

Consumer Price Index Commonwealth of the Northern Marianas

1st Quarter 2016



October 2017

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Secretary of Commerce Message

It gives me great pleasure to present to the people of the Commonwealth of the Northern Mariana Islands (CNMI) the 1st Quarter 2016 Consumer Price Index (CPI) publication.

The statistical information reflected in this publication contains a wealth of information that measures quarterly changes in prices of a “basket” of goods and services, which are representative of purchases by private households in the CNMI.

To ensure representation of the basket is reflective of current purchasing pattern of households, the CPI was rebased after the 2005 Household Income and Expenditure Survey (HIES) and the base year adjusted to 4th Quarter 2008. These changes help maintain the integrity of the CPI index, providing the people of CNMI with a more reliable measure of the changes in the cost of living.

This publication also presents results for the islands of Rota and Tinian, where price collection commenced in the 1st quarter of 2010.

I acknowledge with great appreciation the valuable contributions of the many participating establishments for enabling us to continue the collection of prices on a quarterly basis for the selected items within the CNMI CPI. With your cooperation and assistance, we will continue to publish the CNMI CPI to account for the changes in the prices of commodities consumed by the people residing in the CNMI.

This publication is possible through the funding support by the Office of Insular Affairs, DOI. I acknowledge and express my gratitude for OIA’s continued support.

I also would like to thank and acknowledge Secretariat of the Pacific Community’s (SPC) Dr. Gerald Haberkorn and his former staff Mr. Chris Ryan, now a staff at the United Nation’s Economic and Social Commission for Asia and the Pacific (UNESCAP) for their assistance and contributions to our CPI publication report.

Last but not least, I would like to commend the staff at the Central Statistics Division in Saipan, and the Resident Commerce staff in Rota and Tinian respectively for their hard work and dedication in publishing this product.

Thank you



Mark O. Rabauliman

Department of Commerce

Explanatory Notes

CPI Construction and Methodology

Survey Overview:

Over a 3-month period from October to December 2005, the Central Statistics Division (CSD) of the Commonwealth of the Northern Mariana Islands' Department of Commerce conducted a Household Income and Expenditure Survey (HIES). This survey used two types of survey methods to gather data. For the more expensive and less frequently purchased items, such as major appliances, electronic goods, new and used vehicles, etc., a pre-printed, survey questionnaire was completed by an interviewer. For those items which are more frequently purchased, such as food, tobacco, drinks, etc., the household respondent was given a diary to record all purchases during a one-week period.

Household Sample:

A random sample of 1,200 households was selected for the HIES in Saipan, which is the capital and the most populated island in the CNMI and about 125 households were selected from each of the islands of Rota and Tinian. From that initial sample, 1,141 households completed the survey questionnaire. From those households, a sub-sample of 700 households was given a diary to record household purchases.

Selection of the Item Sample:

In December of 2007, Justin H. Andrew of CSD and Dr. Michael J. Levin, from Harvard University processed the data. Assisting them in 2008 were Mr. Wil Maui of DataTalks and Mr. Brian Hannon, an Economic Statistics International Consultant was hired to assist the CSD in rebasing the CPI. The survey items and expenditures were arrayed using the U.S. Bureau of Labor Statistics CPI classification system as a frame of reference. Then, using a statistical technique called "Probability Proportional to Size"; the CSD selected a new item sample. Using the PPS technique to select the item sample ensured that those items with the highest monthly household expenditures were selected in the sample. The sample included a total of 161 items for Saipan, 147 for Tinian, and 129 for Rota.

Expanding the Major Groups:

Using the BLS Classification System as a frame of reference allowed the CSD to expand the number of groups included in the CNMI's CPI. Instead of having five (5) major groups, the revised CPI now has nine (9) major groups. Having more groups allows the users to understand better which groups are responsible for the increases/decreases of the CPI. In the previous CPI, for example, alcoholic beverages were a part of the Health and Recreation Group. Now, it is one of the 4 new groups. The others are: Medical Care, Education and Communication and Other Goods and Services.

Expansion of the Outlet Sample:

The previous CPI collected price data from 18 different outlets. In the revised CPI, the number of retail outlets has been expanded dramatically and the outlet sample now consists of roughly 170 different retail outlets in Saipan, 30 in Tinian and 60 in Rota, which are geographically dispersed throughout Saipan, Rota and Tinian. This substantially larger outlet sample will ensure that the retail price data are collected from a wide variety of outlets dispersed throughout the three locations.

Data Collection and Price Review Manual:

The CSD has made another enhancement to the CPI by increasing the data collection training and by formalizing this vital aspect of price collection by developing a Data Collection Manual. This new manual covers virtually all aspects of price collection ranging from initiating the retail outlet to the rules for selecting a retail item and re-pricing. This new manual will improve data collection quality because it will provide guidance to the data collectors in handling almost any type of re-pricing situation.

Linking the Old and New CPIs:

In the 4th Quarter of 2008, data collectors collected price data for both the old and revised CPIs and the two indexes were "spliced" together at that point. In order for two indexes to be linked together, there must be at least one period where prices are collected for both the old and the new indexes. This overlapping period was the 4th Quarter 2008. Beginning in the 1st Quarter 2009, the CSD collected price data for only the items in the revised CPI. Therefore, up to the 4th Quarter 2008, the index change is based on the old basket of goods, whereas from 1st Quarter 2009 onwards, the index change is based on the new basket.

Changing the Base Period:

Another change in the CPI was rebasing it from the 1stQuarter 2003 = 100 to the 4thQuarter 2008 = 100. This is a mathematical change in the CPI but the more recent base period will make the CPI easier for users to understand. There is no difference in the percent changes from the old CPI from one period to another.

Calculating the Consumer Price Index

As with most CPIs around the world, the CSD will continue to use the Laspeyres method to calculate the CPI. This is the most widely-used and internationally-accepted method of calculating price change for a CPI. The Laspeyres formula is shown below:

Laspeyres Formula:

$$I_t = \frac{\sum_{i=1}^n P_t Q_0}{\sum_{i=1}^n P_0 Q_0} * 100$$

I_t = The index at time point t

P_t = The price at time point t

P_0 = The price at the base period

Q_0 = The quantity at the base period

n = The number of commodities being priced

i = Commodity i (where i goes from 1 to n)

This method of index computation uses the quantities of commodities purchased in the base period as the basis for computing the value of the "market basket." First, there are n number of items in the market basket with each having a base quantity. Each of these items has a base price, p_0 and current price, p_i . Multiplying p_0 with q_0 gives the total expenditure for a particular commodity for the base period. Current expenditure for an item is obtained by multiplying p_i with q_0 . The sum of current

expenditures for all items in the market basket is expressed as $\sum p_i q_0$, while the sum $\sum p_0 q_0$ is the total market basket expenditures in the base period. Notice that in both summations the term q_0 remains constant, which means by using the same quantities only price changes are reflected in two pricing periods.

For those unfamiliar with statistical notation, trying to read and understand the above explanation can be an intimidating experience. In layman's terms, the above simply means that all of the items in the CPI are priced every quarter and the prices for each item in the current quarter are compared to the same prices in the base period. The base period is the 4th quarter 2008 when the CPI was set equal to 100. That is when the CPIs for each of the 9 major groups and the All Items = 100.

The CSD uses a slight variation to this formula. Each quarter, the average of the prices that are collected for each item are compared to the average of the same prices in the previous quarter – not the base period. This is only done for items which are priced in both quarters. The average of the prices of an item in the current quarter is divided by the average of the prices in the previous quarter to calculate a price relative. This price relative is multiplied by the item's weight in the previous quarter to update the item's weight in the current quarter. This product is then divided by the item's weight in the base period to calculate an item's CPI. By summing the updated weights for all of the items in a group and dividing that sum by the same weights in the base period will calculate the group's current CPI.

Analysis - Saipan

Section 1 – Quarterly Inflation

Table 1 below shows the quarterly inflation rate for each quarter since the 4th quarter 2012, by group. As can be seen from this table the index increased by 0.3 percent for the 1st quarter. The trend for “All Items” can also be seen in Chart 1, illustrating the slight increase for this quarter (see Appendix 2 for a longer series of quarterly changes).

As can be seen from Chart 2, “Recreation” (44.4 %), showed the largest increase due to upgrades of cable services, “Education & Communication” showed an increase of (7.0 %), followed by “Housing & Utilities” (3.8 %) while the rest of the groups showed negligible increases when compared to last quarter.

Table 1: Quarterly inflation, by Group, Saipan: Qtr4 2012 – Qtr1 2016

Group	4th Qtr 2012	1st Qtr 2013	2nd Qtr 2013	3rd Qtr 2013	4th Qtr 2013	1st Qtr 2014	2nd Qtr 2014	3rd Qtr 2014	4th Qtr 2014	1st Qtr 2015	2nd Qtr 2015	3rd Qtr 2015	4th Qtr 2015	1st Qtr 2016
All Items	1.1	-1.1	-0.2	-1.0	-0.2	0.5	0.8	-0.6	0.4	-3.5	0.9	-1.5	0.1	0.3
Food	-0.2	0.2	0.2	1.3	0.0	1.8	0.7	0.1	3.4	0.7	0.1	-0.3	0.3	-0.4
Alcoholic Beverages	0.0	1.7	0.0	2.0	0.0	0.9	1.4	0.0	0.5	0.0	0.0	2.6	0.0	0.0
Housing & Utilities	1.7	0.3	0.1	0.0	-0.2	-0.5	1.4	-1.9	-3.3	-6.7	2.4	-3.2	0.1	-3.8
Apparel	-1.5	-0.3	-0.9	-0.5	0.0	1.0	0.1	-1.7	0.3	1.2	0.0	0.0	0.1	0.0
Transportation	2.0	-3.3	-0.7	0.6	-0.7	1.1	0.7	0.0	1.6	-8.0	1.0	-2.7	0.0	-1.9
Medical Care	1.7	1.1	0.0	-10.3	0.0	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.3
Recreation	-0.1	-0.5	0.0	-0.4	-0.1	0.4	2.2	-2.1	0.0	-0.2	-0.3	-0.1	0.0	44.4
Education & Communication	0.4	-10.1	0.0	0.3	0.0	-1.5	0.0	0.5	-0.4	0.0	0.0	0.1	0.0	7.0
Other Goods & Services	0.0	0.0	0.0	0.3	-0.2	0.1	0.0	0.0	11.2	4.3	0.0	0.1	0.0	-0.1

Chart 1: Quarterly inflation, Saipan: Qtr4 2012 – Qtr1 2016

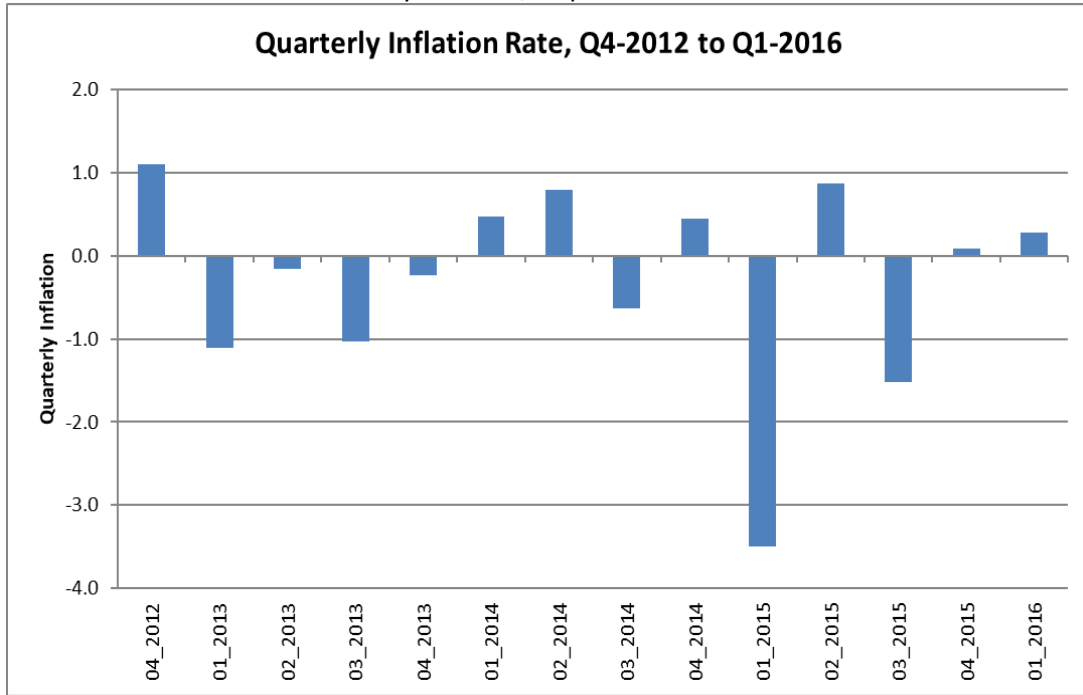
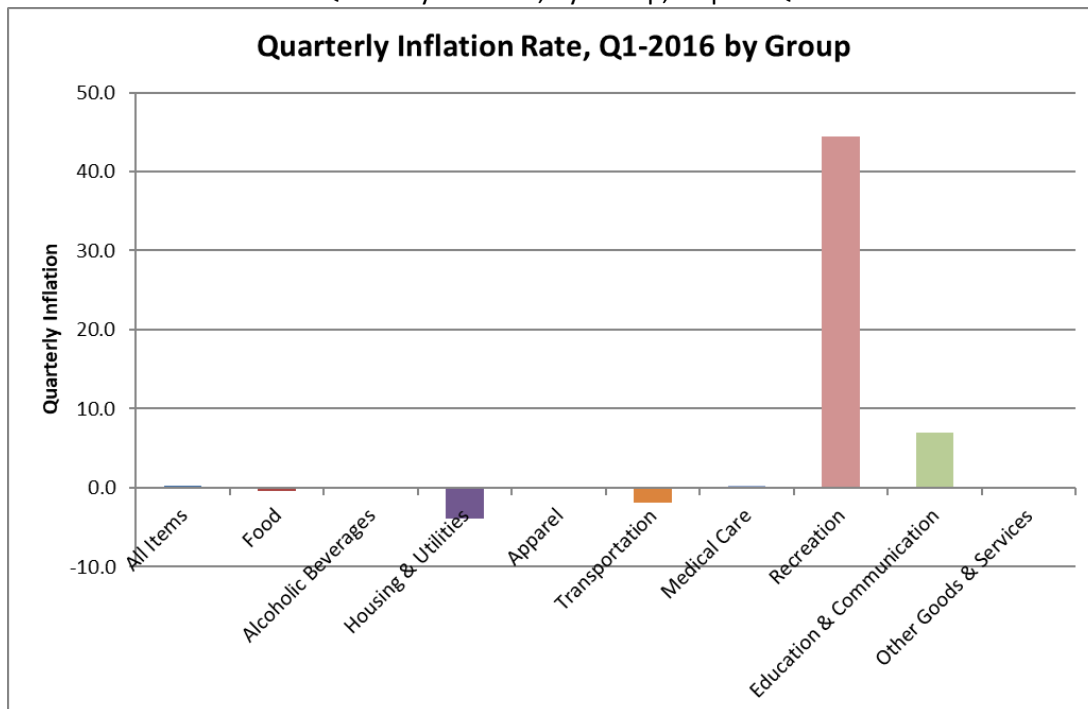


Chart 2: Quarterly inflation, by Group, Saipan: Qtr1 2016



Section 2 – Annual Inflation

Table 2 below shows the annual inflation rate for each year since the 1st quarter 2006, by group. As can be seen from this table the index decreased by 0.3 percent over the last 12 months. The table clearly shows the major increase in the cost of living for Saipan took place for the year ending 1st qtr 2007 (12.5%). The trend for “All Items” can also be seen in Chart 3.

As can be seen from Chart 4, the group which increased the most was “Recreation”, with 43.9 percent growth, when compared to the same quarter last year. “Alcoholic Beverages” group showed the next largest increase which rose by 2.6 percent meanwhile “Housing & Utilities” group showed the largest decrease (4.7%).

Table 2: Annual inflation, by Group, Saipan: Qtr1 2006 – Qtr1 2016

Group	1st Qtr 2006	1st Qtr 2007	1st Qtr 2008	1st Qtr 2009	1st Qtr 2010	1st Qtr 2011	1st Qtr 2012	1st Qtr 2013	1st Qtr 2014	1st Qtr 2015	1st Qtr 2016
All Items	2.4	12.5	1.3	6.5	6.0	3.5	4.3	-0.5	-0.9	-2.9	-0.3
Food	1.8	5.0	7.1	8.3	2.0	3.5	3.5	0.2	3.4	5.0	-0.3
Alcoholic Beverages	2.2	3.9	2.5	2.9	9.8	3.3	-0.7	3.7	2.9	1.8	2.6
Housing & Utilities	4.2	41.1	-1.0	9.2	6.8	-4.7	2.3	0.6	-0.7	-10.3	-4.7
Apparel	7.1	3.4	0.6	-1.2	2.8	-2.9	0.5	-4.6	-0.4	-0.2	0.0
Transportation	0.7	0.0	0.0	4.7	13.1	9.5	5.6	-2.9	0.2	-5.9	-3.6
Medical Care	6.3	0.0	8.3	1.6	-1.2	18.7	13.2	6.0	-10.1	0.3	0.3
Recreation	5.6	1.9	2.4	-3.4	1.6	1.1	1.6	-0.8	-0.2	-0.1	43.9
Education & Communication	3.4	1.0	-0.2	-1.4	8.2	-0.9	0.8	-10.2	-1.2	0.1	7.1
Other Goods & Services	0.0	0.0	0.0	9.4	1.0	9.4	0.8	0.3	0.2	16.0	-0.1

Chart 3: Annual inflation, Saipan: Qtr1 2006 – Qtr1 2016

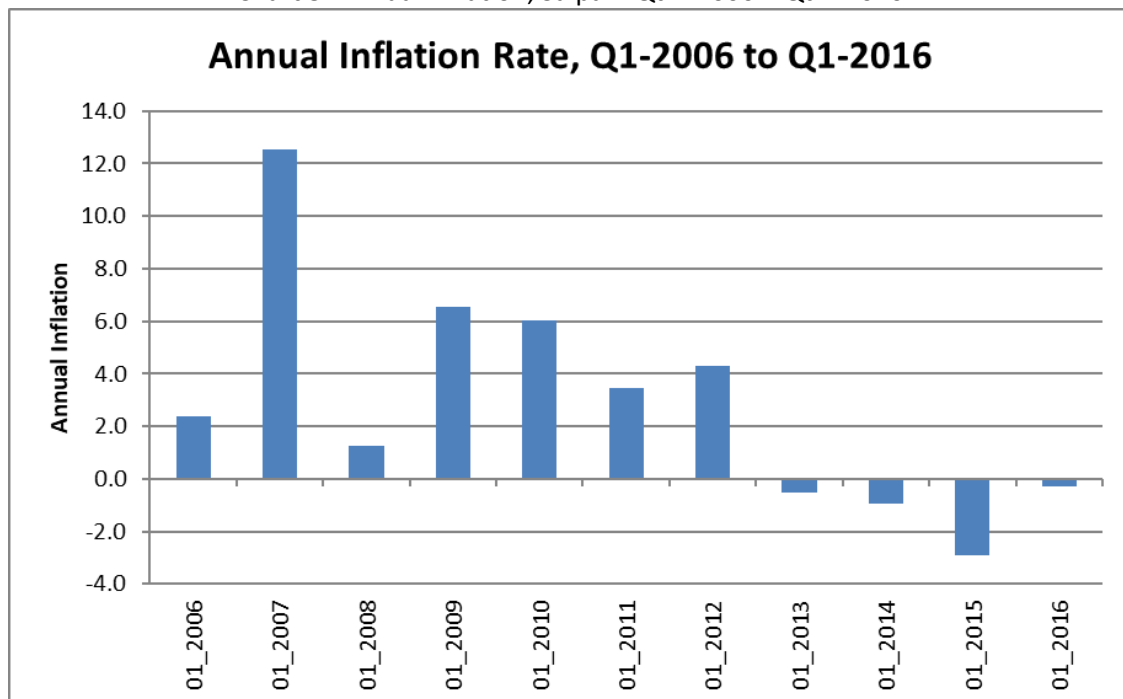
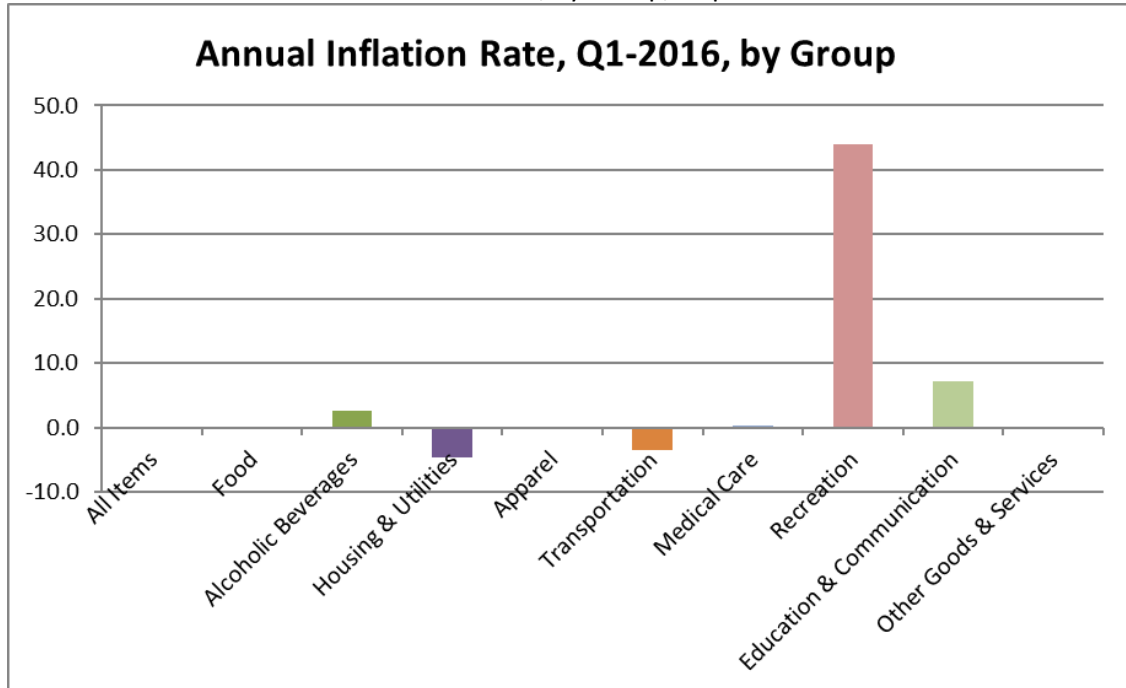


Chart 4: Annual inflation, by Group, Saipan: Qtr1 2016



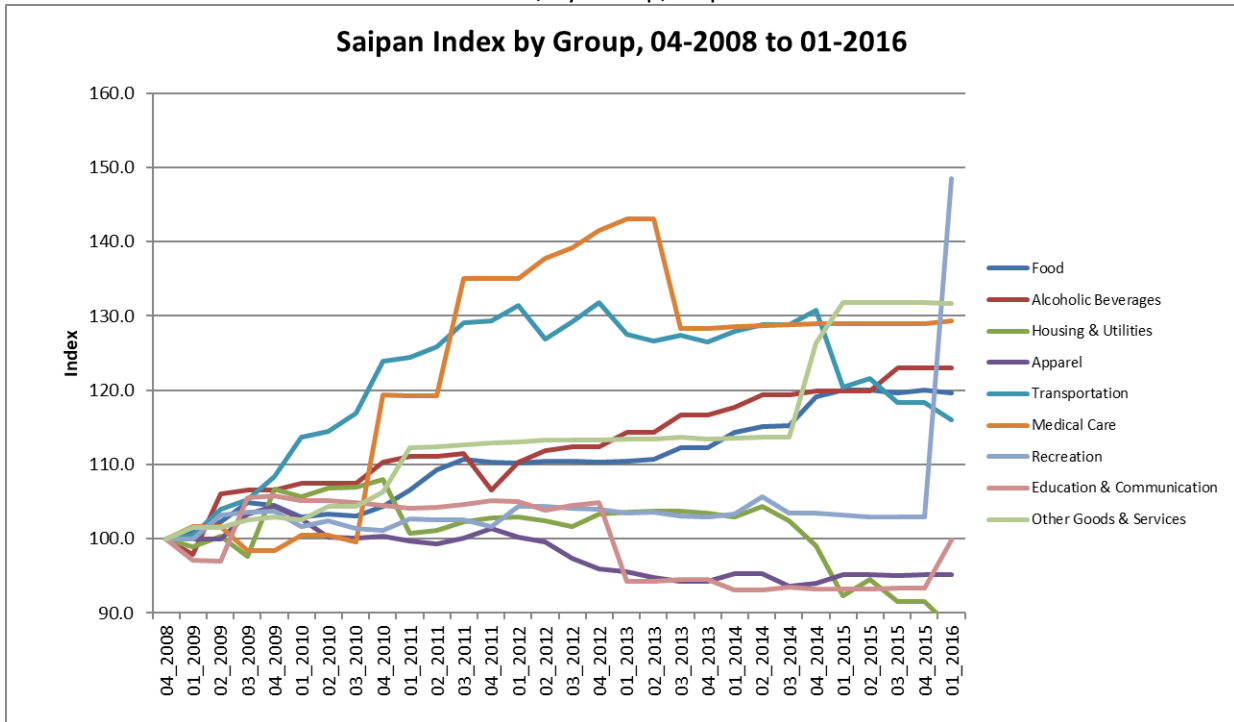
Section 3 – Further Analysis of the Index

Table 3 and Chart 5 below show the change in the index since the re-base in the 4th Quarter 2008. The analysis shows that most groups have increased during this time, with the exceptions of “Housing & Utilities”, “Apparel” and “Education & Communication” which show decreases ranging from about 5 percent to about 12 percent. “Recreation” had the greatest increase of 48 percent in this period which was followed by “Other Goods & Services” with an increase of 31 percent. For more details refer to Appendix 1.

Table 3: Consumer Price Index, by Group, Saipan: Qtr 4 2008 – Qtr1 2016

Group	4th Qtr 2008	1st Qtr 2009	2nd Qtr 2009	3rd Qtr 2009	4th Qtr 2009	1st Qtr 2010	2nd Qtr 2010	3rd Qtr 2010	4th Qtr 2010	1st Qtr 2011	2nd Qtr 2011	3rd Qtr 2011	4th Qtr 2011	1st Qtr 2012	2nd Qtr 2012	3rd Qtr 2012	4th Qtr 2012	1st Qtr 2013	2nd Qtr 2013	3rd Qtr 2013	4th Qtr 2013	1st Qtr 2014	2nd Qtr 2014	3rd Qtr 2014	4th Qtr 2014	1st Qtr 2015	2nd Qtr 2015	3rd Qtr 2015	4th Qtr 2015	1st Qtr 2016	
All Items	100.0	100.0	101.6	101.9	105.4	106.0	106.6	106.9	111.2	109.7	110.5	113.7	113.8	114.4	113.5	113.8	115.0	113.7	113.6	112.4	112.1	112.7	113.6	112.8	113.3	109.4	110.3	108.6	108.7	109.0	
Food	100.0	100.9	102.3	104.9	104.5	102.9	103.4	103.0	104.4	106.5	109.3	110.8	110.3	110.2	110.4	110.5	110.3	110.5	110.7	112.2	112.2	114.3	115.1	115.2	119.1	120.0	120.0	119.7	120.1	119.6	
Alcoholic Beverages	100.0	97.8	106.0	106.5	106.5	107.5	107.5	107.5	110.3	111.0	111.0	111.5	106.6	110.3	111.9	112.4	112.4	114.4	114.4	116.6	116.6	117.7	119.3	119.3	119.9	119.9	119.9	119.9	123.0	123.0	123.0
Housing & Utilities	100.0	98.9	100.4	97.6	106.6	105.7	106.8	106.9	108.0	100.7	101.1	102.3	102.9	103.0	102.4	101.6	103.3	103.6	103.7	103.7	103.5	102.9	104.4	102.4	99.0	92.3	94.5	91.5	91.6	88.0	
Apparel	100.0	100.0	100.0	103.4	104.3	102.7	100.2	100.1	100.3	99.7	99.3	100.1	101.4	100.2	99.6	97.4	95.9	95.6	94.8	94.3	94.3	95.2	95.3	93.7	94.0	95.1	95.1	95.1	95.1	95.1	
Transportation	100.0	100.5	103.9	105.3	108.4	113.7	114.5	116.9	123.9	124.5	125.8	129.1	129.3	131.4	126.9	129.3	131.9	127.6	126.6	127.3	126.5	127.9	128.8	128.8	130.8	120.4	121.6	118.3	118.3	116.1	
Medical Care	100.0	101.6	101.6	98.4	98.4	100.5	100.5	99.5	119.3	119.2	119.2	135.1	135.1	135.0	137.8	139.2	141.5	143.1	143.1	128.3	128.3	128.6	128.7	128.8	129.0	129.0	129.0	129.0	129.0	129.3	
Recreation	100.0	100.0	103.2	103.6	103.8	101.6	102.4	101.4	101.2	102.7	102.6	102.6	101.6	104.3	104.3	104.1	104.0	103.5	103.5	103.1	103.0	103.3	105.6	103.4	103.4	103.2	102.9	102.9	102.9	148.5	
Education & Communicat	100.0	97.2	97.0	105.5	105.8	105.1	105.1	104.9	104.5	104.2	104.2	104.6	105.2	105.0	103.9	104.4	104.9	94.3	94.3	94.5	94.5	93.1	93.1	93.5	93.2	93.2	93.2	93.3	93.3	99.8	
Other Goods & Services	100.0	101.5	101.5	102.5	103.0	102.6	104.4	104.3	106.2	112.2	112.4	112.7	112.9	113.1	113.3	113.4	113.4	113.4	113.4	113.7	113.5	113.6	113.6	113.6	126.3	131.7	131.7	131.8	131.8	131.6	

Chart 5: Consumer Price Index, by Group, Saipan: Qtr4 2008 – Qtr1 2016



Analysis - Tinian

Section 1 – Quarterly Inflation

Table 4 below shows the quarterly inflation rate for each quarter since the 2nd quarter 2010, by group. As can be seen from this table the index decreased by 1.0 percent for the 1st quarter 2016. The trend for “All Items” can also be seen in Chart 6 on the following page, illustrating fluctuating change in the quarterly price change over the last 5 years.

Chart 7 shows changes in all the other groups with “Recreation” showing the largest increase (14.8%).

Table 4: Quarterly inflation, by Group, Tinian: Qtr2 2010 – Qtr1 2016

Group	2nd Qtr 2010	3rd Qtr 2010	4th Qtr 2010	1st Qtr 2011	2nd Qtr 2011	3rd Qtr 2011	4th Qtr 2011	1st Qtr 2012	2nd Qtr 2012	3rd Qtr 2012	4th Qtr 2012	1st Qtr 2013	2nd Qtr 2013	3rd Qtr 2013	4th Qtr 2013	1st Qtr 2014	2nd Qtr 2014	3rd Qtr 2014	4th Qtr 2014	1st Qtr 2015	2nd Qtr 2015	3rd Qtr 2015	4th Qtr 2015	1st Qtr 2016
All Items	1.3	-0.3	3.3	0.9	0.6	3.5	0.3	2.3	0.3	-0.3	3.0	0.4	0.1	-1.4	0.1	-0.3	1.0	0.6	-1.4	-3.4	1.4	-1.9	-0.2	-1.0
Food	-1.1	-0.2	-1.3	-1.2	0.0	1.2	2.2	0.7	0.9	-0.2	0.4	0.2	1.9	0.2	0.1	0.3	1.3	4.0	0.3	1.6	0.6	0.1	0.0	0.9
Alcoholic Beverages	2.1	0.0	-2.0	1.9	0.0	0.1	0.1	0.1	2.9	-0.9	2.1	-0.2	0.0	0.3	0.0	1.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Housing & Utilities	5.2	-0.9	4.9	2.1	0.0	3.8	-1.0	7.1	-0.7	-0.4	2.6	1.2	-0.4	-0.3	0.2	-1.5	2.0	-1.6	-5.0	-10.2	3.8	-5.3	-0.5	-5.4
Apparel	-4.0	0.3	-0.3	-0.9	-0.8	0.3	-0.2	-0.1	-0.9	-1.8	-1.8	-0.9	-1.8	-0.6	0.0	2.2	0.0	2.0	0.0	2.4	0.0	-0.2	0.1	-0.1
Transportation	1.1	0.7	-0.4	3.4	8.2	1.6	-0.6	-0.6	3.1	1.6	-0.3	-0.4	0.0	0.5	0.0	0.0	0.0	2.7	-5.2	-5.2	1.4	-4.0	-0.2	-2.8
Medical Care	0.0	0.0	19.5	0.0	0.0	13.0	1.4	-2.0	0.0	0.0	15.2	0.3	0.0	-9.2	0.0	-0.1	0.0	0.0	0.0	-0.7	0.0	0.0	0.0	0.0
Recreation	-0.3	0.0	-0.4	-0.7	-0.2	7.3	0.0	3.9	-0.6	-1.1	-0.5	0.5	2.2	-0.8	0.0	-1.3	0.5	-0.2	0.0	0.4	-1.1	-0.1	0.0	14.8
Education & Communication	0.5	-0.3	-0.6	0.2	-0.2	0.0	0.0	0.7	0.0	-0.3	3.3	-3.2	0.3	0.3	0.4	-0.7	0.0	0.1	-0.3	-2.0	0.0	0.0	0.0	0.0
Other Goods & Services	1.6	0.0	1.1	2.4	0.0	0.3	0.7	-0.3	2.1	-0.5	0.6	1.7	-0.8	-0.4	0.0	0.3	0.3	0.4	9.9	0.4	0.1	-0.1	-0.4	0.4

Chart 6: Quarterly inflation, Tinian: Qtr2 2010 – Qtr1 2016

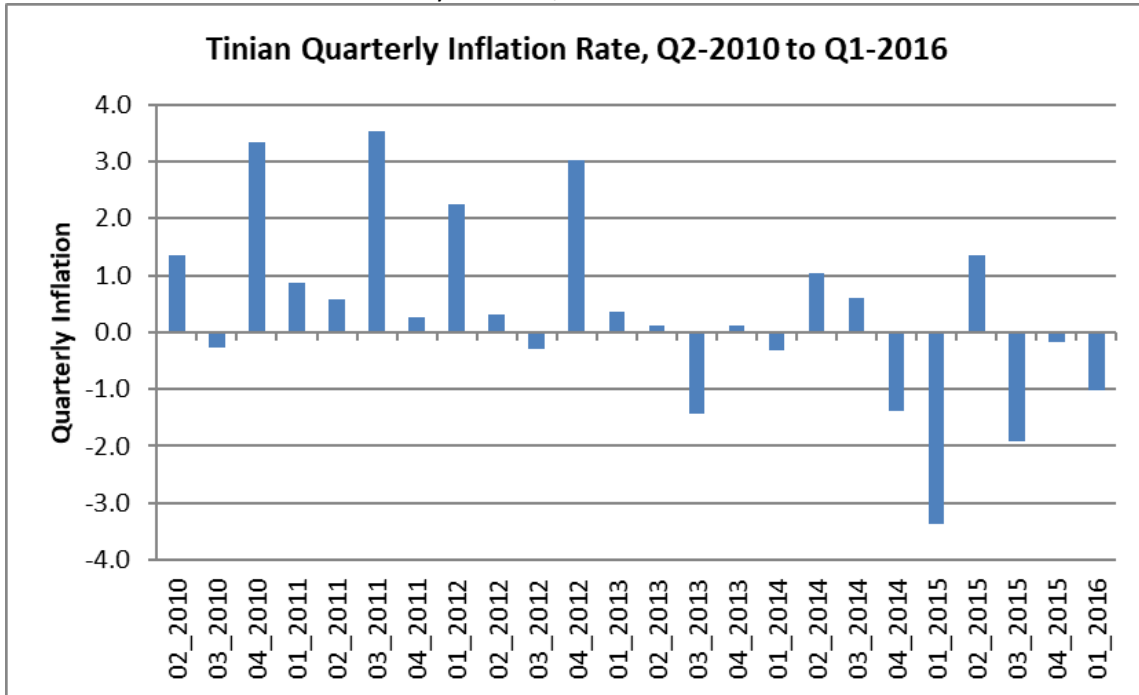
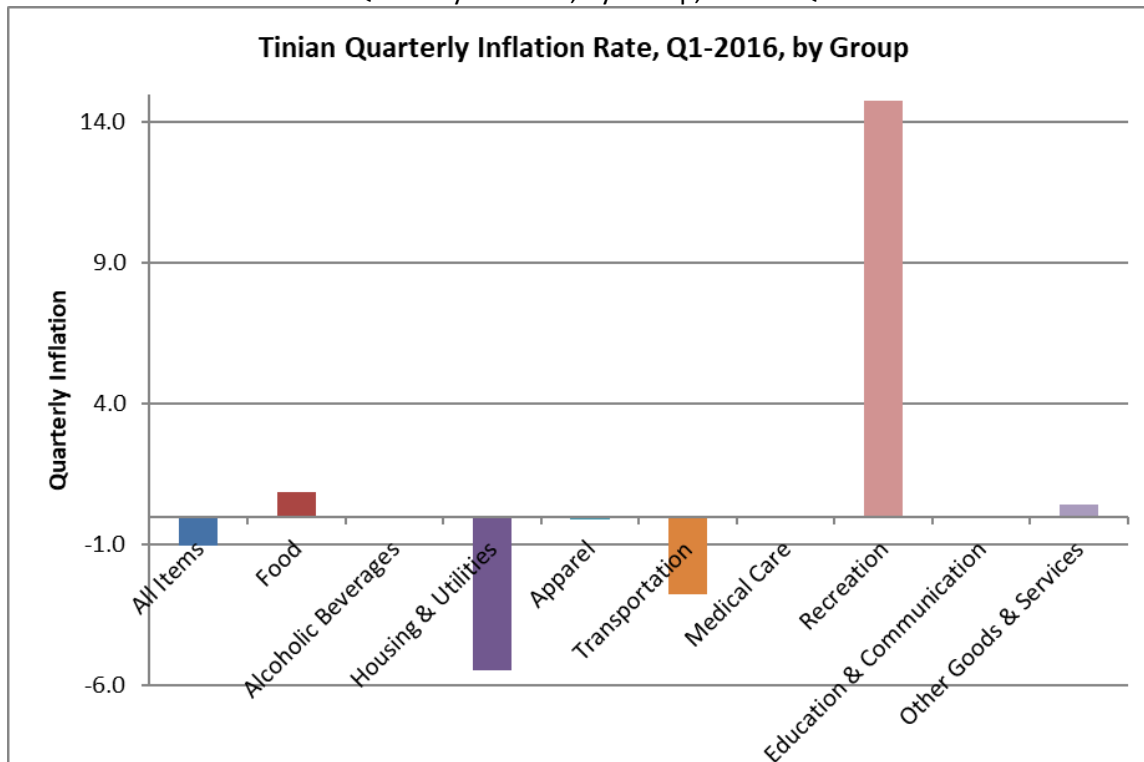


Chart 7: Quarterly inflation, by Group, Tinian: Qtr1 2016



Section 2 – Annual Inflation

Table 5 below shows the annual inflation for Tinian for the last 5 years ending 1st quarter, 2016. As can be seen from the table, there was a decrease in the annual inflation for All Items in 1st quarter 2016.

Chart 9 shows additional annual inflation analysis by group for the 1st quarter 2016. From this graph it can be seen that “Recreation” group had the highest annual increase of 13.4 percent over the last 12 months.

Table 5: Annual inflation, by group, Tinian: Qtr1 2012 – Qtr1 2016

Group	1st Qtr 2012	1st Qtr 2013	1st Qtr 2014	1st Qtr 2015	1st Qtr 2016
All Items	6.8	3.4	-1.5	-3.1	-1.8
Food	4.1	1.3	2.4	7.3	1.6
Alcoholic Beverages	0.3	3.9	2.1	2.2	0.0
Housing & Utilities	10.0	2.7	-1.9	-14.4	-7.5
Apparel	-0.8	-5.3	-0.2	4.5	-0.2
Transportation	8.6	3.9	0.5	-7.8	-5.5
Medical Care	12.3	15.6	-9.2	-0.7	0.0
Recreation	11.2	-1.7	0.0	0.7	13.4
Education & Communication	0.5	-0.3	0.2	-2.3	0.1
Other Goods & Services	0.6	4.0	-0.9	11.1	0.0

Chart 8: Annual inflation, Tinian: Qtr1 2012 – Qtr1 2016

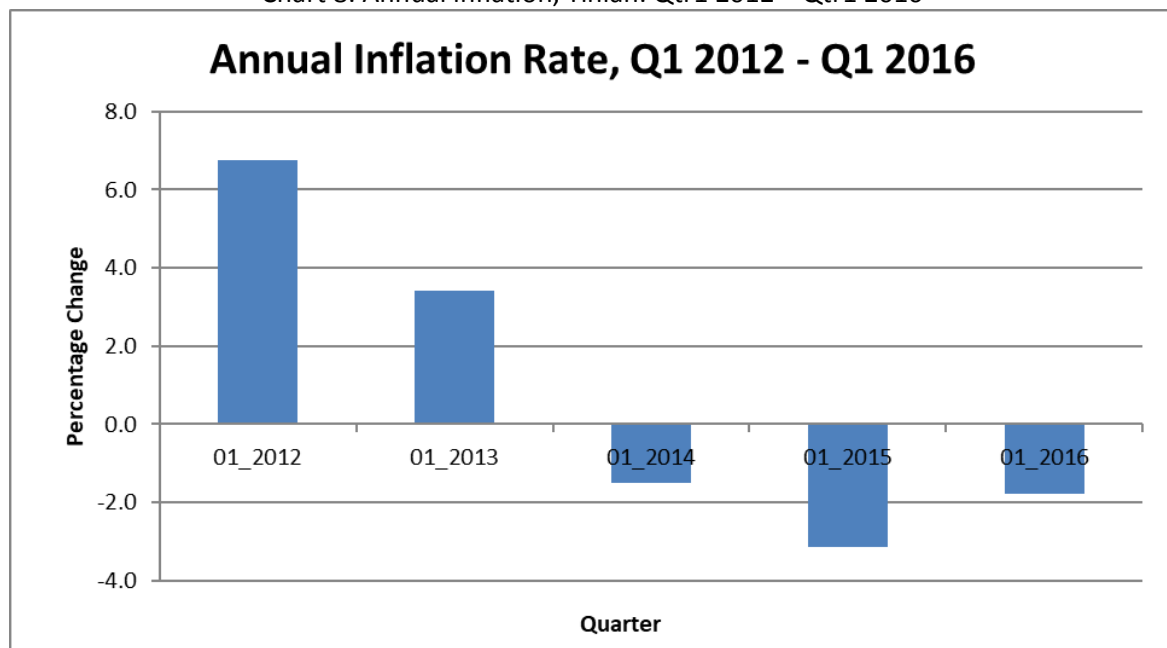
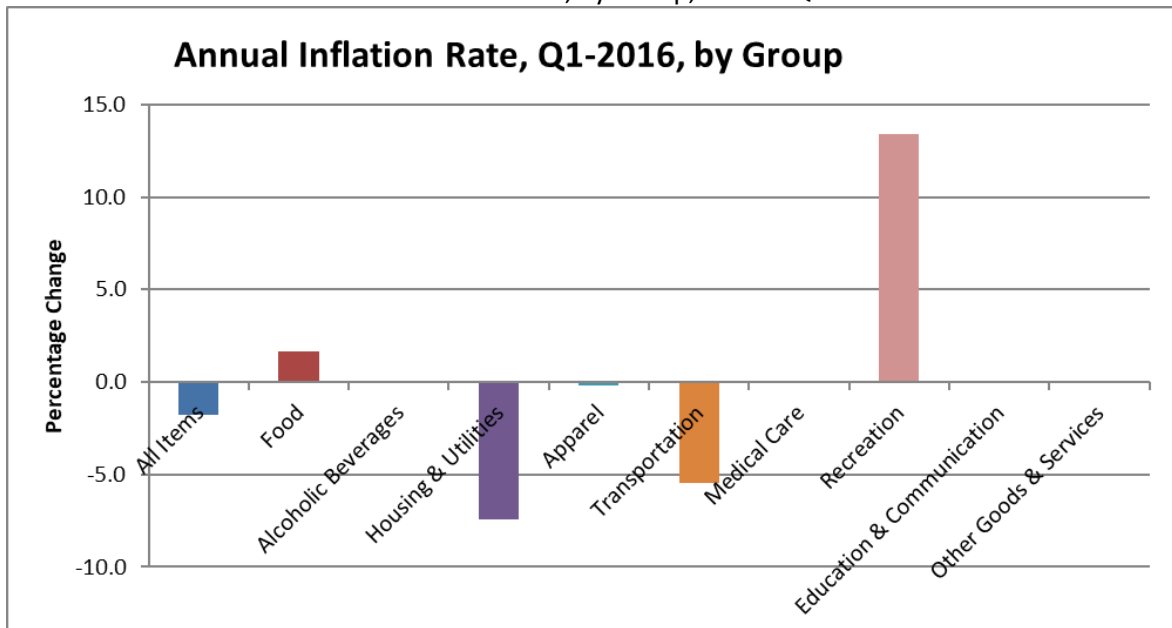


Chart 9: Annual inflation, by Group, Tinian: Qtr1 2016



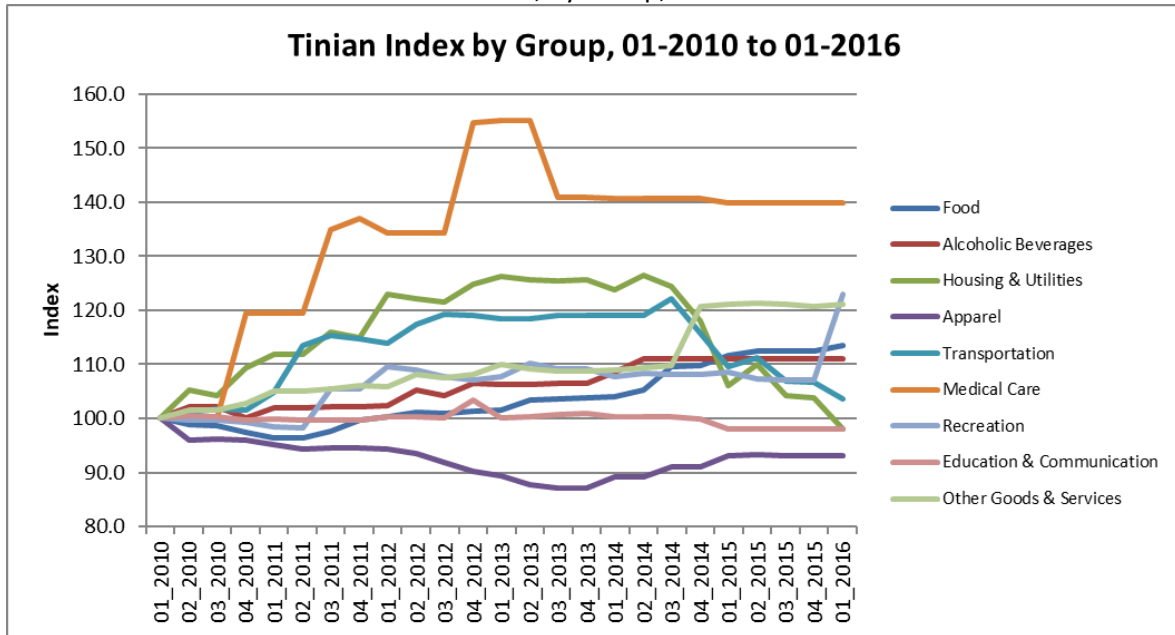
Section 3 – Further Analysis of the Index

Table 6 and Chart 10 below show the change in the index since the CPI was established in 1st Quarter 2010. The analysis shows that “Medical Care” has had the most significant increase in this period with the index rising by about 40 percent during this period, while “Recreation” was next largest with an increase of 23 percent during this time.

Table 6: Consumer Price Index, by Group, Tinian: Qtr 1 2010 – Qtr1 2016

Group	1st Qtr 2010	2nd Qtr 2010	3rd Qtr 2010	4th Qtr 2010	1st Qtr 2011	2nd Qtr 2011	3rd Qtr 2011	4th Qtr 2011	1st Qtr 2012	2nd Qtr 2012	3rd Qtr 2012	4th Qtr 2012	1st Qtr 2013	2nd Qtr 2013	3rd Qtr 2013	4th Qtr 2013	1st Qtr 2014	2nd Qtr 2014	3rd Qtr 2014	4th Qtr 2014	1st Qtr 2015	2nd Qtr 2015	3rd Qtr 2015	4th Qtr 2015	1st Qtr 2016	
All Items	100.0	101.3	101.1	104.4	105.4	106.0	109.7	110.0	112.5	112.8	112.5	115.9	116.3	116.5	114.8	114.9	114.6	115.7	116.4	114.8	111.0	112.5	110.3	110.1	109.0	
Food	100.0	98.9	98.7	97.5	96.3	96.3	97.5	99.6	100.3	101.2	101.0	101.4	101.6	103.5	103.7	103.8	104.0	105.3	109.6	109.9	111.7	112.4	112.5	112.5	113.5	
Alcoholic Beverages	100.0	102.1	102.1	100.1	102.0	102.0	102.1	102.2	102.3	105.2	104.2	106.5	106.2	106.2	106.5	106.5	108.5	110.9	110.9	110.9	110.9	110.9	110.9	110.9	110.9	110.9
Housing & Utilities	100.0	105.2	104.3	109.4	111.8	111.8	116.0	114.9	123.0	122.1	121.6	124.8	126.3	125.7	125.4	125.7	123.9	126.4	124.4	118.1	106.0	110.1	104.3	103.8	98.1	
Apparel	100.0	96.0	96.3	96.0	95.1	94.4	94.6	94.4	94.4	93.6	91.8	90.2	89.4	87.8	87.2	87.2	89.2	89.2	91.0	91.0	93.2	93.2	93.0	93.1	93.0	
Transportation	100.0	101.1	101.8	101.5	104.9	113.5	115.3	114.6	114.0	117.5	119.3	119.0	118.4	118.4	119.0	119.0	119.0	119.0	122.2	115.8	109.7	111.3	106.9	106.6	103.7	
Medical Care	100.0	100.0	100.0	119.5	119.5	119.5	135.0	137.0	134.2	134.2	134.2	154.6	155.1	155.1	140.9	140.9	140.8	140.8	140.8	140.8	139.8	139.8	139.8	139.8	139.8	
Recreation	100.0	99.7	99.6	99.2	98.5	98.3	105.5	105.5	109.6	108.9	107.7	107.2	107.8	110.2	109.2	109.2	107.8	108.3	108.1	108.1	108.5	107.3	107.2	107.2	123.0	
Education & Communication	100.0	100.5	100.2	99.6	99.8	99.6	99.7	99.7	100.3	100.3	100.0	103.3	100.1	100.3	100.6	101.0	100.2	100.2	100.3	100.0	98.0	98.0	98.0	98.0	98.0	
Other Goods & Services	100.0	101.6	101.6	102.7	105.1	105.1	105.5	106.2	105.8	108.1	107.6	108.2	110.0	109.2	108.7	108.7	109.0	109.4	109.8	120.7	121.1	121.3	121.1	120.7	121.1	

Chart 10: Consumer Price Index, by Group, Tinian: Qtr1 2010 – Qtr1 2016



Analysis - Rota

Section 1 – Quarterly Inflation

Table 7 shows the quarterly inflation for each quarter since the 2nd quarter 2010, by group. As can be seen from this table the index decreased by 0.7 percent for the 1st quarter 2016. The trend for “All Items” can also be seen in Chart 11 showing a decrease when compared to the previous quarter.

Chart 12 shows that “Recreation” had the largest increase during the last quarter with a rise of 24.1 percent followed by “Education & Communication” group (4.3%). The group which had the main decrease was “Alcoholic Beverages” which dropped by 13.5 percent. The other groups for Rota showed negligible changes over the last quarter.

Table 7: Quarterly inflation, by Group, Rota: Qtr2 2010 – Qtr1 2016

Group	2nd Qtr 2010	3rd Qtr 2010	4th Qtr 2010	1st Qtr 2011	2nd Qtr 2011	3rd Qtr 2011	4th Qtr 2011	1st Qtr 2012	2nd Qtr 2012	3rd Qtr 2012	4th Qtr 2012	1st Qtr 2013	2nd Qtr 2013	3rd Qtr 2013	4th Qtr 2013	1st Qtr 2014	2nd Qtr 2014	3rd Qtr 2014	4th Qtr 2014	1st Qtr 2015	2nd Qtr 2015	3rd Qtr 2015	4th Qtr 2015	1st Qtr 2016
All Items	-0.1	1.1	1.0	2.2	0.8	1.5	0.0	0.4	0.2	1.1	1.2	0.1	0.6	-0.5	0.4	1.3	0.3	0.0	-2.4	-1.7	-0.1	-0.6	0.5	-0.7
Food	0.0	-0.9	-0.8	0.5	-0.1	1.7	0.2	1.3	0.4	0.5	-0.1	0.0	2.2	0.6	4.8	-0.7	-2.9	0.9	1.7	1.1	1.3	0.8	0.8	1.6
Alcoholic Beverages	0.0	1.6	0.0	0.2	0.0	0.0	0.0	1.0	0.0	0.0	0.1	-0.1	0.0	9.7	13.3	2.3	-12.8	-8.7	4.8	0.1	2.7	8.9	3.2	-13.5
Housing & Utilities	0.1	2.5	-1.7	3.0	0.0	0.1	0.1	0.5	0.0	2.5	1.8	0.4	0.7	0.0	-0.5	-0.1	1.9	-0.6	-6.3	-4.9	1.3	-2.2	0.4	-2.7
Apparel	0.5	-2.9	0.3	0.0	-0.6	1.0	-0.2	-0.9	-0.2	-1.9	-3.2	-1.2	1.1	0.4	0.1	-0.2	0.0	1.3	0.1	0.0	0.0	-0.9	4.6	-0.1
Transportation	1.6	0.9	0.9	3.9	8.3	0.4	-0.4	0.9	1.7	1.2	0.3	-0.4	-2.3	1.7	-2.2	1.5	-0.1	2.9	-5.1	0.0	-6.5	-0.5	-1.7	-2.0
Medical Care	0.0	0.0	17.3	0.0	0.0	11.8	0.0	-0.1	0.0	0.0	4.3	0.6	1.0	-8.9	0.0	11.8	0.1	-1.0	-0.1	0.0	0.0	0.0	0.4	0.0
Recreation	0.2	0.0	-0.3	0.6	-0.1	-0.4	-0.5	1.5	-0.5	-0.9	0.4	0.2	0.0	-1.2	-0.1	1.6	2.7	1.5	0.0	0.0	-6.4	6.2	0.0	24.1
Education & Communication	-17.2	-0.2	-0.1	0.0	0.0	-0.8	0.0	0.0	0.0	-4.5	0.2	-0.4	0.6	0.2	0.0	0.5	-0.5	0.3	0.9	0.0	0.0	0.0	0.9	4.3
Other Goods & Services	2.0	2.9	1.2	4.6	0.0	-1.2	0.0	0.0	0.0	0.5	0.7	0.0	1.1	1.1	0.5	-0.5	0.4	-0.4	7.6	2.3	0.4	0.0	0.0	-0.2

Chart 11: Quarterly inflation, Rota: Qtr2 2010 – Qtr1 2016

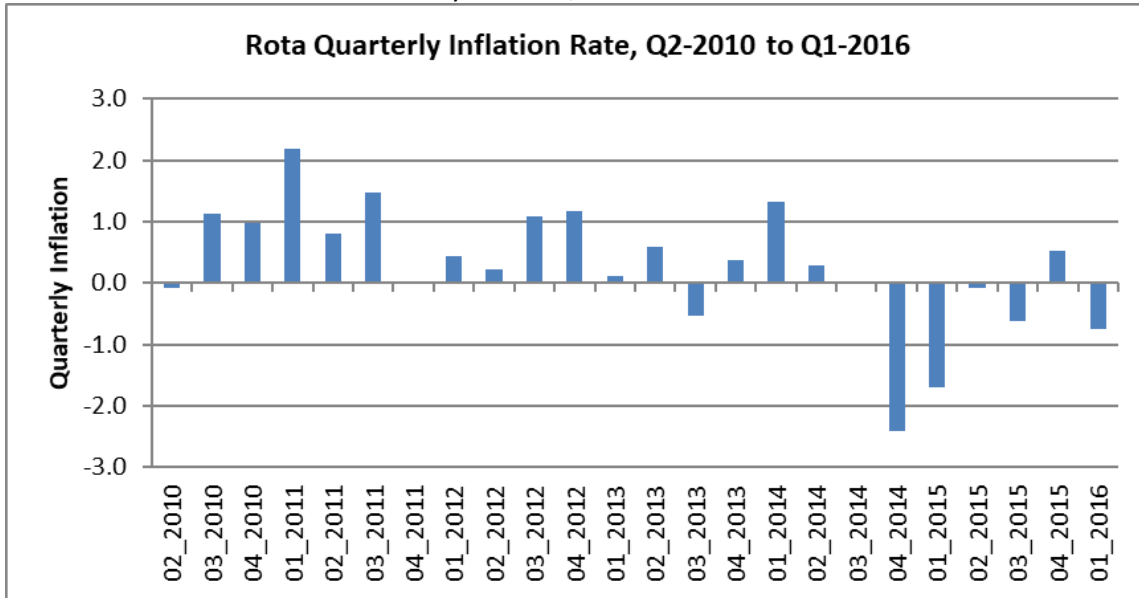
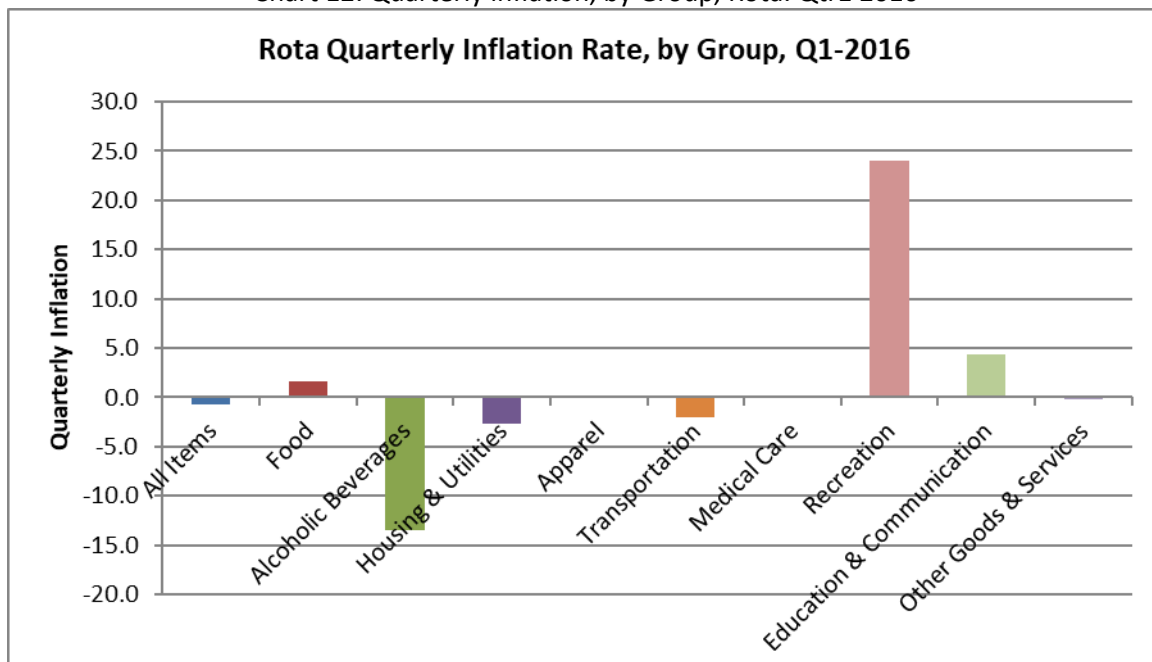


Chart 12: Quarterly inflation, by Group, Rota: Qtr1 2016



Section 2 – Annual Inflation

Table 8 below shows the annual inflation for Rota for the last 5 years ending 1st quarter 2016. As can be seen from the table, there was a decrease in the annual inflation for All Items in 1st quarter 2016.

Chart 14 shows additional annual inflation analysis by group for the 1st quarter 2016. From this graph it can be clearly seen that “Recreation” group had the highest annual increase of 23.3 percent followed by “Education & Communication” and “Food” groups with 5.3 percent and 4.6 percent respectively. “Housing & Utilities” group had the largest decrease by 3.2 percent.

Table 8: Annual inflation, by group, Rota: Qtr1 2012 – Qtr1 2016

Group	1st Qtr 2012	1st Qtr 2013	1st Qtr 2014	1st Qtr 2015	1st Qtr 2016
All Items	2.7	2.6	1.7	-3.8	-0.9
Food	3.0	0.8	6.9	0.7	4.6
Alcoholic Beverages	1.0	0.0	27.2	-16.5	-0.1
Housing & Utilities	0.6	4.8	0.0	-9.7	-3.2
Apparel	-0.6	-6.3	1.4	1.4	3.6
Transportation	9.3	2.8	-1.3	-2.4	-10.3
Medical Care	11.7	5.0	2.8	-1.0	0.4
Recreation	0.4	-0.8	0.2	4.3	23.3
Education & Communication	-0.8	-4.7	1.3	0.7	5.3
Other Goods & Services	-1.2	1.2	2.2	10.1	0.1

Chart 13: Annual inflation, Rota: Qtr1 2012 – Qtr1 2016

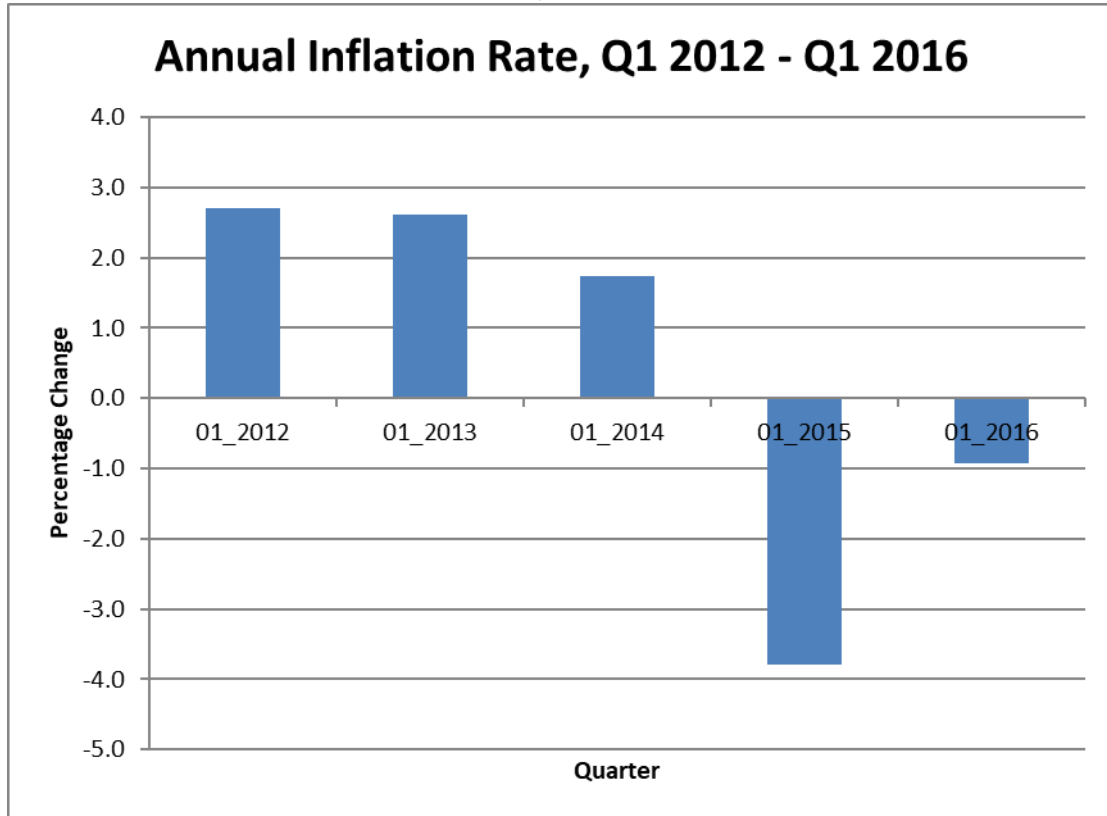
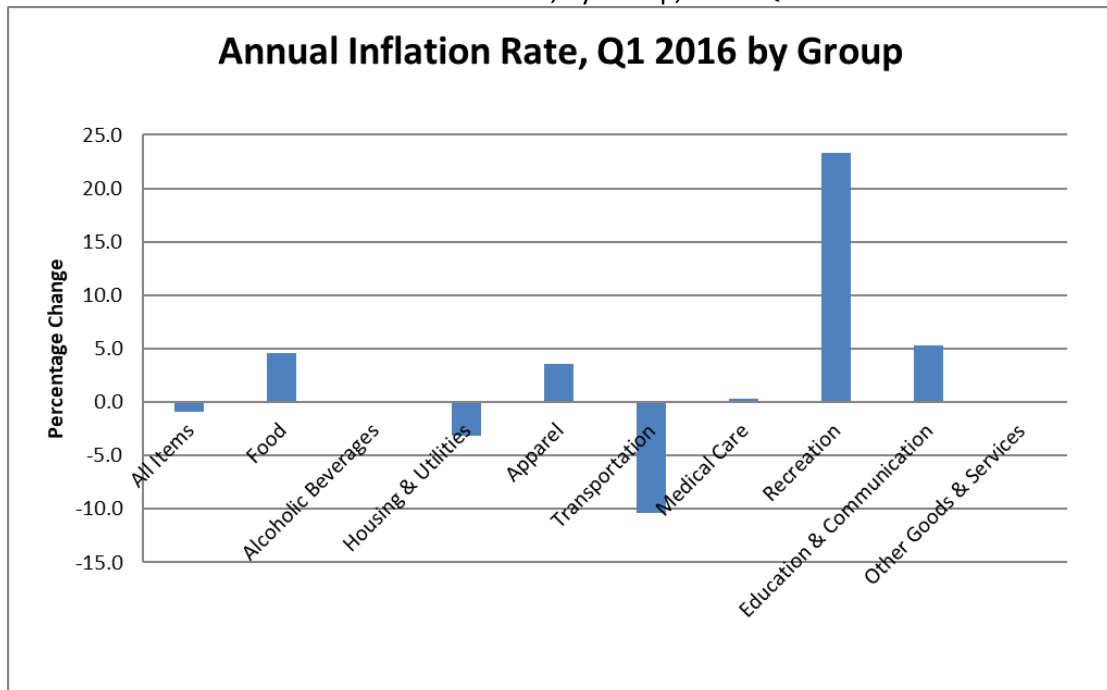


Chart 14: Annual inflation, by Group, Rota: Qtr1 2016



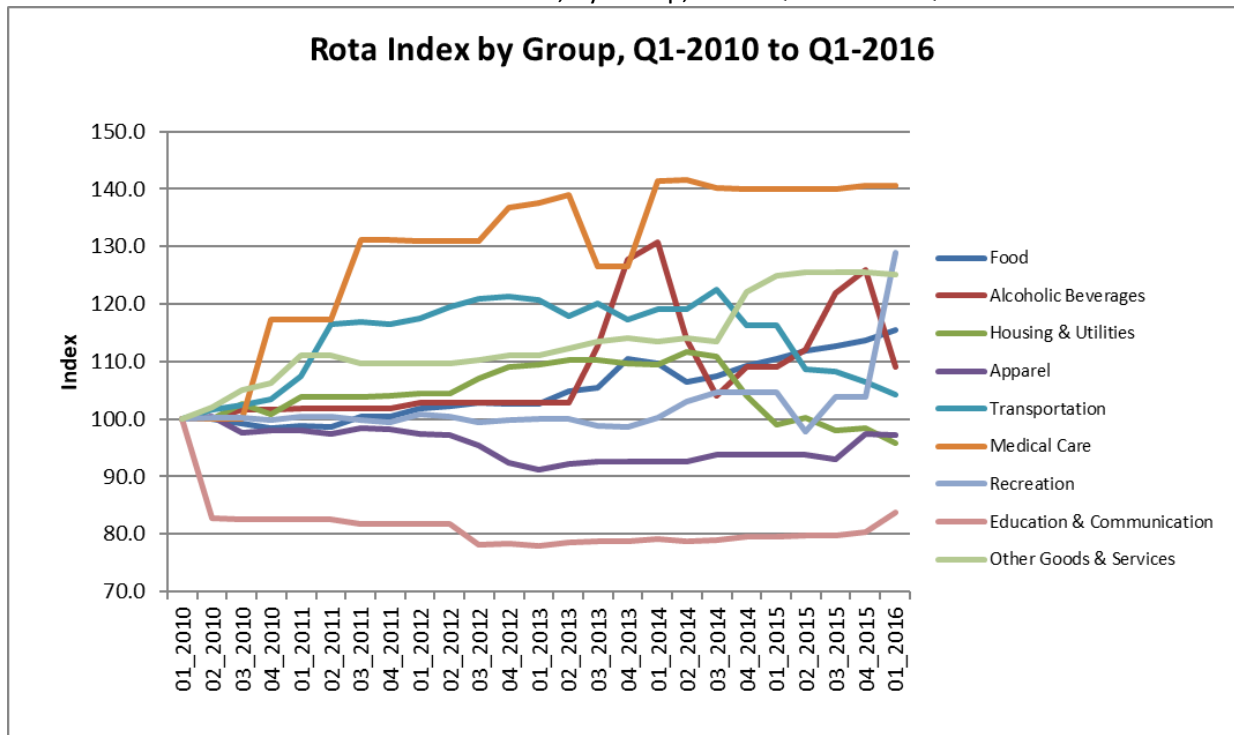
Section 3 – Further Analysis of the Index

Table 9 and Chart 15 below show the change in the index since the CPI was established in 1st Quarter 2010. The analysis shows that "Medical Care" has had the most significant increase with the index rising by about 40 percent during this period, while both "Recreation" and "Other Goods & Services" followed with an increase of about 29 percent and 25 percent, respectively, during this time.

Table 9: Consumer Price Index, by group, Rota: Qtr1 2010 – Qtr1 2016

Group	1st Qtr 2010	2nd Qtr 2010	3rd Qtr 2010	4th Qtr 2010	1st Qtr 2011	2nd Qtr 2011	3rd Qtr 2011	4th Qtr 2011	1st Qtr 2012	2nd Qtr 2012	3rd Qtr 2012	4th Qtr 2012	1st Qtr 2013	2nd Qtr 2013	3rd Qtr 2013	4th Qtr 2013	1st Qtr 2014	2nd Qtr 2014	3rd Qtr 2014	4th Qtr 2014	1st Qtr 2015	2nd Qtr 2015	3rd Qtr 2015	4th Qtr 2015	1st Qtr 2016
All Items	100.0	99.9	101.0	102.0	104.2	105.1	106.6	106.6	107.1	107.3	108.5	109.7	109.9	110.5	109.9	110.3	111.8	112.1	112.1	109.4	107.5	107.4	106.8	107.3	106.5
Food	100.0	100.0	99.1	98.4	98.8	98.7	100.4	100.5	101.8	102.2	102.8	102.6	102.6	104.9	105.5	110.5	109.7	106.5	107.5	109.3	110.5	111.8	112.8	113.7	115.5
Alcoholic Beverages	100.0	100.0	101.6	101.6	101.8	101.8	101.8	101.8	102.8	102.8	102.8	102.8	102.8	102.8	112.7	127.7	130.7	113.9	104.0	109.0	109.1	112.0	122.0	125.9	109.0
Housing & Utilities	100.0	100.1	102.6	100.9	103.9	103.8	103.9	104.0	104.5	104.5	107.1	109.1	109.5	110.2	110.3	109.7	109.5	111.6	110.9	104.0	98.9	100.2	98.1	98.4	95.8
Apparel	100.0	100.5	97.7	98.0	98.0	97.5	98.4	98.3	97.4	97.2	95.3	92.3	91.2	92.2	92.6	92.7	92.5	93.8	93.9	93.8	93.8	93.0	97.3	97.2	
Transportation	100.0	101.6	102.5	103.5	107.5	116.4	116.9	116.5	117.5	119.5	120.9	121.3	120.8	118.0	120.0	117.4	119.2	119.1	122.5	116.3	116.3	108.8	108.2	106.4	104.3
Medical Care	100.0	100.0	100.0	117.3	117.3	131.1	131.1	131.0	131.0	131.0	136.7	137.6	138.9	126.5	126.5	141.4	141.6	140.2	140.1	140.1	140.1	140.1	140.1	140.6	140.6
Recreation	100.0	100.2	100.2	99.8	100.5	100.3	99.9	99.4	100.9	100.4	99.5	99.8	100.1	100.1	98.8	98.7	100.3	103.0	104.6	104.6	97.8	103.9	103.9	128.9	
Education & Communication	100.0	82.8	82.6	82.5	82.5	82.5	81.8	81.8	81.8	81.8	78.2	78.3	78.0	78.5	78.7	78.7	79.1	78.7	78.9	79.6	79.6	79.7	79.7	80.4	83.9
Other Goods & Services	100.0	102.0	105.0	106.2	111.0	111.0	109.7	109.7	109.7	109.7	110.3	111.1	111.1	112.3	113.6	114.1	113.6	114.0	113.6	122.2	125.0	125.5	125.5	125.5	125.2

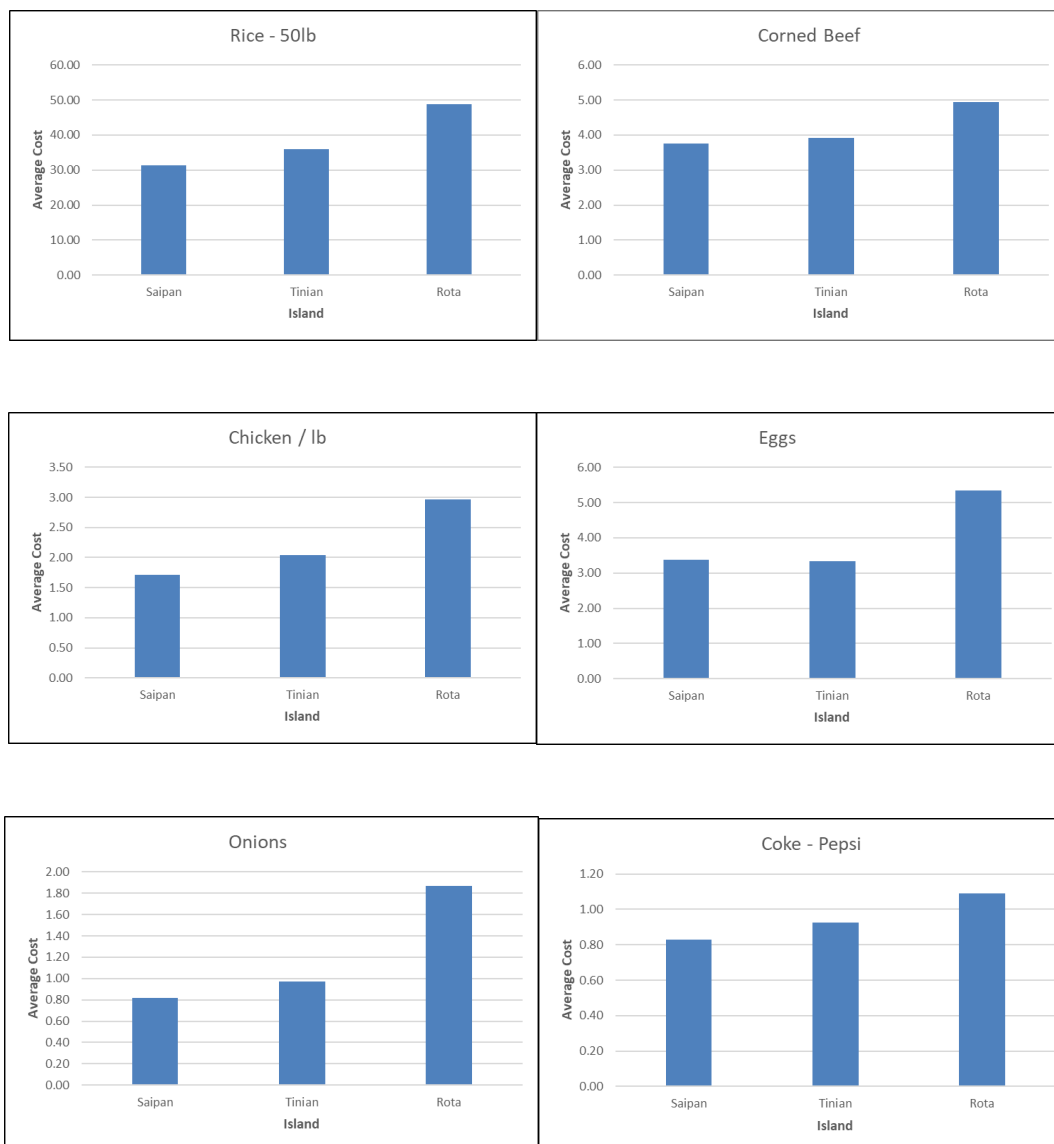
Chart 15: Consumer Price Index, by Group, Rota: Qtr1 2010 – Qtr1 2016

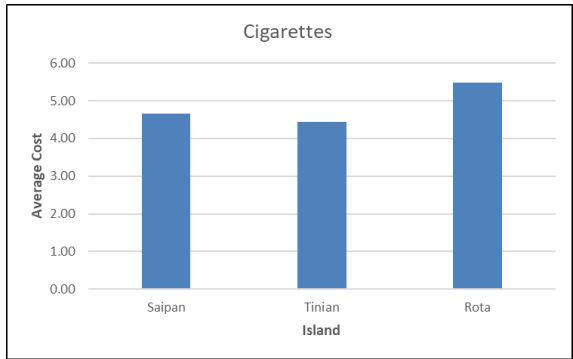
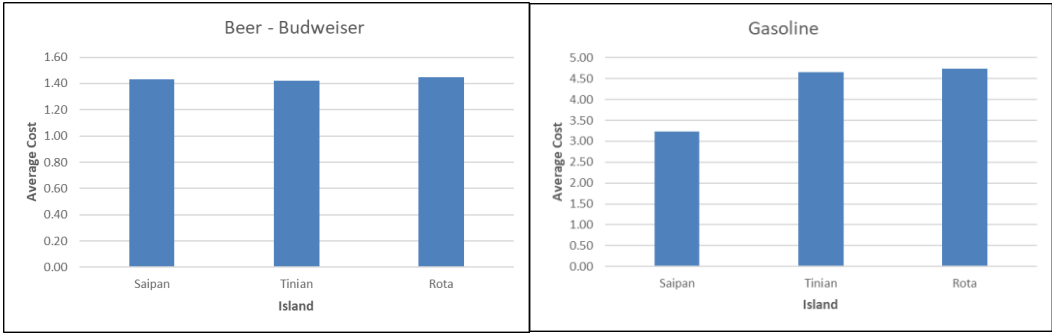


Analysis—Comparison across Islands (selected items)

The following analysis does a comparison of average prices for selected items across the three main islands of CNMI for 1st Quarter of 2016. The items were chosen based on their significance to household expenditure, as well as the feasibility to compare the items suitably across the three islands.

As can be seen from the analysis, Saipan, has the cheapest prices in general for these selected key items, followed by Tinian, with the prices in Rota generally being the most expensive.





Appendix 1 – Saipan Index

(Q1-2003 to Q1-2016)

Year.Qtr	All Items	Food	Alcoholic Beverages	Housing & Utilities	Apparel	Transportation	Medical Care	Recreation	Education & Communication	Other Goods & Services
Weights	100.0	17.1	1.4	30.4	6.1	22.2	10.7	3.4	5.6	3.1
2003.01	79.4	76.0	87.3	63.3	92.6	94.7	86.8	95.2	96.4	85.7
2003.02	79.3	76.3	87.5	63.3	92.8	94.4	86.8	94.6	96.2	85.7
2003.03	79.2	76.5	87.3	62.8	93.5	94.4	86.8	94.3	96.6	85.7
2003.04	79.1	76.4	87.2	62.0	93.1	95.2	86.8	91.7	96.0	85.7
2004.01	79.6	78.4	87.2	62.3	93.4	95.2	86.8	91.0	96.0	85.7
2004.02	80.1	79.2	87.1	61.9	92.4	95.6	86.8	96.7	96.0	92.8
2004.03	79.8	80.0	87.4	61.7	88.4	94.7	86.8	94.2	95.2	92.8
2004.04	80.4	81.7	87.2	62.1	85.8	94.9	86.8	93.9	97.3	92.8
2005.01	80.4	81.3	87.3	62.2	90.8	95.3	86.8	94.1	94.5	92.8
2005.02	80.7	81.9	88.4	62.2	89.5	95.4	86.8	96.6	94.9	92.9
2005.03	80.8	82.2	88.8	62.3	86.2	95.7	86.9	96.0	96.2	92.9
2005.04	81.3	81.8	88.8	63.8	85.7	95.7	86.7	96.8	97.2	92.9
2006.01	82.4	82.8	89.2	64.8	97.2	96.0	92.3	99.3	97.8	92.9
2006.02	82.6	82.9	89.2	65.5	97.7	96.0	92.3	99.9	97.8	92.9
2006.03	91.6	83.8	89.3	90.7	98.7	96.0	92.3	102.0	97.9	92.9
2006.04	92.2	85.5	89.3	91.2	98.9	96.0	92.3	100.8	98.3	92.9
2007.01	92.7	86.9	92.7	91.5	100.5	96.0	92.3	101.2	98.7	92.9
2007.02	94.7	88.1	92.7	96.7	100.8	96.0	93.3	101.3	98.6	92.9
2007.03	94.8	88.5	92.7	96.7	101.0	96.0	93.3	101.8	98.6	92.9
2007.04	95.1	89.4	93.1	97.0	101.0	96.0	93.3	102.0	98.6	92.9
2008.01	93.8	93.1	95.1	90.6	101.2	96.0	100.0	103.6	98.5	92.9
2008.02	105.0	93.5	95.8	120.2	100.1	99.2	100.0	100.5	98.5	92.9
2008.03	103.9	97.5	99.2	116.3	99.5	95.9	97.1	100.0	99.5	100.0
2008.04	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2009.01	100.0	100.9	97.8	98.9	100.0	100.5	101.6	100.0	97.2	101.5
2009.02	101.6	102.3	106.0	100.4	100.0	103.9	101.6	103.2	97.0	101.5
2009.03	101.9	104.9	106.5	97.6	103.4	105.3	98.4	103.6	105.5	102.5
2009.04	105.4	104.5	106.5	106.6	104.3	108.4	98.4	103.8	105.8	103.0
2010.01	106.0	102.9	107.5	105.7	102.7	113.7	100.5	101.6	105.1	102.6
2010.02	106.6	103.4	107.5	106.8	100.2	114.5	100.5	102.4	105.1	104.4
2010.03	106.9	103.0	107.5	106.9	100.1	116.9	99.5	101.4	104.9	104.3
2010.04	111.2	104.4	110.3	108.0	100.3	123.9	119.3	101.2	104.5	106.2
2011.01	109.7	106.5	111.0	100.7	99.7	124.5	119.2	102.7	104.2	112.2
2011.02	110.5	109.3	111.0	101.1	99.3	125.8	119.2	102.6	104.2	112.4
2011.03	113.7	110.8	111.5	102.3	100.1	129.1	135.1	102.6	104.6	112.7
2011.04	113.8	110.3	106.6	102.9	101.4	129.3	135.1	101.6	105.2	112.9
2012.01	114.4	110.2	110.3	103.0	100.2	131.4	135.0	104.3	105.0	113.1
2012.02	113.5	110.4	111.9	102.4	99.6	126.9	137.8	104.3	103.9	113.3
2012.03	113.8	110.5	112.4	101.6	97.4	129.3	139.2	104.1	104.4	113.4
2012.04	115.0	110.3	112.4	103.3	95.9	131.9	141.5	104.0	104.9	113.4
2013.01	113.7	110.5	114.4	103.6	95.6	127.6	143.1	103.5	94.3	113.4
2013.02	113.6	110.7	114.4	103.7	94.8	126.6	143.1	103.5	94.3	113.4
2013.03	112.4	112.2	116.6	103.7	94.3	127.3	128.3	103.1	94.5	113.7
2013.04	112.1	112.2	116.6	103.5	94.3	126.5	128.3	103.0	94.5	113.5
2014.01	112.7	114.3	117.7	102.9	95.2	127.9	128.6	103.3	93.1	113.6
2014.02	113.6	115.1	119.3	104.4	95.3	128.8	128.7	105.6	93.1	113.6
2014.03	112.8	115.2	119.3	102.4	93.7	128.8	128.8	103.4	93.5	113.6
2014.04	113.3	119.1	119.9	99.0	94.0	130.8	129.0	103.4	93.2	126.3
2015.01	109.4	120.0	119.9	92.3	95.1	120.4	129.0	103.2	93.2	131.7
2015.02	110.3	120.0	119.9	94.5	95.1	121.6	129.0	102.9	93.2	131.7
2015.03	108.6	119.7	123.0	91.5	95.1	118.3	129.0	102.9	93.3	131.8
2015.04	108.7	120.1	123.0	91.6	95.1	118.3	129.0	102.9	93.3	131.8
2016.01	109.0	119.6	123.0	88.0	95.1	116.1	129.3	148.5	99.8	131.6

Appendix 2 – Saipan Quarterly Change (Q2-2003 to Q1-2016)

Year.Qtr	All Items	Food	Alcoholic Beverages	Housing & Utilities	Apparel	Transportation	Medical Care	Recreation	Education & Communication	Other Goods & Services
Weights	100.0	17.1	1.4	30.4	6.1	22.2	10.7	3.4	5.6	3.1
2003.01										
2003.02	-0.1	0.3	0.2	0.0	0.2	-0.3	0.0	-0.7	-0.2	0.0
2003.03	-0.1	0.4	-0.2	-0.8	0.8	0.0	0.0	-0.3	0.4	0.0
2003.04	-0.2	-0.1	-0.1	-1.3	-0.4	0.8	0.0	-2.8	-0.6	0.0
2004.01	0.6	2.6	0.0	0.4	0.4	0.0	0.0	-0.7	-0.1	0.0
2004.02	0.7	1.0	-0.2	-0.6	-1.1	0.4	0.0	6.2	0.1	8.3
2004.03	-0.4	1.1	0.4	-0.3	-4.3	-0.9	0.0	-2.6	-0.9	0.0
2004.04	0.7	2.1	-0.2	0.6	-3.0	0.2	0.0	-0.3	2.2	0.0
2005.01	0.1	-0.5	0.1	0.2	5.8	0.4	0.0	0.2	-2.9	0.0
2005.02	0.3	0.7	1.3	0.1	-1.4	0.1	0.0	2.7	0.4	0.0
2005.03	0.2	0.3	0.4	0.1	-3.6	0.3	0.1	-0.7	1.4	0.0
2005.04	0.6	-0.4	0.1	2.3	-0.6	0.0	-0.2	0.8	1.1	0.0
2006.01	1.3	1.1	0.5	1.6	13.4	0.3	6.5	2.6	0.6	0.0
2006.02	0.3	0.1	0.0	1.0	0.5	0.0	0.0	0.6	0.0	0.0
2006.03	10.9	1.1	0.0	38.5	1.0	0.0	0.0	2.1	0.1	0.0
2006.04	0.6	2.0	0.1	0.6	0.3	0.0	0.0	-1.1	0.5	0.0
2007.01	0.5	1.7	3.8	0.3	1.6	0.0	0.0	0.3	0.4	0.0
2007.02	2.2	1.3	0.0	5.6	0.3	0.0	1.1	0.1	-0.2	0.0
2007.03	0.1	0.4	0.0	0.1	0.2	0.0	0.0	0.4	0.0	0.0
2007.04	0.3	1.0	0.4	0.3	0.0	0.0	0.0	0.3	0.0	0.0
2008.01	-1.4	4.2	2.1	-6.7	0.1	0.0	7.1	1.5	-0.1	0.0
2008.02	11.9	0.3	0.8	32.7	-1.1	3.4	0.0	-2.9	0.0	0.0
2008.03	-1.0	4.3	3.5	-3.2	-0.6	-3.3	-2.9	-0.5	1.0	7.7
2008.04	-3.8	2.6	0.8	-14.0	0.5	4.3	3.0	0.0	0.5	0.0
2009.01	0.0	0.9	-2.2	-1.1	0.0	0.5	1.6	0.0	-2.8	1.5
2009.02	1.7	1.4	8.4	1.5	0.0	3.4	0.0	3.2	-0.1	0.0
2009.03	0.3	2.5	0.4	-2.8	3.4	1.3	-3.2	0.4	8.7	1.0
2009.04	3.4	-0.4	0.0	9.3	0.9	2.9	0.1	0.2	0.3	0.4
2010.01	0.6	-1.5	0.9	-0.9	-1.5	4.8	2.0	-2.1	-0.7	-0.4
2010.02	0.5	0.4	0.0	1.1	-2.5	0.7	0.1	0.8	0.0	1.7
2010.03	0.3	-0.4	0.0	0.1	-0.1	2.1	-1.0	-0.9	-0.2	-0.1
2010.04	4.0	1.3	2.6	1.0	0.2	6.0	19.9	-0.3	-0.4	1.9
2011.01	-1.4	2.0	0.7	-6.7	-0.6	0.4	-0.1	1.5	-0.3	5.6
2011.02	0.8	2.6	0.0	0.3	-0.4	1.1	0.0	-0.2	0.0	0.2
2011.03	2.8	1.4	0.4	1.2	0.8	2.6	13.3	0.0	0.4	0.2
2011.04	0.1	-0.4	-4.4	0.5	1.3	0.1	0.0	-0.9	0.6	0.2
2012.01	0.5	-0.1	3.4	0.1	-1.2	1.6	-0.1	2.7	-0.2	0.2
2012.02	-0.8	0.2	1.5	-0.6	-0.6	-3.4	2.1	0.0	-1.1	0.2
2012.03	0.3	0.0	0.5	-0.8	-2.2	1.8	1.0	-0.2	0.5	0.1
2012.04	1.1	-0.2	0.0	1.7	-1.5	2.0	1.7	-0.1	0.4	0.0
2013.01	-1.1	0.2	1.7	0.3	-0.3	-3.3	1.1	-0.5	-10.1	0.0
2013.02	-0.2	0.2	0.0	0.1	-0.9	-0.7	0.0	0.0	0.0	0.0
2013.03	-1.0	1.3	2.0	0.0	-0.5	0.6	-10.3	-0.4	0.3	0.3
2013.04	-0.2	0.0	0.0	-0.2	0.0	-0.7	0.0	-0.1	0.0	-0.2
2014.01	0.5	1.8	0.9	-0.5	1.0	1.1	0.2	0.4	-1.5	0.1
2014.02	0.8	0.7	1.4	1.4	0.1	0.7	0.1	2.2	0.0	0.0
2014.03	-0.6	0.1	0.0	-1.9	-1.7	0.0	0.1	-2.1	0.5	0.0
2014.04	0.4	3.4	0.5	-3.3	0.3	1.6	0.1	0.0	-0.4	11.2
2015.01	-3.5	0.7	0.0	-6.7	1.2	-8.0	0.0	-0.2	0.0	4.3
2015.02	0.9	0.1	0.0	2.4	0.0	1.0	0.0	-0.3	0.0	0.0
2015.03	-1.5	-0.3	2.6	-3.2	0.0	-2.7	0.0	-0.1	0.1	0.1
2015.04	0.1	0.3	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
2016.01	0.3	-0.4	0.0	-3.8	0.0	-1.9	0.3	44.4	7.0	-0.1

Appendix 3 – CPI Weights for each Island

ALL GROUPS	Saipan	Tinian	Rota
Food	17.1083	21.0482	12.9058
Cereal Products	2.7052	4.6227	2.6345
Meat Products	4.0402	6.0270	3.1488
Seafood Produce	1.4994	0.8986	N/A
Dairy Produce	1.5335	2.0349	1.4826
Fruit	0.3195	0.5851	0.0762
Vegetables	1.0487	1.1897	0.9914
Non-alcoholic Beverages	1.6493	2.8072	1.5779
Confectionery	0.3072	0.2004	0.2269
Miscellaneous Food	0.5690	1.2973	0.5522
Take-away Food	3.4363	1.3853	2.2153
Alcoholic Beverages	1.3768	3.1933	1.5890
Alcoholic Beverages	1.3768	3.1933	1.5890
Housing & Utilities	30.3859	31.1513	44.6249
Housing	15.1278	7.8888	13.7889
Utilities	10.0594	12.0407	14.5987
Household Goods/Furniture	1.0887	5.3456	2.0813
Household Maintenance	4.1101	5.8762	14.1559
Apparel	6.1443	8.7016	7.8026
Mens Clothng	1.7022	2.9283	1.5850
Womens Clothing	2.0195	3.0038	2.4739
Infant Clothing	0.6881	0.5074	0.7567
Footwear	1.2561	1.8681	2.5288
Accessories	0.4783	0.3942	0.4582
Transportation	22.2282	7.9752	10.3137
Vehicle Purchase	13.8896	0.4586	2.1391
Vehicle Maintenance	7.2386	5.3267	7.6918
Public Transport	1.1000	2.1900	0.4827
Medical Care	10.6622	10.8923	9.3760
Medical Supplies	1.2291	1.3909	2.3924
Medical Services	9.4330	9.5014	6.9836
Recreation	3.3994	4.0032	2.2680
Recreation	3.3994	4.0032	2.2680
Education & Communication	5.6292	5.7111	2.9257
Education	0.6395	0.6188	0.4815
Communication	4.9897	5.0923	2.4442
Other Goods & Services	3.0656	7.3237	8.1944
Cigarettes & BetelNut	1.7380	2.6558	4.1746
Other Goods	0.5353	0.4458	0.3478
Other Services	0.7923	4.2221	3.6719