CNMI Labor Force Participation Housing Characteristics

Commonwealth of the Northern Mariana Islands

4th Quarter, 2017

CNMI Department of Commerce

Central Statistics Division

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Contents

INTRODUCTION AND ORGANIZATION

This report presents the findings of the housing characteristics from the 2017 CNMI Labor Force Survey (LFS). Even though the survey was called the 2017 CNMI Labor Force Survey, the survey questionnaire included both housing and population questions. (See Appendix B for a copy of the survey questionnaire.) The questionnaire included 30 main questions on housing with sub-items under some of them. In this report, the finding on each of these characteristics (variables) is shown for the whole CNMI (CNMI total), by island, and by district. Organizationally, each characteristic is titled and identified by a number to promote independence and ease of reference. The housing characteristics and identifications are in the table below. Note that related items are indicated by decimals; for example, *water heater energy source*, numbered *9.2* is related to *hot and cold water* numbered *9.1*.

Housing Characteristic	ID	Housing Characteristic	ID
Building type	1	Trash collection service	18.1
Occupancy type	2	Monthly bill for trash collection service	18.2
Rent	3	Air conditioning	19
Year built	4	Battery operated radio	20
Wall material	5	Television set	21.1
Roof material	6	Cable TV	21.2
Number of rooms	7	Computer at home	22
Number of bedrooms	8	Internet access	23
Hot and cold water	9.1	Landline at home	24
Water heater energy source	9.2	Cellular phone at home	25.1
Complete plumbing	10	Number of persons with cell	25.2
Fuel used most for cooking	11	Number of vehicles	26
Complete kitchen	12	Number of boats	27
Microwave	13	Monthly bill for cooking gas	28
Stand-alone freezer	14	Monthly bill for water	29
Source of water	15	Water from public utility	30
Purchase drinking water	16	Value of owned units	31
Public sewer connection	17		

Each housing characteristic findings are presented in the same table and chart formats for consistency and ease: each table shows the estimated proportion or percentage, both percent within (column) and percent by (row), and the estimated population numbers. The proportions or percentage within are also shown in *100% Stacked Column* chart to facilitate comparisons. The discussion of the findings focuses on the percentages--and on medians and means when appropriate. While the estimated population numbers are not included in the text discussions, and not shown in charts, they are contained in the appropriate table.

While findings are separate and specific to each of the housing characteristics, one important underlying fact is evident across all characteristics: there is a strong correlation between Saipan estimated statistics and those of the CNMI total (CNMI as whole). This is because the total occupied housing units in Saipan comprised 90% of all housing units in the whole CNMI; hence, Saipan's share greatly influences the estimates for the CNMI total. In the discussion of each housing characteristic findings, this underlying fact

is not repeated, but it is evident in *percent within* (column) in the tables and charts. The fact that Saipan's share of total occupied housing units was 90% is shown in the *percent by* (row) in each of the tables.

SURVEY METHODOLOGY

The methodology for the 2017 CNMI LFS has been documented in a prior report and is attached as Appendix A in this report. Please see Appendix A for detail.

FINDINGS ON HOUSING CHARACTERISTICS

CNMI Occupied Housing Units by Building Type **H1**

CNMI Total

One-family house detached from any other house was 45.9% of all occupied housing units in the CNMI in 2017. Units in a building with 2 to 10 apartments was 34.7%; unit in a building with more than 10 apartment units was 10.8%; one-family house attached to one or more houses was 7.4%, other types[1] of units was 1.3%.

Chart H1.1 Occupied Units by Building Type Percent
Distribution by District: CNMI 2017

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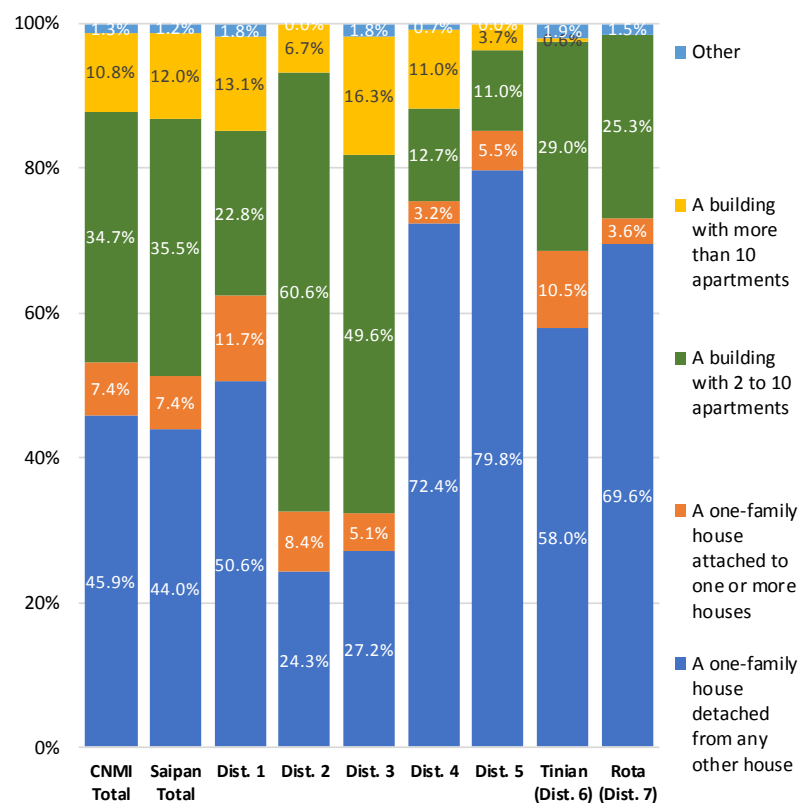
[1] Other type includes buildings that were used as rooms for rent or for company employee housing (barracks).

<u>By Island</u>

In Saipan, one-family house detached from any other house was 44.0% of all occupied housing units; unit in a building with 2 to 10 apartments was 35.5%; unit in a building with more than 10 apartment units was 12.0%; one-family house attached to one or more houses was 7.4%; while other building types was 1.2%. Single-family house detached from any other house percentage was higher in Rota (69.6%) and Tinian (58.0%). In other words, Saipan has relatively more apartment-type units while Rota and Tinian had relatively more single-family type units. Almost all buildings in the CNMI with more than 10 apartment units (99.7%) were in Saipan.

<u>By Saipan Districts</u>

Within Saipan, single-family house detached from any other house percentage was higher in Districts 5 (79.8%) and 4 (72.4%) and relatively lower in Districts 2 (24.3%) and 3 (27.2%) and was just over half in District 1 (50.6%). See Table H.1.0 and Chart H.1.1 for detail.

Table H1.1 Occupied Housing Units by Building Type, by Island, and by District: CNMI, 2017 4th Qtr.

Building Type	CNMI Total	Saipan						Tinian (Dist. 6)	Rota (Dist. 7)
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
A one-family house detached from any other house	7,669	6,615	2,193	497	1,502	812	1,611	522	532
A one-family house attached to one or more houses	1,230	1,108	508	173	282	35	110	94	28
A building with 2 to 10 apartments	5,791	5,338	987	1,243	2,742	143	223	260	193
A building with more than 10 apartments	1,805	1,799	566	138	898	123	74	6	-
Other	213	185	78	-	98	8	-	17	11
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
				Percent within					
A one-family house detached from any other house	45.9%	44.0%	50.6%	24.3%	27.2%	72.4%	79.8%	58.0%	69.6%
A one-family house attached to one or more houses	7.4%	7.4%	11.7%	8.4%	5.1%	3.2%	5.5%	10.5%	3.6%
A building with 2 to 10 apartments	34.7%	35.5%	22.8%	60.6%	49.6%	12.7%	11.0%	29.0%	25.3%
A building with more than 10 apartments	10.8%	12.0%	13.1%	6.7%	16.3%	11.0%	3.7%	0.6%	0.0%
Other	1.3%	1.2%	1.8%	0.0%	1.8%	0.7%	0.0%	1.9%	1.5%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
				Percent by					
A one-family house detached from any other house	100.0%	86.3%	28.6%	6.5%	19.6%	10.6%	21.0%	6.8%	6.9%
A one-family house attached to one or more houses	100.0%	90.1%	41.3%	14.1%	22.9%	2.9%	9.0%	7.6%	2.2%
A building with 2 to 10 apartments	100.0%	92.2%	17.0%	21.5%	47.3%	2.5%	3.8%	4.5%	3.3%
A building with more than 10 apartments	100.0%	99.7%	31.3%	7.6%	49.8%	6.8%	4.1%	0.3%	0.0%
Other	100.0%	86.7%	36.8%	0.0%	46.2%	3.8%	0.0%	8.0%	5.2%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Occupancy Type   H2

<u>CNMI Total</u>

Units rented for cash was 54.7% of all occupied housing units in the CNMI in 2017; units occupied without cash payment was 20.1%; units owned free and clear was 18.6%; while units owned with a mortgage or loan was about 6.6%.

<u>By Island</u>

The percentage of all occupied housing units rented for cash was highest in Saipan (56.3%), followed by Tinian (48.5%) and lowest in Rota (30.7%). The percentage of all occupied units occupied without cash payment was highest in Rota (32.7%), followed by Tinian (30.9%), and was lowest in Saipan (20.1%). The percentage owned free and clear was highest in Rota (32.7%), followed by Saipan (18.6%), and lowest in Tinian (15.5%). The percentage owned with a mortgage or loan was highest in Saipan (6.6%), followed by Tinian (5.1%), and lowest in Rota (3.9%).

Chart H2.1 Occupied Units by Occupancy-Type Percent Distribution by District: CNMI 2017
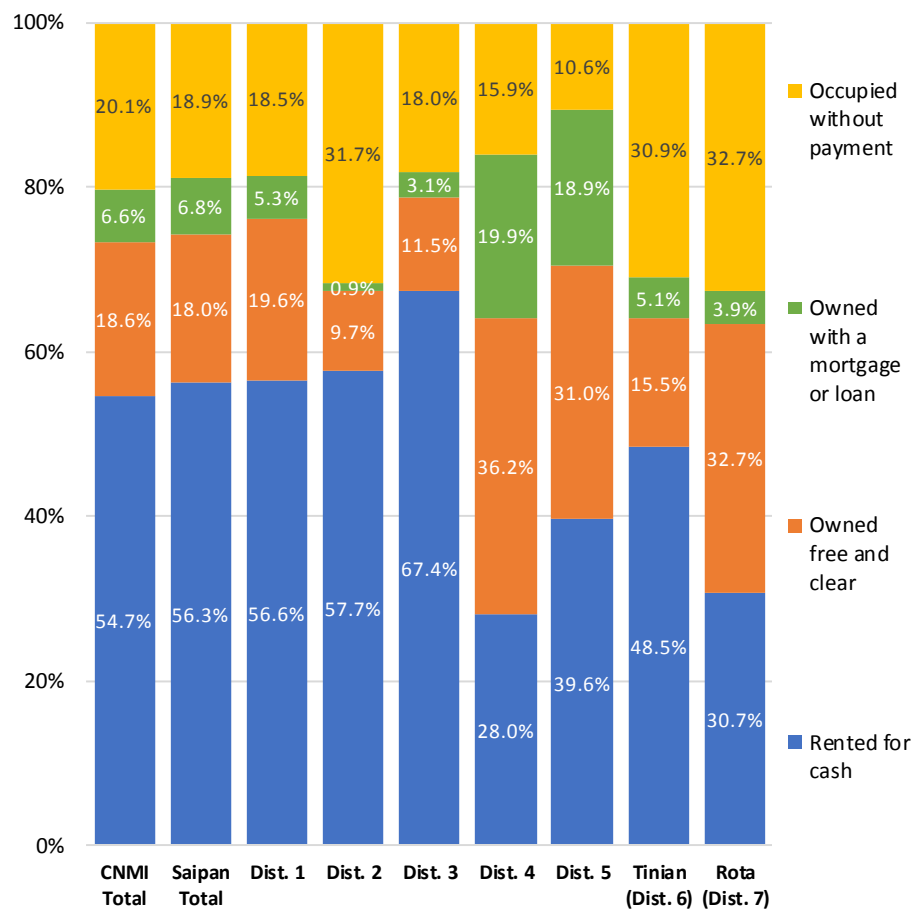
By Saipan Districts

Within Saipan, units rented for cash percentage was highest in District 3 (67.4%) followed by District 2 (57.7%) and District 1 (56.6%), while relatively lower in District 5 (39.6%) and District 4 (28.0%). Owner occupied units' percentage was higher in Districts 4 (56.1%) and 5 (49.9%) and lower in Districts 1 (24.9%), 3 (14.6%), and 2 (10.6%). See Chart H2.1 and Table H2.1 for detail.

Table H.2.0 Occupied Housing Unit by Occupancy Type, by Island, and by District: CNMI, 2017 4th Qtr.

| Occupancy Type | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Owned with a mortgage or loan	1,102	1,026	231	19	171	223	381	46	30
Owned free and clear	3,103	2,714	848	199	636	406	625	139	250
Rented for cash	9,137	8,467	2,451	1,183	3,719	314	799	436	234
Occupied without payment	3,366	2,838	802	649	996	178	213	278	250
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
				Percent within					
Owned with a mortgage or loan	*6.6%*	*6.8%*	*5.3%*	*0.9%*	*3.1%*	*19.9%*	*18.9%*	*5.1%*	*3.9%*
Owned free and clear	*18.6%*	*18.0%*	*19.6%*	*9.7%*	*11.5%*	*36.2%*	*31.0%*	*15.5%*	*32.7%*
Rented for cash	*54.7%*	*56.3%*	*56.6%*	*57.7%*	*67.4%*	*28.0%*	*39.6%*	*48.5%*	*30.7%*
Occupied without payment	*20.1%*	*18.9%*	*18.5%*	*31.7%*	*18.0%*	*15.9%*	*10.6%*	*30.9%*	*32.7%*
Grand Total	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*
				Percent by					
Owned with a mortgage or loan	*100.0%*	*93.1%*	*21.0%*	*1.7%*	*15.5%*	*20.3%*	*34.6%*	*4.2%*	*2.7%*
Owned free and clear	*100.0%*	*87.4%*	*27.3%*	*6.4%*	*20.5%*	*13.1%*	*20.1%*	*4.5%*	*8.1%*
Rented for cash	*100.0%*	*92.7%*	*26.8%*	*13.0%*	*40.7%*	*3.4%*	*8.7%*	*4.8%*	*2.6%*
Occupied without payment	*100.0%*	*84.3%*	*23.8%*	*19.3%*	*29.6%*	*5.3%*	*6.3%*	*8.2%*	*7.4%*
Grand Total	*100.0%*	*90.0%*	*25.9%*	*12.3%*	*33.1%*	*6.7%*	*12.1%*	*5.4%*	*4.6%*

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Rented Occupied Housing Units by Rent Amount H3

CNMI Total

The median rent was $200 and mean rent was $280, in the CNMI in 2017.

Units with cash rent of less than $200 was 39% of all rented for cash housing units in the CNMI in 2017; units with cash rent between $200 and $399 was 37%; units with cash rent between $400 and $599 was 18%; units with cash rent between $700 and $999 was 4% and units with cash rent of $1,000 or more was 2%.

By Island

Median and mean rent amounts were higher in Saipan, $250 and $304, respectively; followed by Tinian, $130 and $222, respectively; and were lowest in Rota, $100 and $131, respectively.

The percentage of all units with cash rent less than $200 was highest in Rota (83.8%); followed by Tinian 72.4%, and lowest in Saipan (35.6%). The percentage of units with cash rent between $200 and $399 was highest in Saipan (38.5%), followed by Tinian (23.2%) and lowest in Rota (14.0%). The percentage of units with cash rent $400 or more was relatively high in Saipan (26.0%) and low in Tinian (4.4%) and Rota (2.2%).

Chart H3.1 Median and Mean Rent Amount by Island and District: CNMI 2017
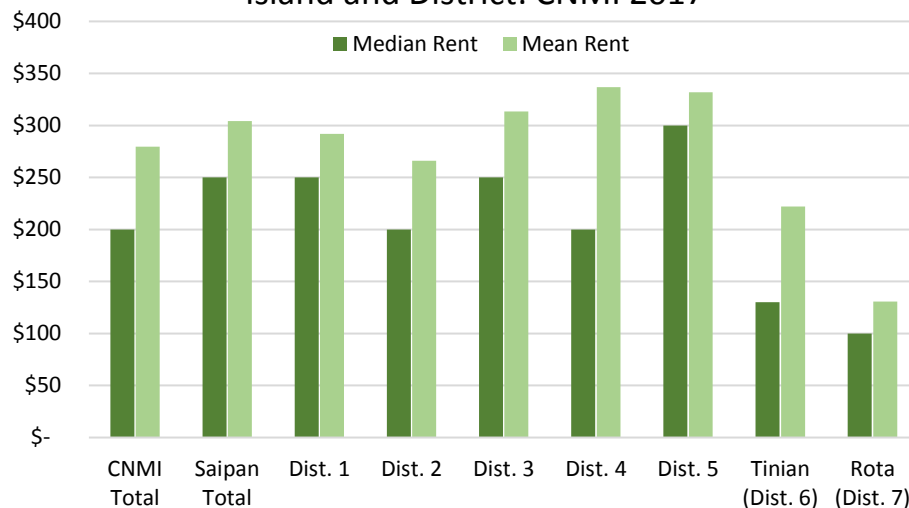
By Saipan Districts

Median rent was highest in District 5 ($300), followed by Districts 1 and 3 ($250) and lower in Districts 2 and 4 ($200). Mean rent amount was highest in District 4 ($337), followed by District 5 ($332), District 3 ($313), District 1 ($292), and lowest in District 2 ($266).

Within Saipan, percentage of units with cash rent less than $200 was highest in District 4 (43.5%), followed by District 2 (42.6%), District 1 (35.6%%) and District 3 (35.0%); and lowest in District 5 (22.2%). Percentage of units with cash rent between $200 and $399 was highest in District 5 (45.3%), followed by District 1 (44.5%), District 3 (35.3%%), District 2 (34.4%) and lowest in District 4 (28.6%). Percentage of units with cash rent between $400 and $699 was highest in District 5 (25.7%), followed by District 4

(22.9%), District 3 (21.2%), District 2 (18.1%); and lowest in District 1 (15.1%). Percentage of units with cash rent between $700 and $999 was highest in District 3 (5.0%), followed by District 2 (4.9%), District 5 (3.6%) and District 1 (3.2%). Percentage of units with cash rent of $1,000 and above was highest in District 4 (5.1%), followed by District 3 (3.5%), District 5 (3.2%) and District (0.8%). See Chart H3.1 and Table H3.1 for detail.

Chart H3.1 Rented Occupied Units by Rent Amount
Percent Distribution by District: CNMI 2017
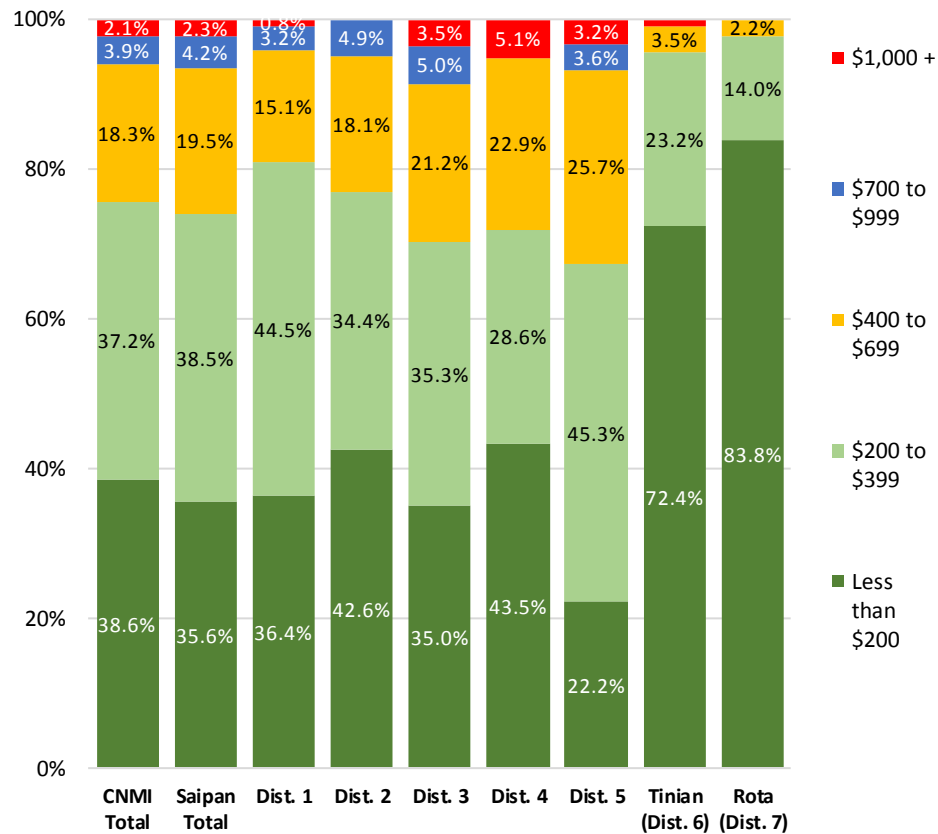
Table H.3.1 Rented Occupied Housing Units by Rent Amount, by Island, and by District: CNMI, 2017 4th Qtr.

| Rent Amount | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Less than $200	3,524	3,012	891	504	1,302	137	177	316	196
$200 to $399	3,395	3,261	1,091	407	1,312	90	362	101	33
$400 to $699	1,671	1,651	371	215	788	72	206	15	5
$700 to $999	352	352	79	58	187	-	28	-	-
$1,000 +	195	191	19	-	130	16	26	4	-
Grand Total	9,137	8,467	2,451	1,183	3,719	314	799	436	234
Median Rent	$ 200	$ 250	$ 250	$ 200	$ 250	$ 200	$ 300	$ 130	$ 100
Mean Rent	$ 280	$ 304	$ 292	$ 266	$ 313	$ 337	$ 332	$ 222	$ 131
				Percent within					
Less than $200	38.6%	35.6%	36.4%	42.6%	35.0%	43.5%	22.2%	72.4%	83.8%
$200 to $399	37.2%	38.5%	44.5%	34.4%	35.3%	28.6%	45.3%	23.2%	14.0%
$400 to $699	18.3%	19.5%	15.1%	18.1%	21.2%	22.9%	25.7%	3.5%	2.2%
$700 to $999	3.9%	4.2%	3.2%	4.9%	5.0%	0.0%	3.6%	0.0%	0.0%
$1,000 +	2.1%	2.3%	0.8%	0.0%	3.5%	5.1%	3.2%	0.9%	0.0%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
				Percent by					
Less than $200	100.0%	85.5%	25.3%	14.3%	36.9%	3.9%	5.0%	9.0%	5.6%
$200 to $399	100.0%	96.1%	32.1%	12.0%	38.6%	2.6%	10.7%	3.0%	1.0%
$400 to $699	100.0%	98.8%	22.2%	12.8%	47.1%	4.3%	12.3%	0.9%	0.3%
$700 to $999	100.0%	100.0%	22.5%	16.4%	53.1%	0.0%	8.1%	0.0%	0.0%
$1,000 +	100.0%	98.0%	9.7%	0.0%	66.9%	8.2%	13.3%	2.0%	0.0%
Grand Total	100.0%	92.7%	26.8%	13.0%	40.7%	3.4%	8.7%	4.8%	2.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Year Built   H4

<u>CNMI Total</u>

Majority of occupied units in the CNMI in 2017 were built in the 80s, 90s and 00s. Units built in the 1990s was 40.5% of all occupied housing units; units built in the 1980s was 23.0%; units built in the 2000s was 20.4%; units built in the 2010s was 8.9%; units built in the 1970s was 5.7%; while units build prior to 1970 was only 1.5%.

<u>By Island</u>

Relatively less units were built in Tinian and Rota (3%) than in Saipan (9.5%) in the 2010s. Please see chart H4.1 and Table H4.1 below for detail. (*Note that Tinian and Rota were combined, and Saipan districts were not treated separately, under this topic because of low number of cases. The response rate in the survey for this variable (year built) was only 42%.*) See Chart H4.1 and Table H4.1 for detail.

Chart H4.1 Occupied Units by Year Built Percent Distribution by Island: CNMI 2017
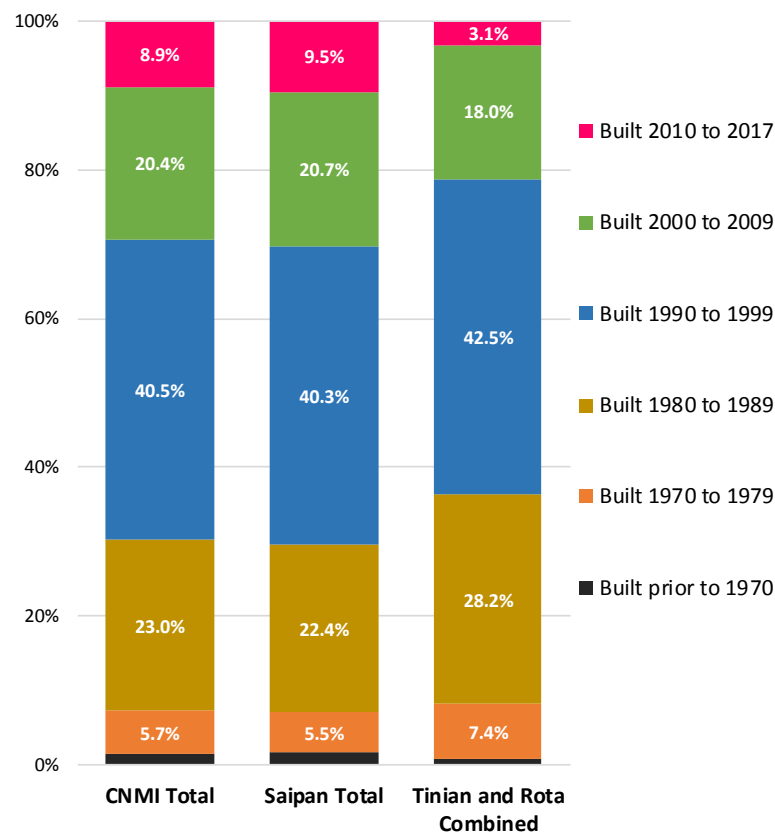
Table H4.1 Occupied Housing Units by Year Built
and by Island: CNMI, 2017 4th Qtr.

Year Built	CNMI Total	Saipan Total	Tinian and Rota Combined
Built 2010 to 2017	1,484	1,432	52
Built 2000 to 2009	3,413	3,113	300
Built 1990 to 1999	6,769	6,062	707
Built 1980 to 1989	3,840	3,371	469
Built 1970 to 1979	956	833	123
Built 1960 to 1969	169	156	12
Built 1950 to 1959	77	77	-
Grand Total	16,708	15,045	1,663
Percent within			
Built 2010 to 2017	8.9%	9.5%	3.1%
Built 2000 to 2009	20.4%	20.7%	18.0%
Built 1990 to 1999	40.5%	40.3%	42.5%
Built 1980 to 1989	23.0%	22.4%	28.2%
Built 1970 to 1979	5.7%	5.5%	7.4%
Built 1960 to 1969	1.0%	1.0%	0.7%
Built 1950 to 1959	0.5%	0.5%	0.0%
Grand Total	100.0%	100.0%	100.0%
Percent by			
Built 2010 to 2017	100.0%	96.5%	3.5%
Built 2000 to 2009	100.0%	91.2%	8.8%
Built 1990 to 1999	100.0%	89.6%	10.4%
Built 1980 to 1989	100.0%	87.8%	12.2%
Built 1970 to 1979	100.0%	87.2%	12.8%
Built 1960 to 1969	100.0%	92.7%	7.3%
Built 1950 to 1959	100.0%	100.0%	0.0%
Grand Total	100.0%	90.0%	10.0%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Wall Material Type   H5

<u>CNMI Total</u>

Units with concrete block walls was 75.3% of all occupied housing units in the CNMI in 2017; units with poured concrete was 8.3%; units with metal walls was also 7.5%, and units with wood and/or other materials for walls was 8.8%. Combing concrete blocks and poured concrete, 83.7% of all occupied units in the CNMI had concrete walls.

<u>By Island</u>

The percentage of occupied units with concrete walls (block and poured concrete combined) was highest in Rota (88.6%), followed by Saipan (84.6%), and lowest in Tinian (64.4%). The percentage with tin Metal walls was highest in Tinian (14.4%), followed by Rota (7.6%) and lowest in Saipan (7.1%). Wood and other materials walls percentage was highest in Tinian (21.2%), followed by Saipan (8.3%) and lowest in Rota (3.8%).

Chart H5.1 Occupied Housing Units by Wall Material Type
Percent Distribution by District: CNMI 2017
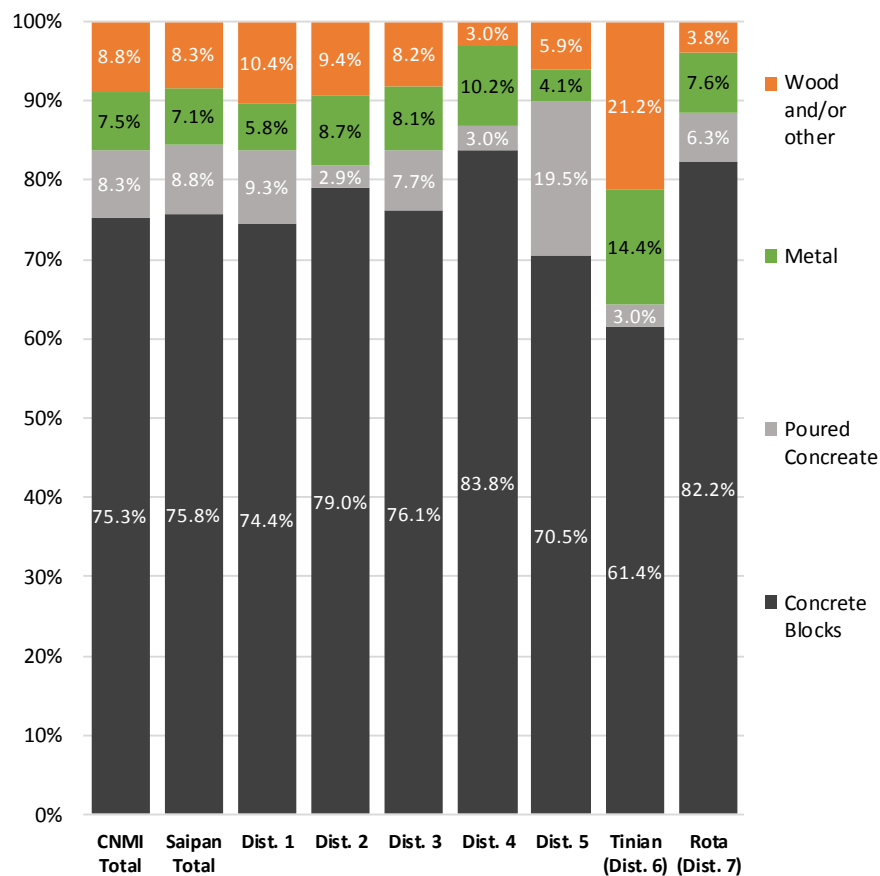
<u>By Saipan Districts</u>

Within Saipan, units with concrete (concrete blocks and poured concrete combined) walls percentage was highest in District 5 (90.0%) followed by District 4 (86.8%), District 3 and District 1 (both 83.8%) and then District 2 (81.9%). Please see Chart H5.1 and Table H5.1 for detail.

Table H5.1 Occupied Housing Units by Wall Material Type, by Island, and by District: CNMI, 2017 4th Qtr.

Wall Material	CNMI Total	Saipan						Tinian (Dist. 6)	Rota (Dist. 7)
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Poured Concreate	1,392	1,317	405	59	425	33	395	27	48
Concrete Blocks	12,589	11,408	3,225	1,620	4,201	940	1,422	552	629
Meta	1,261	1,073	253	178	445	115	82	130	58
Wood and/or other	1,467	1,247	449	194	451	34	120	191	29
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
Percent within									
Poured Concreate	8.3%	8.8%	9.3%	2.9%	7.7%	3.0%	19.5%	3.0%	6.3%
Concrete Blocks	75.3%	75.8%	74.4%	79.0%	76.1%	83.8%	70.5%	61.4%	82.2%
Meta	7.5%	7.1%	5.8%	8.7%	8.1%	10.2%	4.1%	14.4%	7.6%
Wood and/or other	8.8%	8.3%	10.4%	9.4%	8.2%	3.0%	5.9%	21.2%	3.8%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Percent by									
Concrete Blocks	100.0%	94.6%	29.1%	4.3%	30.5%	2.4%	28.3%	1.9%	3.5%
Meta	100.0%	90.6%	25.6%	12.9%	33.4%	7.5%	11.3%	4.4%	5.0%
Wood and/or other	100.0%	85.1%	20.1%	14.1%	35.3%	9.1%	6.5%	10.3%	4.6%
Grand Total	100.0%	85.0%	30.6%	13.2%	30.7%	2.3%	8.2%	13.0%	2.0%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Roof Material Type   H6

CNMI Total

Units with concrete roof was 56.5% of all occupied housing units in the CNMI in 2017; units with metal roof was 41.8%; while units with wood, thatch, and/or other material roof was 2.0%.

By Island

The percentage of occupied units with concrete roof was highest in Rota (66.7%), followed by Saipan (56.5%), then Tinian (56.2%). The percentage of units with metal roof was highest in Saipan (41.8%), followed by Tinian (40.0%), then Rota (25.5%). The percentage of units with wood, thatch, or other material roof was highest in Rota (7.9%), followed by Tinian (3.9%), then Saipan (1.6%).

By Saipan Districts

Within Saipan, units with concrete roof percentage was highest in District 5 (72.9%) followed by District 4 and District 3 (both 57.0%), District 1 (53.0%) and then District 2 (46.6%). Units with metal roof percentage was highest in District 2 (52.4%), followed by District 1 (44.6%), District 4 (43.4%), District 3 (41.9%), then District 5 (23.9%). See Chart H6.1 and Table H6.1 for detail.

Chart H6.1 Occupied Housing Units by Roof Material Type
Percent Distribution by District: CNMI 2017

Table H6.1 Occupied Housing Units by Roof Material Type, by Island, and by District: CNMI, 2017 4th Qtr.

| Roof Material | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Poured Concreate	9,521	8,507	2,297	956	3,147	634	1,472	505	509
Metal	6,849	6,294	1,933	1,075	2,316	487	483	359	195
Wood, thatch, other	339	244	103	19	59	-	63	35	60
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
Percent within									
Poured Concreate	57.0%	56.5%	53.0%	46.6%	57.0%	56.6%	72.9%	56.2%	66.6%
Metal	41.0%	41.8%	44.6%	52.4%	41.9%	43.4%	23.9%	40.0%	25.5%
Wood, thatch, other	2.0%	1.6%	2.4%	0.9%	1.1%	0.0%	3.1%	3.9%	7.9%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Percent by									
Poured Concreate	100.0%	89.4%	24.1%	10.0%	33.1%	6.7%	15.5%	5.3%	5.3%
Metal	100.0%	91.9%	28.2%	15.7%	33.8%	7.1%	7.1%	5.2%	2.9%
Wood, thatch, other	100.0%	72.0%	30.3%	5.7%	17.3%	0.0%	18.7%	10.2%	17.8%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Number of Rooms   H7

<u>CNMI Total</u>

The median number of rooms was 4 and the mean was 3.8 per occupied housing unit in the CNMI in 2017. Housing units with 4 rooms comprised 32.1% of all occupied housing units, followed by units with 5 rooms (18.8%), units with 3 rooms (15.7%), units with 1 room (13.1%), units with 2 rooms (9.5%), units with 6 rooms (6.2%), then units with 7 rooms (3.1%). Units with 8 or more rooms was 1.5% of all occupied housing units.

<u>By Island</u>

There was no difference in the median and mean number of rooms in Saipan, Tinian, and Rota. However, percentages of units with 1 room and units with 8 or more rooms were relatively higher in Saipan (13.1%) compared to Titian (8.5%) and Rota (8.1%).

<u>By Saipan Districts</u>

Within Saipan, the median number of rooms was identical in all districts while the mean ranged from 3.9 to 4.5 rooms. The number of rooms percent distributions was similar across all 5 districts with a few notable differences: Districts 2 and 3 had relatively higher percentages in the 1 room category; Districts 4 and 5 had relatively higher percentages in the 5 rooms category. See Chart 7.1 and Table H7.1 for detail.

Chart H7.1 Occupied Housing Units by Number of Rooms
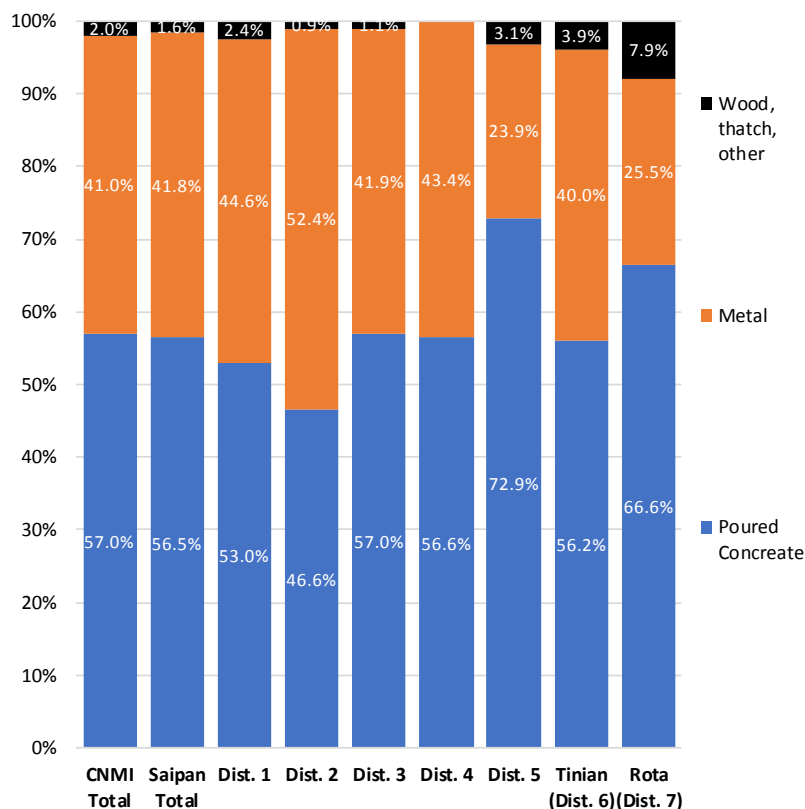Percent Distribution by District: CNMI 2017

Table H7.1 Occupied Housing Units by Number of Rooms, by Island, and by District: CNMI, 2017 4th Qtr.

| Rooms | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
1 Room	2,192	2,054	529	429	979	70	47	76	62
2 Rooms	1,589	1,479	277	211	715	213	63	48	62
3 Rooms	2,629	2,237	578	298	968	102	290	237	156
4 Rooms	5,358	4,865	1,332	658	1,920	238	717	242	251
5 Rooms	3,136	2,832	897	375	645	329	586	193	111
6 Rooms	1,030	873	348	38	186	124	176	67	90
7 Rooms	516	446	274	19	70	28	54	36	33
8 or more rooms	258	258	97	21	39	16	85	-	-
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
Median	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Mean	3.8	3.8	4.0	3.9	3.9	4.1	4.5	3.9	3.9
				Percent within					
1 Room	13.1%	13.7%	12.2%	20.9%	17.7%	6.2%	2.3%	8.5%	8.1%
2 Rooms	9.5%	9.8%	6.4%	10.3%	12.9%	19.0%	3.1%	5.3%	8.1%
3 Rooms	15.7%	14.9%	13.3%	14.6%	17.5%	9.1%	14.4%	26.3%	20.4%
4 Rooms	32.1%	32.3%	30.7%	32.1%	34.8%	21.3%	35.5%	26.9%	32.9%
5 Rooms	18.8%	18.8%	20.7%	18.3%	11.7%	29.4%	29.0%	21.5%	14.5%
6 Rooms	6.2%	5.8%	8.0%	1.9%	3.4%	11.1%	8.7%	7.4%	11.8%
7 Rooms	3.1%	3.0%	6.3%	0.9%	1.3%	2.5%	2.7%	4.1%	4.3%
8 or more rooms	1.5%	1.7%	2.2%	1.0%	0.7%	1.4%	4.2%	0.0%	0.0%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
				Percent by					
1 Room	100.0%	93.7%	24.1%	19.6%	44.7%	3.2%	2.1%	3.5%	2.8%
2 Rooms	100.0%	93.1%	17.4%	13.3%	45.0%	13.4%	4.0%	3.0%	3.9%
3 Rooms	100.0%	85.1%	22.0%	11.3%	36.8%	3.9%	11.0%	9.0%	5.9%
4 Rooms	100.0%	90.8%	24.9%	12.3%	35.8%	4.4%	13.4%	4.5%	4.7%
5 Rooms	100.0%	90.3%	28.6%	12.0%	20.6%	10.5%	18.7%	6.2%	3.5%
6 Rooms	100.0%	84.8%	33.8%	3.7%	18.1%	12.0%	17.1%	6.5%	8.8%
7 Rooms	100.0%	86.6%	53.2%	3.7%	13.6%	5.5%	10.5%	7.1%	6.3%
8 or more rooms	100.0%	100.0%	37.7%	8.1%	15.1%	6.0%	33.0%	0.0%	0.0%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Number of Bedrooms   H8

<u>CNMI Total</u>

The median number of bedrooms was 2 and the mean was 2.1 in the CNMI in 2017. Two-bedroom units comprised 36.7% of all occupied housing units in the CNMI in 2017, followed by 1-bedroom units (34.0%), 3-bedroom units (19.5%), 4-bedroom units (6.8%), then 5-bedroom units (2.2%). Units with 6 or more bedrooms was 0.9% of all occupied housing units.

<u>By Island</u>

The median and mean number of bedroom were the same in all three islands. The number of bedrooms percent distributions for Rota and Tinian were similar in all three islands—Saipan, Tinian, and Rota.

<u>By Saipan Districts</u>

The median number of bedrooms was identical (2 bedrooms) in all districts while the mean ranged from 1.8 to 2.9 bedrooms.

Within Saipan, the 1-bedroom units percentage was higher in Districts 3 (44.9%), District 2 (43.0%), and District 4 (31.3%); 2-bedroom units percentage was higher in District 1 (40.0%), District 2 (36.0%), District 3 (37.3%), and District 5 (38.2%); while 3-bedroom units percentage was higher in District 5 (35.6%), and District 4 (28.1%). See Chart H8.1 and Table H8.1 for detail.

Chart H8.1 Occupied Housing Units by Number of Bedrooms
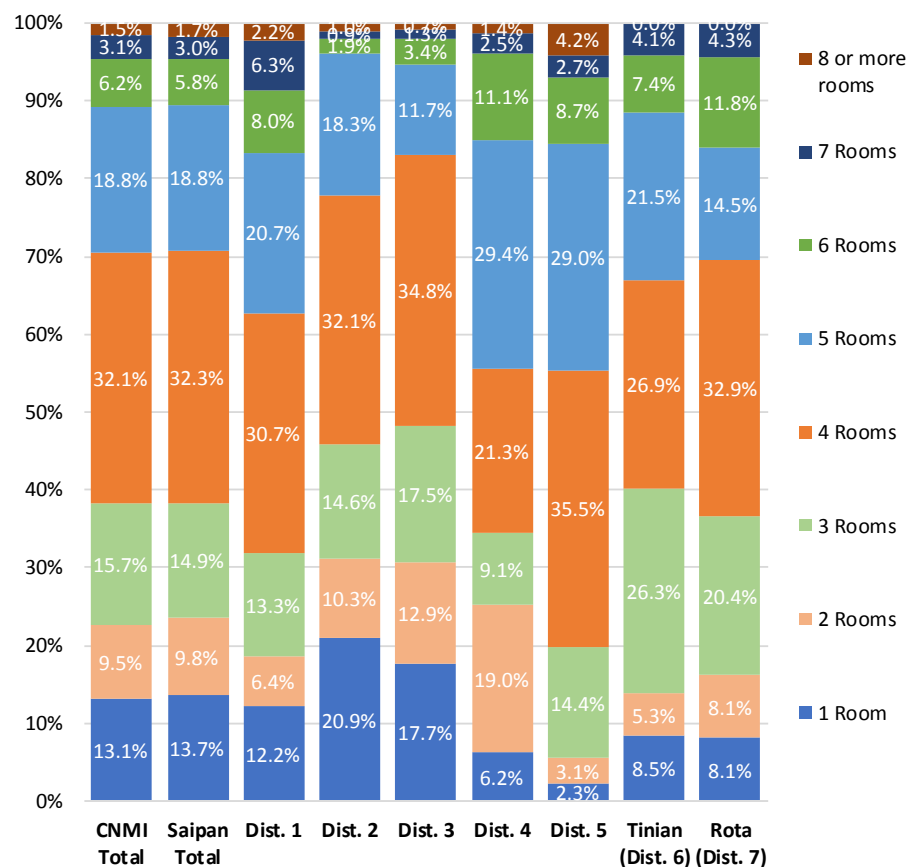Percent Distribution by District: CNMI 2017
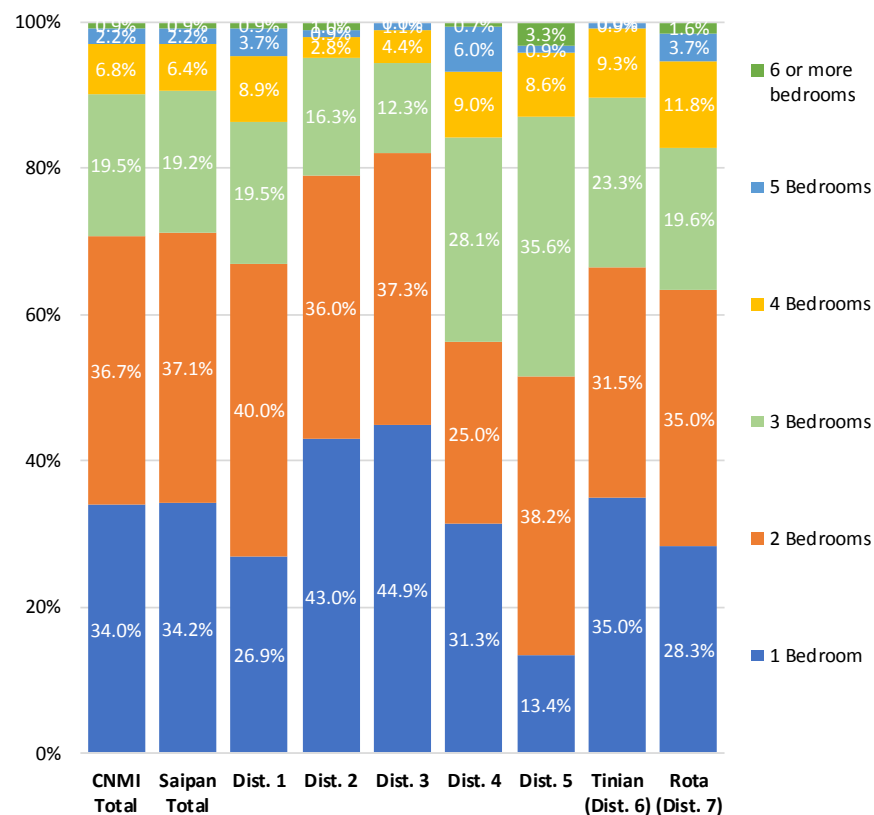
Table H8.1 Occupied Housing Units by Number of Bedrooms, by Island, and by District: CNMI, 2017 4th Qtr.

Bedrooms	CNMI Total	Saipan Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5	Tinian (Dist. 6)	Rota (Dist. 7)
1 Bedroom	5,679	5,148	1,166	881	2,478	351	271	315	216
2 Bedrooms	6,133	5,583	1,733	738	2,061	280	771	283	268
3 Bedrooms	3,251	2,891	846	333	679	315	718	209	150
4 Bedrooms	1,138	964	387	58	245	101	174	84	90
5 Bedrooms	362	326	162	19	59	67	19	8	28
6 or more bedrooms	145	133	38	21	-	8	66	-	12
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
Median	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Mean	2.1	2.1	2.3	1.9	1.8	2.4	2.6	2.1	2.3
					Percent within				
1 Bedroom	34.0%	34.2%	26.9%	43.0%	44.9%	31.3%	13.4%	35.0%	28.3%
2 Bedrooms	36.7%	37.1%	40.0%	36.0%	37.3%	25.0%	38.2%	31.5%	35.0%
3 Bedrooms	19.5%	19.2%	19.5%	16.3%	12.3%	28.1%	35.6%	23.3%	19.6%
4 Bedrooms	6.8%	6.4%	8.9%	2.8%	4.4%	9.0%	8.6%	9.3%	11.8%
5 Bedrooms	2.2%	2.2%	3.7%	0.9%	1.1%	6.0%	0.9%	0.9%	3.7%
6 or more bedrooms	0.9%	0.9%	0.9%	1.0%	0.0%	0.7%	3.3%	0.0%	1.6%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
					Percent by				
1 Bedroom	100.0%	90.6%	20.5%	15.5%	43.6%	6.2%	4.8%	5.5%	3.8%
2 Bedrooms	100.0%	91.0%	28.3%	12.0%	33.6%	4.6%	12.6%	4.6%	4.4%
3 Bedrooms	100.0%	88.9%	26.0%	10.3%	20.9%	9.7%	22.1%	6.4%	4.6%
4 Bedrooms	100.0%	84.7%	34.0%	5.1%	21.5%	8.9%	15.3%	7.4%	7.9%
5 Bedrooms	100.0%	90.0%	44.8%	5.3%	16.3%	18.5%	5.1%	2.1%	7.8%
6 or more bedrooms	100.0%	91.7%	26.3%	14.4%	0.0%	5.2%	45.8%	0.0%	8.3%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Hot and Cold Water in Unit — H9.1

CNMI Total

Units with only cold water was 76.1% of all occupied housing units in the CNMI in 2017; units with both hot and cold water was 23.1%; and units with no piped water was only 0.8%.

By Island

The percentage of occupied units with only cold water was higher in both Rota (84.7%) and Tinian (84.1%) and relatively lower in Saipan (75.2%). Conversely, units with both hot and cold water was relatively higher in Saipan (23.1%) and lower in Rota and Tinian (both 15.3%).

By Saipan Districts

Within Saipan, units with only cold piped water percentage was highest in District 2 (83.5%) followed by District 5 (80.9%), District 1 (75.8%) and District 4 (73.8%) and then District 3 (69.9%). Units with both hot and cold piped water percentage was highest in District 3 (29.4%), followed by District 4 (25.0%), District 1 (22.4%), District 5 (19.1%), then District 2 (16.5%). See Chart H9.1 and Table H9.1 for detail.

Chart H9.1 Occupied Housing Units by Hot-Cold Water Percent Distribution by District: CNMI 2017
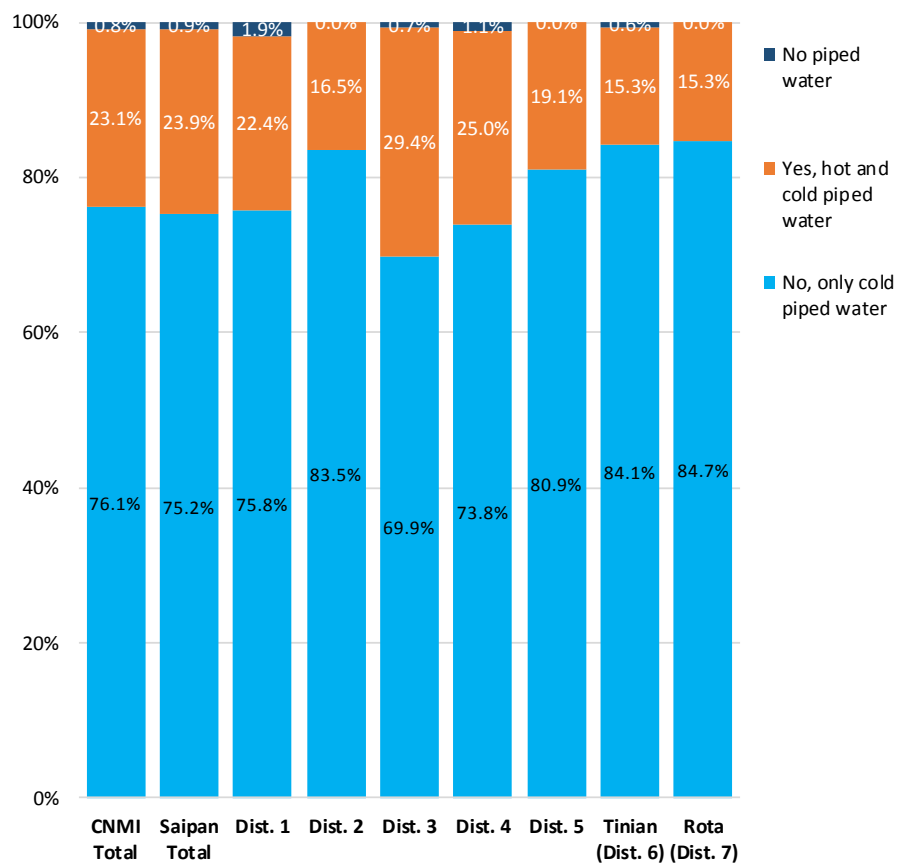
Table H9.1 Occupied Housing Units by Hot and/or Cold Water, by Island, and by District: CNMI, 2017 4th Qtr.

| Hot-Cold Water | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Yes, hot and cold piped water	3,852	3,598	969	339	1,625	281	385	137	117
No, only cold piped water	12,717	11,314	3,282	1,712	3,858	828	1,633	756	648
No piped water	139	133	81	-	40	13	-	6	-
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
				Percent within					
Yes, hot and cold piped water	23.1%	23.9%	22.4%	16.5%	29.4%	25.0%	19.1%	15.3%	15.3%
No, only cold piped water	76.1%	75.2%	75.8%	83.5%	69.9%	73.8%	80.9%	84.1%	84.7%
No piped water	0.8%	0.9%	1.9%	0.0%	0.7%	1.1%	0.0%	0.6%	0.0%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
				Percent by					
Yes, hot and cold piped water	100.0%	93.4%	25.2%	8.8%	42.2%	7.3%	10.0%	3.6%	3.0%
No, only cold piped water	100.0%	89.0%	25.8%	13.5%	30.3%	6.5%	12.8%	5.9%	5.1%
No piped water	100.0%	95.9%	58.1%	0.0%	28.6%	9.2%	0.0%	4.1%	0.0%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Hot Water Energy Type   **H9.2**

CNMI Total

Units with electric hot water heater was 88.1% of all occupied housing units with hot water in the CNMI in 2017 while units with gas or solar water heater was 11.9%.

By Island

The percentage of units with electric hot water heater was higher in Tinian (95.8%) and Rota (94.9%) and relatively lower in Saipan (87.6%). Conversely, the percentage of units with solar or gas water heater was higher in Saipan (12.4%) and lower in Rota (5.1%) and Tinian (4.2%).

By Saipan Districts

Within Saipan, the percentage of units with electric water heater was higher in Districts 3 (90.1%) and Districts 1 (89.8%) and was lowest in District 2 (76.8%). The percentage of occupied units with gas or solar water heater was highest in District 2 (23.2%) and lowest in Districts 3 (9.9%). See Chart H9.2 and Table H9.2 for detail.

Chart H9.2 Occupied Housing Units by Water Heater
Energy Percent Distribution by District: CNMI 2017
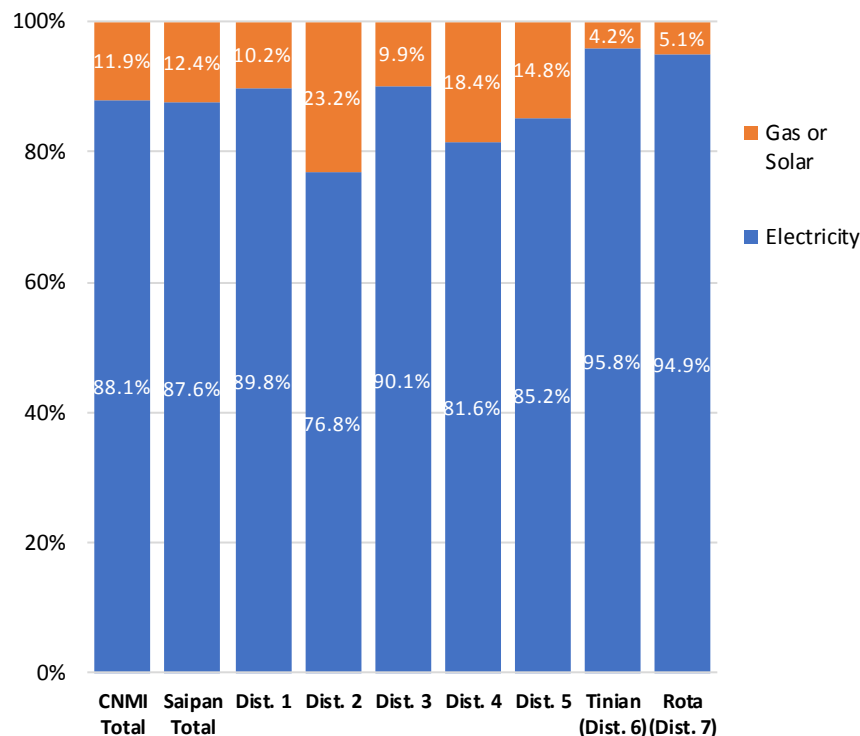
Table H09.2 Occupied Housing Units by Water Heater Energy, by Island, and by District: CNMI, 2017 4th Qtr.

Hot Water Energy	CNMI Total	Saipan						Tinian (Dist. 6)	Rota (Dist. 7)
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Electricity	3,393	3,150	870	260	1,464	229	328	131	111
Gas or Solar	459	447	99	79	161	52	57	6	6
Grand Total	3,852	3,598	969	339	1,625	281	385	137	117
Percent within									
Electricity	88.1%	87.6%	89.8%	76.8%	90.1%	81.6%	85.2%	95.8%	94.9%
Gas or Solar	11.9%	12.4%	10.2%	23.2%	9.9%	18.4%	14.8%	4.2%	5.1%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Percent by									
Electricity	100.0%	92.9%	25.6%	7.7%	43.1%	6.8%	9.7%	3.9%	3.3%
Gas or Solar	100.0%	97.5%	21.6%	17.1%	35.0%	11.3%	12.4%	1.2%	1.3%
Grand Total	100.0%	93.4%	25.2%	8.8%	42.2%	7.3%	10.0%	3.6%	3.0%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Complete Plumbing   H10

CNMI Total

Units with complete plumbing was 95.5% of all occupied housing units in the CNMI in 2017 while units with no plumbing was only 4.5%.

By Island

In Saipan, units with complete plumbing was 95.1% of all occupied housing units while units with no plumbing was 4.9%. In Tinian, units with complete plumbing was 99.1% of all occupied housing units while units with no plumbing was only 0.9%. In Rota, all occupied housing units had complete plumbing.

By Saipan Districts

Within Saipan, percentage of units with complete plumbing was highest in Districts 2 (97.2%), and relatively lowest in District 4 (91.5%). The percentage of occupied units with no plumbing was highest in District 4 (8.5%) and lowest in Districts 1 (3.2%). See Chart H10.1 and Table H10.1 for detail.

Chart H10.1 Occupied Housing Units by Complete Plumbing Percent Distribution by District: CNMI 2017

Table H10.1 Occupied Housing Units by Complete Plumbing, by Island, and by District: CNMI, 2017 4th Qtr.

| Plumbing | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Yes, complete plumbing	15,959	14,303	4,195	1,993	5,165	1,026	1,924	891	764
No plumbing	749	741	137	58	357	95	95	8	-
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
Percent within									
Yes, complete plumbing	95.5%	95.1%	96.8%	97.2%	93.5%	91.5%	95.3%	99.1%	100.0%
No plumbing	4.5%	4.9%	3.2%	2.8%	6.5%	8.5%	4.7%	0.9%	0.0%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Percent by									
Yes, complete plumbing	100.0%	89.6%	26.3%	12.5%	32.4%	6.4%	12.1%	5.6%	4.8%
No plumbing	100.0%	99.0%	18.3%	7.7%	47.7%	12.7%	12.6%	1.0%	0.0%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Fuel Cooking Fuel Type   H11

<u>CNMI Total</u>

Units cooking with butane most was 82.8% of all occupied housing units in the CNMI in 2017; units cooking with LP gas most was 11.5%; and units cooking with electricity most was 5.7%.

<u>By Island</u>

The percentage of occupied units cooking with butane most was higher Rota (91.9%) and Tinian (91.7%) and relatively lower in Saipan (81.8%). The percentage of occupied units cooking with LP gas most was higher in Saipan (12.6%) and lower in Tinian (1.7%) and Rota (1.5%). The percentage of occupied units cooking with electricity most was slightly higher in Tinian and Rota (both 6.6%) then in Saipan (5.6%).

<u>By Saipan Districts</u>

Within Saipan, percentage of all units cooking with butane most was highest in District 2 (89.4%) and lowest in District 4 (70.4%). Percentage of all units cooking with LP gas most was highest in District 4 (22.0%) and was lowest in Districts 2 (6.8%). Percentage of units cooking with electricity most was highest in Districts 5 (8.4%) and lowest in District 2 (3.8%). See Chart H11.1 and Table H11.1 for detail.

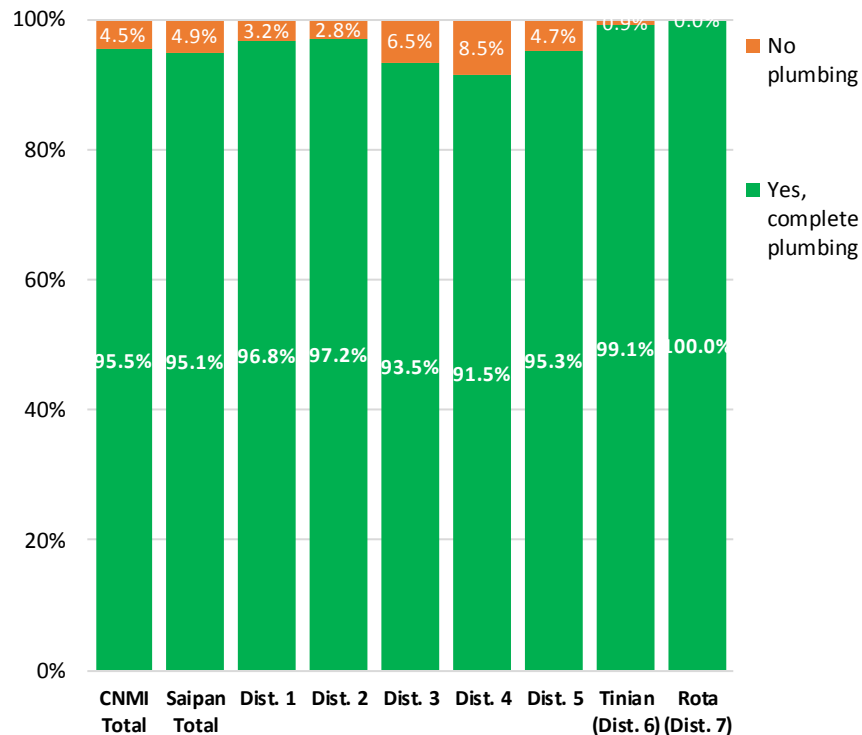Chart H11.1 Occupied Housing Units by Cooking Fuel Percent Distribution by District: CNMI 2017
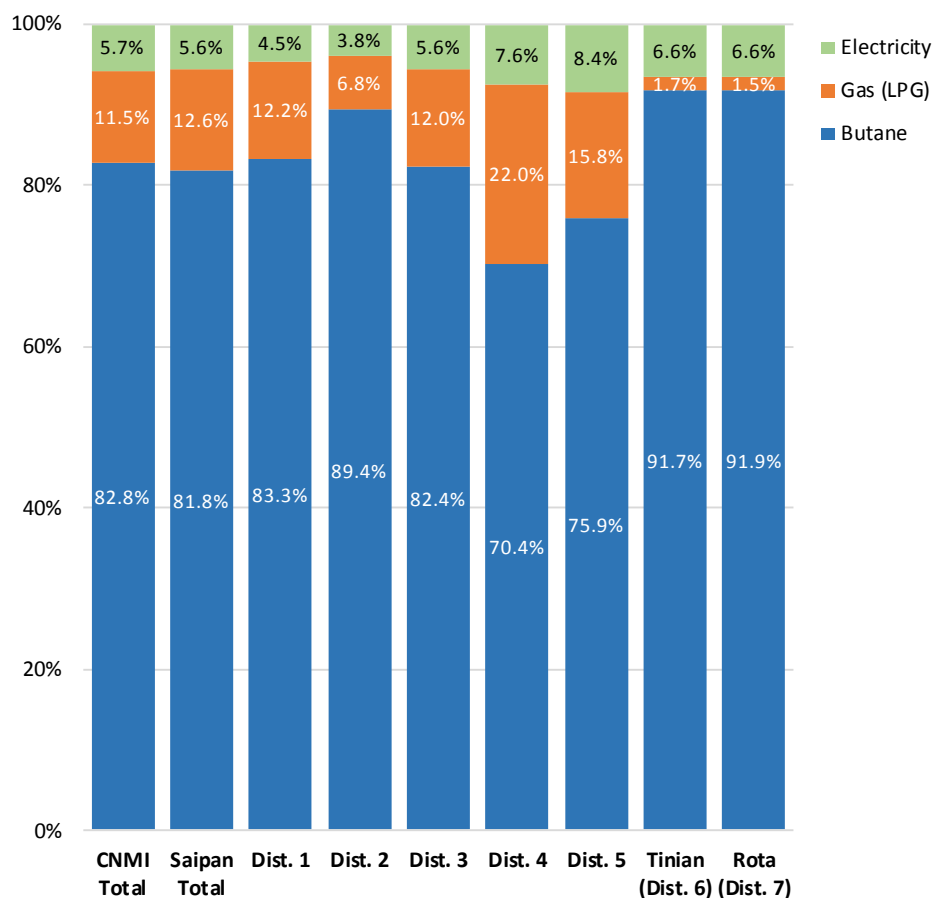
Table H11.1 Occupied Housing Units by Cooking Fuel, by Island, and by District: CNMI, 2017 4th Qtr.

| Cooking Fuel | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Electricity	949	839	195	79	312	85	169	59	51
Gas (LPG)	1,924	1,898	529	140	662	247	319	15	11
Butane	13,836	12,308	3,607	1,833	4,548	789	1,531	825	703
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
Percent within									
Electricity	5.7%	5.6%	4.5%	3.8%	5.6%	7.6%	8.4%	6.6%	6.6%
Gas (LPG)	11.5%	12.6%	12.2%	6.8%	12.0%	22.0%	15.8%	1.7%	1.5%
Butane	82.8%	81.8%	83.3%	89.4%	82.4%	70.4%	75.9%	91.7%	91.9%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Percent by									
Electricity	100.0%	88.4%	20.6%	8.3%	32.8%	8.9%	17.8%	6.2%	5.3%
Gas (LPG)	100.0%	98.6%	27.5%	7.3%	34.4%	12.8%	16.6%	0.8%	0.6%
Butane	100.0%	89.0%	26.1%	13.2%	32.9%	5.7%	11.1%	6.0%	5.1%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Complete Kitchen   H12

<u>CNMI Total</u>

Units with complete kitchen was 93.2% of all occupied housing units in the CNMI in 2017 while units with no kitchen was 6.8%.

<u>By Island</u>

Almost all occupied units in both Rota (99.3%) and Tinian (98.9%) had complete kitchen. In Saipan, 93% of all occupied housing units had complete kitchen.

<u>By Saipan Districts</u>

Within Saipan, the percentage of units with complete kitchen was highest in Districts 5 (94.9%) and lowest in District 4 (86.5%). The percentage of occupied units with no kitchen was highest in District 4 (13.3%) and lowest in Districts 5 (5.1%). See Chart H12.1 and Table H12.1 for detail.

Chart H12.1 Occupied Housing Units by Complete Kitchen
Percent Distribution by District: CNMI 2017
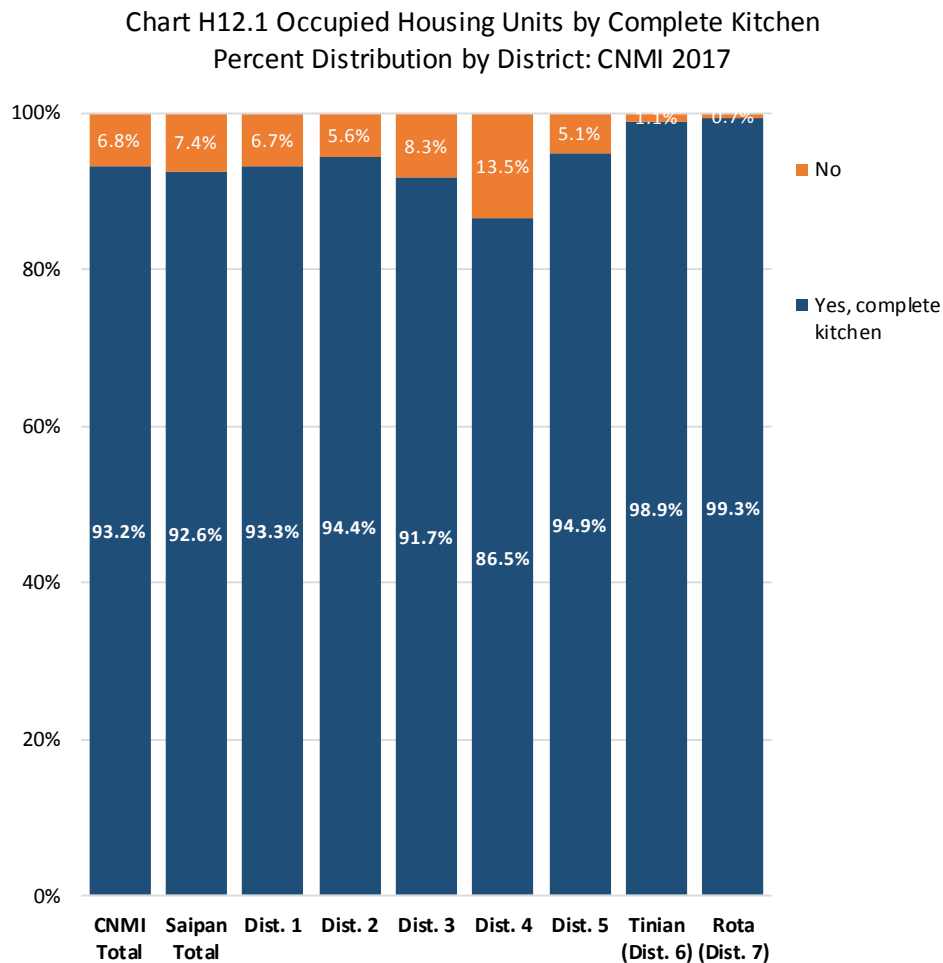
Table H12.1 Occupied Housing Units by Complete Kitchen, by Island, and by District: CNMI, 2017 4th Qtr.

| Complete Kitchen | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Yes, complete kitchen	15,576	13,928	4,041	1,936	5,066	970	1,915	889	759
No	1,132	1,117	291	115	456	151	104	10	5
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
Percent within									
Yes, complete kitchen	93.2%	92.6%	93.3%	94.4%	91.7%	86.5%	94.9%	98.9%	99.3%
No	6.8%	7.4%	6.7%	5.6%	8.3%	13.5%	5.1%	1.1%	0.7%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Percent by									
Yes, complete kitchen	100.0%	89.4%	25.9%	12.4%	32.5%	6.2%	12.3%	5.7%	4.9%
No	100.0%	98.7%	25.7%	10.2%	40.3%	13.3%	9.2%	0.8%	0.5%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Microwave   **H13**

CNMI Total

Units with a microwave was 47.8% of all occupied housing units in the CNMI in 2017 while units with no microwave was only 52.2%.

By Island

The percentage of occupied units with a microwave was highest in Saipan (48.1%), followed by Tinian (45.9%), and lowest in Rota (43.3%). Conversely, the percentage of occupied units with no microwave was 56.7% in Rota, 54.1% in Tinian, and 52.2% in Saipan.

By Saipan Districts

Within Saipan, the percentage of all units with a microwave was highest in Districts 5 (62.0%) and was lowest in District 2 (35.6%). See Chart H13.1 and Table H13.1 for detail.

Chart H13.1 Occupied Housing Units by Microwave
Percent Distribution by District: CNMI 2017
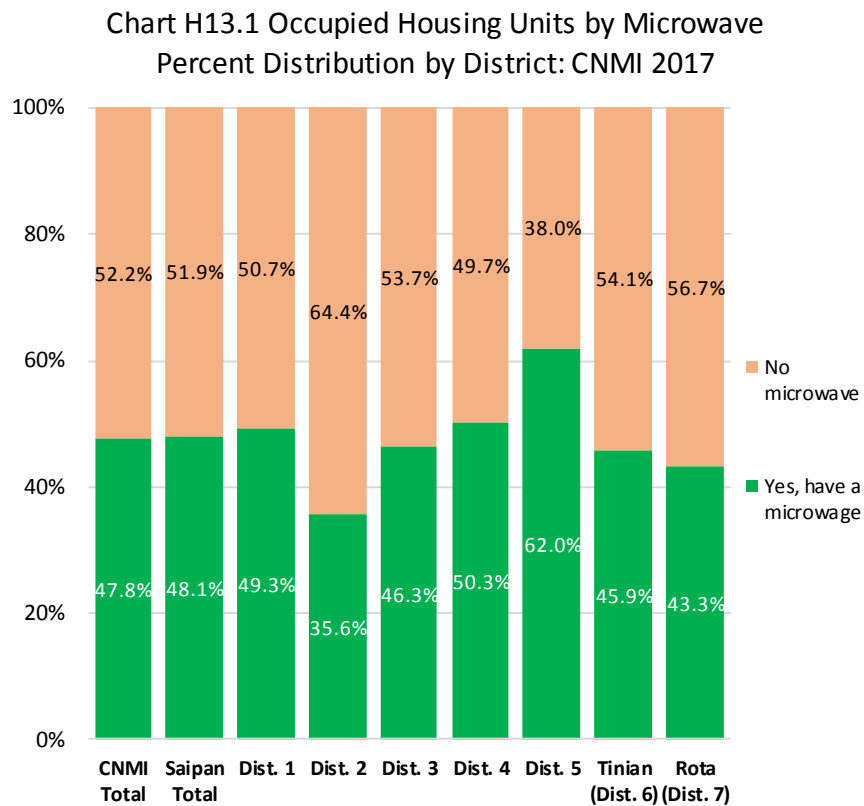
Table H13.1 Occupied Housing Units by Microwave, by Island, and by District: CNMI, 2017 4th Qtr.

| Microwave | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Yes, have a microwave	7,980	7,237	2,135	729	2,556	564	1,252	413	331
No microwave	8,728	7,808	2,197	1,321	2,966	558	766	486	434
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
				Percent within					
Yes, have a microwave	47.8%	48.1%	49.3%	35.6%	46.3%	50.3%	62.0%	45.9%	43.3%
No microwave	52.2%	51.9%	50.7%	64.4%	53.7%	49.7%	38.0%	54.1%	56.7%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
				Percent by					
Yes, have a microwave	100.0%	90.7%	26.8%	9.1%	32.0%	7.1%	15.7%	5.2%	4.1%
No microwave	100.0%	89.5%	25.2%	15.1%	34.0%	6.4%	8.8%	5.6%	5.0%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Freezer   H14

By Island

Units with a stand-alone freezer was 39.9% of all occupied housing units in the CNMI in 2017 while units with no freezer was 60.1%.

By Island

The percentage of occupied units with a stand-alone freezer was highest in Rota (60.6%), followed by Tinian (46.3%), then Saipan (38.4%).

By Saipan Districts

Within Saipan, the percentage of all units with a stand-alone freezer was highest in Districts 4 (57.5%) and was lowest in District 3 (30.7%). Please see Chart H14.1 and Table H14.1 for detail.

Chart H14.1 Occupied Housing Units by Freezer Percent
Distribution by District: CNMI 2017

District	No freezer	Yes, have a stand-alone freezer
CNMI Total	60.1%	39.9%
Saipan Total	61.6%	38.4%
Dist. 1	59.3%	40.7%
Dist. 2	65.4%	34.6%
Dist. 3	69.3%	30.7%
Dist. 4	42.5%	57.5%
Dist. 5	52.0%	48.0%
Tinian (Dist. 6)	53.7%	46.3%
Rota (Dist. 7)	39.4%	60.6%
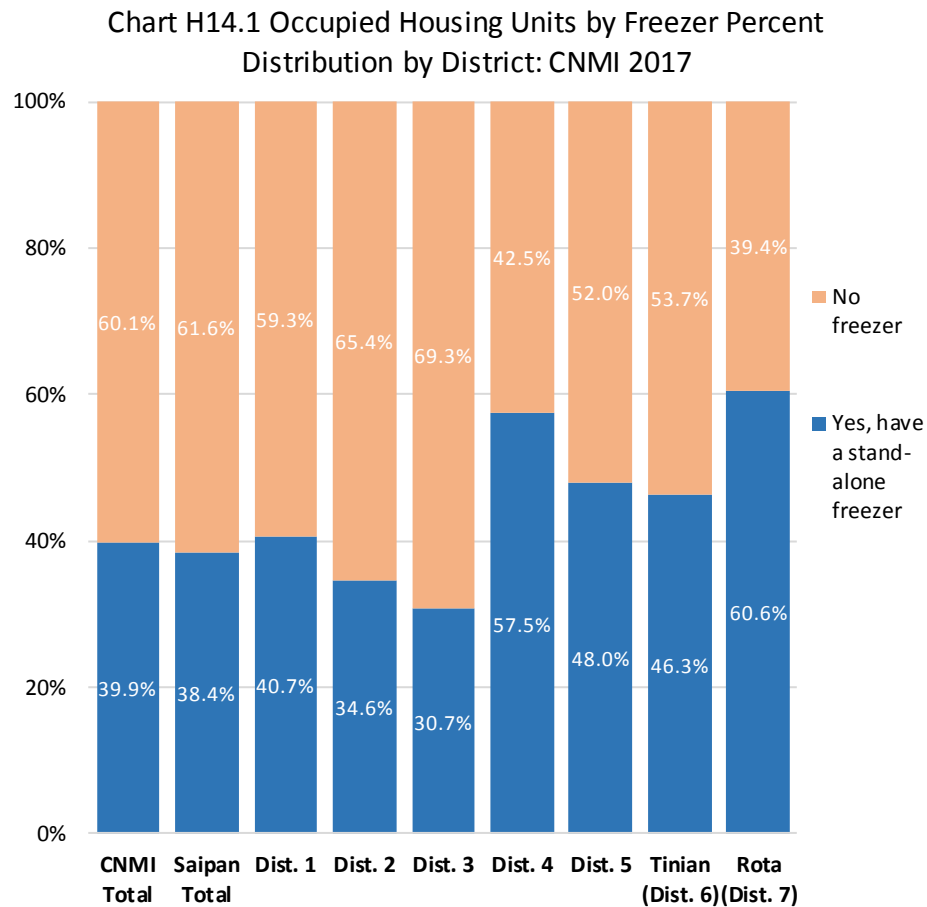
Table H14.1 Occupied Housing Units by Stand-alone Freezer, by Island, and by District: CNMI, 2017 4th Qtr.

| Freezer | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Yes, have a stand-alone freezer	6,660	5,781	1,763	710	1,694	645	969	416	463
No	10,048	9,264	2,569	1,341	3,828	477	1,049	483	301
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
Percent within									
Yes, have a stand-alone freezer	39.9%	38.4%	40.7%	34.6%	30.7%	57.5%	48.0%	46.3%	60.6%
No	60.1%	61.6%	59.3%	65.4%	69.3%	42.5%	52.0%	53.7%	39.4%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Percent by									
Yes, have a stand-alone freezer	100.0%	86.8%	26.5%	10.7%	25.4%	9.7%	14.6%	6.2%	7.0%
No	100.0%	92.2%	25.6%	13.3%	38.1%	4.7%	10.4%	4.8%	3.0%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Water Source   H15

CNMI Total

Units getting water from a public system only was 85.3% of all occupied housing units in the CNMI in 2017; units getting water from a public system and cistern was 10.2%; units getting water from a cistern, tank or drums only was 3.1%, units getting water from other means was only 1.3%.

By Island

The percentage of units getting water from a public system only was highest in Tinian (98.7%), followed by Rota (93.1%), then Saipan (84.1%). The percentage getting water from both public system and cistern was relatively high in Saipan (11.2%) and lower in Rota (1.6%) and Tinian (0.9%). The percentage getting water from a cistern, tanks or drums only was relatively low: 3.3% in Saipan, 2.2% in Rota, and .04% in Tinian.

By Saipan Districts

Within Saipan, the percentage of all units getting water from a public system only was highest in District 5 (92.7%) and lowest in District 4 (46.7%). The percentage getting water from a public system and cistern was highest in District 4 (43.7%) and lowest in District 5 (3.3%). See Chart H15.1 and Table H15.1 for detail.

Chart H15.1 Occupied Housing Units by Water Source Percent
Distribution by District: CNMI 2017
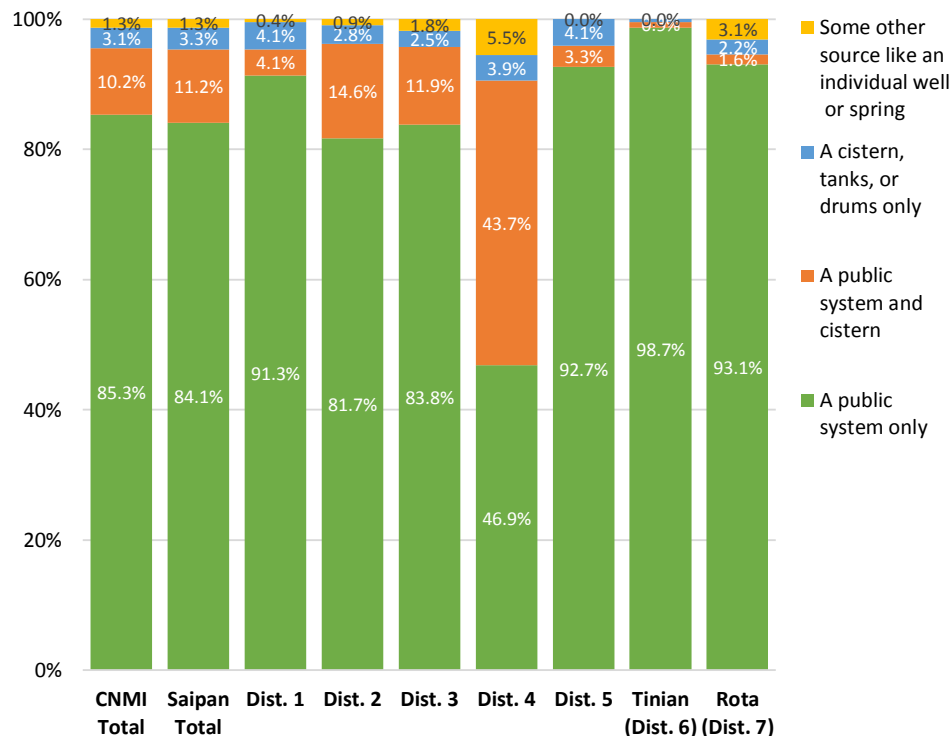
Table H15.1 Occupied Housing Units by Water Source, by Island, and by District: CNMI, 2017 4th Qtr.

Water Source	CNMI Total	Saipan						Tinian (Dist. 6)	Rota (Dist. 7)
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
A public system only	14,256	12,657	3,956	1,676	4,629	526	1,870	887	711
A public system and cistern	1,707	1,687	177	298	656	490	66	8	12
A cistern, tanks, or drums only	522	501	180	58	138	44	83	4	17
Some other source like an individual well or spring	223	199	19	19	99	62	-	-	24
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
Percent within									
A public system only	85.3%	84.1%	91.3%	81.7%	83.8%	46.9%	92.7%	98.7%	93.1%
A public system and cistern	10.2%	11.2%	4.1%	14.6%	11.9%	43.7%	3.3%	0.9%	1.6%
A cistern, tanks, or drums only	3.1%	3.3%	4.1%	2.8%	2.5%	3.9%	4.1%	0.4%	2.2%
Some other source like an individual well or spring	1.3%	1.3%	0.4%	0.9%	1.8%	5.5%	0.0%	0.0%	3.1%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Percent by									
A public system only	100.0%	88.8%	27.8%	11.8%	32.5%	3.7%	13.1%	6.2%	5.0%
A public system and cistern	100.0%	98.8%	10.4%	17.5%	38.4%	28.7%	3.8%	0.5%	0.7%
A cistern, tanks, or drums only	100.0%	96.0%	34.4%	11.0%	26.4%	8.3%	15.8%	0.7%	3.3%
Some other source like an individual well or spring	100.0%	89.2%	8.6%	8.6%	44.2%	27.8%	0.0%	0.0%	10.8%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Purchasing Drinking Water   H16

<u>CNMI Total</u>

Units that purchased drinking water was 93.4% of all occupied housing units in the CNMI in 2017 while units that did not purchase drinking water was 6.6%.

<u>By Island</u>

The percentage of occupied units that purchased drinking water was highest in Saipan (95.5%), followed by Tinian (91.2%) and lowest in Rota (54.8%).

<u>By Saipan Districts</u>

Within Saipan, the percentage of all units that purchased drinking water was highest in District 2 (98.1%), and lowest in District 4 (86.2%). See Chart H16.1 and Table H16.1 for detail.

Chart H16.1 Occupied Housing Units by Drinking Water
Percent Distribution by District: CNMI 2017
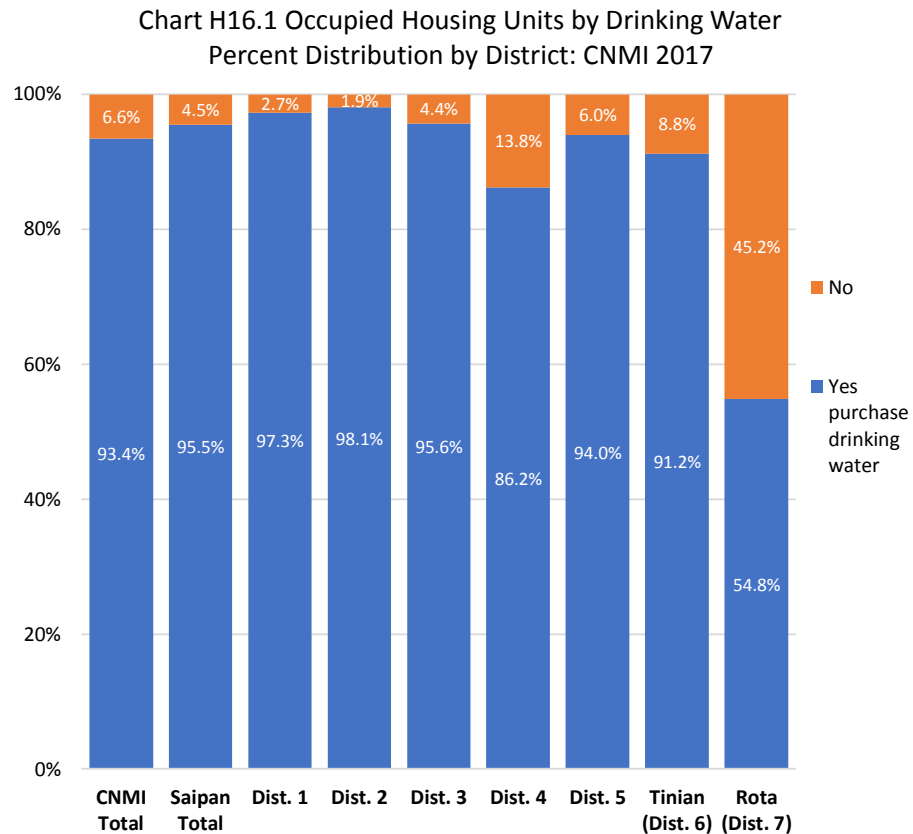
Table H16.1 Occupied Housing Units by Drinking Water, by Island, and by District: CNMI, 2017 4th Qtr.

Drinking Water	CNMI Total	Saipan						Tinian (Dist. 6)	Rota (Dist. 7)
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Yes purchase drinking water	15,610	14,371	4,214	2,012	5,282	966	1,897	820	419
No	1,098	673	118	38	240	155	122	79	345
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
Percent within									
Yes purchase drinking water	93.4%	95.5%	97.3%	98.1%	95.6%	86.2%	94.0%	91.2%	54.8%
No	6.6%	4.5%	2.7%	1.9%	4.4%	13.8%	6.0%	8.8%	45.2%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Percent by									
Yes purchase drinking water	100.0%	92.1%	27.0%	12.9%	33.8%	6.2%	12.2%	5.3%	2.7%
No	100.0%	61.3%	10.7%	3.5%	21.9%	14.1%	11.1%	7.2%	31.5%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Sewer Connection   H17

<u>CNMI Total</u>

Units connected to public sewer was 46.7% of all occupied housing units in the CNMI in 2017; units connected to septic tank or cesspool was 51.9%; while units using other means was 1.3%.

<u>By Island</u>

The percentage of occupied units connected to public sewer higher in Saipan (50.9%) and lower in Tinian (9.3%) and Rota (9.1%). The percentage of occupied units connected to septic tank or cesspool was higher in Tinian (90.3%) and Rota (90.1%) and lower in Saipan (48%).

<u>By Saipan Districts</u>

Within Saipan, the percentage of all occupied units connected to public sewer was highest in District 2 (85.1%), followed by District 3 (71.5%), lower in District 1 (33.4%) and District 4 (24.9%) and lowest in District 5 (11.5%). The percentage of all occupied units connected to septic tank or cesspool was highest in District 5 (87.5%) and lowest in District 2 (14.9%). See Chart H17.1 and Table H17.1 for detail.

Chart H17.1 Occupied Housing Units by Public Sewer Percent Distribution by District: CNMI 2017
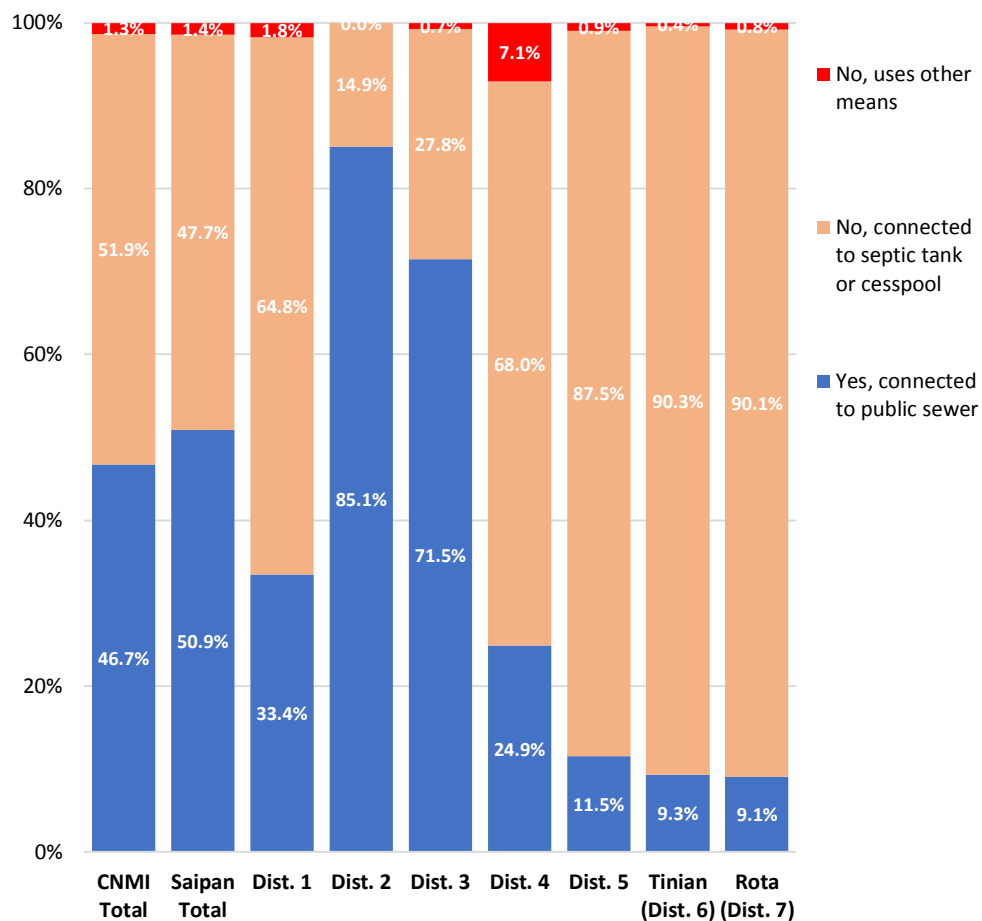
Table H17.1 Occupied Housing Units by Public Sewer, by Island, and by District: CNMI, 2017 4th Qtr.

Public Sewer Connection	CNMI Total	Saipan						Tinian (Dist. 6)	Rota (Dist. 7)
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Yes, connected to public sewer	7,808	7,655	1,448	1,745	3,950	279	233	84	69
No, connected to septic tank or cesspool	8,676	7,175	2,807	305	1,533	763	1,767	811	689
No, uses other means	224	214	76	-	40	79	19	4	6
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
				Percent within					
Yes, connected to public sewer	46.7%	50.9%	33.4%	85.1%	71.5%	24.9%	11.5%	9.3%	9.1%
No, connected to septic tank or cesspool	51.9%	47.7%	64.8%	14.9%	27.8%	68.0%	87.5%	90.3%	90.1%
No, uses other means	1.3%	1.4%	1.8%	0.0%	0.7%	7.1%	0.9%	0.4%	0.8%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
				Percent by					
Yes, connected to public sewer	100.0%	98.0%	18.5%	22.4%	50.6%	3.6%	3.0%	1.1%	0.9%
No, connected to septic tank or cesspool	100.0%	82.7%	32.4%	3.5%	17.7%	8.8%	20.4%	9.4%	7.9%
No, uses other means	100.0%	95.6%	34.1%	0.0%	17.7%	35.4%	8.4%	1.7%	2.7%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Trash Collection   H18.1

CNMI Total

Units that subscribed to trash collection service was 40.6% of all occupied housing units in the CNMI in 2017 while units not subscribing was 59.4%.

By Island

The percentage of occupied units that subscribed to trash collection service was higher in Saipan (44.5%), while lower in Tinian (8.9%) and Rota (1.6%). (Note that Tinian and Rota do not have companies that provide trach collection service like in Saipan. Trash collection service in these two islands are likely part of privately arranged landscaping/trach collection services.)

By Saipan Districts

Within Saipan, the percentage of all occupied units that subscribed to trash collection service was highest in Districts 5 (51.7%) and was lowest in District 4 (37.7%). See Chart H18.1 and Table H18.1 for detail.

Chart H18.1 Occupied Housing Units by Trash Collection
Percent Distribution by District: CNMI 2017
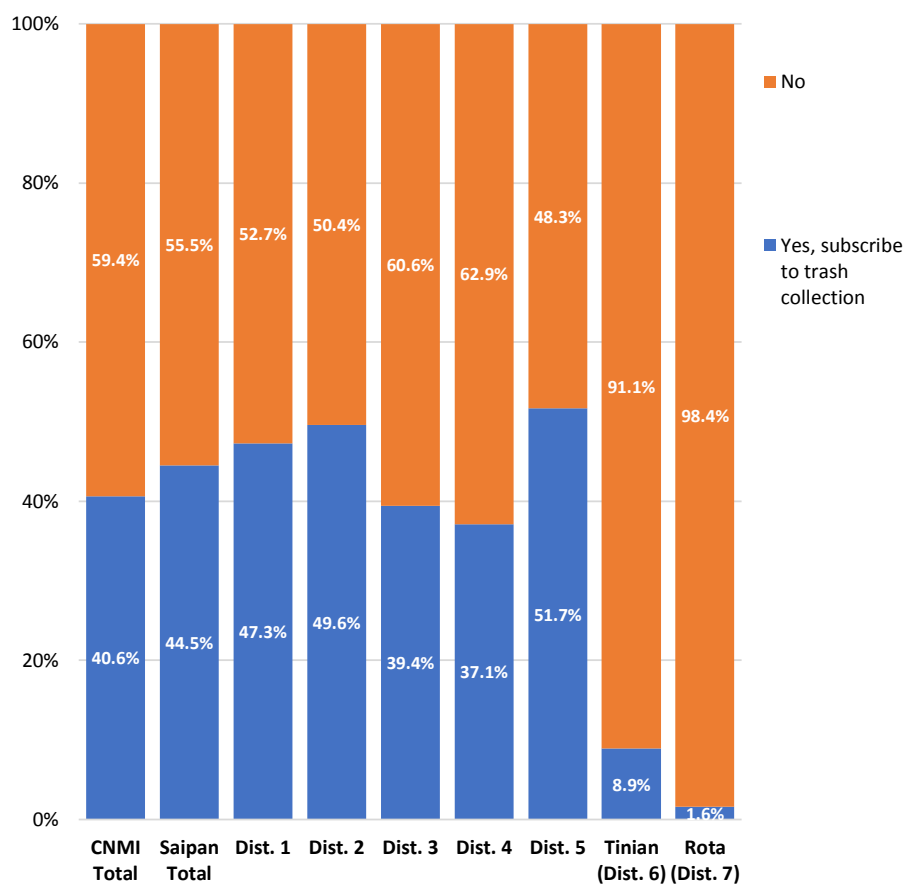
Table H18.1 Occupied Housing Units by Trash Collection, by Island, and by District: CNMI, 2017 4th Qtr.

| Trash Collection | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Yes, subscribe to trash collection	6,791	6,699	2,047	1,018	2,175	416	1,043	80	12
No	9,917	8,345	2,285	1,033	3,347	705	976	819	752
Grand Total	**16,708**	**15,045**	**4,332**	**2,051**	**5,522**	**1,121**	**2,018**	**899**	**764**
				Percent within					
Yes subscribe to trash collection	40.6%	44.5%	47.3%	49.6%	39.4%	37.1%	51.7%	8.9%	1.6%
No	59.4%	55.5%	52.7%	50.4%	60.6%	62.9%	48.3%	91.1%	98.4%
Grand Total	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**
				Percent by					
Yes subscribe to trash collection	100.0%	98.6%	30.1%	15.0%	32.0%	6.1%	15.4%	1.2%	0.2%
No	100.0%	84.2%	23.0%	10.4%	33.7%	7.1%	9.8%	8.3%	7.6%
Grand Total	**100.0%**	**90.0%**	**25.9%**	**12.3%**	**33.1%**	**6.7%**	**12.1%**	**5.4%**	**4.6%**

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Monthly Trash Collection Bill   H18.2

<u>CNMI Total</u>

The monthly trash bill median amount was $25.00 while the mean amount was $25.06 for all units that subscribed to trash collection service, in the CNMI in 2017. Units with a monthly bill less than $30.00 was 36.9%; units that paid between $30 and $49 was 35.8%; while units that paid $50 or more was 27.9%.

<u>By Island</u>

In Saipan, the monthly trash bill median amount was $25.00 while the mean amount was $25.52 for all units that subscribed to a trash collection service. Units with a monthly bill less than $30.00 was 36.2%; units that paid between $30 and $49 was also 36.1%; while units that paid $50 or more was 27.7%. Almost all units that subscribed to trash collection service were in Saipan (99%), hence, Saipan's percent distribution was the same as the whole CNMI's.

In Tinian, the monthly trash bill median amount was $5.00 while the mean amount was $13.40 for all units that subscribed to a trash collection service. Units with a monthly bill less than $30.00 was 85.0% while units that paid between $30 and $49 was 15.0%.

In Rota, there was only few units that reported paying for a trash collection service and not enough cases to derive reliable monthly bill amount estimate. See Chart H18.2 and Table H18.2 for detail.

Chart H18.2 Units with Trash Collection Monthly Bill Amount
Percent Distribution by District: CNMI 2017
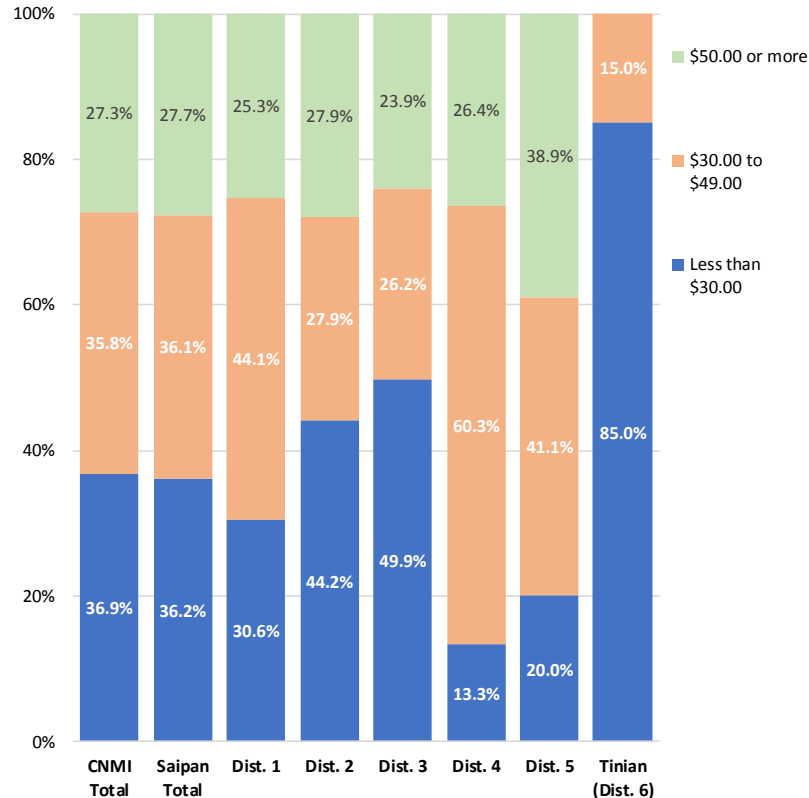
By Saipan Districts

Within Saipan, no difference in the monthly trash bill median amount, it was $25 in all districts. The mean amount ranged from a low of $21.87 in District 4 to a high of $28.68 in District 1. The percentage of units that paid less than $30 for trash collection was highest in District 3 (49.9%) and was lowest in District 4 (13.3%). The percentage of units that paid between $30 and $49 was highest in District 4 (60.3%) and was lowest in District 3 (26.2%). The percentage of units that paid $50 or more was highest in District 5 (38.9%) and was lowest in District 3 (23.9%).

Table H18.2 Occupied Housing Units by Monthly Trash Bill, by Island, and by District: CNMI, 2017 4th Qtr.

Monthly Trash Bill	CNMI Total	Saipan						Tinian (Dist. 6)
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5	
Less than $30.00	2,214	2,144	512	407	974	46	205	65
$30.00 to $49.00	2,150	2,139	739	257	512	210	420	11
$50.00 or more	1,638	1,638	424	257	467	92	399	-
Grand Total	6,003	5,921	1,675	920	1,952	349	1,024	76
Median	$25.00	$25.00	$25.00	$25.00	$25.00	$25.00	$25.00	$5.00
Mean	$25.06	$25.52	$28.68	$24.25	$21.87	$28.14	$26.02	$13.40
				Percent within				
Less than $30.00	36.9%	36.2%	30.6%	44.2%	49.9%	13.3%	20.0%	85.0%
$30.00 to $49.00	35.8%	36.1%	44.1%	27.9%	26.2%	60.3%	41.1%	15.0%
$50.00 or more	27.3%	27.7%	25.3%	27.9%	23.9%	26.4%	38.9%	0.0%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
				Percent by				
Less than $30.00	100.0%	96.8%	23.1%	18.4%	44.0%	2.1%	9.3%	2.9%
$30.00 to $49.00	100.0%	99.5%	34.4%	11.9%	23.8%	9.8%	19.6%	0.5%
$50.00 or more	100.0%	100.0%	25.9%	15.7%	28.5%	5.6%	24.3%	0.0%
Grand Total	100.0%	98.6%	27.9%	15.3%	32.5%	5.8%	17.1%	1.3%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

Note: Individual column items may not add to CNMI Total because Rota figures are not shown.

CNMI Occupied Housing Units by Air Conditioning   H19

CNMI Total

Units with air conditioning (all type of air con combined) was 80.0% of all occupied housing units in the CNMI in 2017 while units with no air conditioning was 20.0%. Units with 1 individual room unit was 42.0% of all occupied units; units with 2 or more room units was 32.8%; and units with central air system was 5.2%.

By Island

The percentage of occupied units with air conditioning was highest in Saipan (81.2%), followed by Rota (70.5%), then Tinian (67.3%).

By Saipan Districts

Within Saipan, the percentage of all units with air conditioning was highest in Districts 3 (85.0%) and was lowest in District 4 (74.4%). See Chart H19.1 and Table H19.1 for detail.

Chart H19.1 Occupied Housing Units by Air Conditioning
Percent Distribution by District: CNMI 2017
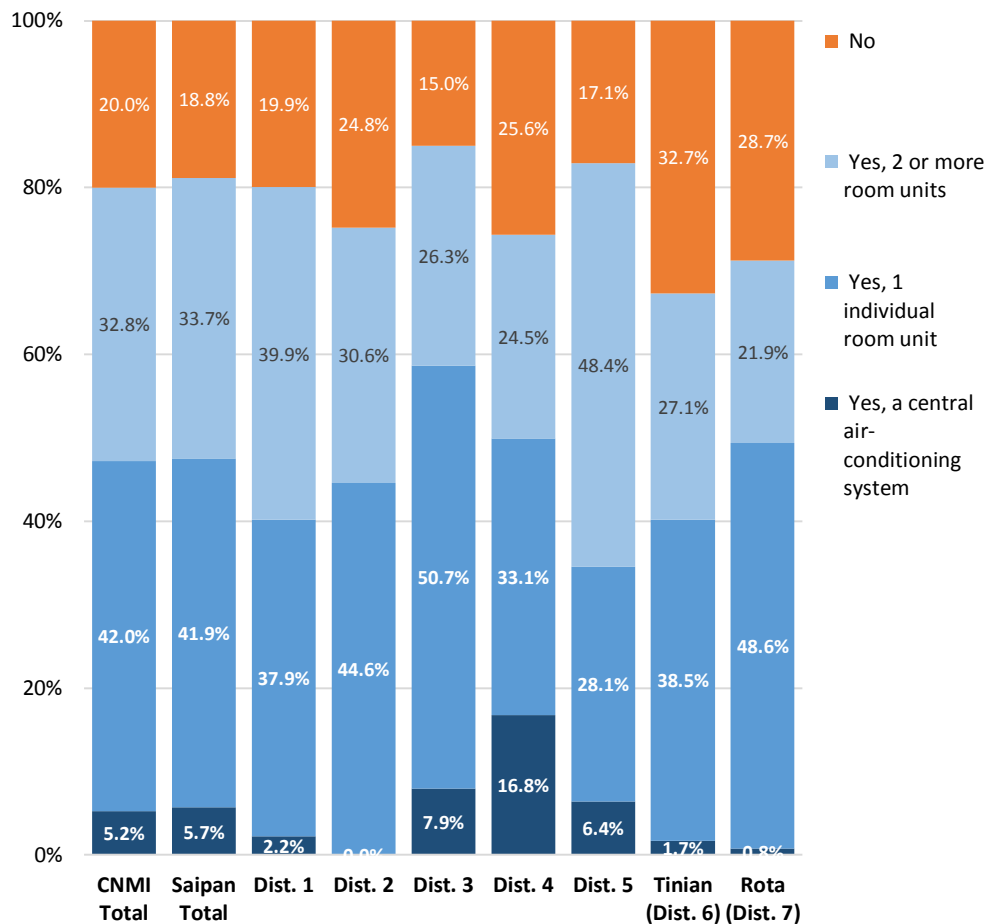
Table H19.1 Occupied Housing Units by Air Conditioning, by Island, and by District: CNMI, 2017 4th Qtr.

| Air Conditioning | CNMI Total | Saipan | | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Yes, a central air-conditioning system	874	853	97	-	438	188	130	15	6
Yes, 1 individual room unit	7,015	6,298	1,643	915	2,802	371	567	346	371
Yes, 2 or more room units	5,475	5,064	1,730	628	1,454	274	977	244	168
No	3,344	2,830	863	508	827	288	345	294	220
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
Percent within									
Yes, a central air-conditioning system	5%	6%	2%	0%	8%	17%	6%	2%	1%
Yes, 1 individual room unit	42%	42%	38%	45%	51%	33%	28%	39%	49%
Yes, 2 or more room units	33%	34%	40%	31%	26%	24%	48%	27%	22%
No	20%	19%	20%	25%	15%	26%	17%	33%	29%
Grand Total	100%	100%	100%	100%	100%	100%	100%	100%	100%
Percent by									
Yes, a central air-conditioning system	100.0%	97.6%	11.0%	0.0%	50.1%	21.5%	14.9%	1.7%	0.7%
Yes, 1 individual room unit	100.0%	89.8%	23.4%	13.0%	39.9%	5.3%	8.1%	4.9%	5.3%
Yes, 2 or more room units	100.0%	92.5%	31.6%	11.5%	26.6%	5.0%	17.8%	4.5%	3.1%
No	100.0%	84.6%	25.8%	15.2%	24.7%	8.6%	10.3%	8.8%	6.6%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Radio   H20

CNMI Total

Units with a radio was 23.1% of all occupied housing units in the CNMI in 2017 while units with no radio was 76.9%.

By Island

The percentage of occupied units with a radio at home was relatively higher in Saipan (23.6%), followed by Rota (20.5%), then Tinian (16.7%). Conversely, the percentage of units without a radio at home was highest in Tinian (83.3%), followed by Rota (79.5%), then Saipan (76.4%).

By Saipan Districts

Within Saipan, the percentage of all units with a radio was highest in Districts 5 (37.1%) and was lowest in District 2 (14.4%). See Chart H20.1 and Table H20.1 for detail.

Chart H20.1 Occupied Housing Units by Radio Percent Distribution by District: CNMI 2017

| District	No	Yes, have a radio
CNMI Total	76.9%	23.1%
Saipan Total	76.4%	23.6%
Dist. 1	74.1%	25.9%
Dist. 2	85.6%	14.4%
Dist. 3	79.7%	20.3%
Dist. 4	77.1%	22.9%
Dist. 5	62.9%	37.1%
Tinian (Dist. 6)	83.3%	16.7%
Rota (Dist. 7)	79.5%	20.5%

Table H20.1 Occupied Housing Units by Radio, by Island, and by District: CNMI, 2017 4th Qtr.

| Radio | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Yes, have a radio	3,851	3,545	1,122	295	1,123	257	748	150	157
No	12,857	11,500	3,210	1,756	4,399	864	1,270	749	608
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
Percent within									
Yes, have a radio	23.1%	23.6%	25.9%	14.4%	20.3%	22.9%	37.1%	16.7%	20.5%
No	76.9%	76.4%	74.1%	85.6%	79.7%	77.1%	62.9%	83.3%	79.5%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Percent by									
Yes, have a radio	100.0%	92.0%	29.1%	7.7%	29.1%	6.7%	19.4%	3.9%	4.1%
No	100.0%	89.4%	25.0%	13.7%	34.2%	6.7%	9.9%	5.8%	4.7%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by TV Set   H21.1

<u>CNMI Total</u>

Units with a TV set was 78.4% of all occupied housing units in the CNMI in 2017 while units with no TV was only 21.6%.

<u>By Island</u>

The percentage of occupied units with a TV set was higher in Saipan (78.7%) than in Tinian (75.9%) and Rota (75.6%).

<u>By Saipan Districts</u>

Within Saipan, the percentage of all units with a TV set was highest in Districts 5 (89.0%) and was lowest in District 4 (71.8%). See Chart H21.1 and Table H21.1 for detail.
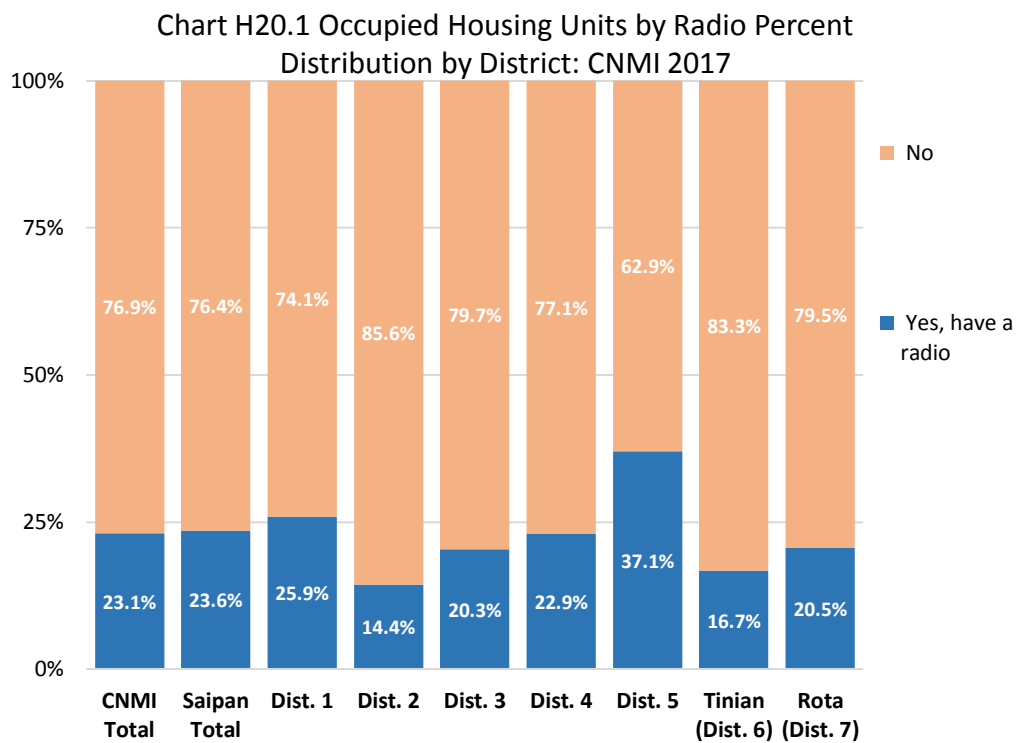
Chart H21.1 Occupied Housing Units by TV Set Percent Distribution by District: CNMI 2017
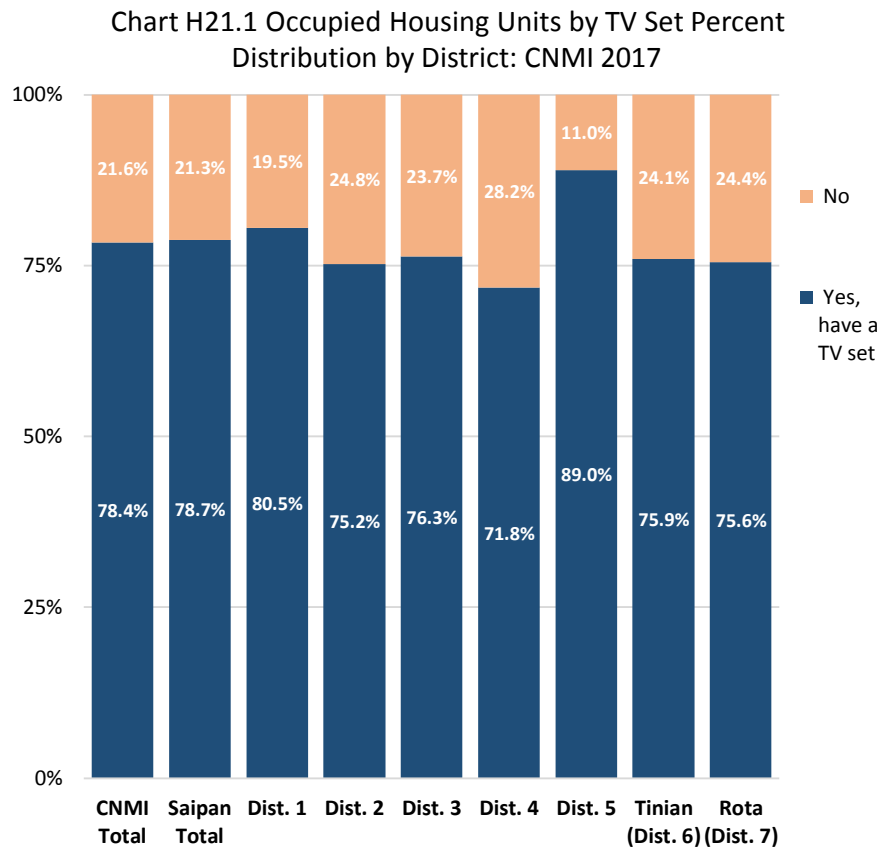
Table H21.1 Occupied Housing Units by TV Set, by Island, and by District: CNMI, 2017 4th Qtr.

| TV Set | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Yes, have a TV set	13,106	11,846	3,487	1,543	4,214	805	1,796	683	578
No	3,602	3,199	845	508	1,308	316	222	216	187
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
Percent within									
Yes, have a TV set	78.4%	78.7%	80.5%	75.2%	76.3%	71.8%	89.0%	75.9%	75.6%
No	21.6%	21.3%	19.5%	24.8%	23.7%	28.2%	11.0%	24.1%	24.4%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Percent by									
Yes, have a TV set	100.0%	90.4%	26.6%	11.8%	32.2%	6.1%	13.7%	5.2%	4.4%
No	100.0%	88.8%	23.4%	14.1%	36.3%	8.8%	6.2%	6.0%	5.2%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Cable TV   H21.2

CNMI Total

Units with a cable TV was 46.7% of all occupied housing units with a TV set in the CNMI in 2017 while units with no cable TV was 53.3%.

By Island

The percentage of units with a cable TV was higher in Rota (53.2%), followed by Saipan (46.6%), and lowest in Tinian (43.0%).

By Saipan Districts

Within Saipan, the percentage of all occupied units with a TV Set and cable was highest in Districts 4 (69.0%) and was lowest in District 2 (40.5%). See Chart H21.2 and Table H21.2 for detail.

Chart H21.2 Housing Units with TV set by Cable TV
Percent Distribution by District: CNMI 2017
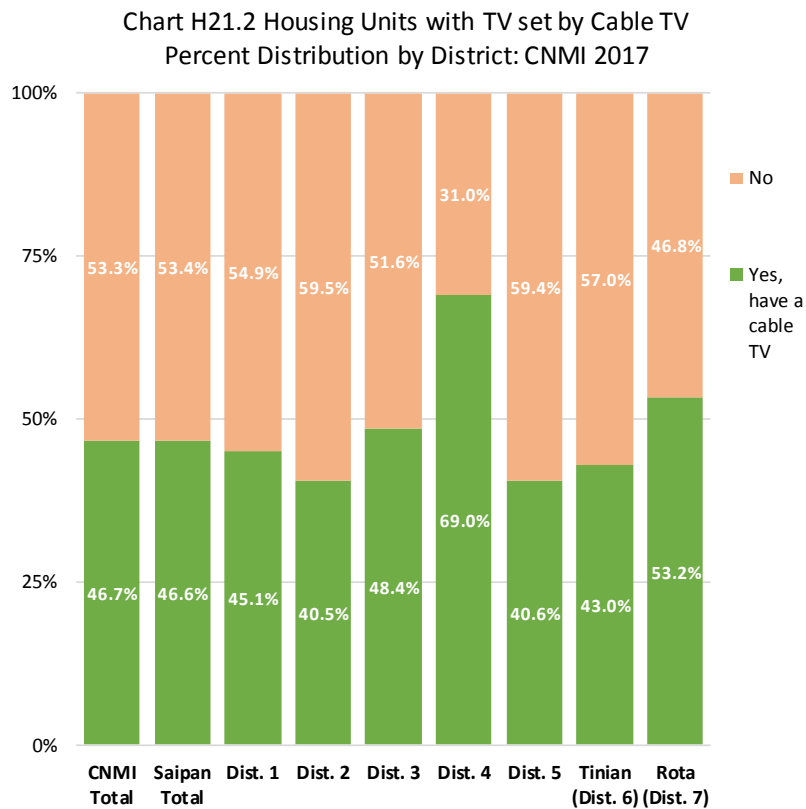
Table H21.2 Occupied Housing Units With TV Set by Cable TV, by Island, and by District: CNMI, 2017 4th Qtr.

| Cable TV | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Yes, have a cable TV	6,126	5,525	1,574	625	2,041	556	730	293	307
No	6,981	6,321	1,914	918	2,173	249	1,067	389	270
Grand Total	13,106	11,846	3,487	1,543	4,214	805	1,796	683	578
				Percent within					
Yes, have a cable TV	46.7%	46.6%	45.1%	40.5%	48.4%	69.0%	40.6%	43.0%	53.2%
No	53.3%	53.4%	54.9%	59.5%	51.6%	31.0%	59.4%	57.0%	46.8%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
				Percent by					
Yes, have a cable TV	100.0%	90.2%	25.7%	10.2%	33.3%	9.1%	11.9%	4.8%	5.0%
No	100.0%	90.5%	27.4%	13.2%	31.1%	3.6%	15.3%	5.6%	3.9%
Grand Total	100.0%	90.4%	26.6%	11.8%	32.2%	6.1%	13.7%	5.2%	4.4%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Computer at Home   H22

<u>CNMI Total</u>

Units with a computer was 53.9% of all occupied housing units in the CNMI in 2017 while units with no computer was 46.1%.

<u>By Island</u>

The percentage of occupied units with a computer was higher in Saipan (54.3%), followed by Tinian (51.5%), then Rota (49.2%).

<u>By Saipan Districts</u>

Within Saipan, the percentage of all occupied units with a computer was relatively higher in Districts 5 (57.9%) and District 3 (57.8%) and was lowest in District 4 (45.2%). See Chart H22.1 and Table H22.1 for detail.

Chart H22.1 Occupied Housing Units by Home Computer
Percent Distribution by District: CNMI 2017
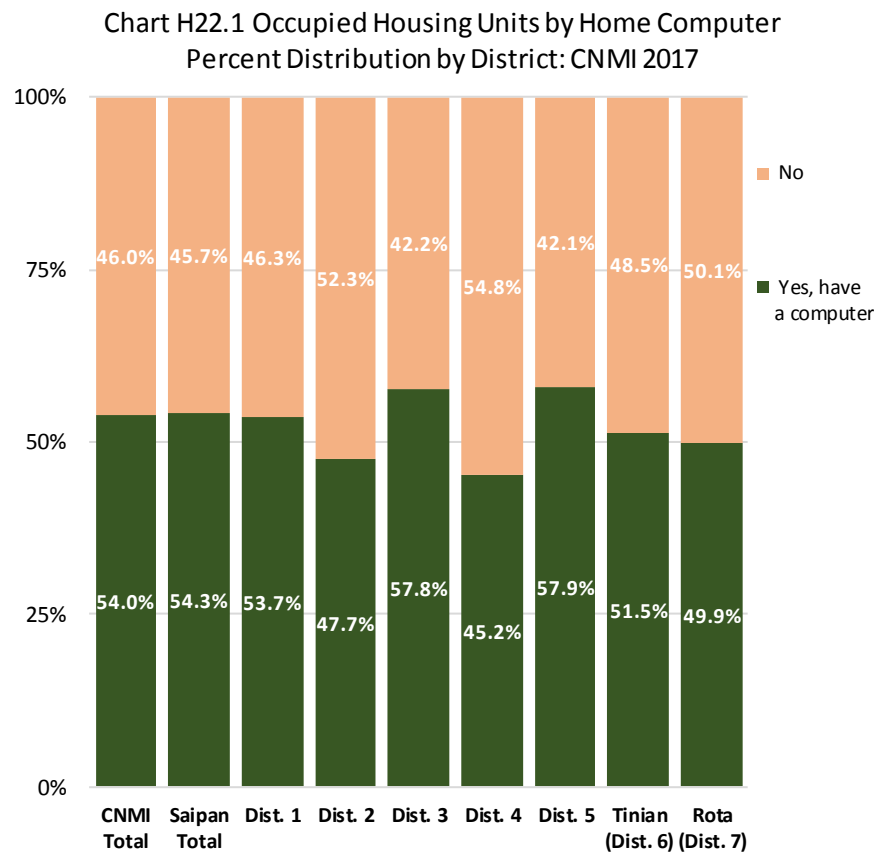
Table H22.1 Occupied Housing Unit by Computer at Home, by Island, and by District: CNMI, 2017 4th Qtr.

| Computer at Home | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Yes, have a computer	9,017	8,172	2,327	977	3,192	507	1,169	463	382
No	7,691	6,872	2,006	1,073	2,330	614	850	436	383
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
Percent within									
Yes, have a computer	54.0%	54.3%	53.7%	47.7%	57.8%	45.2%	57.9%	51.5%	49.9%
No	46.0%	45.7%	46.3%	52.3%	42.2%	54.8%	42.1%	48.5%	50.1%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Percent by									
Yes, have a computer	100.0%	90.6%	25.8%	10.8%	35.4%	5.6%	13.0%	5.1%	4.2%
No	100.0%	89.4%	26.1%	14.0%	30.3%	8.0%	11.0%	5.7%	5.0%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Internet   H23

CNMI Total

Units with Internet connection was 70.9% of all occupied housing units in the CNMI in 2017 while units with no Internet 29.1%. Units with a digital subscriber line (DSL) was 42.9% of all occupied units; units with cable modem connection was 7.1%; and units with other type of connection was 21.0%.

By Island

The percentage of units with Internet connection was slightly lower in Saipan (70.7%) than in Tinian (73.3%) and Rota (72.9%). The percentage of units with DSL connections was slightly higher in Rota (44.7%), followed by Saipan (42.9%), then Tinian (41.4%). The percentage of units with cable connections was slightly higher in Rota (9.6%) than in Tinian (8.3% and Saipan (6.8%). The percentage of units with other than DSL or Cable was slightly higher in Tinian (23.6%) than in Saipan (20.9%) and Rota (18.5%).

By Saipan Districts

 Within Saipan, the percentage of all occupied units with Internet was highest in Districts 3 (75.5%) and was lowest in District 4 (54.1%). See Chart H23.1 and Table H23.1 for detail.

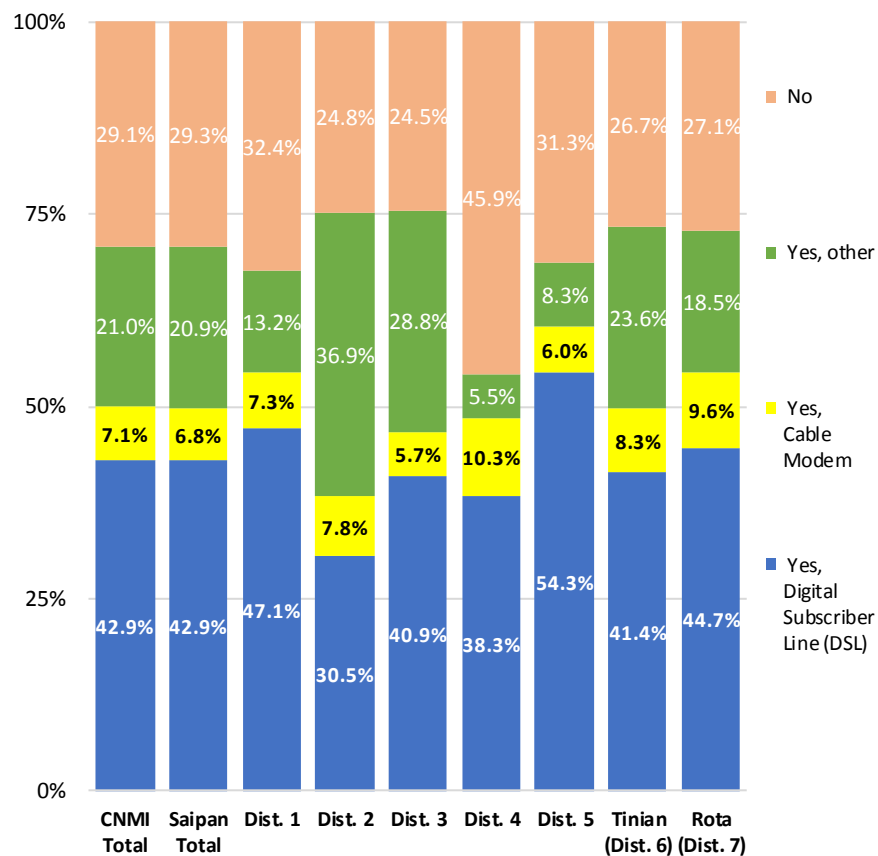Chart H23.1 Occupied Housing Units by Internet Percent Distribution by District: CNMI 2017

Table H23.1 Occupied Housing Units by Internet, by Island, and by District: CNMI, 2017 4th Qtr.

Internet	CNMI Total	Saipan						Tinian (Dist. 6)	Rota (Dist. 7)
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Yes, Digital Subscriber Line (DSL)	7,166	6,452	2,041	625	2,260	429	1,097	372	342
Yes, Cable Modem	1,178	1,030	315	161	316	116	122	75	74
Yes, other	3,504	3,150	571	758	1,593	62	167	212	142
No	4,860	4,412	1,405	508	1,352	514	632	240	208
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
				Percent within					
Yes, Digital Subscriber Line (DSL)	42.9%	42.9%	47.1%	30.5%	40.9%	38.3%	54.3%	41.4%	44.7%
Yes, Cable Modem	7.1%	6.8%	7.3%	7.8%	5.7%	10.3%	6.0%	8.3%	9.6%
Yes, other	21.0%	20.9%	13.2%	36.9%	28.8%	5.5%	8.3%	23.6%	18.5%
No	29.1%	29.3%	32.4%	24.8%	24.5%	45.9%	31.3%	26.7%	27.1%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
				Percent by					
Yes, Digital Subscriber Line (DSL)	100.0%	90.0%	28.5%	8.7%	31.5%	6.0%	15.3%	5.2%	4.8%
Yes, Cable Modem	100.0%	87.4%	26.8%	13.6%	26.9%	9.8%	10.4%	6.3%	6.3%
Yes, other	100.0%	89.9%	16.3%	21.6%	45.5%	1.8%	4.8%	6.1%	4.0%
No	100.0%	90.8%	28.9%	10.5%	27.8%	10.6%	13.0%	4.9%	4.3%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Landline   H24

<u>CNMI Total</u>

Units with a landline was 54.2% of all occupied housing units in the CNMI in 2017 while units with no landline was 45.8%.

<u>By Island</u>

The percentage of occupied units with a landline was higher in Tinian (59.5%), followed by Saipan (54.1%), then Rota (49.5%).

<u>By Saipan Districts</u>

Within Saipan, the percentage of all occupied units with a landline was highest in Districts 5 (67.4%) and was lowest in District 2 (46.8%). See Chart H24.1 and Table H24.1 for detail.
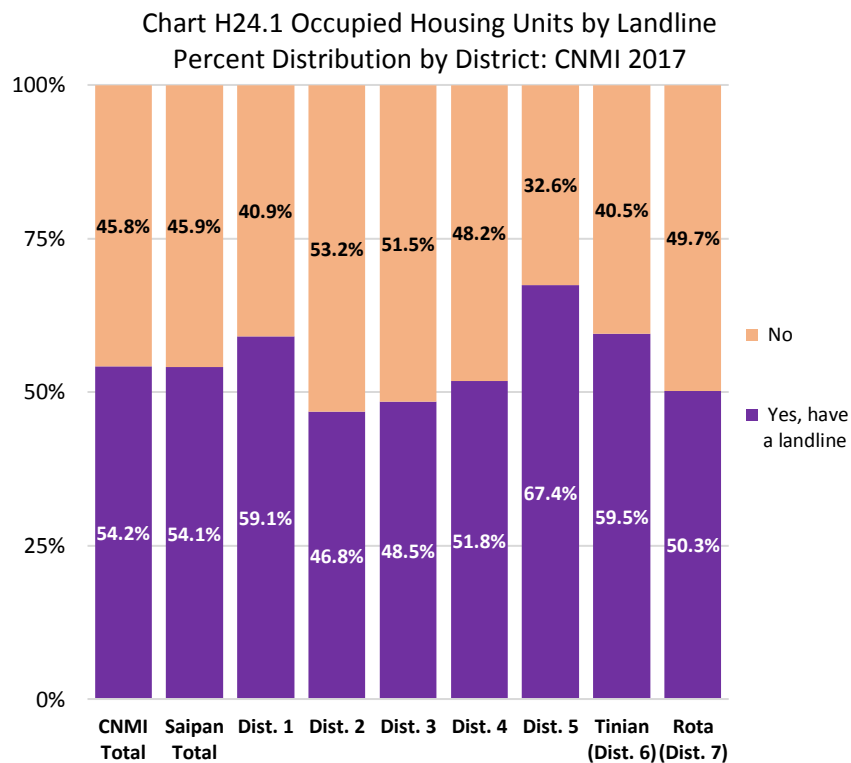
Chart H24.1 Occupied Housing Units by Landline
Percent Distribution by District: CNMI 2017

Table H24.1 Occupied Housing Units by Landline, by Island, and by District: CNMI, 2017 4th Qtr.

| Landline | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Yes, have a landline	9,057	8,138	2,559	960	2,676	581	1,361	535	384
No	7,651	6,907	1,773	1,091	2,846	541	658	364	380
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
Percent within									
Yes, have a landline	54.2%	54.1%	59.1%	46.8%	48.5%	51.8%	67.4%	59.5%	50.3%
No	45.8%	45.9%	40.9%	53.2%	51.5%	48.2%	32.6%	40.5%	49.7%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Percent by									
Yes, have a landline	100.0%	89.9%	28.3%	10.6%	29.6%	6.4%	15.0%	5.9%	4.2%
No	100.0%	90.3%	23.2%	14.3%	37.2%	7.1%	8.6%	4.8%	5.0%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Cell Phone   H25.1

CNMI Total

Units with a cell phone was 94.3% of all occupied housing units in the CNMI in 2017 while units with no cell phone was only 5.7%.

By Island

The percentage of occupied units with a cell phone was highest in Saipan (94.6%), followed by Tinian (92.6%), then Rota (90.8%).

By Saipan Districts

 Within Saipan, the percentage of all occupied units with a cell phone was highest in Districts 5 (96.3%) and was lowest in District 4 (89.9%). See Chart H25.1 and Table H25.1 for detail.
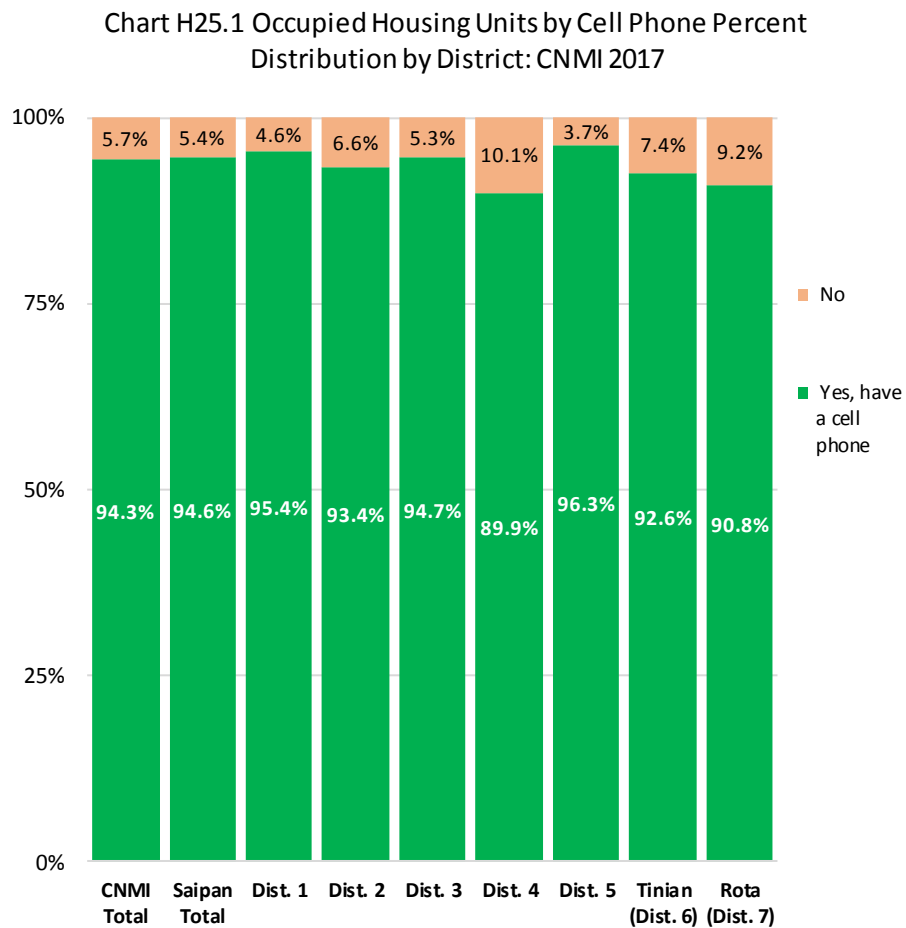
Chart H25.1 Occupied Housing Units by Cell Phone Percent
Distribution by District: CNMI 2017

Table H25.1 Occupied Housing Units by Cell Phone, by Island, and by District: CNMI, 2017 4th Qtr.

Cell at Home	CNMI Total	Saipan						Tinian (Dist. 6)	Rota (Dist. 7)
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Yes, have a cell phone	15,755	14,228	4,135	1,915	5,227	1,008	1,944	832	694
No	953	816	198	136	295	113	75	67	70
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
Percent within									
Yes, have a cell phone	94.3%	94.6%	95.4%	93.4%	94.7%	89.9%	96.3%	92.6%	90.8%
No	5.7%	5.4%	4.6%	6.6%	5.3%	10.1%	3.7%	7.4%	9.2%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Percent by									
Yes, have a cell phone	100.0%	90.3%	26.2%	12.2%	33.2%	6.4%	12.3%	5.3%	4.4%
No	100.0%	85.7%	20.7%	14.3%	30.9%	11.8%	7.9%	7.0%	7.3%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Number of Persons with Cell   H25.2
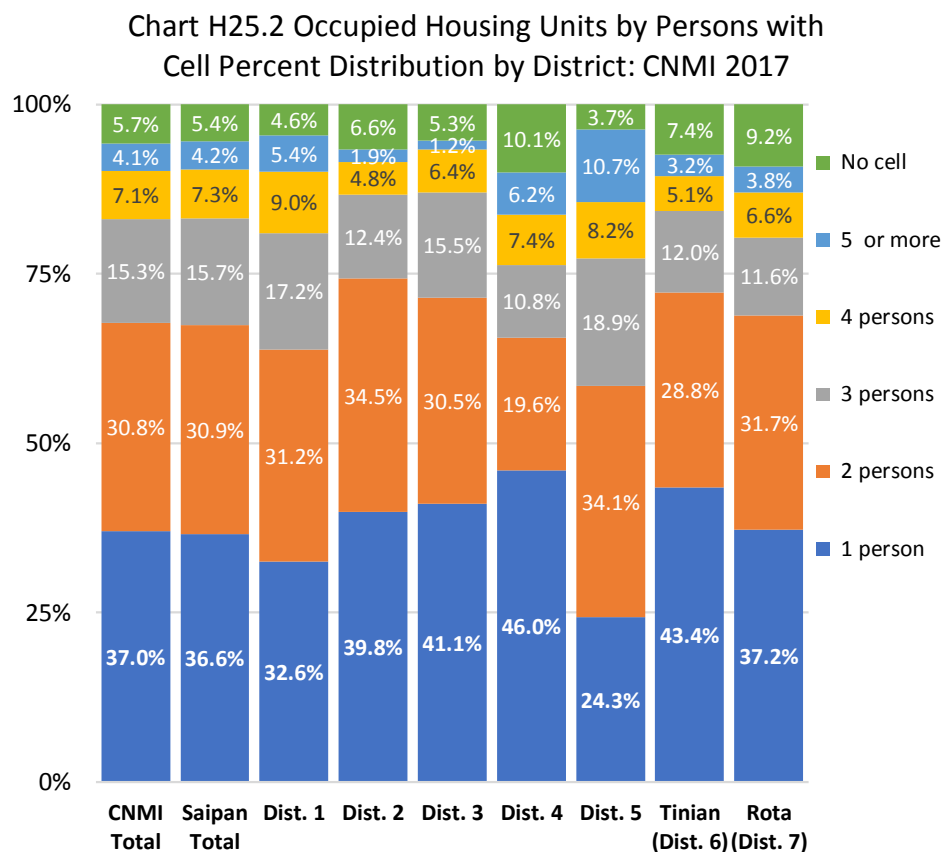
CNMI Total

The median number of persons with a cell phone was 2.0 while the mean was 2.1 per occupied housing unit in the CNMI in 2017. Units with one person with a cell was 37.0%, units with 2-persons with a cell was 30.8%, units with 3 persons with a cell was 15.3%, units with 4 persons with a cell was 7.1%, and units with 5 or more persons with a cell was 4.1%. Units with no cell was 5.7% of all occupied units.

By Island

The median number of persons with a cell phone per occupied unit was 2.0 in all three islands while the mean was 2.1 in Saipan, 2.0 in Rota and 1.9 Tinian. This means, relatively, more units in Saipan (27.1%) had more than 2 cell phones per unit compared to Tinian (20.3%).

By Saipan Districts

Within Saipan, the median number of persons with a cell (2.0) per occupied unit was the same in all districts while the mean ranged from 1.9 in District 2 and 3 to 2.6 in District 5. In other word, relatively more units in District 5 had 3 or more persons with a cell than in Districts 1 and 2. As shown in Chart H25.2 and Table H25.2, the percentage of all units with 1 person with a cell was highest in District 4 (46.0%) and lowest in District 5 (24.3%). The percentage of all units with 2 persons with a cell was highest in District 5 (34.1%) and lowest in District 4 (19.6%). The percentage of all units with 3 persons with a cell was highest in District 5 (18.9%) and lowest in District 4 (10.8%). The percentage of all units with 4 persons with a cell was highest in District 1 (9.0%) and lowest in District 2 (4.8%). The percentage of all

Chart H25.2 Occupied Housing Units by Persons with Cell Percent Distribution by District: CNMI 2017

units with 5 or more persons with a cell was highest in District 5 (10.7%) and lowest in District 3 (1.2%). The percentage of all units with no cell was highest in District 4 (10%) and lowest in District 1 (5%). See Chart H25.2 and Table H25.2 for detail.

Table H25.2 Occupied Housing Units by Number of Persons with Cell, by Island, and by District: CNMI, 2017 4t

Number of Persons with Cell	CNMI Total	Saipan						Tinian (Dist. 6)	Rota (Dist. 7)
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
1 person	6,178	5,503	1,411	817	2,269	516	491	390	284
2 persons	5,151	4,650	1,353	707	1,682	219	689	259	242
3 persons	2,555	2,359	746	255	855	121	381	108	88
4 persons	1,189	1,092	391	98	353	83	166	46	51
5 or more	683	625	233	38	68	69	216	29	29
No cell	953	816	198	136	295	113	75	67	70
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
Median	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Mean	2.1	2.1	2.2	1.9	1.9	2.2	2.6	1.9	2.0
					Percent within				
1 person	37.0%	36.6%	32.6%	39.8%	41.1%	46.0%	24.3%	43.4%	37.2%
2 persons	30.8%	30.9%	31.2%	34.5%	30.5%	19.6%	34.1%	28.8%	31.7%
3 persons	15.3%	15.7%	17.2%	12.4%	15.5%	10.8%	18.9%	12.0%	11.6%
4 persons	7.1%	7.3%	9.0%	4.8%	6.4%	7.4%	8.2%	5.1%	6.6%
5 or more	4.1%	4.2%	5.4%	1.9%	1.2%	6.2%	10.7%	3.2%	3.8%
No cell	5.7%	5.4%	4.6%	6.6%	5.3%	10.1%	3.7%	7.4%	9.2%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
					Percent by				
1 person	100.0%	89.1%	22.8%	13.2%	36.7%	8.4%	7.9%	6.3%	4.6%
2 persons	100.0%	90.3%	26.3%	13.7%	32.6%	4.3%	13.4%	5.0%	4.7%
3 persons	100.0%	92.3%	29.2%	10.0%	33.5%	4.7%	14.9%	4.2%	3.5%
4 persons	100.0%	91.9%	32.9%	8.2%	29.7%	7.0%	14.0%	3.9%	4.3%
5 or more	100.0%	91.5%	34.1%	5.6%	10.0%	10.2%	31.7%	4.2%	4.3%
No cell	100.0%	85.7%	20.7%	14.3%	30.9%	11.8%	7.9%	7.0%	7.3%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Number of Vehicle   H26

<u>CNMI Total</u>

The median number of vehicles was 1.0 and the mean was 1.2 in the CNMI in 2017. Units with 1 vehicle was 45.7% of all occupied housing units, units with 2 vehicles was 22.7%, units with 3 vehicles 6.4%, units with 4 or more vehicles was 2.5%, while units with no vehicles was 22.8%.

<u>By Island</u>

The median number of vehicles per occupied unit was 1.0 in all three islands while the mean was 1.2 in Saipan and 1.1 in both Tinian and Rota which means relatively more units in Saipan had more than 1 vehicle compared to Tinian and Rota. For example, as shown in Table H26.1, 2.7% of all occupied units had 4 or more vehicles in Saipan, compared to 1.1% in Tinian and zero in Rota.

<u>By Saipan Districts</u>

Within Saipan, the mean number of vehicles per occupied units was highest in District 5 (1.5) and lowest in District 2 and 3 (both 1.0). This means more units in District 5 have more than 1 vehicle per unit than in Districts 2 and 3. As shown in Chart H26.1 and Table H26.1, the percentage of all units with 1 vehicle was highest in District 3 (48.6%) and lowest in District 4 (39.9%). The percentage of units with 2 vehicles was highest in District 5 (29.8%) and lowest in District 3 (18.1%). The percentage of units with 3 vehicles was highest in District 5 (11.0%) and lowest in District 2 (3.8%). The percentage of units with 4 or more vehicles was highest in District 1 (4.9%) and lowest in District 2 (1.0%). The percentage of units with no vehicles was highest in District 2 (29.4%) and lowest in District 5 (10.7%).
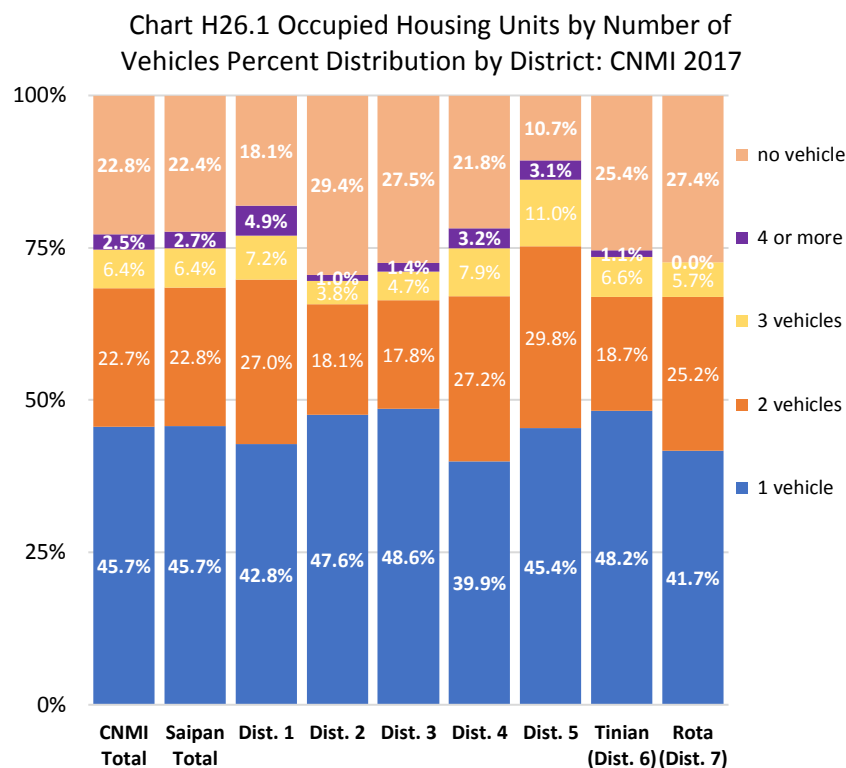

Chart H26.1 Occupied Housing Units by Number of Vehicles Percent Distribution by District: CNMI 2017

Table H26.1 Occupied Housing Units by Vehicles, by Island, and by District: CNMI, 2017 4th Qtr.

| Vehicles | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
no vehicle	3,802	3,364	784	604	1,517	245	215	229	209
1 vehicle	7,629	6,877	1,854	976	2,684	448	916	433	318
2 vehicles	3,789	3,427	1,168	372	980	305	602	169	193
3 vehicles	1,066	964	313	79	262	88	222	59	44
4 or more	422	413	213	21	79	36	63	10	-
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
Median	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Mean	1.2	1.2	1.4	1.0	1.0	1.3	1.5	1.1	1.1
				Percent within					
no vehicle	22.8%	22.4%	18.1%	29.4%	27.5%	21.8%	10.7%	25.4%	27.4%
1 vehicle	45.7%	45.7%	42.8%	47.6%	48.6%	39.9%	45.4%	48.2%	41.7%
2 vehicles	22.7%	22.8%	27.0%	18.1%	17.8%	27.2%	29.8%	18.7%	25.2%
3 vehicles	6.4%	6.4%	7.2%	3.8%	4.7%	7.9%	11.0%	6.6%	5.7%
4 or more	2.5%	2.7%	4.9%	1.0%	1.4%	3.2%	3.1%	1.1%	0.0%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
				Percent by					
no vehicle	100.0%	88.5%	20.6%	15.9%	39.9%	6.4%	5.7%	6.0%	5.5%
1 vehicle	100.0%	90.1%	24.3%	12.8%	35.2%	5.9%	12.0%	5.7%	4.2%
2 vehicles	100.0%	90.5%	30.8%	9.8%	25.9%	8.0%	15.9%	4.4%	5.1%
3 vehicles	100.0%	90.4%	29.4%	7.4%	24.6%	8.3%	20.8%	5.5%	4.1%
4 or more	100.0%	97.7%	50.4%	5.0%	18.7%	8.6%	15.0%	2.3%	0.0%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Number of Boat   **H27**

CNMI Total

Units with a boat was only 3.4% of all occupied housing units in the CNMI in 2017 while units with no boat was 96.6%.

By Island

The percentage of units with a boat was slightly higher in Tinian (5.4%) than in Rota (3.6%) and in Saipan (3.2%).

By Saipan Districts

Within Saipan, the percentage of all occupied units with a boat was highest in Districts 5 (6.9%) and was lowest in District 3 (1.7%). See Chart H27.1 and Table H27.1 for detail.

Chart H27.1 Occupied Housing Units by Boats Percent Distribution by District: CNMI 2017

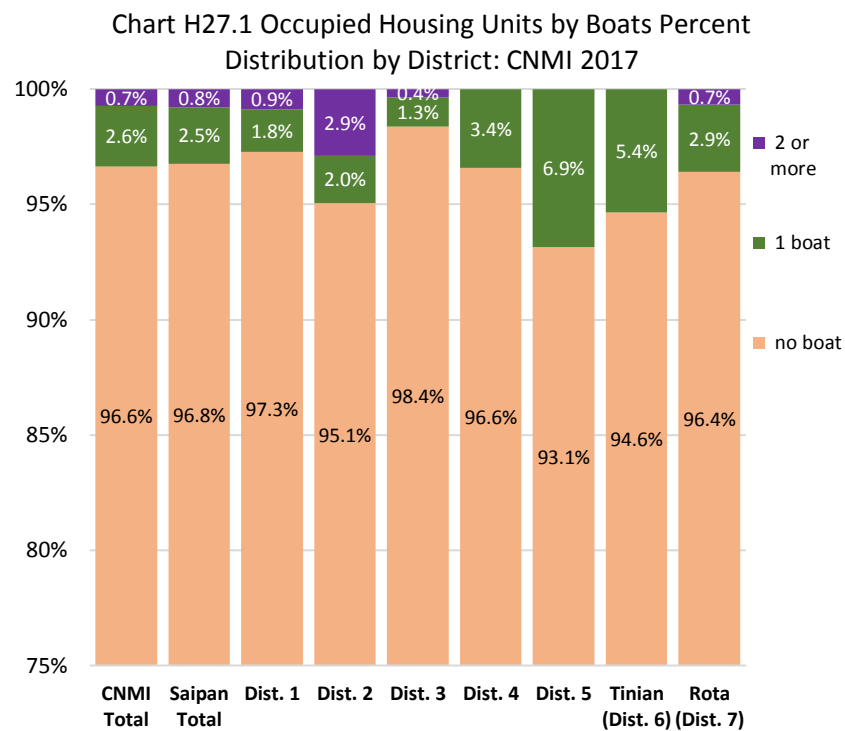| District	no boat	1 boat	2 or more
CNMI Total	96.6%	2.6%	0.7%
Saipan Total	96.8%	2.5%	0.8%
Dist. 1	97.3%	1.8%	0.9%
Dist. 2	95.1%	2.0%	2.9%
Dist. 3	98.4%	1.3%	0.4%
Dist. 4	96.6%	3.4%	
Dist. 5	93.1%	6.9%	
Tinian (Dist. 6)	94.6%	5.4%	
Rota (Dist. 7)	96.4%	2.9%	0.7%

Table H27.1 Occupied Housing Units by Boat, by Island, and by District: CNMI, 2017 4th Qtr.

| Boat | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
no boat	16,147	14,559	4,215	1,950	5,432	1,083	1,880	851	737
1 boat	439	369	79	42	71	38	139	48	22
2 or more	122	117	38	59	19	-	-	-	5
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
Percent within									
no boat	96.6%	96.8%	97.3%	95.1%	98.4%	96.6%	93.1%	94.6%	96.4%
1 boat	2.6%	2.5%	1.8%	2.0%	1.3%	3.4%	6.9%	5.4%	2.9%
2 or more	0.7%	0.8%	0.9%	2.9%	0.4%	0.0%	0.0%	0.0%	0.7%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Percent by									
no boat	100.0%	90.2%	26.1%	12.1%	33.6%	6.7%	11.6%	5.3%	4.6%
1 boat	100.0%	83.9%	18.0%	9.5%	16.1%	8.7%	31.5%	11.0%	5.1%
2 or more	100.0%	95.8%	31.3%	48.6%	15.9%	0.0%	0.0%	0.0%	4.2%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Monthly Cooking Gas Bill   H28

<u>CNMI Total</u>

The monthly cooking gas bill median amount was $25.00 while the mean amount was $27.92 for all occupied units that used gas for cooking in the CNMI in 2017. Units with a monthly bill between $15 to $29 was 66.8% of all units cooking with gas; units that paid less than $15 was 20.6%; units that paid between $30 and $49 was 9.2%; while units that paid $50 or more was 3.4%.

<u>By Island</u>

The cooking gas monthly bill median and mean amounts were higher in Rota, $37.00 and $35,56, respectively, than in Tinian ($24.50 and $28.88, respectively) and Saipan ($24.00 and $26.45, respectively). In other words, units in Saipan spent less on cooking gas monthly, on average, than in Tinian and Rota. As shown in Chart H28.1 and Table H28.1, the percentage of all units that paid between$30 to $49 was 47.1% in Rota, 14.9% in Tinian, but only 7.0% in Saipan.

Chart H28.1 Occupied Housing Units by Monthly Gas
Bill Percent Distribution by District: CNMI 2017
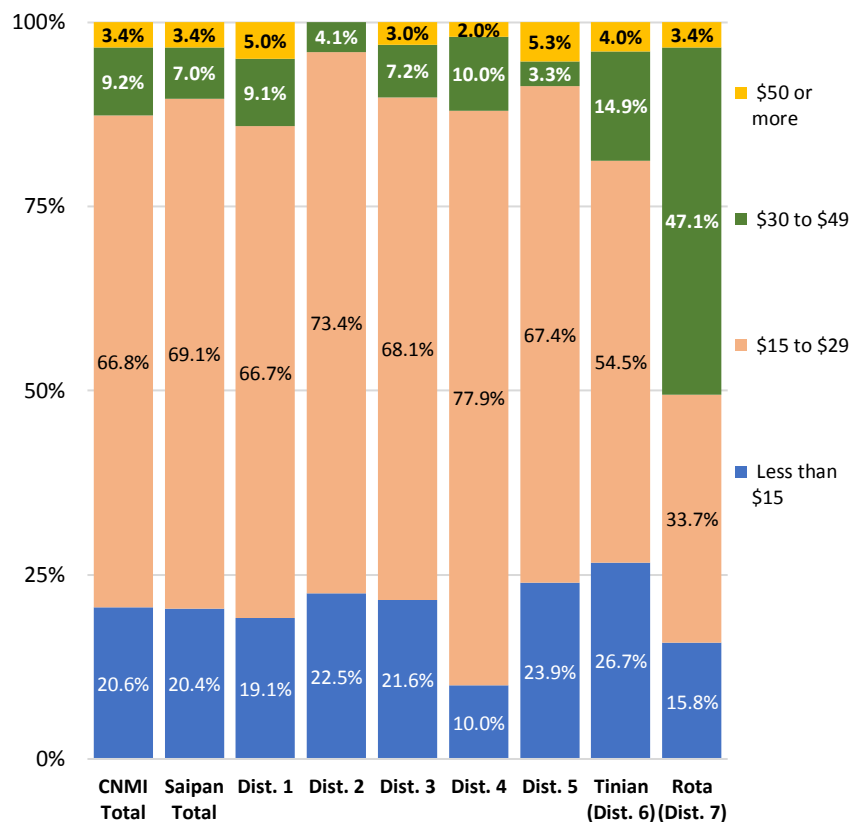
By Saipan Districts

Within Saipan, the cooking gas monthly bill median and mean amounts were higher in Districts 1 and 5 and lowest in District 2. The percentage of all units with cooking gas monthly bill between $15 and $29 was highest in District 4 (77.9%) and lowest in District 1 (66.7%). The percentage of all units with cooking gas monthly bill less than $15 was highest in District 5 (26.7%) and lowest in District 4 (10.0%). The percentage of all units with cooking gas monthly bill between $30 and $49 was highest in District 4 (10.0%) and lowest in District 3 (3.3%). The percentage of all units with cooking gas monthly bill $50 or more was highest in District 5 (5.3%) and lowest in District 4 (2.0%). See Chart H28.1 and Table H28.1 for detail.

Table H28.1 Occupied Housing Units by Monthly Cooking Gas Bill, by Island, and by District: CNMI, 2017 4th Qtr.

| Cooking Gas Monthly Bill | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Less than $15	3,072	2,751	747	426	1,064	103	411	217	104
$15 to $29	9,969	9,304	2,603	1,389	3,351	802	1,158	444	222
$30 to $49	1,378	947	357	77	354	103	57	121	310
$50 or more	511	456	195	-	149	20	92	32	22
Grand Total	14,930	13,458	3,902	1,892	4,918	1,029	1,718	815	657
Median	$25.00	$24.00	$27.00	$20.00	$20.00	$26.00	$26.50	$24.50	$37.00
Mean	$27.92	$26.45	$30.31	$22.00	$23.46	$26.24	$30.36	$28.88	$35.56
				Percent within					
Less than $15	20.6%	20.4%	19.1%	22.5%	21.6%	10.0%	23.9%	26.7%	15.8%
$15 to $29	66.8%	69.1%	66.7%	73.4%	68.1%	77.9%	67.4%	54.5%	33.7%
$30 to $49	9.2%	7.0%	9.1%	4.1%	7.2%	10.0%	3.3%	14.9%	47.1%
$50 or more	3.4%	3.4%	5.0%	0.0%	3.0%	2.0%	5.3%	4.0%	3.4%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
				Percent by					
Less than $15	100.0%	89.5%	24.3%	13.9%	34.6%	3.4%	13.4%	7.1%	3.4%
$15 to $29	100.0%	93.3%	26.1%	13.9%	33.6%	8.0%	11.6%	4.5%	2.2%
$30 to $49	100.0%	68.7%	25.9%	5.6%	25.7%	7.5%	4.1%	8.8%	22.5%
$50 or more	100.0%	89.3%	38.2%	0.0%	29.2%	4.0%	17.9%	6.3%	4.4%
Grand Total	100.0%	90.1%	26.1%	12.7%	32.9%	6.9%	11.5%	5.5%	4.4%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Monthly Water Bill   H29

CNMI Total

The monthly water bill median amount was $45.00 while the mean amount was $61.17 for all occupied units that paid for water in the CNMI in 2017. Units with a monthly bill between $25 to $49 was the highest percentage (35.4%) of all units that paid for water; units that paid between $50 to $74 was 22.7%; units that paid less than $25 was 17.7%; units that paid between $75 and $99 was 19.7%; units that paid between $100 and $149 was 7.0%; units that paid $150 to $199 was 4.1%; while units that paid $200 or more was 3.2%.

By Island

The water monthly bill median and mean amounts were higher in Rota ($50.00 and $71.41, respectively) than in Saipan ($45.00 and $61.51, respectively) and in Tinian ($40.00 and $52.41, respectively). In other words, units in Rota spent more on water monthly, on average, than in Saipan and in Tinian. For example, as shown in Chart H29.1 and Table H29.1, the percentage of all units that paid between $75 to $99 was 11.9% in Rota, 9.7% in Saipan, but only 8.8% in Tinian.

Chart H29.1 Occupied Housing Units by Monthly Water Bill Percent Distribution by District: CNMI 2017
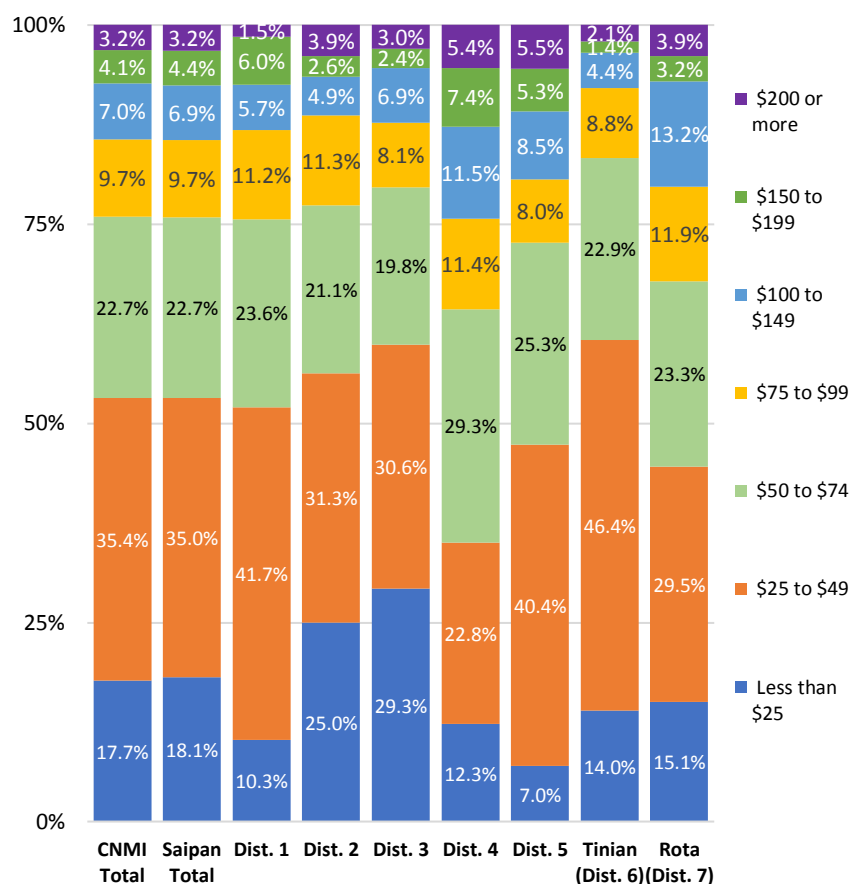
<u>By Saipan Districts</u>

Within Saipan, the water monthly bill median was highest in District 3 ($59) and lowest in Districts 1 and 2 ($40.00). The mean amount was highest in Districts 5 ($73.35) and lowest in District 3 ($54.98). The percentage of all units that paid between $25 and $49 was highest in District 1 (41.7%) and lowest in District 4 (22.8%). The percentage of all units that paid between $50 and $74 was highest in District 4 (29.3%) and lowest in District 3 (19.8%). The percentage of all units that paid less than $25 was highest in District 3 (29.3%) and lowest in District 5 (7.0%). The percentage of all units that paid between $75 and $99 was the same in Districts 1, 2, and 4 and the same in Districts 3 and 5. The percentage of all units that paid between $100 and $149 was highest in District 4 (11.5%) and lowest in District 2 (4.9%). The percentage of all units that paid between $150 and $199 was highest in District 4 (7.4%) and lowest in District 3 (2.4%). The percentage of all units that paid between $200 or more was highest in District 5 (5.5%) and lowest in District 1 (2.5%). See Chart H29.1 and Table H29.1 for detail.

Table H29.1 Occupied Housing Units by Monthly Water Bill, by Island, and by District: CNMI, 2017 4th Qtr.

| Monthly Water Bill | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Less than $25	2,452	2,231	394	391	1,200	116	131	118	102
$25 to $49	4,902	4,310	1,595	489	1,252	215	759	392	200
$50 to $74	3,144	2,794	901	330	810	276	476	193	158
$75 to $99	1,347	1,191	427	176	330	108	150	75	81
$100 to $149	971	845	217	77	283	109	160	37	89
$150 to $199	574	540	230	40	99	70	101	12	22
$200 or more	439	394	57	61	121	51	104	18	27
Grand Total	13,828	12,306	3,821	1,564	4,096	944	1,881	844	678
Median	$45.00	$45.00	$40.00	$40.00	$59.00	$50.00	$45.00	$40.00	$50.00
Mean	$61.17	$61.51	$58.55	$58.18	$54.98	$72.10	$73.35	$52.41	$71.41
				Percent within					
Less than $25	17.7%	18.1%	10.3%	25.0%	29.3%	12.3%	7.0%	14.0%	15.1%
$25 to $49	35.4%	35.0%	41.7%	31.3%	30.6%	22.8%	40.4%	46.4%	29.5%
$50 to $74	22.7%	22.7%	23.6%	21.1%	19.8%	29.3%	25.3%	22.9%	23.3%
$75 to $99	9.7%	9.7%	11.2%	11.3%	8.1%	11.4%	8.0%	8.8%	11.9%
$100 to $149	7.0%	6.9%	5.7%	4.9%	6.9%	11.5%	8.5%	4.4%	13.2%
$150 to $199	4.1%	4.4%	6.0%	2.6%	2.4%	7.4%	5.3%	1.4%	3.2%
$200 or more	3.2%	3.2%	1.5%	3.9%	3.0%	5.4%	5.5%	2.1%	3.9%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
				Percent by					
Less than $25	100.0%	91.0%	16.1%	15.9%	48.9%	4.7%	5.4%	4.8%	4.2%
$25 to $49	100.0%	87.9%	32.5%	10.0%	25.5%	4.4%	15.5%	8.0%	4.1%
$50 to $74	100.0%	88.8%	28.7%	10.5%	25.8%	8.8%	15.1%	6.1%	5.0%
$75 to $99	100.0%	88.5%	31.7%	13.1%	24.5%	8.0%	11.2%	5.5%	6.0%
$100 to $149	100.0%	87.0%	22.3%	7.9%	29.2%	11.2%	16.4%	3.8%	9.2%
$150 to $199	100.0%	94.2%	40.2%	7.0%	17.3%	12.1%	17.5%	2.1%	3.8%
$200 or more	100.0%	89.9%	13.1%	13.9%	27.6%	11.6%	23.7%	4.0%	6.1%
Grand Total	100.0%	89.0%	27.6%	11.3%	29.6%	6.8%	13.6%	6.1%	4.9%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Occupied Housing Units by Public Utility Water   H30

CNMI Total

Units that paid for water from public utility was 87.6% of all occupied housing units in the CNMI in 2017 while units that did not pay for water from a public utility was 12.4%.

By Island

The percentage of occupied units that paid for water from public utility was highest in Tinian (97.7%), followed by Rota (88.6%) and then Saipan (86.9%).

By Saipan Districts

Within Saipan, the percentage of all occupied units that paid for water from a public utility was highest in Districts 5 (93.2%) and was lowest in District 2 (82.9%).

Chart H30.1 Occupied Housing Units by Public Utility
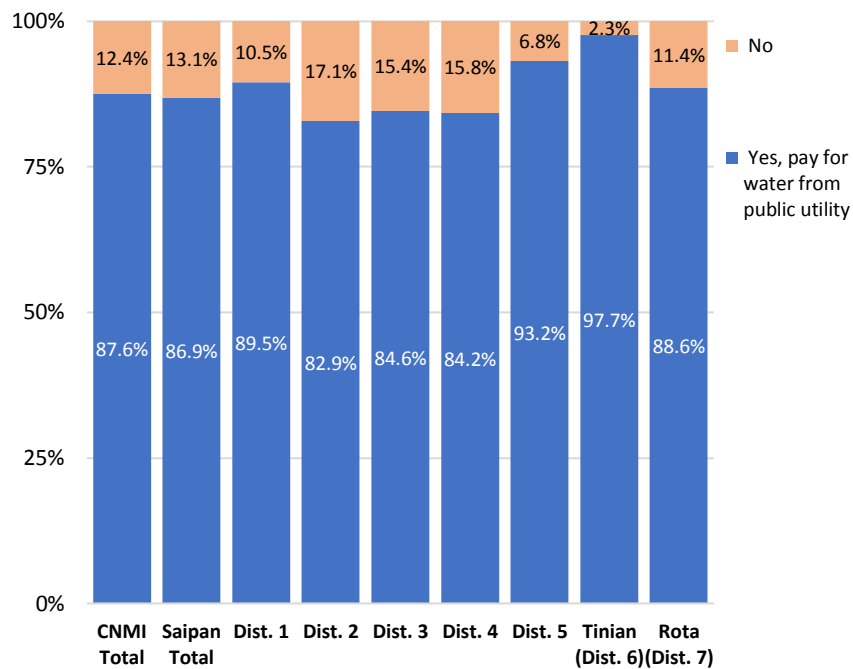Water Percent Distribution by District: CNMI 2017

Table H30.1 Occupied Housing Units by Public Utility Water, by Island, and by District: CNMI, 2017 4th Qtr.

| Public Utility Water | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Yes, pay for water from public utility	14,631	13,076	3,877	1,700	4,674	944	1,880	878	677
No	2,077	1,969	455	351	848	177	138	21	87
Grand Total	16,708	15,045	4,332	2,051	5,522	1,121	2,018	899	764
Percent within									
Yes, pay for water from public utility	87.6%	86.9%	89.5%	82.9%	84.6%	84.2%	93.2%	97.7%	88.6%
No	12.4%	13.1%	10.5%	17.1%	15.4%	15.8%	6.8%	2.3%	11.4%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Percent by									
Yes, pay for water from public utility	100.0%	89.4%	26.5%	11.6%	31.9%	6.5%	12.9%	6.0%	4.6%
No	100.0%	94.8%	21.9%	16.9%	40.8%	8.5%	6.7%	1.0%	4.2%
Grand Total	100.0%	90.0%	25.9%	12.3%	33.1%	6.7%	12.1%	5.4%	4.6%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

CNMI Owner-Occupied Housing Units by Home Value   H31

CNMI Total

The home value median amount was $80,000 while the mean amount was $143,846 for all owner-occupied units in the CNMI in 2017. Units with a home value between $50,000 and $99,999 was the highest percentage (30.9%) of all owner-occupied units; units less than $50,000 was 24.3%; units between $100,000 and $149.999 was 18.5%; units between $150,000 and 299,999 was 17.8%; while units with $300,000 or more was 8.5%.

By Island

The home value median amount was highest in Tinian ($85,000), followed by Saipan ($80,000), then Tinian ($75,00). The mean amount was highest in Saipan ($167,276), followed by Tinian ($127,350), then Rota ($92,957). In other words, self-declared home value, in general was lower in Rota than in Saipan and Tinian. As shown, in Chart 31.1 and Table 31.1, percentage of units valued between $50,000 and $99,999 was 41.4% in Rota, 38.6% in Tinian and 29.7% in Saipan.

Chart H31.1 Owner-Occupied Housing Units by Home
Value Percent Distribution by District: CNMI 2017
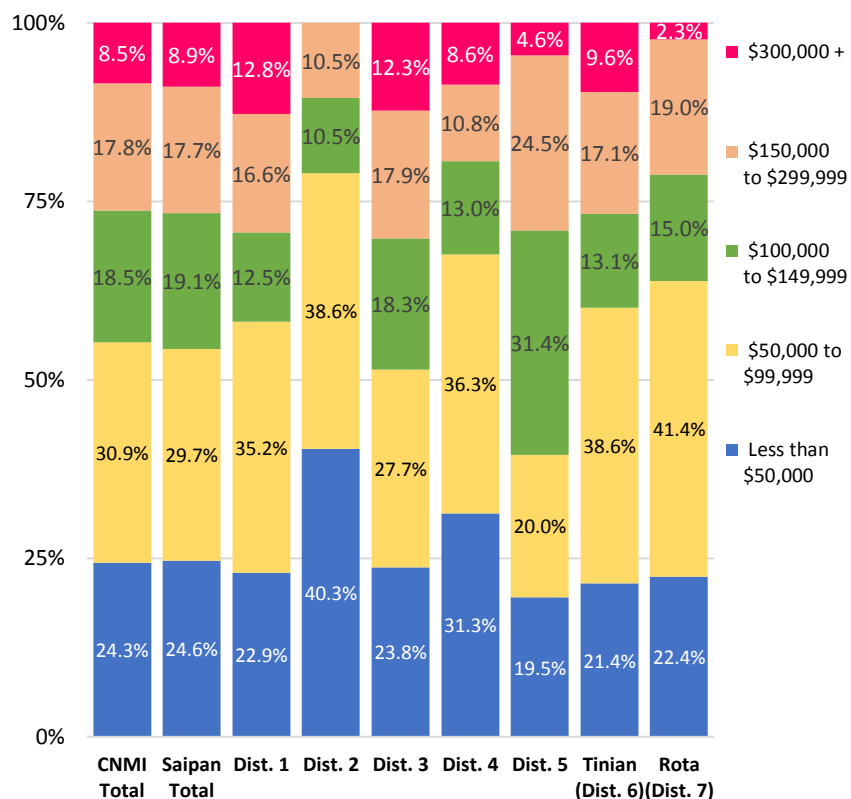
<u>By Saipan Districts</u>

Within Saipan, home value median was highest in District 5 ($100,00) and lowest in District 2 ($50,000) while the mean amount was highest in District 4 ($323,914) and lowest in District 2 ($61,500). The percentage of all units with home value less than $50,000 was highest District 2 (40.3%) and lowest in District 5 (19.5%). The percentage of all units with home values between $50,000 and $99,999 was highest District 2 (38.6%) and lowest in District 5 (20.0%). The percentage of all units with values between $100,000 and $149,999 was highest District 5 (31.4%) and lowest in District 2 (10.5%). The percentage of all units with values between $150,000 and $299,999 was highest in District 5 (24.5%) and lowest in District 2 (10.5%). The percentage of all units with values $300,000 or more was highest District 1 (12.8%) and lowest in District 2. See Chart 31.1 and Table 31.1 for more detail.

Table H31.1 Owner-Occupied Housing Units by Home Value, by Island, and by District: CNMI, 2017 4th Qtr.

| Home Value | CNMI Total | Saipan | | | | | | Tinian (Dist. 6) | Rota (Dist. 7) |
		Total	Dist. 1	Dist. 2	Dist. 3	Dist. 4	Dist. 5		
Less than $50,000	959	862	212	80	180	197	193	39	59
$50,000 to $99,999	1,217	1,039	327	77	209	228	198	69	109
$100,000 to $149,999	730	667	116	21	139	82	310	24	39
$150,000 to $299,999	701	620	154	21	135	68	242	31	50
$300,000 +	335	311	119	-	93	54	45	17	6
Grand Total	3,941	3,498	927	199	756	629	987	180	263
Median	$80,000	$80,000	$70,000	$50,000	$95,000	$72,500	$100,000	$85,000	$75,000
Mean	$143,856	$167,276	$133,604	$61,500	$323,914	$155,310	$130,184	$127,350	$92,957
					Percent within				
Less than $50,000	24.3%	24.6%	22.9%	40.3%	23.8%	31.3%	19.5%	21.4%	22.4%
$50,000 to $99,999	30.9%	29.7%	35.2%	38.6%	27.7%	36.3%	20.0%	38.6%	41.4%
$100,000 to $149,999	18.5%	19.1%	12.5%	10.5%	18.3%	13.0%	31.4%	13.1%	15.0%
$150,000 to $299,999	17.8%	17.7%	16.6%	10.5%	17.9%	10.8%	24.5%	17.1%	19.0%
$300,000 +	8.5%	8.9%	12.8%	0.0%	12.3%	8.6%	4.6%	9.6%	2.3%
Grand Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
					Percent by				
Less than $50,000	100.0%	89.8%	22.2%	8.4%	18.7%	20.5%	20.1%	4.0%	6.1%
$50,000 to $99,999	100.0%	85.3%	26.8%	6.3%	17.2%	18.8%	16.2%	5.7%	9.0%
$100,000 to $149,999	100.0%	91.4%	15.8%	2.9%	19.0%	11.2%	42.5%	3.2%	5.4%
$150,000 to $299,999	100.0%	88.5%	22.0%	3.0%	19.3%	9.7%	34.5%	4.4%	7.1%
$300,000 +	100.0%	93.0%	35.5%	0.0%	27.8%	16.2%	13.5%	5.2%	1.8%
Grand Total	100.0%	88.8%	23.5%	5.0%	19.2%	16.0%	25.1%	4.6%	6.7%

Source: Labor Force Survey CNMI, 2017 4th Qtr.

Appendix A:
The 2017 Labor Force Survey Methodology

THE PURPOSE OF THE SURVEY

The 2017 Commonwealth of the Northern Mariana Islands Labor Force Survey (CNMI LFS) is the latest of several that have been conducted in the CNMI since the 1990s under the CNMI Department of Commerce, Central Statistics Division (CSD). The main purpose of the survey was to collect adequate data to profile labor force participation measures in the Commonwealth. However, the survey went beyond just collecting data on labor force and included other population and housing characteristics. Please see attached questionnaire for details on items included in this survey.

THE TARGET POPULATION AND GEOGRAPHY OF THE LFS

The target population of the 2017 LFS included the entire CNMI population and housing units. Specifically, it included all persons and occupied housing units on the islands of Saipan, Tinian and Rota, but did not cover the Northern Islands.

THE SURVEY TIMELINE

The data collection for the 2017 LFS was conducted in the Fourth Quarter, 2017; it started on September 20, 2017 and ended on December 21, 2017. Data coding began the same week the field work began. Data entry began the second week of October and continued until the last week of December 2017. Data reconciliation and cleaning took place in December 2017 through January 2018.

THE SAMPLING DESIGN OF THE 2017 LFS

The 2017 LFS sampling design was like in prior surveys: a stratified random sampling with proportion to size and with minimum. The sample frame was the Housing Units Listing maintained by Commerce CSD last updated in 2014. Island was the first stratum and Village Group was the second stratum. A minimum of 30 was applied. The goal of the Survey was to produce reliable statistical estimates on the selected characteristics of housing and population in the CNMI.

A total of 1,278 housing units were randomly selected: 878 from Saipan, 200 from Tinian, and 200 from Rota. In addition, 938 additional housing units (724 from Saipan, 100 from Tinian, and 114 from Rota) were randomly selected and used as substitutes for situations where a housing unit was no longer occupied, demolished, converted into a business establishment, a householder refused to complete the survey, or for other reasons. Substitution was done to ensure that enough household data from each of the three islands was collected to adequately profile the population and housing units for the three islands.

THE SURVEY INSTRUMENT

The 2017 LFS questionnaire contained thirty-two (32) main housing questions with related sub-questions and thirty-five (35) main person questions with related sub-questions. The questionnaire is attached as Appendix B. Items in the questionnaires were taken from prior surveys and censuses instruments and adapted to meet the needs of this survey.

THE ADMINISTRATION OF THE SURVEY

The 2017 LFS was conducted out of the Central Statistics Division. CSD hired survey takers and clerks as temporary government worker based within CSD. Under the law, PL 7-35, enacted in 1990, CSD is the CNMI Government Office that is empowered with authority to conduct surveys in the CNMI. The CSD has been conducting similar surveys in the CNMI since the 1990s.

The Central Statistics Division hired 30 temporary employees for the Survey: 27 field survey takers and three office clerks. In addition, CSD in-house staff also worked directly on the on the survey. All field survey field workers and office clerks went through a 9-hour survey training session, spread over a three-day period. The first day focused on properly completing the survey questionnaire. The second day reviewed completing the questionnaire and focused on field work—how to use the CNMI Housing Register and Housing Maps to locate the preselected households in the sample, logistical, and other administrative work involved in the Survey. The third day was a field trial run where each of the enumerators went out to the field, located the houses in his/her assignment area, completed one questionnaire, returned to the Office, and had his/her work verified by the supervisor and the clerks. The three office clerks attended the same training with the field surveyors and were also trained in reviewing forms, coding, and data entry. Training was done separately for Saipan, Tinian and Rota.

THE PRIMARY MODE OF COMPLETING THE SURVEY QUESTIONNAIRE

The primary mode of collecting the data from each of the selected households in the LFS was through a personal visit and interview of the members of the selected households. As stated earlier, survey takers were hired and trained to locate each of the randomly selected housing units in the sample, conduct a personal interview, and complete an LFS questionnaire. In cases where follow-ups were necessary, telephone was also used to complete the questionnaires to minimize the cost and speed-up the follow-up process of completing forms. In all cases the first contact with each household was a personal visit; most questionnaires were completed this way, but telephone follow-up was also commonly used to complete or verify pieces of information. Telephone follow-ups were done by both field survey takers and in-house office clerks, depending on the situation. In situations where an office clerk can call a household and get the required piece of information, this was done; in other situations, the form was returned to the appropriate surveyor to do follow-up and complete the form.

THE TRACKING OF FIELD WORK

To help manage the Survey's daily operations, a database tracking system in MS Access was created to track the progress of each field worker, the entire group, and percentage of work done. Daily, an office clerk entered completed forms into the database tracking system and reports were produced to show the progress of the Survey's field work. Survey supervisors reviewed the progress of the field work, daily, and determined necessary changes, decisions, and actions to take.

QUESTIONNAIRE REVIEW FOR QUALITY CONTROL

Three office clerks were trained to review each questionnaire for completeness and either accepted or rejected each of the questionnaire submitted by the field surveyors. The enumerators were paid on a per completed form basis rather than per hour. To be paid, the questionnaire submitted must pass review. CSD settled on this form of payment based on past survey work experiences. At the beginning of the field work, work was deliberately slowed down to make sure that each enumerator was doing his/her job correctly before being encouraged to increase production. After the training, dates and times were set for field workers to come in to CSD for their field work assignment. As mentioned above, on the third day of training, each enumerator was given only one assignment area (AA) and one questionnaire; each went out to the field and completed that one questionnaire from within that AA; and brought the completed form back to CSD for review. Enumerators who passed the first questionnaire review were given a supply of questionnaires and

enough housing units to increase their field work production in the coming days. Those who did not do so well were re-trained or assisted in their weak areas. Many of the field enumerators have worked with prior censuses and surveys with valuable past experiences doing field survey work.

DATA CODING

Once a questionnaire passed the review stage, it was filed appropriately in a filing cabinet ready for coding. Code books from prior survey were updated and used for coding the 2017 LFS forms. Throughout each day, the clerks would review incoming forms, assisted field workers, and coded competed forms. Code books copies are available at CSD. Codes can also be obtained from the code tables in MS Access database that house the Survey data.

DATA ENTRY

A database in MS Access was created to store the survey data. A form application was created to enter the data from the completed questionnaire into the database. The database tables and form application contained validation rules that allowed only the acceptable set of values (variable domain) into each of the fields. The validation check helped to minimize the amount of keying errors entering the database.

DATA CLEANING AND PROCESSING

As the forms were entered into the database, frequencies and crosstabs were produced and used to look for possible errors and/or anomalies in the database records. Queries were created in MS Access to show what appeared to be possible errors and isolate, appropriately, these set of records. At the completion of data entry, possible errors were isolated and validated against the appropriate hard copy questionnaires.

The resulting clean dataset for the LFS resides in MS Access. It was also exported in SPSS (Statistical Package for the Social Sciences) and into a data model in MS Excel for tabulation and analysis.

SURVEY CHALLENGES

FIELD WORK DATA COLLECTION DELAY IN TINIAN AND ROTA

Saipan's field data collection went relatively smoothly and was completed within the Fourth Quarter, 2017. However, data collection in Tinian and Rota were not completed by the enumerators hired from these two islands and required sending field workers from Saipan to complete field work in those two islands. Although a problem in that Tinian and Rota hired field workers stopped working, Saipan workers sent to those two islands completed field work in these islands in a timely manner, so that data collection was completed with the month of December, as planned. Getting survey field work done in Tinian and Rota have always been problematic. It is important to keep this in mind and have a back-up plan in case field workers hired in these islands fail to complete their assignments.

WORK REASSIGNMENT

Several of the field workers started but either did not complete the areas assigned to them or were making slow progress. This required reassignment of field work to the more productive ones. It is important to keep in mind that going door-to-door completing survey questionnaire is not for everyone and to plan for options to make sure survey takers are able to complete the field work.

While form reviews, coding, and keying was completed in December they could have been done sooner, before the clerk contracts expired, so that clerks could have worked on data cleaning. Consider changing/refining workflows to make sure clerical support stay on task. Also, it might be time to experiment with electronic devices, such as tablets, for field data collection work.

Response Rate in the Labor Force Survey

Of the 1,278 households selected for the 2017 LFS, 1,122 of them were completed, a response rate of about 83% for the CNMI. By island, the response rate was 92% for Saipan; 89% for Tinian, and 68% for Rota. The 1,122 households had 3,491 persons for an average of 3.1 per household CNMI-wide. The average number of persons per household was 3.2 (2,598/809) in Saipan; 3.0 (525/177) in Tinian; and 2.7 (368/136) in Rota.

Estimated Population and Survey Weights in the Survey

The estimated total population for the CNM in 2017 was 52,263, according to the US Census Bureau[2]. This total was used in estimating the sub populations in this Survey. Table A.1.0 shows how the survey weights—used to estimate the sub-populations in the Survey—were derived. As discussed earlier, sampling was stratified by island and by village group. Table A.1.0, column 2 (C2), shows the number of

Table A.1.0 Population and Survey Weights Estimates

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
Island/Village Group	Count Of Occupied Housing Units in the Frame (2014)	Count of Housing Units Sampled for the Survey	Count Of Housing Units Completed in the Survey	Count of Persons in the Survey	Avg Number of Persons Per Housing Unit in the Survey (C5/C4)	Estimated Population based on 2014 Frame and Survey Average (C2*C6)	Weight Adjustment (52,263/ 43,548)	2017 Population Estimates (C7*C8)	2017 LFS Person Weights (C9/C5)
CNMI Total	13,922	1,278	1,122	3,491	3.1	43,548	-	52,263	-
Saipan	12,536	878	809	2,598	3.2	39,633	-	47,565	-
As Matuis & Surrounding Areas	177	30	28	126	4.5	797	1.20	956	7.586500
San Roque Area	193	30	29	91	3.1	606	1.20	727	7.987030
Tanapag & Surrounding Areas	298	30	28	103	3.7	1,096	1.20	1,316	12.772750
Navy Hill & Puerto Rico	741	48	39	114	2.9	2,166	1.20	2,599	22.802360
Garapan & Surrounding Areas	2794	180	169	438	2.6	7,241	1.20	8,690	19.841100
Chalan Kiya Area	824	53	51	154	3.0	2,488	1.20	2,986	19.390240
Susupe & Chalan Kanoa	1440	93	90	291	3.2	4,656	1.20	5,588	19.201980
San Antonio Area	952	37	58	171	2.9	2,807	1.20	3,368	19.698590
Koblerville & Surrounding Areas	753	73	47	197	4.2	3,156	1.20	3,788	19.227520
Dandan & Surrounding Areas	773	50	49	176	3.6	2,776	1.20	3,332	18.932570
As Lito & Surrounding Areas	1186	77	68	192	2.8	3,349	1.20	4,019	20.931570
San Vicente & Surrounding Areas	882	57	57	196	3.4	3,033	1.20	3,640	18.570340
Kagman & Surrounding Areas	798	60	51	203	4.0	3,176	1.20	3,812	18.778410
Papago & Surrounding Areas	151		7	20	2.9	431	1.20	518	25.888390
As Teo & Surrounding Areas	186	30	23	79	3.4	639	1.20	767	9.705350
Capital Hill & Surrounding Areas	388	30	15	47	3.1	1,216	1.20	1,459	31.043210
Tinian	749	200	177	525	3.0	2,188		2,626	
San Jose	574	148	121	345	2.9	1,637	1.20	1,964	5.693150
Marpo	165	42	51	155	3.0	501	1.20	602	3.882750
Carolinas	10	10	5	25	5.0	50	1.20	60	2.400250
Rota	637	200	136	368	2.7	1,727		2,072	
Songsong - Teneto	263	80	61	160	2.6	690	1.20	828	5.174310
Songsong Surrounding Areas	15	10	3	11	3.7	55	1.20	66	6.000620
Sinapalo	305	93	61	162	2.7	810	1.20	972	6.000620
Sinapalo Surrounding Areas	54	17	11	35	3.2	172	1.20	206	5.891520

[2] United States Census Bureau

occupied housing units by island and by village group based on the 2014 sample frame; the count of randomly sampled housing units for the Survey in C3; the count of housing units completed in the Survey (C4), the count of persons captured in the Survey (C5), and the average number of persons per housing unit in the Survey (C6). The estimated total population based on the sample frame and survey average are shown in column 7, derived by multiplying C2 and C6; however, the resulting total population of 43,548 is less than the Bureau's estimate of 52,263. To scale the population estimates in C7 to the Bureau's total, C7 was multiplied by 1.2 (52,263/43,548). Survey weights by village group were, then, derived by dividing 2017 Population Estimates (C9) by the count of persons in the Survey (C5). These weights were then imputed appropriately to the individual records in the Survey's dataset and used to produce labor force participation measures shown in the body of this report.

APPENDIX B:

The 2017 CNMI Labor Force Survey Questionnaire

CNMI LFS (CNMI-LFS-2017)   CENTRAL STATISTICS DIVISION
                                                         CNMI DEPARTMENT OF COMMERCE

2016
LABOR FORCE SURVEY (LFS)
COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS

1st Visit

2nd Visit

3rd Visit

A. Island	B. Village	C. AA	D. Block	E. Map Spot

F1. Substitution:	1. Yes	2. No - *Skip to G.*	

F2. Substitution Reason:	1. Vacant – Regular	4. Other – Specify in Visit Notes	
	2. Vacant – Off-island/Away		
	3. Vacant – Demolished/Destroyed	9. Refusal	

F3-A. Island	F3-B. Village	F3-C. AA	F3-D. Block	F3-E. Map Spot

G. Location Description:

H. Respondent's Name:

I. Respondent's Contact Information:

J. Population:

K. Form Status:

     1. Completed: 2. Incomplete

       a. Form _____ of _____   3. Last Resort

Office Use:		
Reviewed by:		Date:
Coded by:		Date:
NAICS Coded by:		Date:
SOC Coded by:		Date:
Keyed by:		Date:

Enumerator (1) Use:	
Enumerator (1):	ID:
Signature:	Date:

Enumerator (2) Use:	
Enumerator (2):	ID:
Signature:	Date:

2017 CNMI LABOR FORCE SURVEY (LFS)

Notice: Response to this inquiry is required by law (**Public Law 7-35**).

By the same law, YOUR RESPONSES OR ANSWERS ARE CONFIDENTIAL
and will only be used for statistical purposes.

The 2016 Labor Force Survey (LFS) of Commonwealth of the Northern Mariana Islands counts each person at his or her "usual residence." The usual residence is the place where the person lives and sleeps most of the time.

Include:

➢ Everyone who usually lives here such as family members, house mates and roommates, foster children, roomers, boarders, and live-in employees

➢ Persons who are temporarily away on a business trip, on vacation, or in a general hospital

➢ College students who stay here while attending college

➢ Persons in the Armed Forces who live here, including local reservists temporarily deployed

➢ Newborn babies still in the hospital

➢ Children in boarding schools below the college level

➢ Persons who stay here most of the week while working even if they have a home somewhere else

➢ Persons with no other home who were staying here on September 1, 2017

DO NOT Include:

❖ Persons who usually live somewhere else

❖ Persons who are away in an institution such as a prison, mental hospital, or a nursing home

❖ College students who live somewhere else while attending college

❖ Persons in the Armed Forces who live somewhere else

❖ Persons who stay somewhere else most of the week while working

1a. **Please give me the name of each person living here on <u>September 1, 2017</u>, including all persons staying here who have no other home. If EVERYONE is staying here temporarily and usually lives somewhere else, give me the name of each person. Begin with the household member in whose name the home is owned, being bought, or rented. If there is no such person, start with any adult household member.**

Print last name, first name, and middle initial for each person .

1.	6.
2.	7.
3.	8.
4.	9.
5.	10.

1b. *If <u>EVERYONE</u> listed above is staying here only temporarily and usually lives somewhere else ASK* – **Where do these people usually live?**
Write their address here:

Q#	Question	CSD Office Use
H01A	**When you told me the names of persons living here on SEPTEMBER 1, 2017, did you leave anyone out because you were not sure if the person should be listed - for example, someone temporarily away on a business trip or vacation, a newborn baby still in the hospital, or a person who stays here once in a while and has no other home?** 1. Yes 2. No	
H01B	**When you told me the names of persons living here on SEPTEMBER 1,2017, did you include everyone even though you were not sure that the person should be listed - for example, a visitor who is staying here temporarily or a person who usually lives somewhere else?** 1. Yes 2. No	
H02	**Which best describes this building? Include all apartments, flats, etc., even if vacant.** 1. A one-family house detached from any other house 4. A building with more than 10 apartments 2. A one-family house attached to one or more houses 5. Other 3. A building with 2 to 10 apartments	
H03	**Is this (house/apartment/condominium) -** 1. Owned by someone in this household with a mortgage or loan 3. Rented for cash 2. Owned by someone in this household free and clear (without a mortgage) 4. Occupied without payment of cash rent	
H04	*If this house is RENTED FOR CASH (3) ASK -* **What is the total monthly rent?** $	
H05	**About what year was this building first built?**	
H06	**What is the MAIN type of material used for the outside walls of this building?** 1. Poured Concreate 3. Metal 5. Concrete & Metal 7. Pre-fabricated 2. Concrete Blocks 4. Wood 6. Concrete & Wood 8. Other	
H07	**What is the MAIN type of material used for the roof of this building?** 1. Poured Concreate 3. Wood 5. Other 2. Metal 4. Thatch	
H08	**How many rooms do you have in this house/apartment?** *Count living rooms, dining rooms, kitchens, and bedrooms, but do NOT count bathrooms, balconies, foyers, or halls.*	
H09	**How many bedrooms do you have?** *That is, how many bedrooms would you list if this (house/apartment) were on the market for sale or rent?*	
H10	**Do you have hot AND cold piped water?** 1. Yes, hot and cold piped water 2. No, only cold piped water 3. No piped water - *Skip to H12*	
H11	*If Yes (1) ASK -* **What type of energy powers your water heater?** 1. Electricity 2. Gas 3. Solar 4. Other	
H12	**Do you have complete plumbing? Complete plumbing includes running water, bathtub or shower and flush toilet.** 1. Yes 2. No	
H13	**Which FUEL is used MOST for cooking in this unit? -** *If multiple, ASK for the MOST Used cooking fuel.* 1. Electricity 2. Gas (LPG) 3. Butane 4. Solar 5. Other Fuels	
H14	**Do you have a complete kitchen? A complete kitchen includes stove, refrigerator, and sink with piped water.** 1. Yes 2. No	
H15	**Do you have a microwave oven?** 1. Yes 2. No	
H16	**Do you have a stand-alone freezer in this unit?** 1. Yes 2. No	
H17	**Do you get water from -** 1. A public system only 3. A cistern, tanks, or drums only 5. A public standpipe 2. A public system and cistern 4. Village water system 6. Some other source like an individual well or spring	

Q#	Question	CSD Office Use
H18	**Do you purchase drinking water?** 1. Yes 2. No	
H19	**Is this building connected to a public sewer?** 1. Yes, connected to public sewer 2. No, connected to septic tank or cesspool 3. No, uses other means	
H20A	**Do you pay or subscribe to a solid waste (trash) collection service(s)?** 1. Yes 2. No *- Skip to H21*	
H20B	**What was the last monthly bill for solid waste (trash) collection service(s)?** $	
H21	**Do you have air conditioning?** 1. Yes, a central air-conditioning system 3. Yes, 2 or more room units 2. Yes, 1 individual room unit 4. No	
H22	**Do you have a battery operated radio? -** *Exclude car radio.* 1. Yes 2. No	
H23	**Do you have a television set?** 1. Yes 2. No	
H23A	**Do you have Cable TV?** 1. Yes 2. No	
H24	**Do you have a computer at home?** 1. Yes 2. No	
H25	**Do you have internet access in your unit?** 1. Yes, Digital Subscriber Line (DSL) 3. Yes, other (specify): 2. Yes, Cable Modem 4. No	
H26	**Do you have a landline telephone in this unit?** 1. Yes 2. No	
H27	**Does anyone have a cellular phone in this unit?** 1. Yes 2. No	
SKIP	*- If No, SKIP to H28 -*	SKIP
H27A	**How Many household members have a cellular phone in this unit?**	
H27B	**How Many cellular phones does this unit have?**	
H28	**How many automobiles, vans, and trucks of one-ton capacity or less are kept at home for use by members of this household?**	
H29	**How many boats with a motor are kept for use by members of this household?**	
H30	*If H13 is 2. Gas (LPG) or 3. Butane ASK,* **What was the last monthly bill for** *GAS FOR COOKING* **for this unit?** $	
H31	**What was the last monthly bill for water for this unit?** $	
H31A	**Do you pay for water from a public utility?** 1. Yes 2. No	
SKIP	*- ASK ONLY if someone in this household OWNS OR IS BUYING this house; Otherwise SKIP to P01 -*	SP
H32	**What is the value of this dwelling; that is, how much do you think it would cost to build this dwelling now?** $	

Q#	Question	CSD Office Use
P01A	**Name** *(from Roster List - Page 1)*	
P01B	**Person Number** *(from Roster List - page 1)*	
P02	**Is … male or female?** 1. Male 2. Female	
P03	**How is … related to** *(Person 1)* 01. Householder 03. Natural or adopted son/daughter 05. Brother/sister 07. Grandchild 02. Spouse 04. Stepson/stepdaughter 06. Father/mother 08. Other relative: **If not related to Person 1:** 09. Roomer, boarder, or foster child 10. Domestic worker/helper 11. Unmarried partner 12. Other nonrelative	
P04	**What is …'s ethnicity?** *- Do not report more than 2 -* 1. 2.	
P05	**What is …'s date of birth? (Month/Day/Year)** Month: Day: Year:	
P05A	**Age:**	
P06	**What is …'s marital status?** 1. Now married 2. Separated 3. Widowed 4. Divorced 5. Never married	
P07	**Where was … born?** *Print the name of the village in CNMI or the name of the U.S. State or territory, island, or foreign country in the space provided.*	
P08	**Is … a CITIZEN of the United States?** 1. Yes, born in CNMI - *Skip to 11* 3. Yes, born abroad of US parent(s) 5. No, not citizen (Green card/Legal/FAS) 2. Yes, born in the U.S., Guam, or other US territory 4. Yes, U.S. citizen by naturalization 6. No, not citizen (Other)	
P09	**In what year did … come to CNMI to stay?**	
P10	**Why did … come to CNMI the first time?** 1. Employment 3. Dependent of employed person 5. Student – attending school/college 7. Medical reasons 9. Other, Specify: 2. Spouse of employed person 4. Family member of employed person 6. Missionary 8. Visiting/vacation	
P11A	**Where was …'s mother born?** *Print the name of the village in CNMI or the name of the U.S. State or territory, island, or foreign country in the space provided.*	
P11B	**Where was …'s father born?** *Print the name of the village in CNMI or the name of the U.S. State or territory, island, or foreign country in the space provided.*	
P12	**At any time since September 1, 2017, has .. attended regular school or college? Include only nursery school, kindergarten, elementary school, and schooling which leads to a high school diploma or a college degree. If "Yes," ask -- Public or private?** 1. No, has not attended since **September 1, 2017** 2. Yes, public school / public college 3. Yes, private school / private college	
P13A	**How much school has … COMPLETED? Read categories if person is unsure. Circle the number for the highest level COMPLETED or degree RECEIVED. If currently enrolled, mark the level of previous grade attended or highest degree received.** 31. No school completed 01. 1st 04. 4th 07. 7th 10. 10th 32. Nursery school 02. 2nd 05. 5th 08. 8th 11. 11th 33. Kindergarten 03. 3rd 06. 6th 09. 9th 12. 12th, no diploma 13. HIGH SCHOOL GRADUATE DIPLOMA or equivalent (GED) 14. Some college but no degree 18. Bachelor's degree (For example: BA, AB, BS) 15. Vocational Certification 19. Master's degree (For example: MA, MS, Med, MSW, MBA) 16. Associate degree in college Occupational program 20. Professional school degree (For example: MD, DDS, LLB, JD) 17. Associate degree in college Academic program 21. Doctorate degree (For example: PhD, EdD)	
P13B	*If HIGHER than Highschool Graduate (14 - 21) ASK -* **What was …'s major in academic college or vocational school?**	
P13C	**Where was this education attained?** 1. Northern Mariana Collage (NMC) 2. Northern Marianas Trades Institute (NMTI) 3. Other (Specify)	

Q#	Question	CSD Office Use
P14A	Does … have any grandchildren under the age of 18 living here? 1. Yes 2. No *- Skip to P15*	
P14B	Is … currently responsible for most of the basic needs of any grandchildren under the age of 18 who live here? 1. Yes 2. No	
P15A	Did … live in this house or apartment 1 year ago (on October 1, 2016)? 1. Born after October 1, 2016 *- Skip to next Person* 2. Yes *- Skip to P16* 3. No	
P15B	Where did … live 1 year ago? *Print the name of the village in CNMI, or the name of the U.S. State or territory, island or foreign country in the space provided.*	
P16	Does … speak a language other than English at home? 1. Yes 2. No *- SKIP to P17*	
P16A	What language does … speak?	
P16B	Does … speak this language more than English at home? 1. Yes 2. Speak Both Equally 3. No	
P17 - P20	**The following questions are about health insurance and disabilities.**	P17 - P20
P17	(Are you/Is …) Currently covered by any of the following types of health insurance or health coverage plans?	P17
P17A	Insurance through a current or former employer or union (of this person or another family member) 1. Yes 2. No	
P17B	Insurance purchased directly from an insurance company (by this person or another family member) 1. Yes 2. No	
P17C	Medicare, for people 65 and older, or people with certain diabilities 1. Yes 2. No	
P17D	Medicaid or any kind of federal government assisstance plan for those with low incomes or a disability 1. Yes 2. No	
P17E	TRICARE or other military health care 1. Yes 2. No	
P17F	VA (including those who have ever used or enrolled for VA health care) 1. Yes 2. No	
P17G	Local Medical programs for indigents 1. Yes 2. No	
P17H	Any other type of health insurance or health coverage plan: *Please Specify:* 1. Yes 2. No	
P18A	(Are you/Is …) deaf or (do you/does …) have difficulty hearing? 1. Yes 2. No	
P18B	(Are you/Is …) blind or (do you/does …) have difficulty seeing even when wearing glasses? 1. Yes 2. No	
P19A	Because of a physical, mental, or emotional condition, (do you/does …) have difficulty concentrating, remembering, or making decisions? 1. Yes 2. No	
P19B	(Do you/Does …) have difficulty walking or climbing stairs? 1. Yes 2. No	
P19C	(Do you/Does …) have difficulty dressing or bathing? 1. Yes 2. No	
P20	Because of a physical, mental, or emotional condition, (do you/does …) have difficulty doing errands alone such as visiting a doctor's office or shopping? 1. Yes 2. No	
SKIP	*– ASK ONLY if Respondent is Female and 15 Years or over – For Male Respondents,* **SKIP TO P22** *–*	SKIP
P21	How many babies has … ever had, not counting still births? Do not count stepchildren or children … has adopted.	

Q#	Question	CSD Office Use
SKIP	*– ASK ONLY if Respondent is 15 Years or over –*	SKIP
P22	**Has … ever been on active-duty military service in the Armed Forces of the <u>United States</u> or ever been in the <u>United States</u> military Reserves or the National Guard?** *"Active duty" does NOT include training for the military Reserves or National Guard.* 1. Yes, now on active duty 2. Yes, on active duty in past, but not now 3. Yes, service in Reserves only 4. No	
P23	**Did … work at any time LAST WEEK, either full time or part time?** *Work includes part-time work such as delivering papers, or helping without pay in a family business or farm; it also includes active duty in the Armed Forces. Work does NOT include own housework, school work, or volunteer work. Subsistence activity includes fishing, growing crops, etc., NOT primarily for commercial purposes.* 1. Yes, worked full time or part time at a job or business AND did NO subsistence activity 3. Yes, did subsistence activity only – *Skip to P26* 2. Yes, worked full time or part time at a job or business AND did subsistence activity 4. No – *Skip to P26*	
P24	**If this person did paid work ASK - How many hours did … work LAST WEEK at all jobs?** **SUBTRACT any time off And ADD any overtime or extra hours worked:**	
P25A	**How did … usually get to work last week?** 1. Car, Truck, or private van/bus 3. Boat 5. Motorcycle 7. Walked 9. Other method 2. Public van/bus 4. Taxicab 6. Bicycle 8. Worked at home	
P25B	**How many people, including … usually rode to work together?**	
P25C	**What time did … usually leave home to go to work?** Hour: Minute: a.m. p.m.	
P25D	**How many minutes did it usually take … to get from home to work last week?**	
P26	**Was … on layoff from a job or business LAST WEEK?** *If "No," ASK -* **Was … temporarily absent or on vacation from a job or business last week?** 1. Yes, on layoff 2. Yes, on vacation, illness, etc. 3. No, labor dispute, etc.	
P27	**Has … been looking for work during the last 4 weeks?** 1. Yes 2. No *- Skip to P29*	
P28	**Could … have taken a job LAST WEEK if one had been offered?** *If "No", ASK -* **For what reason?** 1. No, already has a job 2. No, temporarily ill 3. No, other reasons (in school, **etc**.) 4. Yes could have taken a job	
P29	**In what year did … last work, even for a few days?** *If Never worked, write "Never worked".*	
SKIP	*If "Never worked" or last worked in 2012 or earlier,* **SKIP to P33**	SKIP
P30 - P32	**The following questions ask about the job worked last week.** **If … had more than one job, describe the one … worked the most hours.** **If … didn't work, the questions refer to the most recent job or business since 2012.**	P30 - P32
P30	**For whom did … work?** *If now on active duty, write "Armed Forces"; otherwise, print the name of the company, business or other employer.*	
P31	**What kind of work was … Doing - OR - What is … Position Title?**	
P32	**Was … employee of:** 1. Private company or business or of an individual, for or of an individual, for wages, salary, commissions 2. CNMI Government 4. U.S. Government 6. Self employed 3. Municipal Government 5. Other Government 7. Working without pay	
P33	**Last year (2016), did … work, even for a few days, at a paid job or in a business or farm?** 1. Yes 2. No *- Skip to P36*	
P34	**How many weeks did … work in 2016? Count paid vacation, paid sick leave, and military service**	
P35	**During the weeks WORKED in 2016, how many hours did … usually work each week?**	

Q#	Question	CSD Office Use
P36 - P37	The following questions are about income received during 2016. If an exact amount is not known, accept a best estimate.	P36 - P37
P36A	How much … earn in income from wages, salary, commissions, bonuses, or tips? Report amount before deductions for taxes, bonds, dues, etc. $	
P36B	How much did … earn from (his/her) own nonfarm business, proprietorship, or partnership? Report net income after business or operating expenses. $	
P36C	How much did … earn from selling crops or garden products, fish, animals, or handicrafts? $	
P36D	Interest, dividends, net rental income, royalty income, or income from estates and trust. *Report even small amounts credited to an account.* $	
P36E	Supplement Security Income $	
P36F	Any public assistance or welfare payments from the state or local welfare office $	
P36G	Any other sources of income received regularly such as Veterans' (VA) payments $	
P36H	How much did … receive in Social Security payments or from retirement, survivor, or disability pension(s)? *For Social Security, include income payments to retired workers, dependents, and disabled workers. For retirement, include payments from companies, unions, Federal or local CNMI government, and U.S. military.* $	
P36I	How much did … receive in remittances from persons living in CNMI? $	
P36J	How much did … receive in remittances from Guam or the United States? $	
P36K	How much did … receive in remittances from all other places? $	
P36L	How much did … receive from unemployment compensation, child support or alimony, or any other REGULAR source of income? *Do NOT include lump-sum payments such as money from an inheritance or the sale property.* $	
P37	What was …'s total income in 2016? *Do not ask this question if 36A through 36L are complete. Instead, sum these entries and enter the amount below.* $	

2017 CNMI LABOR FORCE SURVEY (LFS)

INTERVIEWER REMINDERS CHECKLIST:

Be sure you have recorded —

| 1 | **Geographic information on the front cover of the questionnaire** |

| 2 | **The respondent's name and the respondent's telephone number (if any) in the appropriate boxes on the front cover.** |

| 3 | **Your signature (name) and the date in the boxes below on this page.** |

Also, be sure you have —

| 4 | **Completed as many of the questions as possible, including the last resort questions.** |

| 5 | **Entered the required information on the address listing page in the address register and on the map.** |

| 6 | **Written all entries legibly.** |