

GUAM CONSUMER PRICE INDEX

Cost of Living Section

1st Quarter 2025
VOL. MMXXV, No. 1



Bureau of Statistics and Plans
Business and Economic Statistics Program
Government of Guam

LOLA E. LEON GUERRERO
DIRECTOR

MATTHEW C. SANTOS
DEPUTY DIRECTOR

DEFINITION OF THE CONSUMER PRICE INDEX

The CONSUMER PRICE INDEX (CPI) is a measure of the average change in prices over time of goods and services purchased by households, both families and single person living alone. The Guam 2008 CPI is based on the concept of a representative "market basket", a sample of all goods and services that consumers purchase, as determined by the 2005 Household Income and Expenditure Survey (HIES) funded by the U.S. Dept. of Interior to the U.S. Census Bureau, and a similar in design with the U.S. CPI.

The CPI is measured from a total of 168 items from 8 major groups, and indices are computed at two different levels of aggregation. More than 1,060 price quotations are collected during the middle month of each quarter either by phone or on-site survey by qualified price enumerators. There are approximately 200 business outlets included in the construction of the CPI, ranging from grocery, department and hardware stores to a variety of service establishments. This report provides average price changes for all items, groups, subgroups and special indexes from consecutive quarters to one year earlier. An annual average and annualized inflation rate are also reported. Indexes are subject to revision.

HOW TO INTERPRET INDEX CHANGES

A price change can be expressed as a percentage change between two periods, as a difference in index points between a given period and a base period assigned an index of 100.0. Thus, an index of 110.7 for a given period means the price level has increase by 10.7% from the base period of 100.0. It does not mean a 10.7% change from the immediately preceding period as shown in example 1:

Example I:

| | | | |
|---------|---------------------------|-----------------------|----------|
| Period: | 1st Qtr. (base period) | 2nd Qtr. | 3rd Qtr. |
| Index: | 100.0 | 108.4 | 110.7 |
| | -----8.4% change----- | -----2.1% change----- | |
| | -----10.7% change----- | | |

Any period, such as the 2nd Quarter in the next example, can be converted to a base period by dividing all indices individually by the periods' index, then multiplying the results by 100.

Example II:

| | | | |
|---------|---------------------------|---------------------------|----------|
| Period: | 1st Qtr. (base period) | 2nd Qtr. | 3rd Qtr. |
| Index: | 100.0 | 108.4 | 110.7 |
| Period: | | 2nd Qtr. (base period) | 3rd Qtr. |
| Index: | | 100.0 | 102.1 |
| | | -----2% change----- | |

In example II, we dealt with a change in price index from a given quarter to the quarter immediately succeeding it – a 2.1% change from the second to the third quarter. However, many economic statistics, such as personal income, government revenues, and expenditure, are reported on an annual basis. The equivalent annual rate is used to determine what the index would be if a price change during a three-month period continues at the same rate for four quarters, a twelve-month period. The annual rate is often used to achieve uniformity in statistical expression.

Thus, a quarterly change of 1.0% is equivalent to an annual rate of 4.1%. If prices were to increase 1.0% each quarter for four quarters, the annual increase would be 4.1%. Derivation of this figure is shown in the Example III.

Example III:

$$P_n = P_o(1+i)^n \quad \text{where}$$

| | | |
|-------|---|------------------------|
| P_n | = | equivalent annual rate |
| P_o | = | base index (100.0) |
| i | = | current rate (1.0%) |
| n | = | number of periods (4) |

Thus, $104.1 = 100.0 (1 + .01)^4$

Please see www.bsp.quam.gov, for historical CPI data, and other state data resources.

GUAM CONSUMER PRICE INDEX

| GROUP | *GROUP WEIGHTS | NO. OF ITEMS ALLOCATED |
|--------------------------|----------------|------------------------|
| Food | 15.60 | 69 |
| Housing | 32.11 | 42 |
| Apparel & Upkeep | 7.61 | 23 |
| Transportation | 8.60 | 4 |
| Medical Care | 20.42 | 5 |
| Recreation | 2.97 | 5 |
| Education & Communicatic | 2.77 | 6 |
| Other Goods & Services | <u>9.92</u> | <u>14</u> |
| | 100.0 | 168 |

* Based on the 2005 Household Income and Expenditure Survey (HIES) results.

2. Base period: 4th Quarter 2007 = 100.0

3. Formula:

The index is computed by using base-weighted arithmetic average of prices. The formula used is either in the weighted aggregated form,

$$I_{oi} = \frac{\sum p_i q_o}{\sum p_o q_o} \times 100$$

or its equivalent, the weighted average of price relatives

$$I_{oi} = \frac{\sum p_o q_o \left(\frac{P_i}{P_o} \right)}{\sum p_o q_o} \times 100$$

where p_i = the price of the commodity in the reporting period.
 p_o = the price of the commodity in the base period, and
 q_o = the quantity of commodity sold in the base period.

4. Weights:

Based on the 2005 Household Income and Expenditure Survey (HIES)

TABLE A
CONSUMER PRICE INDEX
(1st Qtr. 2007 = 100.00)

| GROUP | CY 2024 QUARTERS | | | | CY 2025 QUARTERS | | | |
|-----------------------------------|---------------------|-------|-------|-------|---------------------|-----|-----|-----|
| | 1st | 2nd | 3rd | 4th | 1st | 2nd | 3rd | 4th |
| ALL ITEMS | 164.1 | 171.1 | 171.4 | 172.1 | 173.7 | | | |
| FOOD | 188.9 | 188.8 | 189.5 | 190.6 | 191.2 | | | |
| HOUSING | 143.9 | 146.1 | 146.1 | 147.6 | 147.9 | | | |
| APPAREL & UPKEEP | 92.4 | 91.9 | 90.2 | 91.4 | 91.6 | | | |
| TRANSPORTATION | 129.0 | 130.9 | 132.5 | 132.5 | 134.6 | | | |
| MEDICAL CARE | 236.6 | 267.9 | 267.9 | 267.9 | 273.8 | | | |
| RECREATION | 143.2 | 143.4 | 145.7 | 145.7 | 145.4 | | | |
| EDUCATION & COMMUNICATION | 122.8 | 123.2 | 123.3 | 124.2 | 124.5 | | | |
| OTHER GOODS & SERVICES | 145.1 | 142.2 | 142.3 | 142.3 | 142.7 | | | |
| SPECIAL INDEXES | | | | | | | | |
| ALL ITEMS LESS FOOD | 159.6 | 167.8 | 168.1 | 168.6 | 170.5 | | | |
| ENERGY ¹ | 142.6 | 145.1 | 145.6 | 147.7 | 148.2 | | | |
| ALL ITEMS LESS FOOD AND ENERGY | 166.3 | 176.9 | 177.0 | 177.0 | 179.3 | | | |
| COMMODITIES LESS FOOD | 123.0 | 123.5 | 123.9 | 123.8 | 124.5 | | | |
| SERVICES | 188.9 | 203.4 | 203.5 | 204.6 | 207.2 | | | |
| ALL ITEMS LESS HOSPITAL REL'D SVS | 152.9 | 153.4 | 154.0 | 154.7 | 155.1 | | | |
| Purchase Power of Consumer | | | | | | | | |
| Dollar (3rd Qtr. 1996 = 100.00) | .41 | .40 | .40 | .40 | .39 | | | |
| Dollar (4th Qtr. 2007 = 100.00) | .61 | .58 | .58 | .58 | .58 | | | |

SOURCE: Cost of Living Section, Business and Economic Statistics Program, Bureau of Statistics and Plans,
Government of Guam

TABLE B
CONSUMER PRICE INDEX
(1st Qtr. 2007 = 100.00)

| GROUP | Relative Importance | Index for 1st. Qtr. CY 2024 | Index for 4th. Qtr. CY 2024 | Index for 1st. Qtr. CY 2025 | % Change to 1st. Qtr. 2025 from | |
|------------------------------------|---------------------|-----------------------------|-----------------------------|-----------------------------|---------------------------------|------------------|
| | | | | | Previous Quarter | One Year Earlier |
| All Items | 100.00 | 164.1 | 172.1 | 173.7 | 1.0% | 5.8% |
| All Items Less Food | 84.41 | 159.6 | 168.6 | 170.5 | 1.1% | 6.8% |
| Energy ¹ | 24.09 | 142.6 | 147.7 | 148.2 | 0.4% | 3.9% |
| All Items Less Food and Energy | 60.32 | 166.3 | 177.0 | 179.3 | 1.3% | 7.8% |
| Commodities Less Food | 37.54 | 123.0 | 123.8 | 124.5 | 0.6% | 1.3% |
| Services | 46.86 | 188.9 | 204.6 | 207.2 | 1.3% | 9.7% |
| All Items Less Hospital Rel'd Svs* | 90.62 | 152.9 | 154.7 | 155.1 | 0.3% | 1.5% |

| GROUP | Relative Importance | Index for 1st. Qtr. CY 2024 | Index for 4th. Qtr. CY 2024 | Index for 1st. Qtr. CY 2025 | % Change to 1st. Qtr. 2025 from | |
|--------------------------------|---------------------|-----------------------------|-----------------------------|-----------------------------|---------------------------------|------------------|
| | | | | | Previous Quarter | One Year Earlier |
| Food | 189.13 | 188.9 | 190.6 | 191.2 | 0.3% | 1.2% |
| Cereals and Cereal Products | 210.07 | 205.8 | 192.8 | 192.8 | 0.0% | -6.3% |
| Bakery Products | 185.77 | 187.8 | 192.2 | 192.2 | 0.0% | 2.4% |
| Beef | 213.69 | 216.5 | 232.2 | 236.9 | 2.0% | 9.4% |
| Pork | 149.46 | 151.4 | 157.9 | 158.1 | 0.1% | 4.4% |
| Other Meats | 253.00 | 253.4 | 255.2 | 255.2 | 0.0% | 0.7% |
| Poultry | 168.43 | 170.8 | 167.0 | 167.4 | 0.3% | -2.0% |
| Fish and Seafood | 205.15 | 210.9 | 181.6 | 183.5 | 1.1% | -13.0% |
| Eggs | 238.88 | 236.0 | 301.6 | 285.3 | -5.4% | 20.9% |
| Dairy Products | 174.97 | 174.6 | 161.2 | 161.9 | 0.4% | -7.3% |
| Fresh Fruits | 162.93 | 163.7 | 179.0 | 179.1 | 0.0% | 9.4% |
| Fresh Vegetables | 161.23 | 158.7 | 165.3 | 165.3 | 0.0% | 4.2% |
| Juice and Non-Alcoholic Drinks | 176.13 | 174.8 | 173.4 | 173.4 | 0.0% | -0.8% |
| Sugar and Sweets | 201.26 | 200.7 | 217.9 | 217.9 | 0.0% | 8.6% |
| Fats and Oils | 278.73 | 283.5 | 298.2 | 298.2 | 0.0% | 5.2% |
| Other Foods | 198.37 | 196.5 | 206.0 | 206.3 | 0.1% | 5.0% |
| Meals Away from Home | 182.42 | 182.4 | 188.6 | 191.4 | 1.5% | 4.9% |
| Alcoholic Beverages | 155.78 | 155.7 | 163.7 | 163.7 | 0.0% | 5.1% |

FOOTNOTE: "1" Index items selected by the Guam Energy Office

SOURCE: Cost of Living Section, Business and Economic Statistics Program, Bureau of Statistics and Plans, Government of Guam

TABLE B
(continued)

| GROUP | Relative Importance | Index for 1st. Qtr. | Index for 4th. Qtr. | Index for 1st. Qtr. | % Change to 1st. Qtr. 2025 from | |
|-----------------------|---------------------|---------------------|---------------------|---------------------|---------------------------------|--------------|
| | | CY | CY | CY | Previous | One Year |
| | | 2024 | 2024 | 2025 | Quarter | Year Earlier |
| | | | | | | |
| TRANSPORTATION | 8.6 | 129.0 | 132.5 | 134.6 | 1.6% | 4.4% |
| New Cars | 5.2 | 126.1 | 130.4 | 133.8 | 2.6% | 6.1% |
| Motor Fuel | 1.4 | 139.1 | 142.8 | 139.1 | -2.6% | 0.0% |
| Car Maintenance | 1.0 | 143.3 | 146.2 | 146.2 | 0.0% | 2.0% |
| Car Insurance | 1.0 | 115.9 | 114.8 | 121.3 | 5.7% | 4.7% |

| GROUP | Relative Importance | Index for 1st. Qtr. | Index for 4th. Qtr. | Index for 1st. Qtr. | % Change to 1st. Qtr. 2025 from | |
|----------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------------------|--------------|
| | | CY | CY | CY | Previous | One Year |
| | | 2024 | 2024 | 2025 | Quarter | Year Earlier |
| | | | | | | |
| MEDICAL CARE | 20.42 | 236.6 | 267.9 | 273.8 | 2.2% | 15.7% |
| Prescription Drugs | 0.67 | 183.5 | 197.9 | 197.9 | 0.0% | 7.9% |
| Physician Services | 2.07 | 214.3 | 214.3 | 214.3 | 0.0% | 0.0% |
| Other Medical Practitioner Costs | 0.47 | 156.8 | 156.8 | 156.8 | 0.0% | 0.0% |
| Hospital and Related Services | 17.22 | 243.5 | 280.1 | 287.0 | 2.5% | 17.9% |

| GROUP | Relative Importance | Index for 1st. Qtr. | Index for 4th. Qtr. | Index for 1st. Qtr. | % Change to 1st. Qtr. 2025 from | |
|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------------------|--------------|
| | | CY | CY | CY | Previous | One Year |
| | | 2024 | 2024 | 2025 | Quarter | Year Earlier |
| | | | | | | |
| RECREATION | 2.97 | 143.2 | 145.7 | 145.4 | -0.2% | 1.5% |
| Audio and Video | 2.63 | 139.5 | 141.8 | 141.2 | -0.4% | 1.3% |
| Pet and Pet Products | 0.19 | 210.8 | 216.2 | 219.5 | 1.5% | 4.1% |
| Sporting Goods | 0.14 | 121.0 | 121.0 | 121.0 | 0.0% | 0.0% |

SOURCE: Cost of Living Section, Business and Economic Statistics Program, Bureau of Statistics and Plans, Government of Guam

TABLE B
(continued)

| GROUP | Relative Importance | Index for 1st. Qtr. | Index for 4th. Qtr. | Index for 1st. Qtr. | % Change to 1st. Qtr. 2025 from | |
|-----------------------|---------------------|---------------------|---------------------|---------------------|---------------------------------|----------|
| | | CY | CY | CY | Previous | One Year |
| | | 2024 | 2024 | 2025 | Quarter | Earlier |
| TRANSPORTATION | 8.6 | 129.0 | 132.5 | 132.5 | 0.0% | 2.7% |
| New Cars | 5.2 | 126.1 | 130.4 | 133.8 | 2.6% | 6.1% |
| Motor Fuel | 1.4 | 139.1 | 142.8 | 139.1 | -2.6% | 0.0% |
| Car Maintenance | 1.0 | 143.3 | 146.2 | 146.2 | 0.0% | 2.0% |
| Car Insurance | 1.0 | 115.9 | 114.8 | 117.8 | 2.6% | 1.6% |

| GROUP | Relative Importance | Index for 1st. Qtr. | Index for 4th. Qtr. | Index for 1st. Qtr. | % Change to 1st. Qtr. 2025 from | |
|----------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------------------|----------|
| | | CY | CY | CY | Previous | One Year |
| | | 2024 | 2024 | 2025 | Quarter | Earlier |
| MEDICAL CARE | 20.42 | 236.6 | 267.9 | 267.9 | 0.0% | 13.2% |
| Prescription Drugs | 0.67 | 183.5 | 197.9 | 197.9 | 0.0% | 7.9% |
| Physician Services | 2.07 | 214.3 | 214.3 | 214.3 | 0.0% | 0.0% |
| Other Medical Practitioner Costs | 0.47 | 156.8 | 156.8 | 156.8 | 0.0% | 0.0% |
| Hospital and Related Services | 17.22 | 243.5 | 280.1 | 280.1 | 0.0% | 15.0% |

| GROUP | Relative Importance | Index for 1st. Qtr. | Index for 4th. Qtr. | Index for 1st. Qtr. | % Change to 1st. Qtr. 2025 from | |
|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------------------|----------|
| | | CY | CY | CY | Previous | One Year |
| | | 2024 | 2024 | 2025 | Quarter | Earlier |
| RECREATION | 2.97 | 143.2 | 145.7 | 145.7 | 0.0% | 1.7% |
| Audio and Video | 2.63 | 139.5 | 141.8 | 141.2 | -0.4% | 1.3% |
| Pet and Pet Products | 0.19 | 210.8 | 216.2 | 219.5 | 1.5% | 4.1% |
| Sporting Goods | 0.14 | 121.0 | 121.0 | 121.0 | 0.0% | 0.0% |

SOURCE: Cost of Living Section, Business and Economic Statistics Program, Bureau of Statistics and Plans, Government of Guam

TABLE B
(continued)

| GROUP | Relative Importance | Index for 1st. Qtr. CY 2024 | Index for 4th. Qtr. CY 2024 | Index for 1st. Qtr. CY 2025 | % Change to 1st. Qtr. 2025 from | |
|---------------------------------|---------------------|-----------------------------|-----------------------------|-----------------------------|---------------------------------|------------------|
| | | | | | Previous Quarter | One Year Earlier |
| HOUSING | 32.11 | 143.9 | 147.6 | 147.9 | 0.2% | 2.8% |
| Rent and Lodging | 5.13 | 133.2 | 133.9 | 133.9 | 0.0% | 0.5% |
| Home Fuel | 3.22 | 143.2 | 144.1 | 144.1 | 0.0% | 0.6% |
| Electricity | 8.09 | 167.8 | 167.8 | 167.8 | 0.0% | 0.0% |
| Water, Sewer and Trash | 3.37 | 167.6 | 181.9 | 182.2 | 0.1% | 8.7% |
| Floor Coverings | 0.17 | 145.6 | 146.0 | 150.2 | 2.9% | 3.2% |
| Furniture and Bedding | 0.75 | 60.7 | 60.3 | 62.2 | 3.2% | 2.5% |
| Appliances | 0.93 | 76.2 | 75.6 | 75.8 | 0.2% | -0.6% |
| Tools, Hardware, Outdoor Equip. | 0.91 | 138.1 | 133.8 | 133.9 | 0.0% | -3.1% |
| Housekeeping Supplies | 7.95 | 141.3 | 144.5 | 145.4 | 0.6% | 2.9% |
| Housekeeping Operations | 1.58 | 128.8 | 130.7 | 130.7 | 0.0% | 1.5% |
| | | | | | | |
| GROUP | Relative Importance | Index for 1st. Qtr. CY 2024 | Index for 4th. Qtr. CY 2024 | Index for 1st. Qtr. CY 2025 | % Change to 1st. Qtr. 2025 from | |
| | | | | | Previous Quarter | One Year Earlier |
| APPAREL & UPKEEP | 7.61 | 90.2 | 91.4 | 91.6 | 0.2% | 1.5% |
| Men's Apparel | 2.09 | 94.7 | 98.1 | 98.1 | 0.0% | 3.6% |
| Boy's Apparel | 0.54 | 108.1 | 108.1 | 108.1 | 0.0% | 0.0% |
| Women's Apparel | 2.03 | 112.6 | 112.0 | 112.0 | 0.0% | -0.5% |
| Girl's Apparel | 0.33 | 73.6 | 70.5 | 70.5 | 0.0% | -4.2% |
| Footwear | 1.37 | 38.5 | 38.5 | 38.5 | 0.0% | -0.1% |
| Infant's & Toddler's Apparel | 0.38 | 142.6 | 133.8 | 137.1 | 2.5% | -3.8% |
| Jewelry | 0.87 | 89.7 | 89.7 | 89.7 | 0.0% | 0.0% |

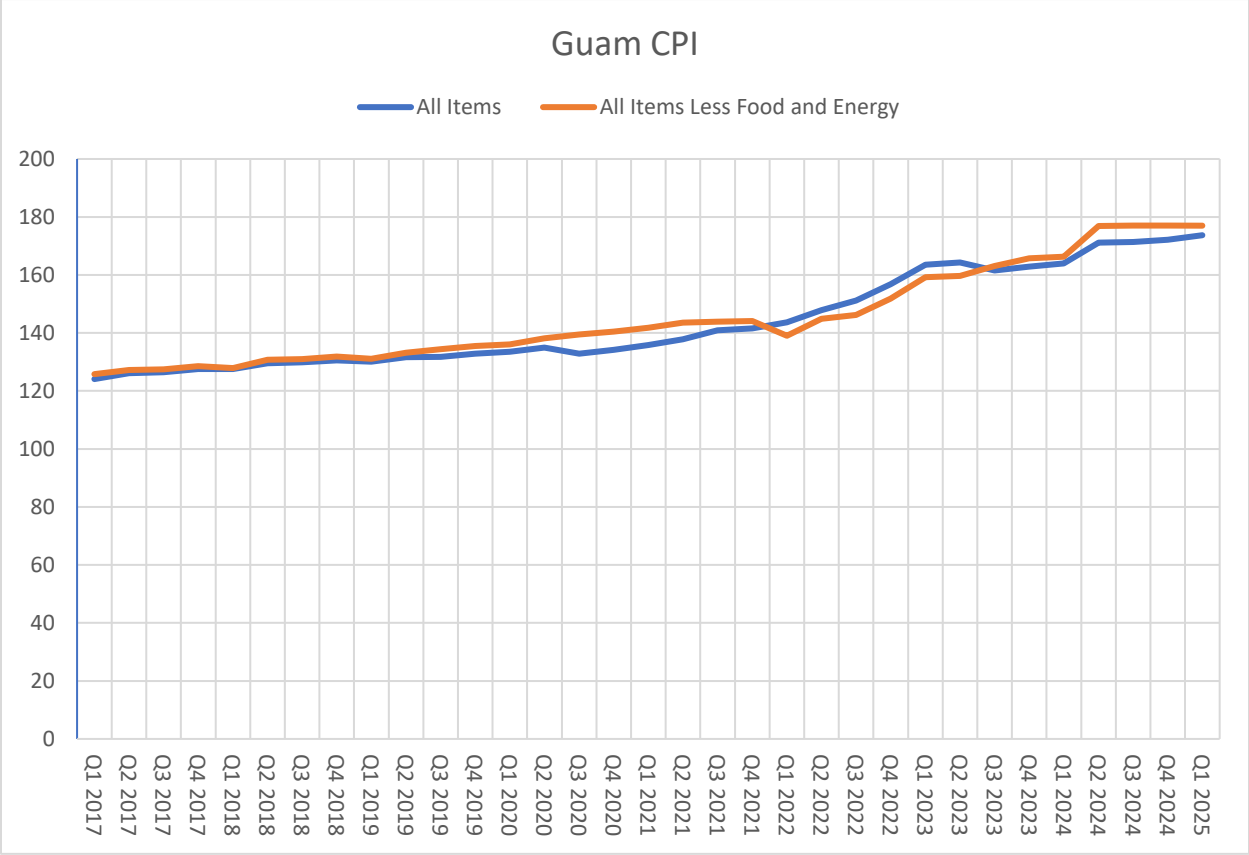
SOURCE: Cost of Living Section, Business and Economic Statistics Program, Bureau of Statistics and Plans, Government of Guam

TABLE C
CONSUMER PRICE INDEX (CPI)
(1st Qtr. 2007 = 100.00)

Rebased Indexes², Average Annual Percent Change

| Calendar Year | 1st Qtr. | 2nd Qtr. | 3rd Qtr. | 4th Qtr. | Annual Average | Average Annual Percent Change |
|---------------|----------|----------|----------|----------|----------------|-------------------------------|
| 2005 | 79.3 | 80.9 | 81.5 | 88.1 | 82.5 | 7.7% |
| 2006 | 88.8 | 91.3 | 92.4 | 95.5 | 92.0 | 11.6% |
| 2007 | 97.2 | 98.1 | 97.6 | 100.0 | 98.2 | 6.8% |
| 2008 | 101.1 | 104.1 | 106.0 | 106.1 | 104.3 | 6.2% |
| 2009 | 105.6 | 105.4 | 106.9 | 106.5 | 106.1 | 1.7% |
| 2010 | 107.8 | 108.9 | 109.4 | 110.6 | 109.2 | 2.9% |
| 2011 | 109.8 | 112.9 | 113.3 | 115.0 | 112.8 | 3.3% |
| 2012 | 116.0 | 116.4 | 116.6 | 116.3 | 116.3 | 3.2% |
| 2013 | 116.8 | 117.0 | 115.5 | 115.8 | 116.3 | 0.0% |
| 2014 | 116.4 | 117.1 | 117.2 | 117.9 | 117.2 | 0.8% |
| 2015 | 116.0 | 116.5 | 116.4 | 115.4 | 116.1 | -0.9% |
| 2016 | 121.3 | 123.5 | 123.6 | 123.6 | 123.0 | 6.0% |
| 2017 | 124.1 | 126.1 | 126.4 | 127.6 | 126.1 | 2.5% |
| 2018 | 127.6 | 129.3 | 129.9 | 130.5 | 129.3 | 2.6% |
| 2019 | 130.1 | 131.6 | 131.8 | 132.9 | 131.6 | 1.8% |
| 2020 | 133.5 | 134.9 | 132.9 | 134.2 | 133.9 | 1.7% |
| 2021 | 135.8 | 137.8 | 140.9 | 141.3 | 139.0 | 3.8% |
| 2022 | 143.7 | 147.9 | 151.1 | 156.8 | 149.9 | 7.9% |
| 2023 | 163.6 | 164.3 | 161.1 | 162.6 | 162.9 | 8.7% |
| 2024 | 164.0 | 171.1 | 171.4 | 172.1 | 169.6 | 4.1% |
| 2025 | 173.7 | | | | 173.7 | 2.4% |

SOURCE: Cost of Living Section, Business and Economic Statistics Program, Bureau of Statistics and Plans, Government of Guam





P.O. Box 2950

Hagatna, Guam 96932

Tel: (671) 475-9661/9670,

(671) 300-9683

Fax: (671) 477-1812

Website: <http://www.bsp.guam.gov>

Email: matthew.santos@bsp.guam.gov

lolalg@bsp.guam.gov