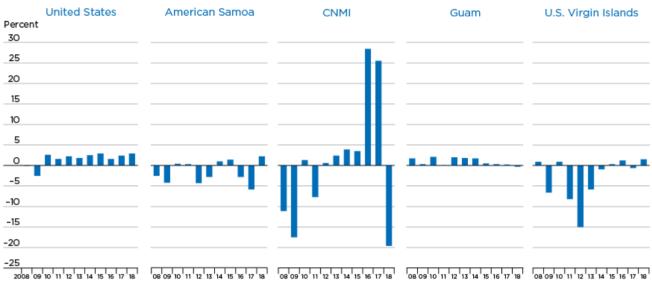
### New Estimates of GDP for 2018, New Estimates of GDP by Industry and Compensation by Industry for 2017

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In collaboration with the U.S. Department of the Interior 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 2018 and revised estimates for 2013–2017.<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, 2008–2018

CNMI Commonwealth of the Northern Mariana Islands

U.S. Bureau of Economic Analysis

### Highlights

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

### **American Samoa**

Real GDP increased 2.2 percent in 2018 (table A.1.3).

- The growth in the American Samoa economy reflected increases in private fixed investment and exports of goods (table A.1.4).
- Private fixed investment increased, largely due to reconstruction and major repairs of homes and businesses following Tropical Cyclone Gita, which made landfall in American Samoa in February 2018.
- Exports of canned tuna and related products increased in 2018, reflecting expanded production of American Samoa's tuna canning industry.

|   | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|
|   |      |      |      |      |      |      |      |      |      |      |      |      |
| Gross domestic product                                      | 520  | 563  | 678  | 576  | 574  | 644  | 641  | 642  | 661  | 652  | 602  | 636  |
| Personal consumption expenditures                           | 383  | 407  | 398  | 402  | 414  | 424  | 447  | 455  | 443  | 446  | 459  | 472  |
| Goods   | 195  | 208  | 196  | 197  | 188  | 189  | 214  | 217  | 207  | 203  | 207  | 215  |
| Durable goods   | 23   | 27   | 24   | 25   | 23   | 23   | 29   | 35   | 31   | 30   | 26   | 28   |
| Nondurable goods  | 171  | 181  | 172  | 172  | 166  | 167  | 185  | 183  | 177  | 174  | 181  | 187  |
| Services  | 189  | 202  | 207  | 211  | 229  | 242  | 242  | 248  | 246  | 252  | 260  | 265  |
| Net foreign travel  | -1   | -3   | -5   | -5   | -4   | -6   | -10  | -11  | -10  | -9   | -8   | -8   |
| Private fixed investment                                    | 41   | 46   | 38   | 49   | 51   | 53   | 60   | 66   | 53   | 50   | 51   | 57   |
| Change in private inventories                               | -8   | -17  | -6   | -5   | -3   | 0    | 5    | 31   | 24   | 44   | 37   | -12  |
| Net exports of goods and services                           | -116 | -113 | -26  | -174 | -225 | -161 | -184 | -252 | -231 | -208 | -254 | -194 |
| Exports   | 505  | 641  | 530  | 364  | 335  | 482  | 457  | 426  | 427  | 427  | 362  | 438  |
| Goods   | 487  | 621  | 510  | 341  | 313  | 456  | 433  | 400  | 401  | 401  | 336  | 410  |
| Services  | 17   | 20   | 20   | 22   | 22   | 26   | 25   | 26   | 26   | 26   | 26   | 28   |
| Imports   | 621  | 754  | 556  | 537  | 559  | 643  | 641  | 679  | 658  | 635  | 616  | 632  |
| Goods   | 571  | 698  | 508  | 489  | 509  | 588  | 587  | 616  | 594  | 573  | 554  | 573  |
| Services  | 50   | 56   | 49   | 48   | 50   | 55   | 54   | 63   | 64   | 62   | 62   | 59   |
| Government consumption<br>expenditures and gross investment | 220  | 241  | 275  | 304  | 337  | 329  | 313  | 343  | 371  | 321  | 308  | 314  |
| Federal   | 17   | 20   | 30   | 22   | 23   | 22   | 21   | 24   | 26   | 26   | 26   | 24   |
| Territorial   | 203  | 220  | 244  | 281  | 314  | 306  | 291  | 319  | 345  | 294  | 282  | 289  |

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

|   | 2007   | 2008   | 2009   | 2010   | 2011   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Gross domestic product (GDP)                                | 727    | 708    | 678    | 681    | 683    | 653    | 635    | 641    | 650    | 632    | 595    | 608    |
| Personal consumption expenditures                           | 420    | 410    | 398    | 381    | 364    | 357    | 369    | 372    | 371    | 375    | 375    | 376    |
| Goods   | 216    | 212    | 196    | 187    | 170    | 165    | 183    | 185    | 178    | 175    | 172    | 174    |
| Durable goods   | 27     | 27     | 24     | 24     | 21     | 19     | 25     | 29     | 25     | 25     | 22     | 23     |
| Nondurable goods  | 190    | 185    | 172    | 163    | 149    | 146    | 158    | 156    | 152    | 151    | 150    | 151    |
| Services  | 207    | 202    | 207    | 200    | 198    | 197    | 195    | 196    | 201    | 206    | 208    | 207    |
| Net foreign travel  | -3     | -4     | -5     | -6     | -4     | -6     | -8     | -9     | -8     | -7     | -5     | -5     |
| Private fixed investment                                    | 40     | 45     | 38     | 50     | 52     | 51     | 55     | 59     | 47     | 43     | 43     | 47     |
| Change in private inventories                               | -7     | -11    | -6     | -4     | -2     | 0      | 4      | 25     | 23     | 43     | 34     | -10    |
| Net exports of goods and services                           | 52     | 36     | -26    | -48    | -67    | -67    | -84    | -121   | -114   | -104   | -131   | -72    |
| Exports   | 678    | 675    | 530    | 446    | 394    | 412    | 410    | 428    | 460    | 454    | 356    | 407    |
| Goods   | 658    | 654    | 510    | 424    | 372    | 388    | 387    | 404    | 437    | 432    | 334    | 384    |
| Services  | 20     | 20     | 20     | 22     | 20     | 23     | 22     | 23     | 22     | 22     | 21     | 22     |
| Imports   | 626    | 639    | 556    | 494    | 460    | 479    | 494    | 549    | 575    | 558    | 488    | 479    |
| Goods   | 575    | 586    | 508    | 450    | 417    | 433    | 448    | 498    | 523    | 508    | 437    | 431    |
| Services  | 51     | 52     | 49     | 45     | 44     | 47     | 46     | 51     | 52     | 50     | 51     | 48     |
| Government consumption expenditures<br>and gross investment | 227    | 239    | 275    | 290    | 309    | 297    | 278    | 298    | 322    | 276    | 261    | 257    |
| Federal   | 18     | 20     | 30     | 22     | 22     | 21     | 20     | 22     | 24     | 24     | 23     | 21     |
| Territorial   | 209    | 219    | 244    | 268    | 287    | 276    | 258    | 277    | 298    | 252    | 238    | 236    |
| Addenda:  |        |        |        |        |        |        |        |        |        |        |        |        |
| 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   | 58.0   |
| Per capita real GDP (chained dollars)                       | 11,219 | 10,876 | 10,865 | 12,270 | 12,196 | 11,558 | 11,140 | 11,148 | 11,188 | 10,785 | 10,136 | 10,483 |

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

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

#### [Percent] 2008 2009 2010 2011 2012 2013 2014 2015 2016 2018 2017 Gross domestic product -2.5 -4.2 0.4 0.3 -4.3 -2.8 1.0 1.4 -2.8 -5.8 2.2 Personal consumption expenditures -2.4 -2.9 -4.3 -4.6 -2.0 3.5 0.8 -0.3 1.2 -0.1 0.3 -1.9 -7.8 -9.3 -2.6 10.8 -4.0 -1.9 Goods -4.6 1.2 -1.3 1.1 -12.1 -10.7 Durable goods 3.0 -12.70.9 -14.6 -5.7 26.8 17.4 -2.9 6.3 Nondurable goods -2.5 -7.1 -5.4 -8.5 -2.2 8.6 -1.4 -2.4 -1.0 -0.4 0.3 Services -2.3 2.5 -3.4 -0.9 -0.5 0.7 2.4 2.7 0.7 -0.5 -1.2 Net foreign travel 13.5 7.7 -15.9 30.9 5.2 -2.3 8.0 -20.7 -7.5 0.2 Private fixed investment 6.9 Change in private inventories ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... Net exports of goods and services ..... ...... ...... ....... .... .... ..... ..... ..... ..... 7.6 Exports -0.4 -21.4 -15.8 -11.8 4.7 -0.5 -1.3 -21.6 14.2 4.4 Goods -0.6 -22.1 -16.8 -12.2 4.1 -0.2 4.4 8.2 -1.3 -22.8 15.0 13.0 Services 4.9 -0.25.4 -5.8 -6.2 4.9 -1.7 -2.6 -2.6 4.3 Imports 2.1 -12.9 -11.1 -6.9 4.1 3.1 11.1 4.7 -2.9 -12.7 -1.8 -7.4 3.8 Goods 1.9 -13.4 -11.4 3.6 11.0 5.1 -2.9 -14.0 -1.3 -7.3 -8.0 -2.1 7.3 -2.3 -2.8 0.4 Services 3.5 12.1 1.2 -6.2 Government consumption expenditures 5.4 15.0 5.6 6.6 -4.1 -6.4 7.5 7.8 -14.2 -5.3 -1.6 and gross investment 9.9 Federal 12.3 49.5 28.1 1.4 -5.6 -4.6 9.2 -0.5 -3.1 -8.2 Territorial 4.8 11.8 9.8 7.0 -4.0 -6.5 7.3 7.7 -15.3 -5.5 -1.0

#### Table A.1.3. Percent Change from Preceding Year in Real Gross Domestic Product, American Samoa

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|   | 2008  | 2009   | 2010   | 2011  | 2012  | 2013  | 2014   | 2015  | 2016  | 2017   | 2018  |
|---|-------|--------|--------|-------|-------|-------|--------|-------|-------|--------|-------|
| Percent change:   |       |        |        |       |       |       |        |       |       |        |       |
| Gross domestic product                                      | -2.5  | -4.2   | 0.4    | 0.3   | -4.3  | -2.8  | 1.0    | 1.4   | -2.8  | -5.8   | 2.2   |
| Percentage points:  |       |        |        |       |       |       |        |       |       |        |       |
| Personal consumption expenditures                           | -1.78 | -1.83  | -2.84  | -3.32 | -1.37 | 2.27  | 0.57   | -0.20 | 0.77  | -0.09  | 0.20  |
| Goods   | -0.69 | -2.56  | -1.50  | -3.27 | -0.81 | 3.17  | 0.39   | -1.34 | -0.39 | -0.60  | 0.37  |
| Durable goods   | 0.13  | -0.54  | 0.03   | -0.66 | -0.21 | 0.94  | 0.80   | -0.65 | -0.13 | -0.49  | 0.27  |
| Nondurable goods  | -0.82 | -2.02  | -1.54  | -2.61 | -0.59 | 2.23  | -0.41  | -0.69 | -0.26 | -0.10  | 0.10  |
| Services  | -0.83 | 0.81   | -1.18  | -0.36 | -0.19 | -0.44 | 0.27   | 0.92  | 0.98  | 0.26   | -0.21 |
| Net foreign travel  | -0.25 | -0.08  | -0.16  | 0.30  | -0.38 | -0.46 | -0.10  | 0.22  | 0.18  | 0.25   | 0.03  |
| Private fixed investment                                    | 0.99  | -1.14  | 1.89   | 0.44  | -0.19 | 0.67  | 0.65   | -2.12 | -0.60 | 0.02   | 0.65  |
| Change in private inventories                               | -0.98 | 0.90   | 0.43   | 0.35  | 0.48  | 0.83  | 3.94   | -0.42 | 3.05  | -1.43  | -8.34 |
| Net exports of goods and services                           | -2.99 | -7.80  | -1.70  | -0.80 | -0.97 | -3.33 | -7.91  | 0.05  | 1.94  | -1.67  | 10.56 |
| Exports   | -0.46 | -22.11 | -12.25 | -7.65 | 2.96  | -0.36 | 2.99   | 4.82  | -0.87 | -14.86 | 8.68  |
| Goods   | -0.62 | -22.11 | -12.43 | -7.42 | 2.49  | -0.12 | 2.80   | 4.89  | -0.76 | -14.76 | 8.49  |
| Services  | 0.16  | -0.01  | 0.18   | -0.23 | 0.47  | -0.25 | 0.19   | -0.07 | -0.10 | -0.10  | 0.18  |
| Imports   | -2.53 | 14.31  | 10.55  | 6.86  | -3.93 | -2.97 | -10.89 | -4.77 | 2.81  | 13.19  | 1.89  |
| Goods   | -2.19 | 13.69  | 9.88   | 6.67  | -3.33 | -3.17 | -9.85  | -4.66 | 2.54  | 13.22  | 1.26  |
| Services  | -0.33 | 0.62   | 0.66   | 0.18  | -0.60 | 0.20  | -1.05  | -0.11 | 0.27  | -0.03  | 0.63  |
| Government consumption expenditures<br>and gross investment | 2.21  | 5.67   | 2.58   | 3.58  | -2.27 | -3.24 | 3.70   | 4.14  | -7.97 | -2.66  | -0.84 |
| Federal   | 0.40  | 1.58   | -1.40  | 0.06  | -0.21 | -0.16 | 0.33   | 0.34  | -0.02 | -0.13  | -0.35 |
| Territorial   | 1.81  | 4.09   | 3.98   | 3.52  | -2.06 | -3.09 | 3.37   | 3.80  | -7.95 | -2.53  | -0.49 |

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

## Table A.1.5. Percent Change from Preceding Year in Prices for Gross Domestic Product, AmericanSamoa

[Percent]

|                                   | 2008 | 2009 | 2010  | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|-----------------------------------|------|------|-------|------|------|------|------|------|------|------|------|
| Gross domestic product            | 11.1 | 25.7 | -15.4 | -0.6 | 17.3 | 2.3  | -0.7 | 1.4  | 1.5  | -1.9 | 3.3  |
| Personal consumption expenditures | 8.9  | 0.8  | 5.4   | 7.8  | 4.7  | 1.8  | 1.0  | -2.2 | -0.7 | 3.2  | 2.5  |

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

|                        | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Gross domestic product | 520  | 563  | 678  | 576  | 574  | 644  | 641  | 642  | 661  | 652  | 602  |
| Private industries     | 365  | 404  | 514  | 389  | 389  | 450  | 450  | 454  | 465  | 455  | 409  |
| Manufacturing          | 77   | 112  | 163  | 41   | 21   | 89   | 93   | 77   | 91   | 89   | 63   |
| Nonmanufacturing       | 288  | 291  | 351  | 348  | 368  | 361  | 357  | 377  | 374  | 366  | 346  |
| Government             | 156  | 160  | 165  | 187  | 185  | 195  | 191  | 188  | 196  | 197  | 193  |
| Federal                | 14   | 16   | 18   | 18   | 17   | 17   | 18   | 18   | 18   | 19   | 18   |
| Territorial            | 142  | 144  | 146  | 169  | 168  | 177  | 172  | 171  | 177  | 178  | 175  |

|                        | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Gross domestic product | 727  | 708  | 678  | 681  | 683  | 653  | 635  | 641  | 650  | 632  | 595  |
| Private industries     | 568  | 544  | 514  | 501  | 514  | 474  | 464  | 478  | 487  | 470  | 435  |
| Manufacturing          | 204  | 205  | 163  | 143  | 132  | 138  | 135  | 139  | 160  | 155  | 122  |
| Nonmanufacturing       | 366  | 345  | 351  | 353  | 365  | 331  | 324  | 334  | 331  | 319  | 305  |
| Government             | 163  | 166  | 165  | 177  | 170  | 176  | 168  | 162  | 162  | 161  | 158  |
| Federal                | 14   | 17   | 18   | 17   | 16   | 16   | 17   | 16   | 16   | 16   | 16   |
| Territorial            | 148  | 149  | 146  | 160  | 154  | 160  | 151  | 145  | 146  | 144  | 142  |

### Table A.2.2. Real Value Added by Industry, American Samoa

[Millions of chained (2009) dollars]

### Table A.2.3. Percent Changes in Real Value Added by Industry, American Samoa

[Percent] 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 Gross domestic product -2.5 -4.2 0.4 0.3 -4.3 -2.8 1.0 1.4 -2.8 -5.8 -4.2 -5.5 -2.4 2.5 -7.7 -2.2 3.1 1.8 -3.5 -7.5 **Private industries** -20.3 -12.3 -7.9 -1.9 14.5 -2.7 Manufacturing 0.4 4.9 3.0 -21.5 -0.8 -5.7 0.7 3.4 -9.3 -2.2 3.1 -3.7 -4.2 Nonmanufacturing 1.7 Government 1.7 -0.6 7.8 -4.2 3.4 -4.3 -4.0 0.5 -1.0 -2.1 Federal 14.7 10.7 -7.6 -4.4 -0.8 5.0 -4.0-1.1 2.0 -4.3 Territorial 0.4 -1.8 9.7 -4.1 3.8 -5.2 -4.0 0.7 -1.3 -1.8

## 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  | 2017  |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Percent change:        |       |       |       |       |       |       |       |       |       |       |
| Gross domestic product | -2.5  | -4.2  | 0.4   | 0.3   | -4.3  | -2.8  | 1.0   | 1.4   | -2.8  | -5.8  |
| Percentage points:     |       |       |       |       |       |       |       |       |       |       |
| Private industries     | -3.03 | -4.14 | -1.81 | 1.64  | -5.34 | -1.51 | 2.15  | 1.29  | -2.49 | -5.21 |
| Manufacturing          | 0.07  | -4.98 | -2.21 | -0.47 | 0.40  | -0.27 | 0.39  | 1.76  | -0.37 | -2.82 |
| Nonmanufacturing       | -3.10 | 0.84  | 0.40  | 2.11  | -5.74 | -1.24 | 1.77  | -0.46 | -2.12 | -2.40 |
| Government             | 0.48  | -0.14 | 2.14  | -1.38 | 1.02  | -1.30 | -1.20 | 0.15  | -0.30 | -0.63 |
| Federal                | 0.38  | 0.28  | -0.23 | -0.14 | -0.02 | 0.13  | -0.11 | -0.03 | 0.05  | -0.13 |
| Territorial            | 0.11  | -0.42 | 2.37  | -1.24 | 1.04  | -1.43 | -1.09 | 0.18  | -0.36 | -0.50 |

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

|                    | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|
| Total compensation | 265  | 274  | 271  | 270  | 262  | 272  | 279  | 297  | 311  | 313  | 299  |
| Private industries | 125  | 131  | 125  | 97   | 97   | 103  | 107  | 119  | 126  | 130  | 123  |
| Manufacturing      | 52   | 59   | 53   | 31   | 27   | 40   | 42   | 46   | 54   | 54   | 49   |
| Nonmanufacturing   | 73   | 72   | 71   | 66   | 70   | 63   | 65   | 74   | 72   | 75   | 74   |
| Government         | 140  | 143  | 147  | 173  | 164  | 169  | 171  | 178  | 185  | 183  | 176  |
| Federal            | 13   | 16   | 18   | 17   | 17   | 17   | 17   | 17   | 17   | 18   | 17   |
| Territorial        | 127  | 127  | 129  | 156  | 148  | 152  | 154  | 161  | 167  | 165  | 159  |

## Table A.2.5. Compensation of Employees by Industry, American Samoa[Millions of dollars]

### **Commonwealth of the Northern Mariana Islands (CNMI)**

Real GDP decreased 19.6 percent in 2018 (table B.1.3).

- The decline in the CNMI economy primarily reflected declines in gaming industry revenues and private fixed investment.
- Exports of services was the largest contributor to the decline in real GDP in 2018, reflecting decreases in visitor spending, particularly on casino gambling. Visitor arrivals in the CNMI decreased over 20 percent, with significant declines in the months following Typhoon Yutu, which made landfall on Saipan and Tinian in October 2018 (table B.1.4).
- Private fixed investment declined in 2018 but remained at historically high levels, supported by continued development of the casino resort on Saipan and the start of post-typhoon repairs and reconstruction activity.

|   | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016  | 2017   | 2018  |
|---|------|------|------|------|------|------|------|------|------|-------|--------|-------|
| Gross domestic product                                      | 938  | 939  | 795  | 799  | 733  | 751  | 782  | 845  | 931  | 1,250 | 1,601  | 1,323 |
| Personal consumption expenditures                           | 480  | 504  | 431  | 442  | 451  | 469  | 494  | 520  | 526  | 551   | 607    | 616   |
| Goods   | 358  | 387  | 332  | 354  | 366  | 399  | 424  | 451  | 453  | 462   | 522    | 522   |
| Durable goods   | 137  | 142  | 119  | 130  | 132  | 143  | 166  | 186  | 194  | 202   | 227    | 225   |
| Nondurable goods  | 222  | 245  | 213  | 224  | 234  | 256  | 257  | 265  | 258  | 259   | 295    | 298   |
| Services  | 409  | 427  | 381  | 398  | 378  | 427  | 460  | 498  | 556  | 965   | 1,168  | 772   |
| Net foreign travel  | -287 | -310 | -283 | -309 | -293 | -357 | -390 | -429 | -483 | -876  | -1,083 | -678  |
| Private fixed investment                                    | 79   | 83   | 85   | 77   | 74   | 79   | 87   | 123  | 198  | 327   | 301    | 245   |
| Net exports of goods and services                           | 47   | 29   | -47  | -70  | -132 | -98  | -111 | -110 | -130 | 0     | 282    | -14   |
| Exports   | 627  | 488  | 312  | 335  | 317  | 380  | 414  | 451  | 504  | 903   | 1,113  | 712   |
| Goods   | 333  | 172  | 23   | 19   | 17   | 16   | 17   | 15   | 13   | 19    | 23     | 26    |
| Services  | 293  | 316  | 289  | 316  | 300  | 364  | 397  | 436  | 491  | 883   | 1,091  | 686   |
| Imports   | 579  | 459  | 360  | 405  | 449  | 478  | 525  | 561  | 633  | 902   | 831    | 726   |
| Goods   | 498  | 394  | 307  | 346  | 384  | 409  | 449  | 477  | 488  | 636   | 632    | 608   |
| Services  | 81   | 66   | 53   | 59   | 65   | 69   | 76   | 84   | 145  | 267   | 199    | 119   |
| Government consumption expenditures<br>and gross investment | 332  | 324  | 327  | 349  | 340  | 301  | 312  | 312  | 336  | 372   | 411    | 476   |
| Federal   | 13   | 15   | 20   | 22   | 22   | 21   | 20   | 22   | 29   | 26    | 26     | 57    |
| Territorial   | 319  | 308  | 306  | 327  | 318  | 279  | 292  | 290  | 308  | 346   | 386    | 419   |

## Table B.1.1. Gross Domestic Product, Commonwealth of the Northern Mariana Islands [Millions of dollars]

### 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   | 2018   |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Gross domestic product (GDP)                             | 1,084  | 964    | 795    | 806    | 744    | 748    | 766    | 795    | 823    | 1,056  | 1,326  | 1,066  |
| Personal consumption expenditures                        | 516    | 509    | 431    | 444    | 430    | 440    | 463    | 483    | 499    | 518    | 554    | 548    |
| Goods  | 395    | 400    | 332    | 349    | 338    | 363    | 388    | 403    | 414    | 422    | 462    | 450    |
| Durable goods  | 149    | 149    | 119    | 127    | 121    | 131    | 153    | 169    | 185    | 190    | 203    | 196    |
| Nondurable goods   | 246    | 251    | 213    | 222    | 217    | 232    | 234    | 235    | 230    | 233    | 260    | 254    |
| Services   | 434    | 433    | 381    | 389    | 354    | 390    | 413    | 435    | 485    | 812    | 966    | 622    |
| Net foreign travel                                       | -313   | -324   | -283   | -294   | -263   | -313   | -336   | -353   | -400   | -732   | -894   | -528   |
| Private fixed investment                                 | 80     | 82     | 85     | 78     | 72     | 76     | 84     | 119    | 193    | 320    | 292    | 234    |
| Net exports of goods and services                        | 147    | 48     | -47    | -56    | -82    | -52    | -64    | -76    | -148   | -105   | 133    | -78    |
| Exports  | 747    | 476    | 312    | 320    | 284    | 333    | 357    | 373    | 415    | 721    | 874    | 544    |
| Goods  | 396    | 138    | 23     | 19     | 15     | 14     | 15     | 13     | 12     | 18     | 20     | 23     |
| Services   | 320    | 331    | 289    | 300    | 269    | 319    | 342    | 359    | 402    | 702    | 852    | 522    |
| Imports  | 600    | 428    | 360    | 376    | 367    | 384    | 421    | 449    | 563    | 825    | 741    | 622    |
| Goods  | 511    | 361    | 307    | 320    | 308    | 323    | 354    | 378    | 440    | 594    | 573    | 527    |
| Services   | 88     | 67     | 53     | 56     | 59     | 61     | 67     | 71     | 124    | 229    | 169    | 98     |
| Government consumption expenditures and gross investment | 348    | 326    | 327    | 341    | 327    | 286    | 289    | 279    | 297    | 326    | 349    | 381    |
| Federal  | 13     | 16     | 20     | 21     | 21     | 20     | 19     | 20     | 25     | 23     | 22     | 47     |
| Territorial  | 335    | 310    | 306    | 320    | 307    | 265    | 270    | 259    | 272    | 304    | 327    | 334    |
| Addenda:   |        |        |        |        |        |        |        |        |        |        |        |        |
| 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   | 50.0   |
| Per capita real GDP (chained dollars)                    | 18,280 | 16,736 | 14,324 | 15,065 | 14,253 | 14,553 | 14,961 | 15,588 | 16,201 | 20,870 | 26,362 | 21,320 |

Note. Estimates of population for 2013–2018 reflect the incorporation of updated information from the U.S. Census Bureau International Data Base.

1. Source: U.S. Census Bureau.

## Table B.1.3. Percent Change from Preceding Year in Real Gross Domestic Product, Commonwealth of the NorthernMariana Islands

[Percent]

|   | 2008  | 2009  | 2010  | 2011  | 2012  | 2013 | 2014  | 2015 | 2016 | 2017  | 2018  |
|---|-------|-------|-------|-------|-------|------|-------|------|------|-------|-------|
| Gross domestic product                                      | -11.1 | -17.5 | 1.3   | -7.7  | 0.6   | 2.4  | 3.9   | 3.5  | 28.4 | 25.5  | -19.6 |
| Personal consumption expenditures                           | -1.4  | -15.4 | 3.0   | -3.2  | 2.4   | 5.3  | 4.2   | 3.4  | 3.7  | 7.1   | -1.1  |
| Goods   | 1.3   | -17.1 | 5.1   | -3.0  | 7.4   | 6.7  | 4.0   | 2.7  | 2.0  | 9.5   | -2.7  |
| Durable goods   | 0.2   | -20.2 | 6.7   | -5.0  | 8.5   | 17.0 | 10.0  | 9.5  | 3.1  | 6.7   | -3.4  |
| Nondurable goods  | 2.0   | -15.3 | 4.1   | -1.9  | 6.8   | 1.0  | 0.1   | -2.1 | 1.2  | 11.7  | -2.2  |
| Services  | -0.3  | -11.9 | 2.0   | -9.1  | 10.4  | 5.7  | 5.3   | 11.6 | 67.4 | 19.0  | -35.6 |
| Net foreign travel  |       |       |       |       |       |      |       |      |      |       |       |
| Private fixed investment                                    | 2.1   | 4.4   | -8.9  | -6.9  | 5.6   | 9.4  | 42.2  | 62.6 | 65.7 | -8.9  | -19.8 |
| Net exports of goods and services                           |       |       |       |       |       |      |       |      |      |       |       |
| Exports   | -36.3 | -34.4 | 2.4   | -11.1 | 17.1  | 7.2  | 4.5   | 11.3 | 73.8 | 21.2  | -37.7 |
| Goods   | -65.2 | -83.4 | -16.7 | -20.8 | -8.6  | 6.9  | -11.7 | -9.0 | 48.2 | 16.5  | 11.8  |
| Services  | 3.4   | -12.5 | 3.8   | -10.5 | 18.5  | 7.3  | 5.2   | 11.9 | 74.5 | 21.3  | -38.8 |
| Imports   | -28.6 | -16.0 | 4.5   | -2.5  | 4.8   | 9.5  | 6.7   | 25.4 | 46.6 | -10.3 | -16.1 |
| Goods   | -29.3 | -15.0 | 4.3   | -3.8  | 5.0   | 9.6  | 6.6   | 16.4 | 35.0 | -3.6  | -7.9  |
| Services  | -24.3 | -21.2 | 6.0   | 5.7   | 3.8   | 8.8  | 7.3   | 73.4 | 85.3 | -26.3 | -42.0 |
| Government consumption expenditures<br>and gross investment | -6.4  | 0.2   | 4.4   | -4.0  | -12.8 | 1.1  | -3.2  | 6.5  | 9.7  | 6.8   | 9.2   |
| Federal   | 19.2  | 30.7  | 4.4   | -3.6  | -2.5  | -6.4 | 7.4   | 26.1 | -9.7 | -4.4  | 113.8 |
| Territorial   | -7.4  | -1.3  | 4.4   | -4.0  | -13.5 | 1.7  | -4.0  | 4.9  | 11.5 | 7.6   | 2.3   |

#### 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   | 2018   |  |  |  |  |  |
|---|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--|--|--|--|--|
| Percent change:   |        |        |       |       |       |       |       |        |        |        |        |  |  |  |  |  |
| Gross domestic product                                      | -11.1  | -17.5  | 1.3   | -7.7  | 0.6   | 2.4   | 3.9   | 3.5    | 28.4   | 25.5   | -19.6  |  |  |  |  |  |
| Percentage points:  |        |        |       |       |       |       |       |        |        |        |        |  |  |  |  |  |
| Personal consumption expenditures                           | -0.68  | -8.36  | 1.65  | -1.80 | 1.47  | 3.27  | 2.63  | 2.00   | 2.07   | 3.12   | -0.43  |  |  |  |  |  |
| Goods   | 0.48   | -7.20  | 2.14  | -1.39 | 3.69  | 3.55  | 2.13  | 1.37   | 0.95   | 3.54   | -0.87  |  |  |  |  |  |
| Durable goods   | 0.03   | -3.14  | 1.02  | -0.84 | 1.52  | 3.22  | 2.09  | 1.99   | 0.63   | 1.10   | -0.48  |  |  |  |  |  |
| Nondurable goods  | 0.45   | -4.06  | 1.12  | -0.55 | 2.17  | 0.33  | 0.04  | -0.63  | 0.32   | 2.43   | -0.40  |  |  |  |  |  |
| Services  | -0.13  | -5.45  | 0.99  | -4.67 | 5.37  | 3.25  | 3.13  | 6.64   | 40.11  | 14.61  | -25.97 |  |  |  |  |  |
| Net foreign travel  | -1.02  | 4.28   | -1.47 | 4.25  | -7.60 | -3.52 | -2.64 | -6.01  | -38.99 | -15.03 | 26.41  |  |  |  |  |  |
| Private fixed investment                                    | 0.17   | 0.38   | -0.96 | -0.67 | 0.56  | 0.98  | 4.59  | 8.83   | 13.65  | -2.32  | -3.69  |  |  |  |  |  |
| Net exports of goods and services                           | -8.43  | -9.64  | -1.19 | -3.46 | 4.44  | -2.35 | -2.05 | -9.70  | 9.19   | 22.68  | -17.87 |  |  |  |  |  |
| Exports   | -25.55 | -17.22 | 0.95  | -4.80 | 7.39  | 3.66  | 2.38  | 5.85   | 39.66  | 15.27  | -26.24 |  |  |  |  |  |
| Goods   | -26.56 | -12.91 | -0.49 | -0.53 | -0.20 | 0.14  | -0.25 | -0.15  | 0.66   | 0.25   | 0.17   |  |  |  |  |  |
| Services  | 1.01   | -4.31  | 1.44  | -4.27 | 7.58  | 3.52  | 2.63  | 6.00   | 39.00  | 15.02  | -26.41 |  |  |  |  |  |
| Imports   | 17.13  | 7.58   | -2.14 | 1.35  | -2.95 | -6.01 | -4.43 | -15.55 | -30.47 | 7.40   | 8.38   |  |  |  |  |  |
| Goods   | 15.13  | 6.08   | -1.74 | 1.78  | -2.62 | -5.21 | -3.73 | -8.49  | -17.57 | 1.82   | 3.15   |  |  |  |  |  |
| Services  | 2.00   | 1.50   | -0.41 | -0.43 | -0.33 | -0.80 | -0.70 | -7.06  | -12.90 | 5.59   | 5.22   |  |  |  |  |  |
| Government consumption expenditures<br>and gross investment | -2.12  | 0.08   | 1.82  | -1.75 | -5.92 | 0.45  | -1.28 | 2.33   | 3.45   | 2.04   | 2.40   |  |  |  |  |  |
| Federal   | 0.24   | 0.51   | 0.11  | -0.10 | -0.07 | -0.18 | 0.19  | 0.67   | -0.29  | -0.09  | 1.84   |  |  |  |  |  |
| Territorial   | -2.36  | -0.43  | 1.71  | -1.65 | -5.84 | 0.63  | -1.47 | 1.66   | 3.74   | 2.13   | 0.56   |  |  |  |  |  |

## 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 | 2018 |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Gross domestic product            | 12.5 | 2.7  | -0.8 | -0.7 | 1.9  | 1.7  | 4.1  | 6.4  | 4.7  | 2.0  | 2.8  |
| Personal consumption expenditures | 6.3  | 1.1  | -0.4 | 5.3  | 1.6  | -0.1 | 1.1  | -2.2 | 1.0  | 3.0  | 2.6  |

## 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  | 2017  |
|------------------------------|------|------|------|------|------|------|------|------|------|-------|-------|
| Gross domestic product       | 938  | 939  | 795  | 799  | 733  | 751  | 782  | 845  | 931  | 1,250 | 1,601 |
| Private industries           | 717  | 727  | 586  | 589  | 540  | 563  | 583  | 642  | 716  | 1,024 | 1,340 |
| Manufacturing                | 174  | 50   | 18   | 16   | 15   | 12   | 11   | 15   | 18   | 22    | 18    |
| Distributive services        | 140  | 165  | 135  | 149  | 153  | 157  | 170  | 178  | 187  | 196   | 207   |
| Accommodations and amusement | 111  | 122  | 105  | 110  | 97   | 114  | 134  | 149  | 188  | 450   | 721   |
| All other                    | 291  | 390  | 328  | 314  | 274  | 280  | 269  | 301  | 323  | 355   | 394   |
| Government                   | 222  | 212  | 209  | 210  | 193  | 188  | 198  | 203  | 215  | 226   | 261   |
| Federal                      | 13   | 14   | 16   | 14   | 15   | 15   | 15   | 14   | 16   | 16    | 17    |
| Territorial                  | 209  | 197  | 193  | 196  | 178  | 173  | 184  | 189  | 199  | 210   | 244   |

|                              | 2007  | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016  | 2017  |
|------------------------------|-------|------|------|------|------|------|------|------|------|-------|-------|
| Gross domestic product       | 1,084 | 964  | 795  | 806  | 744  | 748  | 766  | 795  | 823  | 1,056 | 1,326 |
| Private industries           | 846   | 745  | 586  | 601  | 560  | 573  | 585  | 616  | 641  | 868   | 1,115 |
| Manufacturing                | 181   | 52   | 18   | 16   | 15   | 11   | 10   | 13   | 16   | 20    | 15    |
| Distributive services        | 147   | 169  | 135  | 147  | 148  | 148  | 158  | 164  | 170  | 179   | 189   |
| Accommodations and amusement | 120   | 128  | 105  | 110  | 98   | 110  | 126  | 136  | 165  | 364   | 574   |
| All other                    | 391   | 396  | 328  | 328  | 298  | 303  | 288  | 298  | 285  | 291   | 313   |
| Government                   | 237   | 219  | 209  | 204  | 184  | 176  | 182  | 182  | 184  | 191   | 215   |
| Federal                      | 13    | 15   | 16   | 14   | 14   | 14   | 13   | 13   | 13   | 14    | 14    |
| Territorial                  | 224   | 205  | 193  | 191  | 170  | 163  | 168  | 169  | 170  | 177   | 200   |

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

 [Millions of chained (2009) dollars]

# Table B.2.3. Percent Changes in Real Value Added by Industry, Commonwealth of the NorthernMariana Islands

[Percent]

|                              | 2008  | 2009  | 2010  | 2011  | 2012  | 2013 | 2014 | 2015 | 2016  | 2017  |
|------------------------------|-------|-------|-------|-------|-------|------|------|------|-------|-------|
| Gross domestic product       | -11.1 | -17.5 | 1.3   | -7.7  | 0.6   | 2.4  | 3.9  | 3.5  | 28.4  | 25.5  |
| Private industries           | -12.0 | -21.3 | 2.6   | -6.9  | 2.3   | 2.1  | 5.2  | 4.1  | 35.4  | 28.5  |
| Manufacturing                | -71.4 | -65.4 | -10.5 | -7.8  | -27.3 | -6.5 | 32.3 | 21.1 | 23.1  | -21.7 |
| Distributive services        | 15.1  | -20.4 | 9.3   | 0.8   | -0.3  | 7.1  | 3.8  | 3.4  | 5.4   | 5.8   |
| Accommodations and amusement | 6.9   | -17.8 | 4.2   | -11.0 | 13.0  | 13.8 | 8.4  | 20.8 | 121.2 | 57.8  |
| All other                    | 1.2   | -17.1 | 0.1   | -9.1  | 1.6   | -5.2 | 3.5  | -4.3 | 2.3   | 7.2   |
| Government                   | -7.5  | -4.6  | -2.3  | -9.9  | -4.3  | 3.1  | -0.1 | 1.2  | 4.1   | 12.2  |
| Federal                      | 10.0  | 9.9   | -15.1 | 1.5   | -2.4  | -2.1 | -3.8 | 4.5  | 3.6   | 1.3   |
| Territorial                  | -8.6  | -5.6  | -1.2  | -10.8 | -4.5  | 3.6  | 0.2  | 0.9  | 4.2   | 13.0  |

## 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  | 2017  |
|------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| Percent change:              |        |        |       |       |       |       |       |       |       |       |
| Gross domestic product       | -11.1  | -17.5  | 1.3   | -7.7  | 0.6   | 2.4   | 3.9   | 3.5   | 28.4  | 25.5  |
| Percentage points:           |        |        |       |       |       |       |       |       |       |       |
| Private industries           | -9.27  | -16.49 | 1.94  | -5.05 | 1.68  | 1.57  | 3.91  | 3.14  | 27.40 | 23.32 |
| Manufacturing                | -12.60 | -3.50  | -0.24 | -0.16 | -0.58 | -0.10 | 0.45  | 0.36  | 0.44  | -0.39 |
| Distributive services        | 2.16   | -3.58  | 1.58  | 0.16  | -0.06 | 1.48  | 0.82  | 0.70  | 1.06  | 0.89  |
| Accommodations and amusement | 0.78   | -2.34  | 0.55  | -1.52 | 1.74  | 2.12  | 1.42  | 3.63  | 25.09 | 20.74 |
| All other                    | 0.39   | -7.07  | 0.04  | -3.53 | 0.58  | -1.92 | 1.22  | -1.55 | 0.81  | 2.07  |
| Government                   | -1.71  | -1.04  | -0.61 | -2.65 | -1.13 | 0.79  | -0.03 | 0.28  | 0.94  | 2.22  |
| Federal                      | 0.13   | 0.15   | -0.32 | 0.03  | -0.05 | -0.04 | -0.07 | 0.08  | 0.06  | 0.02  |
| Territorial                  | -1.84  | -1.19  | -0.30 | -2.68 | -1.08 | 0.83  | 0.04  | 0.21  | 0.88  | 2.20  |

Note. Percentage-point contributions do not sum to the percent change in real gross domestic product (GDP) 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]

|                              |      | Ľ    |      | 01 40114 | 1    |      |      |      |      |      |      |
|------------------------------|------|------|------|----------|------|------|------|------|------|------|------|
|                              | 2007 | 2008 | 2009 | 2010     | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
| Total compensation           | 533  | 501  | 455  | 456      | 431  | 415  | 433  | 469  | 497  | 581  | 656  |
| Private industries           | 336  | 307  | 263  | 264      | 259  | 252  | 267  | 298  | 311  | 383  | 436  |
| Manufacturing                | 74   | 26   | 9    | 8        | 8    | 8    | 7    | 10   | 12   | 15   | 12   |
| Distributive services        | 62   | 72   | 58   | 62       | 62   | 63   | 67   | 71   | 74   | 78   | 82   |
| Accommodations and amusement | 61   | 67   | 58   | 60       | 54   | 64   | 74   | 83   | 104  | 150  | 184  |
| All other                    | 140  | 142  | 137  | 134      | 135  | 119  | 118  | 135  | 121  | 141  | 159  |
| Government                   | 197  | 194  | 192  | 191      | 172  | 163  | 166  | 171  | 186  | 198  | 220  |
| Federal                      | 13   | 14   | 16   | 14       | 14   | 14   | 14   | 14   | 15   | 16   | 16   |
| Territorial                  | 184  | 180  | 176  | 177      | 158  | 149  | 152  | 158  | 171  | 182  | 204  |

### Guam

Real GDP decreased 0.3 percent in 2018 (table C.1.3).

- The decline in the Guam economy reflected decreases in local government spending and private fixed investment (table C.1.4).<sup>3</sup>
- Territorial government spending on construction and equipment decreased, despite progress on major infrastructure projects, including an improved wastewater treatment plant.
- Private fixed investment continued to decline in 2018, as a number of major projects faced delays.

|   | 2007   | 2008   | 2009   | 2010   | 2011   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |  |  |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| Gross domestic product                                      | 4,375  | 4,621  | 4,781  | 4,895  | 4,928  | 5,199  | 5,336  | 5,538  | 5,710  | 5,795  | 5,851  | 5,920  |  |  |
| Personal consumption expenditures                           | 2,536  | 2,753  | 2,813  | 2,816  | 2,905  | 3,153  | 3,146  | 3,194  | 3,181  | 3,256  | 3,387  | 3,455  |  |  |
| Goods   | 1,414  | 1,512  | 1,448  | 1,462  | 1,564  | 1,765  | 1,709  | 1,717  | 1,664  | 1,704  | 1,759  | 1,800  |  |  |
| Durable goods   | 518    | 542    | 520    | 523    | 564    | 635    | 616    | 596    | 586    | 607    | 636    | 627    |  |  |
| Nondurable goods  | 897    | 970    | 928    | 939    | 1,001  | 1,130  | 1,093  | 1,120  | 1,078  | 1,097  | 1,123  | 1,173  |  |  |
| Services  | 2,007  | 2,076  | 2,100  | 2,123  | 2,131  | 2,279  | 2,307  | 2,417  | 2,487  | 2,588  | 2,659  | 2,726  |  |  |
| Net foreign travel  | -885   | -835   | -735   | -769   | -790   | -892   | -871   | -940   | -969   | -1,036 | -1,032 | -1,071 |  |  |
| Private fixed investment                                    | 921    | 1,057  | 1,081  | 1,057  | 1,027  | 1,044  | 1,224  | 1,308  | 1,242  | 1,184  | 1,177  | 1,190  |  |  |
| Net exports of goods and services                           | -1,483 | -1,699 | -1,801 | -1,873 | -2,021 | -2,033 | -2,153 | -2,225 | -1,994 | -1,854 | -1,897 | -2,013 |  |  |
| Exports   | 1,005  | 973    | 838    | 846    | 928    | 1,004  | 1,053  | 1,058  | 1,048  | 1,123  | 1,129  | 1,165  |  |  |
| Goods   | 115    | 133    | 98     | 73     | 133    | 107    | 177    | 112    | 73     | 82     | 92     | 87     |  |  |
| Services  | 890    | 840    | 740    | 774    | 795    | 897    | 876    | 946    | 975    | 1,041  | 1,037  | 1,078  |  |  |
| Imports   | 2,489  | 2,673  | 2,639  | 2,719  | 2,949  | 3,037  | 3,206  | 3,283  | 3,042  | 2,976  | 3,026  | 3,178  |  |  |
| Goods   | 2,018  | 2,115  | 2,051  | 2,098  | 2,289  | 2,395  | 2,512  | 2,558  | 2,331  | 2,285  | 2,333  | 2,448  |  |  |
| Services  | 470    | 558    | 588    | 621    | 661    | 642    | 694    | 725    | 711    | 691    | 692    | 730    |  |  |
| Government consumption expenditures<br>and gross investment | 2,402  | 2,510  | 2,688  | 2,894  | 3,017  | 3,035  | 3,120  | 3,261  | 3,281  | 3,208  | 3,183  | 3,288  |  |  |
| Federal   | 1,491  | 1,597  | 1,738  | 1,854  | 1,895  | 1,898  | 1,890  | 1,965  | 2,011  | 1,988  | 1,881  | 1,957  |  |  |
| Territorial   | 911    | 913    | 950    | 1,039  | 1,121  | 1,138  | 1,230  | 1,296  | 1,270  | 1,220  | 1,302  | 1,331  |  |  |

#### Table C.1.1. Gross Domestic Product, Guam [Millions of dollars]

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

| 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 |        |        |        |        |        |        |        |        |        |        |        |        |  |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
|   | 2007   | 2008   | 2009   | 2010   | 2011   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   |  |
| Gross domestic product (GDP)                                | 4,685  | 4,766  | 4,781  | 4,881  | 4,887  | 4,986  | 5,077  | 5,165  | 5,189  | 5,204  | 5,217  | 5,203  |  |
| Personal consumption expenditures                           | 2,725  | 2,794  | 2,813  | 2,782  | 2,823  | 2,925  | 2,929  | 2,949  | 2,972  | 3,020  | 3,084  | 3,083  |  |
| Goods   | 1,507  | 1,520  | 1,448  | 1,477  | 1,551  | 1,686  | 1,650  | 1,648  | 1,628  | 1,672  | 1,695  | 1,699  |  |
| Durable goods   | 553    | 538    | 520    | 529    | 575    | 631    | 628    | 618    | 626    | 639    | 645    | 642    |  |
| Nondurable goods  | 954    | 983    | 928    | 948    | 976    | 1,056  | 1,024  | 1,030  | 1,004  | 1,035  | 1,051  | 1,059  |  |
| Services  | 2,154  | 2,121  | 2,100  | 2,068  | 2,040  | 2,084  | 2,112  | 2,189  | 2,248  | 2,318  | 2,351  | 2,364  |  |
| Net foreign travel  | -937   | -849   | -735   | -763   | -766   | -840   | -830   | -887   | -906   | -973   | -964   | -984   |  |
| Private fixed investment                                    | 921    | 1,038  | 1,081  | 1,062  | 1,015  | 1,015  | 1,181  | 1,247  | 1,182  | 1,127  | 1,107  | 1,097  |  |
| Net exports of goods and services                           | -1,448 | -1,581 | -1,801 | -1,808 | -1,845 | -1,829 | -1,933 | -1,985 | -1,899 | -1,801 | -1,783 | -1,782 |  |
| Exports   | 1,061  | 977    | 838    | 837    | 892    | 938    | 996    | 992    | 976    | 1,052  | 1,053  | 1,068  |  |
| Goods   | 120    | 124    | 98     | 70     | 118    | 93     | 156    | 99     | 66     | 76     | 85     | 79     |  |
| Services  | 942    | 853    | 740    | 767    | 771    | 845    | 835    | 892    | 911    | 978    | 969    | 990    |  |
| Imports   | 2,509  | 2,558  | 2,639  | 2,646  | 2,737  | 2,767  | 2,928  | 2,977  | 2,875  | 2,854  | 2,836  | 2,850  |  |
| Goods   | 2,031  | 2,008  | 2,051  | 2,024  | 2,090  | 2,149  | 2,274  | 2,309  | 2,232  | 2,237  | 2,232  | 2,232  |  |
| Services  | 477    | 550    | 588    | 623    | 648    | 616    | 653    | 666    | 642    | 616    | 604    | 618    |  |
| Government consumption expenditures and gross investment    | 2,490  | 2,513  | 2,688  | 2,844  | 2,895  | 2,874  | 2,908  | 2,962  | 2,942  | 2,868  | 2,820  | 2,817  |  |
| Federal   | 1,528  | 1,587  | 1,738  | 1,818  | 1,817  | 1,791  | 1,773  | 1,814  | 1,833  | 1,796  | 1,673  | 1,684  |  |
| Territorial   | 964    | 926    | 950    | 1,025  | 1,078  | 1,083  | 1,135  | 1,148  | 1,111  | 1,073  | 1,148  | 1,133  |  |
| Addenda:  |        |        |        |        |        |        |        |        |        |        |        |        |  |
| 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  | 162.9  |  |
| Per capita real GDP (chained dollars)                       | 29,652 | 30,088 | 30,088 | 30,621 | 30,639 | 31,202 | 31,632 | 32,081 | 32,130 | 32,123 | 32,105 | 31,940 |  |

#### Table C.1.2. Real Gross Domestic Product, Chained Dollars, Guam [Millions of chained (2009) dollars]

1. Source: U.S. Census Bureau.

| Table C.1.3. Percent Change       | from | Table C.1.3. Percent Change from Preceding Year in Real Gross Domestic Product, Guam |        |      |      |      |      |      |      |      |      |  |  |  |  |
|-----------------------------------|------|--|--------|------|------|------|------|------|------|------|------|--|--|--|--|
|                                   |      |  | [Perce | nt]  |      |      |      |      |      |      |      |  |  |  |  |
|                                   | 2008 | 2009   | 2010   | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |  |  |  |  |
| Gross domestic product            |      |  |        |      |      |      |      |      |      |      |      |  |  |  |  |
| Personal consumption expenditures | 2.5  | 0.7  | -1.1   | 1.5  | 3.6  | 0.1  | 0.7  | 0.8  | 1.6  | 2.1  | -0.1 |  |  |  |  |
| Goods                             | 0.9  | -4.8   | 2.0    | 5.0  | 8.7  | -2.1 | -0.1 | -1.2 | 2.7  | 1.4  | 0.3  |  |  |  |  |
| Durable goods                     | -2.8 | -3.3   | 1.7    | 8.8  | 9.7  | -0.6 | -1.5 | 1.2  | 2.1  | 1.0  | -0.6 |  |  |  |  |
| Nondurable goods                  | 3.0  | -5.6   | 2.2    | 3.0  | 8.2  | -3.0 | 0.6  | -2.5 | 3.0  | 1.6  | 0.7  |  |  |  |  |
| Services                          | -1.5 | -1.0   | -1.5   | -1.4 | 2.1  | 1.3  | 3.6  | 2.7  | 3.1  | 1.4  | 0.5  |  |  |  |  |

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-13.3

3.1

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6.8

6.9

9.5

2.6

4.1

Net foreign travel

Exports

Imports

Federal

Territorial

Goods

Goods

Services

and gross investment

Services

Private fixed investment

Net exports of goods and services

**Government consumption expenditures** 

#### \_ \_ \_ .....

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

|   | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Percent change:   |       |       |       |       |       |       |       |       |       |       |       |
| Gross domestic product                                      | 1.7   | 0.3   | 2.1   | 0.1   | 2.0   | 1.8   | 1.7   | 0.5   | 0.3   | 0.2   | -0.3  |
| Percentage points:  |       |       |       |       |       |       |       |       |       |       |       |
| Personal consumption expenditures                           | 1.49  | 0.41  | -0.65 | 0.84  | 2.15  | 0.07  | 0.42  | 0.43  | 0.91  | 1.20  | -0.03 |
| Goods   | 0.28  | -1.54 | 0.60  | 1.50  | 2.78  | -0.72 | -0.04 | -0.37 | 0.78  | 0.41  | 0.09  |
| Durable goods   | -0.34 | -0.38 | 0.18  | 0.93  | 1.10  | -0.07 | -0.17 | 0.13  | 0.22  | 0.11  | -0.06 |
| Nondurable goods  | 0.62  | -1.16 | 0.42  | 0.57  | 1.67  | -0.65 | 0.13  | -0.50 | 0.57  | 0.30  | 0.15  |
| Services  | -0.71 | -0.44 | -0.68 | -0.59 | 0.92  | 0.59  | 1.57  | 1.16  | 1.37  | 0.63  | 0.25  |
| Net foreign travel  | 1.91  | 2.39  | -0.57 | -0.07 | -1.55 | 0.21  | -1.11 | -0.36 | -1.24 | 0.16  | -0.36 |
| Private fixed investment                                    | 2.67  | 0.92  | -0.39 | -0.96 | -0.01 | 3.29  | 1.28  | -1.22 | -0.99 | -0.38 | -0.18 |
| Net exports of goods and services                           | -2.94 | -4.71 | -0.16 | -0.82 | 0.32  | -2.22 | -1.07 | 1.66  | 1.81  | 0.34  | 0.01  |
| Exports   | -1.82 | -2.96 | -0.02 | 1.13  | 0.98  | 1.17  | -0.08 | -0.30 | 1.42  | 0.02  | 0.28  |
| Goods   | 0.09  | -0.56 | -0.59 | 1.06  | -0.57 | 1.38  | -1.19 | -0.66 | 0.18  | 0.18  | -0.11 |
| Services  | -1.91 | -2.39 | 0.57  | 0.07  | 1.55  | -0.20 | 1.11  | 0.36  | 1.24  | -0.16 | 0.39  |
| Imports   | -1.12 | -1.76 | -0.14 | -1.96 | -0.66 | -3.39 | -0.99 | 1.96  | 0.39  | 0.32  | -0.26 |
| Goods   | 0.52  | -0.95 | 0.59  | -1.43 | -1.32 | -2.64 | -0.72 | 1.47  | -0.10 | 0.09  | 0.01  |
| Services  | -1.64 | -0.81 | -0.73 | -0.53 | 0.66  | -0.75 | -0.26 | 0.48  | 0.49  | 0.24  | -0.27 |
| Government consumption expenditures<br>and gross investment | 0.50  | 3.72  | 3.28  | 1.08  | -0.44 | 0.69  | 1.09  | -0.39 | -1.44 | -0.92 | -0.07 |
| Federal   | 1.32  | 3.21  | 1.70  | -0.02 | -0.54 | -0.37 | 0.82  | 0.37  | -0.70 | -2.38 | 0.22  |
| Territorial   | -0.82 | 0.51  | 1.58  | 1.10  | 0.10  | 1.06  | 0.28  | -0.76 | -0.75 | 1.46  | -0.29 |

#### 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 | 2018 |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Gross domestic product            | 3.8  | 3.1  | 0.3  | 0.5  | 3.4  | 0.8  | 2.0  | 2.6  | 1.2  | 0.7  | 1.5  |
| Personal consumption expenditures | 5.9  | 1.5  | 1.2  | 1.7  | 4.7  | -0.4 | 0.8  | -1.1 | 0.7  | 1.8  | 2.1  |

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|------------------------------|-------|-------|--------|-------------------|-------|-------|-------|-------|-------|-------|-------|
|                              | 2007  | 2008  | 2009   | 2010              | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  |
| Gross domestic product       | 4,375 | 4,621 | 4,781  | 4,895             | 4,928 | 5,199 | 5,336 | 5,538 | 5,710 | 5,795 | 5,851 |
| Private industries           | 2,654 | 2,827 | 2,872  | 2,875             | 2,847 | 3,117 | 3,202 | 3,316 | 3,396 | 3,499 | 3,568 |
| Construction                 | 291   | 343   | 360    | 394               | 367   | 398   | 448   | 471   | 452   | 423   | 421   |
| Distributive services        | 436   | 469   | 464    | 495               | 513   | 551   | 547   | 573   | 600   | 657   | 677   |
| Accommodations and amusement | 406   | 422   | 429    | 452               | 462   | 487   | 528   | 602   | 634   | 684   | 704   |
| Other private                | 1,520 | 1,593 | 1,619  | 1,534             | 1,505 | 1,681 | 1,679 | 1,670 | 1,709 | 1,735 | 1,766 |
| Government                   | 1,721 | 1,795 | 1,910  | 2,020             | 2,081 | 2,082 | 2,134 | 2,222 | 2,314 | 2,296 | 2,283 |
| Federal                      | 1,008 | 1,071 | 1,157  | 1,217             | 1,253 | 1,249 | 1,250 | 1,274 | 1,311 | 1,276 | 1,267 |
| Territorial                  | 713   | 724   | 752    | 802               | 828   | 833   | 884   | 948   | 1,003 | 1,020 | 1,016 |

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

[Millions of dollars]

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  | 2017  |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Gross domestic product       | 4,685 | 4,766 | 4,781 | 4,881 | 4,887 | 4,986 | 5,077 | 5,165 | 5,189 | 5,204 | 5,217 |
| Private industries           | 2,876 | 2,929 | 2,872 | 2,906 | 2,879 | 2,998 | 3,071 | 3,140 | 3,143 | 3,200 | 3,223 |
| Construction                 | 304   | 360   | 360   | 402   | 369   | 391   | 431   | 440   | 414   | 381   | 369   |
| Distributive services        | 470   | 502   | 464   | 488   | 495   | 519   | 506   | 525   | 533   | 586   | 604   |
| Accommodations and amusement | 437   | 445   | 429   | 459   | 478   | 491   | 534   | 583   | 602   | 636   | 646   |
| Other private                | 1,667 | 1,622 | 1,619 | 1,557 | 1,537 | 1,595 | 1,603 | 1,595 | 1,597 | 1,600 | 1,608 |
| Government                   | 1,809 | 1,837 | 1,910 | 1,974 | 2,006 | 1,988 | 2,006 | 2,025 | 2,047 | 2,007 | 1,997 |
| Federal                      | 1,033 | 1,070 | 1,157 | 1,185 | 1,199 | 1,181 | 1,179 | 1,184 | 1,197 | 1,154 | 1,133 |
| Territorial                  | 779   | 769   | 752   | 790   | 807   | 808   | 828   | 841   | 850   | 851   | 861   |

## Table C.2.3. Percent Changes in Real Value Added by Industry, Guam [Percent]

|                              | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|------------------------------|------|------|------|------|------|------|------|------|------|------|
| Gross domestic product       | 1.7  | 0.3  | 2.1  | 0.1  | 2.0  | 1.8  | 1.7  | 0.5  | 0.3  | 0.2  |
| Private industries           | 1.8  | -1.9 | 1.2  | -0.9 | 4.1  | 2.5  | 2.2  | 0.1  | 1.8  | 0.7  |
| Construction                 | 18.4 | 0.0  | 11.6 | -8.0 | 5.9  | 10.1 | 2.3  | -6.0 | -7.9 | -3.3 |
| Distributive services        | 7.0  | -7.7 | 5.3  | 1.4  | 4.8  | -2.5 | 3.8  | 1.5  | 9.8  | 3.1  |
| Accommodations and amusement | 1.9  | -3.6 | 7.1  | 4.1  | 2.9  | 8.6  | 9.3  | 3.3  | 5.6  | 1.5  |
| Other private                | -2.7 | -0.2 | -3.8 | -1.3 | 3.8  | 0.5  | -0.5 | 0.1  | 0.2  | 0.5  |
| Government                   | 1.5  | 3.9  | 3.4  | 1.6  | -0.9 | 0.9  | 0.9  | 1.1  | -1.9 | -0.5 |
| Federal                      | 3.6  | 8.2  | 2.3  | 1.2  | -1.5 | -0.1 | 0.4  | 1.1  | -3.6 | -1.8 |
| Territorial                  | -1.4 | -2.1 | 5.0  | 2.2  | 0.1  | 2.4  | 1.6  | 1.0  | 0.2  | 1.2  |

#### 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  | 2017  |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Percent change:              |       |       |       |       |       |       |       |       |       |       |
| Gross domestic product       | 1.7   | 0.3   | 2.1   | 0.1   | 2.0   | 1.8   | 1.7   | 0.5   | 0.3   | 0.2   |
| Percentage points:           |       |       |       |       |       |       |       |       |       |       |
| Private industries           | 1.11  | -1.19 | 0.72  | -0.54 | 2.39  | 1.47  | 1.34  | 0.05  | 1.08  | 0.45  |
| Construction                 | 1.20  | 0.00  | 0.86  | -0.65 | 0.44  | 0.78  | 0.19  | -0.51 | -0.63 | -0.24 |
| Distributive services        | 0.69  | -0.80 | 0.52  | 0.15  | 0.49  | -0.27 | 0.39  | 0.16  | 1.03  | 0.35  |
| Accommodations and amusement | 0.17  | -0.34 | 0.63  | 0.37  | 0.27  | 0.80  | 0.93  | 0.35  | 0.63  | 0.18  |
| Other private                | -0.94 | -0.06 | -1.29 | -0.41 | 1.19  | 0.15  | -0.16 | 0.04  | 0.05  | 0.16  |
| Government                   | 0.60  | 1.53  | 1.37  | 0.67  | -0.37 | 0.36  | 0.38  | 0.43  | -0.79 | -0.20 |
| Federal                      | 0.83  | 1.86  | 0.58  | 0.30  | -0.38 | -0.03 | 0.10  | 0.25  | -0.82 | -0.40 |
| Territorial                  | -0.22 | -0.34 | 0.79  | 0.36  | 0.01  | 0.39  | 0.28  | 0.18  | 0.03  | 0.20  |

Note. Percentage-point contributions do not sum to the percent change in real gross domestic product (GDP) 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  | 2017  |  |  |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|
| Total compensation           | 2,453 | 2,588 | 2,715 | 2,861 | 2,907 | 2,950 | 3,011 | 3,146 | 3,269 | 3,260 | 3,303 |  |  |
| Private industries           | 1,224 | 1,299 | 1,348 | 1,407 | 1,397 | 1,446 | 1,478 | 1,558 | 1,622 | 1,655 | 1,711 |  |  |
| Construction                 | 135   | 155   | 171   | 192   | 183   | 186   | 213   | 228   | 214   | 194   | 194   |  |  |
| Distributive services        | 245   | 260   | 255   | 270   | 278   | 298   | 295   | 309   | 333   | 356   | 377   |  |  |
| Accommodations and amusement | 203   | 212   | 217   | 227   | 231   | 243   | 257   | 273   | 298   | 317   | 322   |  |  |
| Other private                | 641   | 671   | 704   | 718   | 706   | 719   | 713   | 748   | 779   | 788   | 819   |  |  |
| Government                   | 1,228 | 1,289 | 1,367 | 1,455 | 1,510 | 1,504 | 1,532 | 1,587 | 1,647 | 1,605 | 1,592 |  |  |
| Federal                      | 647   | 695   | 746   | 802   | 835   | 829   | 827   | 849   | 883   | 845   | 836   |  |  |
| Territorial                  | 582   | 594   | 621   | 653   | 676   | 675   | 706   | 738   | 764   | 760   | 755   |  |  |

### **U.S. Virgin Islands**

Real GDP increased 1.5 percent in 2018 (table D.1.3).

- The growth in the U.S. Virgin Islands economy reflected increases in government spending, private fixed investment, and consumer spending (table D.1.4).
- Private fixed investment increased significantly due to reconstruction and major repairs of homes and businesses that were destroyed or heavily damaged in 2017 by Hurricanes Irma and Maria.
- Territorial government spending increased significantly, reflecting spending on hurricane response and reconstruction activities that were supported by federal government grants.
- Consumer spending increased, reflecting growth in household purchases of goods, including motor vehicles and food.

New estimates of GDP by industry and compensation by industry for 2017 were also included in the 2018 GDP news releases for each territory. These estimates, along with GDP for 2018, 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."

|   | 2007   | 2008   | 2009   | 2010   | 2011   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018               |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------|
| Gross domestic product                                      | 4,803  | 4,250  | 4,203  | 4,339  | 4,239  | 4,095  | 3,762  | 3,622  | 3,748  | 3,873  | 3,893  | 3,984              |
| Personal consumption expenditures                           | 2,280  | 2,311  | 2,368  | 2,428  | 2,524  | 2,528  | 2,526  | 2,527  | 2,609  | 2,641  | 2,642  | 2,739              |
| Goods   | 1,319  | 1,262  | 1,215  | 1,205  | 1,233  | 1,206  | 1,200  | 1,207  | 1,213  | 1,216  | 1,117  | 1,211              |
| Durable goods   | 822    | 741    | 688    | 664    | 678    | 666    | 718    | 729    | 718    | 732    | 627    | 683                |
| Nondurable goods  | 497    | 520    | 527    | 541    | 556    | 540    | 481    | 479    | 495    | 484    | 490    | 528                |
| Foods, feeds, and beverages                                 | 258    | 264    | 277    | 288    | 305    | 322    | 319    | 323    | 332    | 321    | 326    | 358                |
| Other nondurable goods                                      | 239    | 257    | 250    | 253    | 251    | 219    | 162    | 155    | 163    | 163    | 165    | 170                |
| Services  | 2,075  | 2,184  | 2,156  | 2,233  | 2,323  | 2,402  | 2,444  | 2,482  | 2,597  | 2,643  | 2,575  | 2,417              |
| Housing and utilities                                       | 587    | 632    | 653    | 655    | 710    | 745    | 788    | 790    | 828    | 825    | 847    | 877                |
| Health care   | 189    | 216    | 231    | 243    | 268    | 288    | 294    | 290    | 312    | 325    | 307    | 263                |
| Food services and accommodations                            | 515    | 538    | 507    | 542    | 551    | 568    | 585    | 617    | 652    | 670    | 615    | 424                |
| Other services  | 784    | 797    | 764    | 792    | 793    | 801    | 777    | 785    | 804    | 824    | 806    | 853                |
| Net foreign travel  | -1,114 | -1,135 | -1,004 | -1,011 | -1,032 | -1,080 | -1,117 | -1,162 | -1,201 | -1,218 | -1,051 | -888               |
| Private fixed investment                                    | 529    | 476    | 393    | 380    | 363    | 263    | 274    | 286    | 288    | 289    | 311    | 483                |
| Change in private inventories                               | -540   | 180    | 210    | -267   | 104    | 114    | 149    | -6     | -172   | 574    | 810    | 962                |
| Net exports of goods and services                           | 1,532  | 240    | 123    | 580    | 100    | 163    | -231   | -234   | -11    | -680   | -1,074 | -1,903             |
| Exports   | 14,141 | 18,412 | 10,717 | 12,945 | 14,371 | 3,278  | 2,525  | 2,795  | 1,537  | 1,809  | 2,452  | 2,140              |
| Goods   | 13,002 | 17,255 | 9,696  | 11,922 | 13,329 | 2,186  | 1,395  | 1,623  | 329    | 582    | 1,392  | 1,242              |
| Services  | 1,139  | 1,157  | 1,021  | 1,023  | 1,043  | 1,091  | 1,130  | 1,172  | 1,208  | 1,227  | 1,060  | 898                |
| Imports   | 12,608 | 18,172 | 10,595 | 12,365 | 14,271 | 3,114  | 2,755  | 3,029  | 1,549  | 2,489  | 3,526  | 4,043              |
| Goods   | 12,251 | 17,861 | 10,310 | 12,067 | 13,943 | 2,932  | 2,570  | 2,841  | 1,367  | 2,291  | 3,267  | 3,707              |
| Services  | 357    | 311    | 285    | 298    | 329    | 182    | 185    | 188    | 182    | 198    | 259    | 336                |
| Government consumption expenditures<br>and gross investment | 1,002  | 1,043  | 1,110  | 1,219  | 1,148  | 1,027  | 1,044  | 1,049  | 1,036  | 1,048  | 1,205  | 1,703              |
| Federal   | 117    | 121    | 136    | 176    | 167    | 162    | 160    | 142    | 151    | 148    | 209    | 275                |
| Territorial   | 885    | 922    | 974    | 1,043  | 981    | 865    | 884    | 907    | 884    | 901    | 996    | 1,428 <sup>p</sup> |

## Table D.1.1. Gross Domestic Product, U.S. Virgin Islands [Millions of dollars]

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

1. (p) Fiscal year 2018 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.

|   | 2007   | 2008   | 2009   | 2010   | 2011   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018               |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------|
| Gross domestic product (GDP)                                | 4,460  | 4,502  | 4,203  | 4,241  | 3,895  | 3,310  | 3,117  | 3,090  | 3,098  | 3,133  | 3,114  | 3,161              |
| Personal consumption expenditures                           | 2,417  | 2,313  | 2,368  | 2,396  | 2,375  | 2,297  | 2,240  | 2,232  | 2,287  | 2,293  | 2,244  | 2,275              |
| Goods   | 1,430  | 1,269  | 1,215  | 1,183  | 1,138  | 1,080  | 1,074  | 1,096  | 1,119  | 1,109  | 1,000  | 1,076              |
| Durable goods   | 898    | 756    | 688    | 659    | 633    | 613    | 664    | 696    | 702    | 691    | 586    | 641                |
| Nondurable goods  | 534    | 514    | 527    | 524    | 504    | 467    | 414    | 405    | 421    | 423    | 415    | 437                |
| Foods, feeds, and beverages                                 | 277    | 267    | 277    | 287    | 293    | 291    | 279    | 275    | 270    | 264    | 260    | 285                |
| Other nondurable goods                                      | 257    | 247    | 250    | 237    | 213    | 180    | 139    | 135    | 158    | 166    | 162    | 158                |
| Services  | 2,184  | 2,195  | 2,156  | 2,205  | 2,220  | 2,224  | 2,197  | 2,212  | 2,273  | 2,292  | 2,179  | 2,001              |
| Housing and utilities                                       | 646    | 625    | 653    | 647    | 652    | 641    | 639    | 645    | 661    | 662    | 649    | 657                |
| Health care   | 200    | 222    | 231    | 240    | 262    | 279    | 282    | 277    | 297    | 307    | 288    | 244                |
| Food services and accommodations                            | 530    | 543    | 507    | 535    | 531    | 532    | 537    | 552    | 567    | 578    | 520    | 351                |
| Other services  | 808    | 805    | 764    | 783    | 775    | 774    | 739    | 737    | 747    | 746    | 720    | 743                |
| Net foreign travel  | -1,197 | -1,153 | -1,004 | -992   | -982   | -1,005 | -1,031 | -1,076 | -1,106 | -1,111 | -934   | -788               |
| Private fixed investment                                    | 540    | 475    | 393    | 379    | 356    | 253    | 261    | 269    | 270    | 270    | 287    | 435                |
| Change in private inventories                               | -435   | 111    | 210    | -207   | 59     | 62     | 82     | -4     | -175   | 677    | 772    | 753                |
| Net exports of goods and services                           | 920    | 498    | 123    | 511    | 67     | -2     | -114   | -20    | 60     | -469   | -597   | -989               |
| Exports   | 11,731 | 11,903 | 10,717 | 10,278 | 8,559  | 1,849  | 1,547  | 1,825  | 1,174  | 1,417  | 1,788  | 1,437              |
| Goods   | 10,538 | 10,738 | 9,696  | 9,277  | 7,617  | 1,170  | 861    | 1,116  | 329    | 647    | 1,363  | 1,056              |
| Services  | 1,222  | 1,173  | 1,021  | 1,004  | 992    | 1,015  | 1,042  | 1,085  | 1,113  | 1,118  | 943    | 797                |
| Imports   | 10,811 | 11,405 | 10,595 | 9,768  | 8,492  | 1,851  | 1,661  | 1,844  | 1,114  | 1,887  | 2,384  | 2,426              |
| Goods   | 10,469 | 11,106 | 10,310 | 9,482  | 8,226  | 1,728  | 1,539  | 1,723  | 994    | 1,763  | 2,228  | 2,232              |
| Services  | 361    | 297    | 285    | 288    | 273    | 151    | 151    | 149    | 145    | 159    | 201    | 247                |
| Government consumption expenditures<br>and gross investment | 1,048  | 1,057  | 1,110  | 1,168  | 1,098  | 998    | 983    | 956    | 935    | 929    | 1,045  | 1,430              |
| Federal   | 121    | 122    | 136    | 170    | 155    | 150    | 146    | 127    | 134    | 128    | 178    | 227                |
| Territorial   | 927    | 935    | 974    | 998    | 943    | 848    | 837    | 829    | 801    | 801    | 867    | 1,202 <sup>p</sup> |
| Addenda:  |        |        |        |        |        |        |        |        |        |        |        |                    |
| 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  | 104.2              |
| Per capita real GDP (chained dollars)                       | 38,884 | 38,844 | 39,171 | 39,859 | 36,780 | 31,404 | 29,601 | 29,401 | 29,533 | 29,924 | 29,799 | 30,336             |

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

[Millions of chained (2009) dollars]

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

2. (p) Fiscal year 2018 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.

|   | 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 |       |      |       |       |       |       |       |      |       |                   |  |  |  |
|---|--|-------|------|-------|-------|-------|-------|-------|------|-------|-------------------|--|--|--|
|   | 2008   | 2009  | 2010 | 2011  | 2012  | 2013  | 2014  | 2015  | 2016 | 2017  | 2018              |  |  |  |
| Gross domestic product                                      | 0.9  | -6.6  | 0.9  | -8.2  | -15.0 | -5.8  | -0.9  | 0.3   | 1.2  | -0.6  | 1.5               |  |  |  |
| Personal consumption expenditures                           | -4.3   | 2.4   | 1.2  | -0.9  | -3.3  | -2.5  | -0.3  | 2.5   | 0.2  | -2.1  | 1.4               |  |  |  |
| Goods   | -11.2  | -4.2  | -2.6 | -3.9  | -5.1  | -0.5  | 2.0   | 2.1   | -0.9 | -9.8  | 7.6               |  |  |  |
| Durable goods   | -15.7  | -9.0  | -4.3 | -3.9  | -3.1  | 8.3   | 4.8   | 0.9   | -1.7 | -15.2 | 9.4               |  |  |  |
| Nondurable goods  | -3.8   | 2.6   | -0.6 | -3.8  | -7.4  | -11.3 | -2.1  | 4.0   | 0.4  | -1.8  | 5.3               |  |  |  |
| Foods, feeds, and beverages                                 | -3.8   | 3.9   | 3.6  | 1.9   | -0.6  | -4.0  | -1.6  | -1.8  | -2.0 | -1.5  | 9.3               |  |  |  |
| Other nondurable goods                                      | -3.8   | 1.2   | -5.0 | -10.1 | -15.9 | -22.5 | -3.0  | 16.9  | 5.2  | -2.3  | -2.5              |  |  |  |
| Services  | 0.5  | -1.8  | 2.3  | 0.7   | 0.2   | -1.2  | 0.6   | 2.8   | 0.8  | -4.9  | -8.2              |  |  |  |
| Housing and utilities                                       | -3.3   | 4.5   | -1.0 | 0.8   | -1.7  | -0.2  | 0.9   | 2.5   | 0.0  | -1.9  | 1.2               |  |  |  |
| Health care   | 10.9   | 4.4   | 3.8  | 9.1   | 6.4   | 1.2   | -2.0  | 7.4   | 3.5  | -6.2  | -15.2             |  |  |  |
| Food services and accommodations                            | 2.4  | -6.5  | 5.5  | -0.8  | 0.2   | 0.8   | 2.8   | 2.8   | 1.9  | -10.0 | -32.6             |  |  |  |
| Other services  | -0.3   | -5.2  | 2.5  | -1.0  | -0.2  | -4.5  | -0.3  | 1.4   | -0.2 | -3.4  | 3.2               |  |  |  |
| Net foreign travel  |  |       |      |       |       |       |       |       |      |       |                   |  |  |  |
| Private fixed investment                                    | -12.1  | -17.4 | -3.5 | -6.1  | -28.8 | 3.1   | 3.0   | 0.1   | 0.2  | 6.3   | 51.4              |  |  |  |
| Change in private inventories                               |  |       |      |       |       |       |       |       |      |       |                   |  |  |  |
| Net exports of goods and services                           |  |       |      |       |       |       |       |       |      |       |                   |  |  |  |
| Exports   | 1.5  | -10.0 | -4.1 | -16.7 | -78.4 | -16.3 | 17.9  | -35.6 | 20.7 | 26.1  | -19.6             |  |  |  |
| Goods   | 1.9  | -9.7  | -4.3 | -17.9 | -84.6 | -26.5 | 29.6  | -70.6 | 96.9 | 110.7 | -22.5             |  |  |  |
| Services  | -4.0   | -13.0 | -1.6 | -1.3  | 2.4   | 2.7   | 4.1   | 2.6   | 0.5  | -15.7 | -15.5             |  |  |  |
| Imports   | 5.5  | -7.1  | -7.8 | -13.1 | -78.2 | -10.2 | 11.0  | -39.6 | 69.3 | 26.4  | 1.8               |  |  |  |
| Goods   | 6.1  | -7.2  | -8.0 | -13.2 | -79.0 | -10.9 | 11.9  | -42.3 | 77.4 | 26.4  | 0.2               |  |  |  |
| Services  | -17.6  | -4.0  | 0.9  | -5.2  | -44.8 | 0.4   | -1.2  | -2.8  | 9.7  | 26.2  | 22.7              |  |  |  |
| Government consumption expenditures<br>and gross investment | 0.8  | 5.1   | 5.1  | -5.9  | -9.1  | -1.5  | -2.8  | -2.2  | -0.6 | 12.5  | 36.8              |  |  |  |
| Federal   | 1.0  | 11.7  | 24.8 | -8.6  | -3.8  | -2.2  | -13.0 | 5.0   | -3.8 | 38.2  | 28.0              |  |  |  |
| Territorial   | 0.8  | 4.2   | 2.4  | -5.5  | -10.1 | -1.4  | -0.9  | -3.4  | -0.1 | 8.2   | 38.7 <sup>p</sup> |  |  |  |

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

1. (p) Fiscal year 2018 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.

|   |        |        | -      |        |         |        |       |        | -      |        |                    |
|---|--------|--------|--------|--------|---------|--------|-------|--------|--------|--------|--------------------|
|   | 2008   | 2009   | 2010   | 2011   | 2012    | 2013   | 2014  | 2015   | 2016   | 2017   | 2018               |
| Percent change:   |        |        |        |        |         |        |       |        |        |        |                    |
| Gross domestic product                                      | 0.9    | -6.6   | 0.9    | -8.2   | -15.0   | -5.8   | -0.9  | 0.3    | 1.2    | -0.6   | 1.5                |
| Percentage points:  |        |        |        |        |         |        |       |        |        |        |                    |
| Personal consumption expenditures                           | -2.28  | 1.26   | 0.68   | -0.48  | -1.80   | -1.58  | -0.23 | 1.72   | 0.16   | -1.46  | 0.94               |
| Goods   | -3.45  | -1.22  | -0.76  | -1.06  | -1.36   | -0.16  | 0.65  | 0.69   | -0.27  | -3.10  | 2.18               |
| Durable goods   | -3.01  | -1.53  | -0.69  | -0.59  | -0.46   | 1.36   | 0.92  | 0.17   | -0.32  | -2.87  | 1.51               |
| Nondurable goods  | -0.44  | 0.31   | -0.07  | -0.47  | -0.91   | -1.51  | -0.27 | 0.52   | 0.05   | -0.23  | 0.67               |
| Foods, feeds, and beverages                                 | -0.23  | 0.24   | 0.23   | 0.12   | -0.04   | -0.33  | -0.14 | -0.16  | -0.17  | -0.13  | 0.78               |
| Other nondurable goods                                      | -0.22  | 0.07   | -0.30  | -0.59  | -0.87   | -1.19  | -0.13 | 0.68   | 0.22   | -0.10  | -0.11              |
| Services  | 0.23   | -0.89  | 1.17   | 0.34   | 0.10    | -0.73  | 0.42  | 1.92   | 0.58   | -3.40  | -5.46              |
| Housing and utilities                                       | -0.46  | 0.64   | -0.15  | 0.13   | -0.27   | -0.05  | 0.20  | 0.54   | 0.01   | -0.40  | 0.27               |
| Health care   | 0.47   | 0.22   | 0.21   | 0.49   | 0.37    | 0.08   | -0.16 | 0.59   | 0.29   | -0.52  | -1.20              |
| Food services and accommodations                            | 0.28   | -0.80  | 0.66   | -0.10  | 0.03    | 0.12   | 0.44  | 0.49   | 0.32   | -1.74  | -5.19              |
| Other services  | -0.06  | -0.95  | 0.46   | -0.18  | -0.03   | -0.89  | -0.06 | 0.30   | -0.04  | -0.73  | 0.67               |
| Net foreign travel  | 0.94   | 3.37   | 0.27   | 0.24   | -0.54   | -0.69  | -1.30 | -0.89  | -0.14  | 5.04   | 4.22               |
| Private fixed investment                                    | -1.44  | -1.89  | -0.32  | -0.52  | -2.25   | 0.20   | 0.23  | 0.01   | 0.02   | 0.47   | 4.14               |
| Change in private inventories                               | 17.57  | 2.99   | -11.21 | 8.93   | 0.12    | 0.88   | -3.86 | -5.97  | 20.46  | 2.31   | -0.58              |
| Net exports of goods and services                           | -13.12 | -10.21 | 10.38  | -14.50 | -8.86   | -4.93  | 3.77  | 5.14   | -19.33 | -5.34  | -14.53             |
| Exports   | 5.39   | -34.53 | -11.66 | -55.71 | -246.37 | -12.73 | 11.88 | -24.71 | 8.36   | 12.50  | -12.88             |
| Goods   | 6.44   | -31.08 | -11.26 | -55.42 | -246.91 | -13.45 | 10.64 | -25.55 | 8.20   | 17.52  | -8.68              |
| Services  | -1.05  | -3.45  | -0.40  | -0.29  | 0.54    | 0.72   | 1.24  | 0.83   | 0.16   | -5.02  | -4.20              |
| Imports   | -18.51 | 24.31  | 22.04  | 41.21  | 237.51  | 7.80   | -8.11 | 29.85  | -27.69 | -17.84 | -1.65              |
| Goods   | -19.95 | 24.03  | 22.10  | 40.84  | 234.36  | 7.82   | -8.17 | 29.70  | -27.23 | -16.49 | -0.10              |
| Services  | 1.44   | 0.28   | -0.06  | 0.37   | 3.15    | -0.02  | 0.06  | 0.15   | -0.46  | -1.36  | -1.55              |
| Government consumption expenditures<br>and gross investment | 0.19   | 1.22   | 1.37   | -1.60  | -2.23   | -0.38  | -0.79 | -0.64  | -0.16  | 3.40   | 11.55              |
| Federal   | 0.03   | 0.33   | 0.81   | -0.34  | -0.14   | -0.09  | -0.57 | 0.20   | -0.15  | 1.47   | 1.52               |
| Territorial   | 0.17   | 0.89   | 0.56   | -1.26  | -2.09   | -0.30  | -0.22 | -0.84  | -0.01  | 1.93   | 10.03 <sup>p</sup> |

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

1. (p) Fiscal year 2018 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                    | 2018                    |
|-----------------------------------|-------|------|------|------|------|------|------|------|------|-------------------------|-------------------------|
| Gross domestic product            | -12.3 | 5.9  | 2.3  | 6.4  | 13.7 | -2.5 | -2.9 | 3.2  | 2.1  | 1.2                     | 0.8                     |
| Personal consumption expenditures | 5.9   | 0.1  | 1.3  | 4.9  | 3.6  | 2.5  | 0.4  | 0.8  | 1.0  | <b>2.2</b> <sup>p</sup> | <b>2.3</b> <sup>p</sup> |

1. (p) Complete information on the 2017 and 2018 U.S. Virgin Islands Consumer Price Index was not available in time for incorporation into the estimates of gross domestic product.

|                                      | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  |
|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Gross domestic product               | 4,803 | 4,250 | 4,203 | 4,339 | 4,239 | 4,095 | 3,762 | 3,622 | 3,748 | 3,873 | 3,893 |
| Private industries                   | 4,020 | 3,443 | 3,374 | 3,461 | 3,398 | 3,331 | 3,006 | 2,867 | 2,945 | 3,040 | 3,079 |
| Goods-producing industries           | 1,487 | 993   | 1,042 | 1,035 | 955   | 824   | 593   | 519   | 513   | 509   | 583   |
| Services-producing industries        | 2,533 | 2,450 | 2,332 | 2,426 | 2,443 | 2,507 | 2,413 | 2,348 | 2,432 | 2,531 | 2,496 |
| Wholesale and retail trade           | 449   | 435   | 408   | 413   | 422   | 411   | 402   | 393   | 386   | 381   | 352   |
| Accommodation and food services      | 405   | 424   | 400   | 428   | 436   | 450   | 463   | 489   | 517   | 531   | 487   |
| Other services, except<br>government | 1,678 | 1,591 | 1,524 | 1,585 | 1,585 | 1,646 | 1,547 | 1,466 | 1,529 | 1,619 | 1,656 |
| Government                           | 783   | 807   | 829   | 878   | 841   | 764   | 757   | 755   | 804   | 833   | 814   |
| Federal                              | 120   | 125   | 130   | 141   | 139   | 139   | 140   | 136   | 145   | 143   | 142   |
| Territorial                          | 663   | 682   | 699   | 738   | 702   | 626   | 617   | 619   | 658   | 689   | 672   |

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

[Millions of dollars]

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

[Millions of chained (2009) dollars]

|                                      | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  |
|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Gross domestic product               | 4,460 | 4,502 | 4,203 | 4,241 | 3,895 | 3,310 | 3,117 | 3,090 | 3,098 | 3,133 | 3,114 |
| Private industries                   | 3,634 | 3,661 | 3,374 | 3,408 | 3,086 | 2,568 | 2,410 | 2,408 | 2,394 | 2,421 | 2,427 |
| Goods-producing industries           | 1,012 | 1,138 | 1,042 | 1,019 | 774   | 463   | 335   | 284   | 272   | 268   | 300   |
| Services-producing industries        | 2,646 | 2,523 | 2,332 | 2,389 | 2,324 | 2,233 | 2,255 | 2,341 | 2,347 | 2,386 | 2,335 |
| Wholesale and retail trade           | 464   | 442   | 408   | 408   | 410   | 388   | 377   | 365   | 352   | 349   | 325   |
| Accommodation and food services      | 433   | 452   | 400   | 429   | 437   | 434   | 434   | 446   | 449   | 453   | 406   |
| Other services, except<br>government | 1,747 | 1,629 | 1,524 | 1,552 | 1,479 | 1,414 | 1,446 | 1,534 | 1,551 | 1,591 | 1,617 |
| Government                           | 833   | 841   | 829   | 833   | 808   | 755   | 719   | 690   | 713   | 722   | 695   |
| Federal                              | 127   | 129   | 130   | 135   | 131   | 130   | 130   | 123   | 127   | 124   | 121   |
| Territorial                          | 707   | 712   | 699   | 697   | 677   | 624   | 589   | 567   | 585   | 598   | 574   |

### 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 | 2017  |
|-----------------------------------|------|-------|------|-------|-------|-------|-------|------|------|-------|
| Gross domestic product            | 0.9  | -6.6  | 0.9  | -8.2  | -15.0 | -5.8  | -0.9  | 0.3  | 1.2  | -0.6  |
| Private industries                | 0.8  | -7.9  | 1.0  | -9.5  | -16.8 | -6.2  | -0.1  | -0.5 | 1.1  | 0.3   |
| Goods-producing industries        | 12.5 | -8.5  | -2.1 | -24.1 | -40.2 | -27.5 | -15.4 | -4.2 | -1.5 | 12.1  |
| Services-producing industries     | -4.6 | -7.6  | 2.4  | -2.7  | -3.9  | 1.0   | 3.8   | 0.3  | 1.7  | -2.1  |
| Wholesale and retail trade        | -4.7 | -7.9  | 0.2  | 0.3   | -5.3  | -2.9  | -3.2  | -3.5 | -0.8 | -6.8  |
| Accommodation and food services   | 4.4  | -11.5 | 7.1  | 2.0   | -0.8  | 0.0   | 2.8   | 0.8  | 0.8  | -10.3 |
| Other services, except government | -6.8 | -6.4  | 1.8  | -4.7  | -4.4  | 2.3   | 6.1   | 1.1  | 2.6  | 1.7   |
| Government                        | 0.9  | -1.4  | 0.4  | -3.0  | -6.5  | -4.7  | -4.1  | 3.3  | 1.3  | -3.8  |
| Federal                           | 1.8  | 0.9   | 4.2  | -3.3  | -0.5  | -0.3  | -5.5  | 3.6  | -2.5 | -2.8  |
| Territorial                       | 0.7  | -1.8  | -0.3 | -2.9  | -7.7  | -5.7  | -3.8  | 3.3  | 2.1  | -4.0  |

## 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  | 2017  |
|-----------------------------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| Percent change:                   |       |       |       |       |        |       |       |       |       |       |
| Gross domestic product            | 0.9   | -6.6  | 0.9   | -8.2  | -15.0  | -5.8  | -0.9  | 0.3   | 1.2   | -0.6  |
| Percentage points:                |       |       |       |       |        |       |       |       |       |       |
| Private industries                | 0.65  | -6.38 | 0.82  | -7.63 | -13.88 | -4.97 | -0.09 | -0.43 | 0.88  | 0.20  |
| Goods-producing industries        | 3.27  | -2.08 | -0.53 | -6.13 | -11.76 | -5.55 | -2.51 | -0.60 | -0.20 | 1.59  |
| Services-producing industries     | -2.62 | -4.29 | 1.35  | -1.50 | -2.12  | 0.58  | 2.42  | 0.17  | 1.08  | -1.40 |
| Wholesale and retail trade        | -0.47 | -0.79 | 0.02  | 0.03  | -0.49  | -0.30 | -0.34 | -0.38 | -0.09 | -0.66 |
| Accommodation and food services   | 0.39  | -1.15 | 0.66  | 0.19  | -0.07  | -0.01 | 0.36  | 0.10  | 0.11  | -1.42 |
| Other services, except government | -2.54 | -2.36 | 0.66  | -1.71 | -1.56  | 0.88  | 2.41  | 0.44  | 1.05  | 0.69  |
| Government                        | 0.16  | -0.26 | 0.08  | -0.58 | -1.16  | -0.91 | -0.85 | 0.70  | 0.27  | -0.82 |
| Federal                           | 0.05  | 0.02  | 0.13  | -0.10 | -0.02  | -0.01 | -0.21 | 0.13  | -0.10 | -0.10 |
| Territorial                       | 0.11  | -0.28 | -0.05 | -0.48 | -1.15  | -0.90 | -0.64 | 0.56  | 0.37  | -0.72 |

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

|                                      | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  |
|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Total compensation                   | 2,139 | 2,185 | 2,114 | 2,245 | 2,198 | 2,042 | 1,880 | 1,881 | 1,920 | 1,969 | 1,985 |
| Private industries                   | 1,399 | 1,411 | 1,318 | 1,393 | 1,386 | 1,319 | 1,157 | 1,150 | 1,151 | 1,182 | 1,197 |
| Goods-producing industries           | 369   | 340   | 309   | 317   | 302   | 275   | 110   | 102   | 109   | 108   | 166   |
| Services-producing industries        | 1,030 | 1,070 | 1,008 | 1,076 | 1,084 | 1,045 | 1,047 | 1,048 | 1,042 | 1,074 | 1,030 |
| Wholesale and retail trade           | 201   | 205   | 197   | 198   | 209   | 209   | 236   | 222   | 212   | 206   | 196   |
| Accommodation and food services      | 208   | 217   | 191   | 204   | 208   | 212   | 214   | 221   | 243   | 247   | 233   |
| Other services, except<br>government | 621   | 649   | 620   | 674   | 668   | 624   | 597   | 604   | 588   | 622   | 601   |
| Government                           | 741   | 774   | 797   | 852   | 812   | 722   | 724   | 731   | 769   | 787   | 788   |
| Federal                              | 118   | 123   | 129   | 140   | 138   | 137   | 137   | 133   | 142   | 139   | 137   |
| Territorial                          | 622   | 651   | 668   | 712   | 674   | 585   | 586   | 598   | 627   | 648   | 651   |

## Table D.2.5. Compensation of Employees by Industry, U.S. Virgin Islands [Millions of dollars]

### **Future Directions**

This project represents an important step toward achieving a long-term goal of BEA and OIA—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.

BEA will conduct a comprehensive update of GDP for American Samoa, the CNMI, Guam, and the U.S. Virgin Islands this year. Estimates of GDP will be revised to reflect methodological improvements and the availability of more complete data over time, in some cases dating back to 2002. Information from the Census Bureau 2017 Economic Census of Island Areas (ECIA), the most comprehensive industry data available for the U.S. territories, will be incorporated at this time.<sup>6</sup> BEA currently plans to release these estimates, in addition to new GDP estimates for 2019, beginning in the fall of 2020. GDP by industry and compensation by industry estimates for 2018 will also be released.

### **Appendix: Summary of Methodologies**

The methodologies used to estimate GDP and GDP by industry for American Samoa, the 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 ECIA 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>7</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>8</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>9</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>10</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>11</sup> The primary data sources for the federal government estimates were the Census Bureau *Consolidated Federal Funds Report* and the Federal Procurement Data System.<sup>12</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>13</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 (BLS).

### **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 ECIA. 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" above.

**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>14</sup> In 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 BLS Quarterly Census of Employment and Wages was used.

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#### BEA initiative to estimate Puerto Rico GDP is underway

In October 2019, BEA released prototype economic statistics for the Commonwealth of Puerto Rico. These statistics covered three major components of GDP: consumer spending, business investment, and trade in goods for 2012–2017. This data release was the first milestone in a BEA project to estimate Puerto Rico GDP.

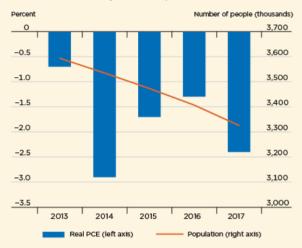
This release, which is available on the BEA website, was the first BEA has produced in both English and Spanish.

BEA consumer spending estimates are broadly consistent with the existing understanding of the economic situation in Puerto Rico. As shown in chart I, real consumer spending decreased over the 2012–2017 period, in line with trends in population.

BEA also released information that had never been published before for Puerto Rico:

- Inflation-adjusted trade in goods
- Business investment in intellectual property products

#### Chart I. Puerto Rico: Real Personal Consumption Expenditures (PCE) and Population, 2013-2017



Sources. U.S. Bureau of Economic Analysis; U.S. Census Bureau, Population Division

#### **Methods**

The October 2019 release and the ongoing work to estimate Puerto Rico GDP uses currently available source data. These sources are described in the summary of methodologies available on the BEA website. Puerto Rico, like the other U.S. territories, is included in only a limited number of the many economic surveys that are the source for BEA national estimates of GDP.

BEA continues to work in close collaboration with the government of Puerto Rico to identify source data and factors that are unique to the Puerto Rico economy. For example, following the October 2019 release, the Puerto Rico Department of Economic Development and Commerce hosted a meeting of experts in San Juan, PR, to discuss possible data sources for the remaining components of Puerto Rico GDP.

BEA's methodology is consistent with international guidelines and with technical advice provided to the government of Puerto Rico in 2011. This ensures comparability of Puerto Rico statistics with similar economic measures for the nation and other U.S. territories. Specifically, the BEA methodology:

- Uses modern techniques to calculate aggregate output
- Treats expenditures on intellectual property products as investment
- Establishes benchmarks for consumer spending and business investment using data from the Census Bureau Economic Census of Island Areas
- Produces estimates on a calendar-year basis

#### Why now?

Puerto Rico's relationship structure with the U.S. federal government is different than that of the other island areas, and Puerto Rico is not covered by the OIA-funded project that enabled BEA to develop the other territorial economic accounts.<sup>1</sup> Nonetheless, BEA has for many years provided technical assistance and undertaken joint projects with the Commonwealth government to advance Puerto Rico's efforts to modernize its economic statistics.

The 2015 Puerto Rico debt crisis and the 2017 Hurricanes Irma and Maria caused widespread hardship and then physical devastation on the island. The emphasis on economic recovery led to an increased focus on the need for modern Puerto Rico GDP statistics to assist recovery efforts. BEA received funding to begin this work in late 2018 and, more recently, was provided funds to continue this work in the Bureau's appropriation for fiscal year 2020.

#### Next steps

BEA has begun assembling data and developing the methodologies to estimate exports and imports of services, inventory investment, and government spending.

BEA anticipates publishing prototype Puerto Rico GDP statistics for 2012–2018 later this year. BEA will also research the feasibility of enhancements to the Puerto Rico GDP data products and estimation of related measures, such as gross national product.

1. The Bureau of Economic Analysis began publishing gross domestic product statistics for the U.S. territories of American Samoa, the Commonwealth of the Mariana Islands, Guam, and the U.S. Virgin Islands in 2010.

- 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 2019. 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" 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. The 2017 ECIA data for the above four territories were released on January 28, 2020.
- 7. A small portion of personal consumption expenditures consists of expenses of nonprofit institutions serving households.
- 8. Data on imports of goods for Guam were limited, particularly after 2015.
- 9. It was assumed that most goods purchased by consumers were imported.
- 10. For American Samoa and the U.S. Virgin Islands, private investment also includes inventory investment.
- 11. Fiscal year 2018 audited financial statements for the U.S. Virgin Islands central government and various independent agencies were not available in time for incorporation into these estimates. Estimates of 2018 spending reflected information collected from budget documents and reports on federal grant expenditures.
- 12. The *Consolidated Federal Funds Report* was discontinued in 2012 following the publication of the fiscal year 2010 report.
- 13. 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.
- 14. 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.



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