

# CNMI Survey - Dashboard

1,220

Viewed

236

Total Responses

160

Completed

67.8%

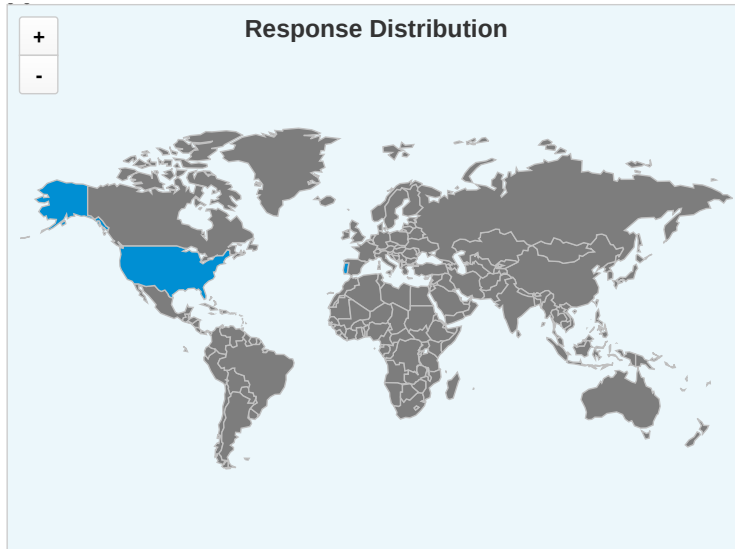
Completion Rate

76

Dropouts

13 min

Average Time

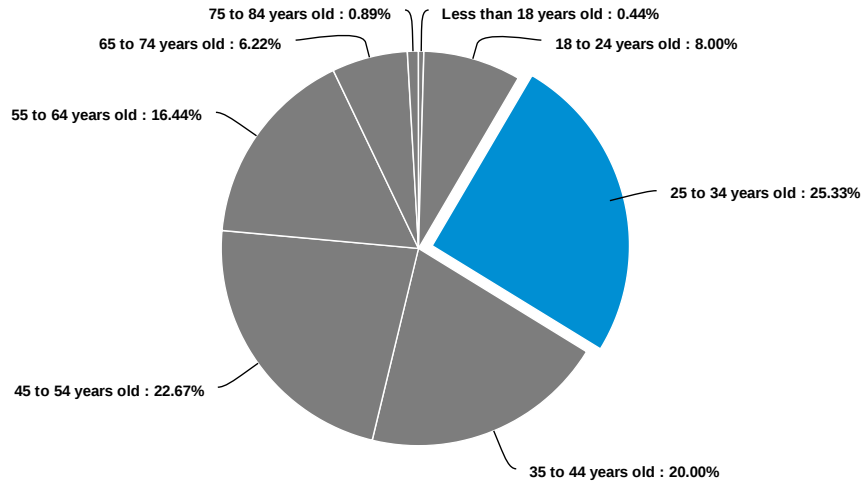


Countries	Responses
MP	45.34%
GU	36.86%
US	17.37%
PT	0.42%
Total	100.00%

1. Hello / Hafa Adai / Tirow: All residents of the Commonwealth of the Northern Mariana Islands (CNMI), ages 18 and older, are invited to participate in this survey about residential waste management and recycling. This survey will take approximately 5 to 7 minutes to complete and will close on May 1, 2023. Your participation in this survey is voluntary and anonymous. If you feel uncomfortable answering any questions, you can withdraw from the survey at any point. Your survey responses will be confidential and all data will be reported only in the aggregate. By continuing with this survey, you agree to participate. To share this survey with your family and neighbors (18 years or older), simply provide them with this shortened weblink, [bit.ly/CNMI-waste-survey](https://bit.ly/CNMI-waste-survey). If you have a question about this survey, please contact Planning@opd.gov.mp. If you need translation support, please contact the following coordinators: Saipan – Michael Johnson – (670) 235-9570, extension 106 Tinian – William (Bill) Cing - (670) 287-8067 Rota – Noreen Sablan - (670) 532-9412 To begin the survey, click "Start" below.

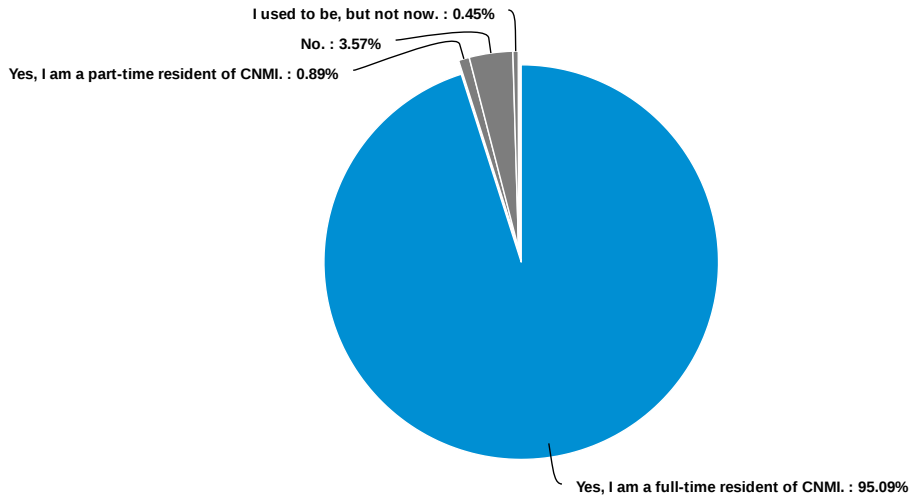
## 2. INTRODUCTORY QUESTIONS

3. Please select the option below that best represents your age.



Answer	Count	Percent	20%	40%	60%	80%	100%
Less than 18 years old	1	0.44%					
18 to 24 years old	18	8%					
25 to 34 years old	57	25.33%					
35 to 44 years old	45	20%					
45 to 54 years old	51	22.67%					
55 to 64 years old	37	16.44%					
65 to 74 years old	14	6.22%					
75 to 84 years old	2	0.89%					
85 or older	0	0%					
<b>Total</b>	<b>225</b>	<b>100 %</b>					
<b>Mean 4.351</b>		<b>Variance: 2.086</b>					
<b>Standard Deviation: 1.444</b>		<b>Standard Error: 0.096</b>					
<b>Confidence Interval: [4.162 - 4.540]</b>							

4. Are you resident of CNMI?

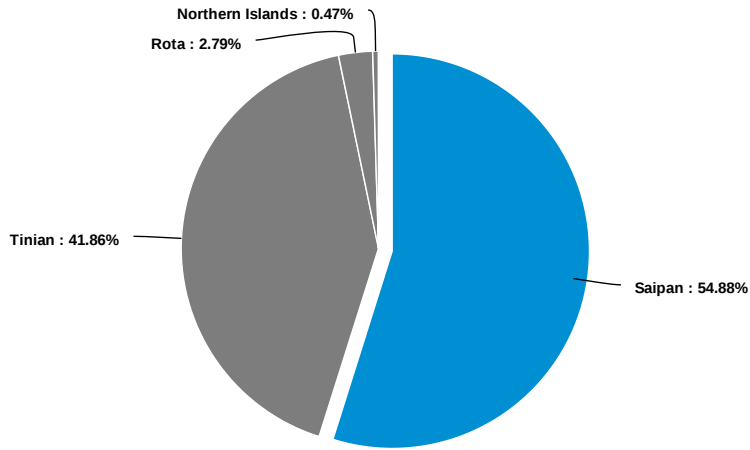


Answer	Count	Percent	20%	40%	60%	80%	100%
Yes, I am a full-time resident of CNMI.	213	95.09%	<div style="width: 95.09%;"></div>				
Yes, I am a part-time resident of CNMI.	2	0.89%	<div style="width: 0.89%;"></div>				
No.	8	3.57%	<div style="width: 3.57%;"></div>				
I used to be, but not now.	1	0.45%	<div style="width: 0.45%;"></div>				

<b>Total</b>	<b>224</b>	<b>100 %</b>
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<b>Mean 1.094</b>	<b>Variance: 0.184</b>
<b>Standard Deviation: 0.429</b>	<b>Standard Error: 0.029</b>
<b>Confidence Interval: [1.038 - 1.150]</b>	

5. Where is your primary residence in CNMI? Select one answer from the dropdown list below.



Answer	Count	Percent	20%	40%	60%	80%	100%
Saipan	118	54.88%	<div style="width: 54.88%;"></div>				
Tinian	90	41.86%	<div style="width: 41.86%;"></div>				
Rota	6	2.79%	<div style="width: 2.79%;"></div>				
Northern Islands	1	0.47%	<div style="width: 0.47%;"></div>				
Other, please describe.	0	0%	<div style="width: 0%;"></div>				
<b>Total</b>	<b>215</b>	<b>100 %</b>					

<b>Mean 1.488</b>	<b>Variance: 0.335</b>
<b>Standard Deviation: 0.579</b>	<b>Standard Error: 0.039</b>
<b>Confidence Interval: [1.411 - 1.566]</b>	

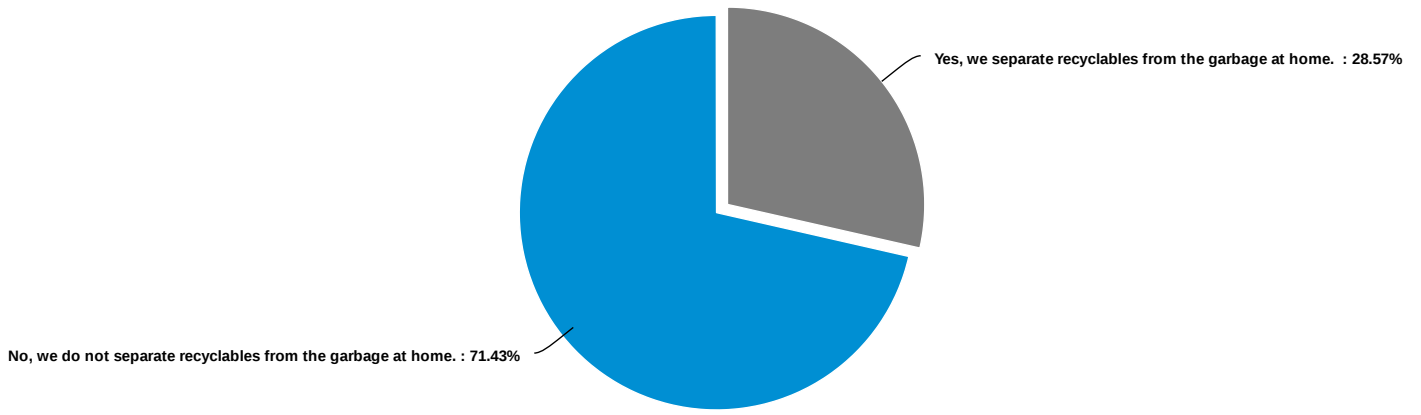
Where is your primary residence in CNMI? Select one answer from the dropdown list below. - Text Data for Other, please describe.

## 6. HELPFUL DEFINITIONS

7. In this survey, we inquire about waste management practices in CNMI and request your feedback. Please review the helpful definitions below. You can refer back to this page at any time throughout the survey. Types of Household Wastes: Garbage: Household waste that may or may not be recyclable or compostable. Also known as "trash", "refuse", or "rubbish". Recyclables: Examples include clean paper, newspaper, cardboard, and containers (plastic, metal or glass) that may be recycled. Also known as "recycling". Organic wastes or Compostables are materials of natural origin that may decompose or be composted. There are two primary categories: Green waste: Examples include trees, branches, grass, plants, palms, and cacti. Also known as "yard trimmings". Food waste: Examples include spoiled fruit and vegetables, stale bread, and food preparation trimmings. Household Hazardous Materials (HHM): Examples include used motor oil, pesticides, solvents, and acids. Also known as "household hazardous waste". Bulky wastes: Examples include tires, pallets, large appliances, and furniture. Construction and demolition (C&D) wastes: Examples include scrap metal, shingles, and drywall. E-wastes: Examples include used electronics like TVs, phones, computers, and printers. Solid Waste: A general term that refers to unwanted or discarded materials (for example, garbage, recyclables, and organic wastes) that result from normal, day-to-day activities. Disposal Areas: Landfills are engineered disposal sites designed to accept wastes. Also known as "sanitary landfills" or "dumps". Drop-off areas are designated areas for the dropping off or disposal of certain types of wastes or recyclables, such as recycling centers. Waste Collection & Disposal Methods: Residential curbside collection: The regular collection of household wastes set out by residents along curbs, driveways, or alleyways by a collection vehicle. Self-hauling: When a resident takes their own discarded materials to a designated drop-off area. Landfilling: The act of disposing waste in a landfill, which is an engineered and managed facility for the disposal of solid waste. Composting: Composting is a controlled, aerobic (oxygen-required) process that converts organic materials into a nutrient-rich soil amendment or mulch through natural decomposition. The end product is compost – a dark, crumbly, earthy-smelling material. Open Dumping: An unregulated waste disposal practice of dumping large amounts of waste in the open, also known as "illegal dumping". Littering: Also an unregulated waste disposal practice; littering is the act of dropping waste in public places, for example, dropping a used cup along a street instead of placing it in a garbage bin. Key Concepts: Solid Waste Management: The practice of managing unwanted or discarded materials (for example, garbage and recyclables) resulting from normal, day-to-day activities. To learn more about solid waste management planning, please visit <https://opd.gov.mp/sustainable-consumption-and-production.html>. Zero Waste: An approach to planning to reduce waste and maximize recycling or waste diversion as much as possible. Many communities have established their own definitions of Zero Waste. For more information about these definitions, visit: <https://www.epa.gov/transforming-waste-tool/how-communities-have-defined-zero-waste>.

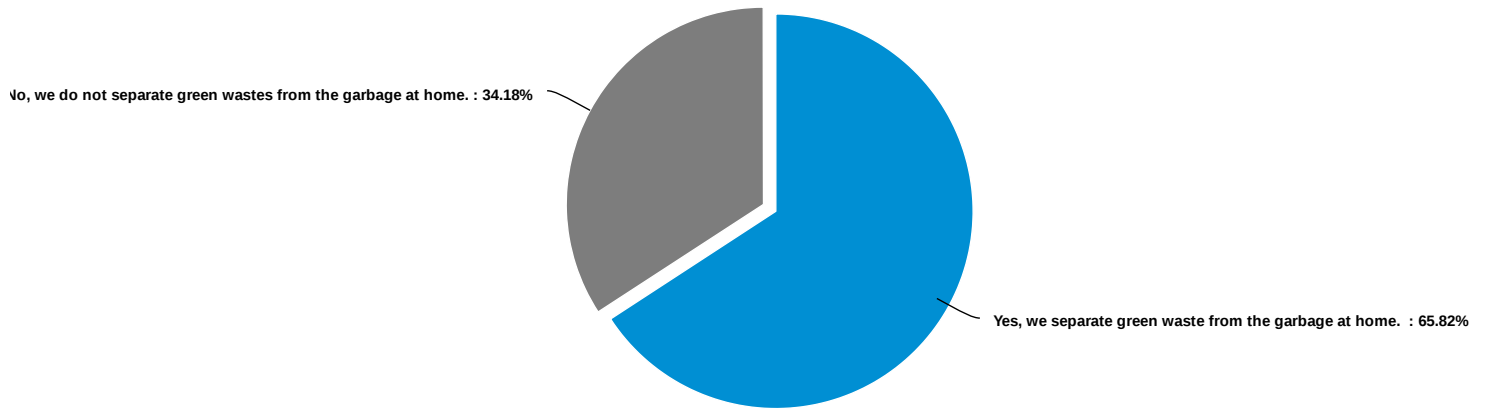
## 8. WASTE MANAGEMENT AT HOME

9. In your household, do you separate recyclables from the garbage?



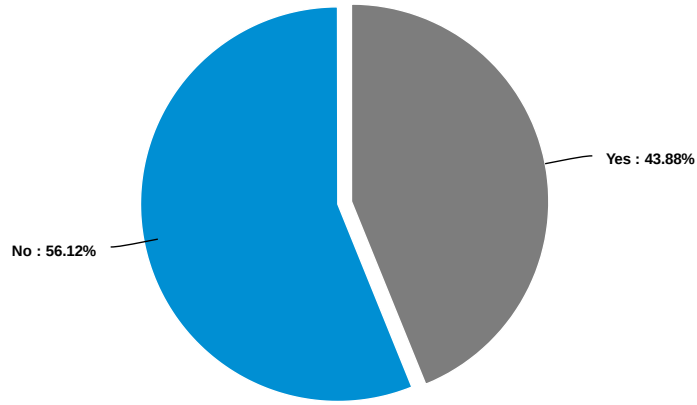
Answer	Count	Percent	20%	40%	60%	80%	100%
Yes, we separate recyclables from the garbage at home.	56	28.57%	<div style="width: 28.57%; background-color: #666; height: 10px;"></div>				
No, we do not separate recyclables from the garbage at home.	140	71.43%	<div style="width: 71.43%; background-color: #0070C0; height: 10px;"></div>				
<b>Total</b>	<b>196</b>	<b>100 %</b>					
<b>Mean 1.714</b>			<b>Variance: 0.205</b>				
<b>Standard Deviation: 0.453</b>			<b>Standard Error: 0.032</b>				
<b>Confidence Interval: [1.651 - 1.778]</b>							

10. In your household, do you separate green waste from the garbage?



Answer	Count	Percent	20%	40%	60%	80%	100%
Yes, we separate green waste from the garbage at home.	129	65.82%					
No, we do not separate green wastes from the garbage at home.	67	34.18%					
<b>Total</b>	<b>196</b>	<b>100%</b>					
<b>Mean 1.342</b>			<b>Variance: 0.226</b>				
<b>Standard Deviation: 0.476</b>			<b>Standard Error: 0.034</b>				
<b>Confidence Interval: [1.275 - 1.408]</b>							

11. Do you currently have curbside collection of garbage at your home?



Answer	Count	Percent	20%	40%	60%	80%	100%
Yes	86	43.88%					
No	110	56.12%					
<b>Total</b>	<b>196</b>	<b>100 %</b>					
<b>Mean 1.561</b>			<b>Variance: 0.248</b>				
<b>Standard Deviation: 0.498</b>			<b>Standard Error: 0.036</b>				
<b>Confidence Interval: [1.492 - 1.631]</b>							



12. Please select your preferred waste collection method for each of the following household waste types. Choose one option per row. If the waste type does not apply for you, select "Not applicable".

Statement	I prefer residential curbside collection by a service provider.	I prefer to self-haul to a landfill or designated drop-off area.	I have no preference.	Not applicable	Overall
Garbage	135 73.37%	33 17.93%	12 6.52%	4 2.17%	184 100%
Recyclables	133 72.28%	31 16.85%	12 6.52%	8 4.35%	184 100%
Green Wastes	98 53.26%	40 21.74%	23 12.5%	23 12.5%	184 100%
Household Hazardous Materials (HHM)	130 70.65%	26 14.13%	13 7.07%	15 8.15%	184 100%
Bulky Wastes	134 72.83%	24 13.04%	13 7.07%	13 7.07%	184 100%
Construction and Demolition (C&D) Wastes	117 63.59%	30 16.3%	17 9.24%	20 10.87%	184 100%
E-wastes	124 67.39%	29 15.76%	19 10.33%	12 6.52%	184 100%



Question	Count	Score	I prefer residential curbside collection by a service provider.	I prefer to self-haul to a landfill or designated drop-off area.	I have no preference.
Garbage	180	1.32			
Recyclables	176	1.31			
Green Wastes	161	1.53			
Household Hazardous Materials (HHM)	169	1.31			
Bulky Wastes	171	1.29			
Construction and Demolition (C&D) Wastes	164	1.39			
E-wastes	172	1.39			
<b>Average</b>		<b>1.36</b>			

13. If curbside collection services were available to all residents of the major islands of CNMI, please rank their order of importance below. Please rank the following in order of importance to you, with "1" being the most important and "3" being the least important. Each row must have a different numbered rank.

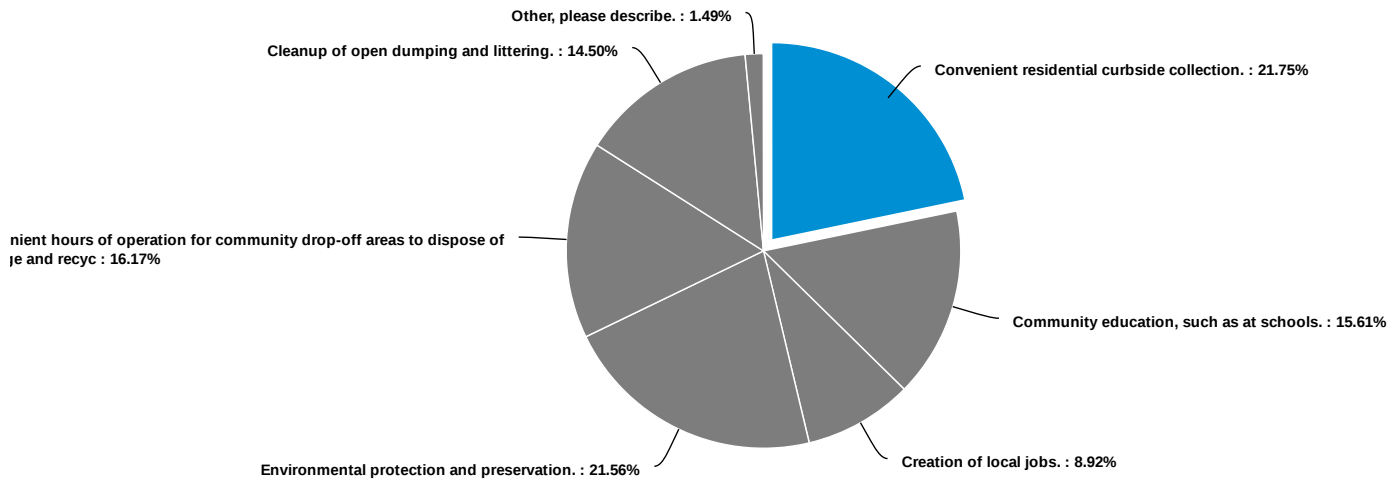
Average Rank

	Average Rank	1	2	3
Residential curbside collection of garbage.	1.51			
Residential curbside collection of recyclables.	1.89			
Residential curbside collection of green wastes.	2.59			

Data Table	Average Rank	1		2		3	
		Count	Percent	Count	Percent	Count	Percent
Residential curbside collection of garbage.	1.51	114	63.33%	38	21.47%	26	14.77%
Residential curbside collection of recyclables.	1.89	48	26.67%	103	58.19%	29	16.48%
Residential curbside collection of green wastes.	2.59	18	10%	36	20.34%	121	68.75%

14. LOCAL GOVERNMENT PRIORITIES

15. In your opinion, what should be the priorities of your local government's solid waste management program? Select your top 3 choices from the options below.



Answer	Count	Percent	20%	40%	60%	80%	100%
Convenient residential curbside collection.	117	21.75%	<div style="width: 21.75%;"></div>				
Community education, such as at schools.	84	15.61%	<div style="width: 15.61%;"></div>				
Creation of local jobs.	48	8.92%	<div style="width: 8.92%;"></div>				
Environmental protection and preservation.	116	21.56%	<div style="width: 21.56%;"></div>				
Convenient hours of operation for community drop-off areas to dispose of garbage and recyclables.	87	16.17%	<div style="width: 16.17%;"></div>				
Cleanup of open dumping and littering.	78	14.5%	<div style="width: 14.5%;"></div>				
Other, please describe.	8	1.49%	<div style="width: 1.49%;"></div>				
<b>Total</b>	<b>538</b>	<b>100 %</b>					

Mean 3.442

Variance: 3.242

Standard Deviation: 1.800

Standard Error: 0.078

Confidence Interval: [3.290 - 3.595]

In your opinion, what should be the priorities of your local government's solid waste management program? Select your top 3 choices from the options below. - Text Data for Other, please describe.

04/29/2023 102787574 Drop off areas in villages

04/28/2023 102765630 Create and enforce fines to prevent illegal dumping, as a deterrent.

04/26/2023 102678038 Consistency in public education using "bottoms up approach", meaning school visits to introduce and encourage young generations partnership. In addition, effectuate park-ranger program on all public facilities and charge reasonable fees to ensure users of facilities clean up after each use to avail partial redemption of fees if compliance with usage regulations.

03/29/2023 101101368 Creating convenient residential transfer stations in the southern part of the island.

03/29/2023 101099573 Gov't investment to solid waste collector to promote friendly household receptacles

03/12/2023 100147148 Enforce littering laws!

03/12/2023 100146718 increase the number of community drop off areas to dispose of garbage and recyclables

03/12/2023 100146494 Transparency and accountability

16. We want your feedback regarding the following legislative actions your local government could take to limit the negative impacts of solid waste in our community. Please rank the following three actions in order of importance to you, with “1” being the most important and “3” being the least important. Each row must have a different numbered rank.

Average Rank

	Average Rank	1	2	3
Developing new local mandates or rules for enforcement. For instance, regarding illegal dumping, litter, pollution/spills.	1.75			
Considering material disposal bans. For instance, passing laws such as banning the disposal of plastic bags or clean recyclable cardboard in the landfill.	2.06			
Mandating new products are made from recovered waste. For instance, establishing a community-supported composting or mulching facility that would make compost or woodchips available to the community.	2.15			

Data Table	Average Rank	1		2		3	
		Count	Percent	Count	Percent	Count	Percent
Developing new local mandates or rules for enforcement. For instance, regarding illegal dumping, litter, pollution/spills.	1.75	73	43.45%	61	36.97%	32	19.88%
Considering material disposal bans. For instance, passing laws such as banning the disposal of plastic bags or clean recyclable cardboard in the landfill.	2.06	52	30.95%	51	30.91%	62	38.51%
Mandating new products are made from recovered waste. For instance, establishing a community-supported composting or mulching facility that would make compost or woodchips available to the community.	2.15	43	25.6%	53	32.12%	67	41.61%

17. Thinking on a larger scale, please rank the following environmental priorities for your local government. Please rank the following three options in order of importance, with “1” being the most important and “3” being the least important. Each row must have a different numbered rank,

Average Rank

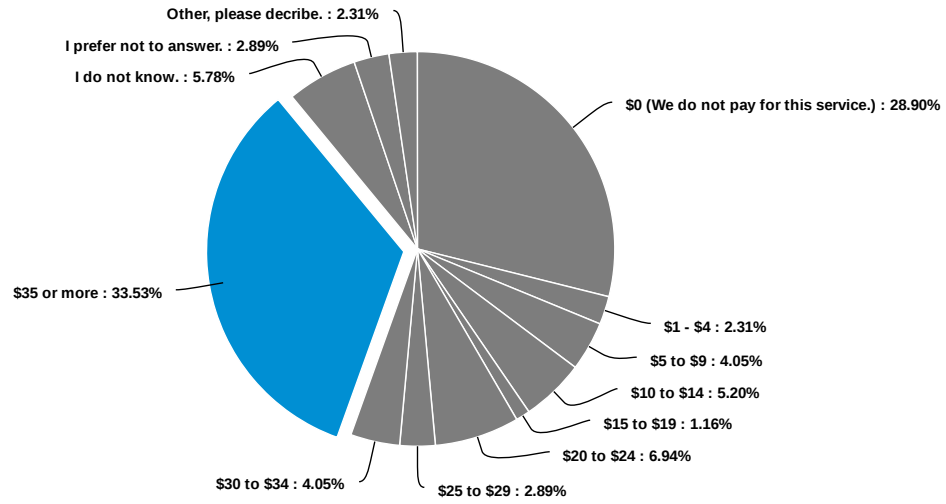
	Average Rank	1	2	3
Protect the aquifer and the natural world.	1.58			
Divert recyclable materials from the landfill.	2.18			
Become more resilient to natural disasters, such as typhoons.	2.21			

Data Table	Average Rank	1		2		3	
		Count	Percent	Count	Percent	Count	Percent
Protect the aquifer and the natural world.	1.58	96	56.14%	49	29.52%	25	15.15%
Divert recyclable materials from the landfill.	2.18	39	22.81%	58	34.94%	69	41.82%
Become more resilient to natural disasters, such as typhoons.	2.21	36	21.05%	59	35.54%	71	43.03%

18. FINANCIAL QUESTIONS

19. On average, how much does your household currently spend per month for the collection and/or disposal of garbage and recyclables?



Answer	Count	Percent	20%	40%	60%	80%	100%
\$0 (We do not pay for this service.)	50	28.9%	[Progress bar]				
\$1 - \$4	4	2.31%	[Progress bar]				
\$5 to \$9	7	4.05%	[Progress bar]				
\$10 to \$14	9	5.2%	[Progress bar]				
\$15 to \$19	2	1.16%	[Progress bar]				
\$20 to \$24	12	6.94%	[Progress bar]				
\$25 to \$29	5	2.89%	[Progress bar]				
\$30 to \$34	7	4.05%	[Progress bar]				
\$35 or more	58	33.53%	[Progress bar]				
I do not know.	10	5.78%	[Progress bar]				
I prefer not to answer.	5	2.89%	[Progress bar]				
Other, please describe.	4	2.31%	[Progress bar]				
<b>Total</b>	<b>173</b>	<b>100 %</b>					
<b>Mean 5.855</b>			<b>Variance: 13.927</b>				
<b>Standard Deviation: 3.732</b>			<b>Standard Error: 0.284</b>				
<b>Confidence Interval: [5.299 - 6.412]</b>							

On average, how much does your household currently spend per month for the collection and/or disposal of garbage and recyclables? - Text Data for Other, please describe.

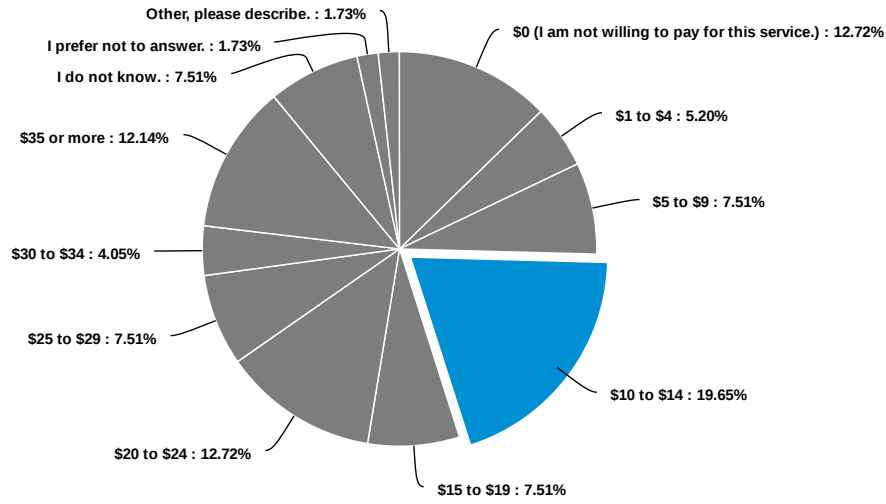
04/25/2023 102542229 Included. In the house rental

04/02/2023 101354089 We don't have this service, as far as laws you need a solution before creating laws!

03/28/2023 101047027 \$50

03/12/2023 100131057 It's paid by my landlord, so unsure. Artman does pickup.

20. How much are you willing to pay per month for weekly residential curbside collection of garbage and recyclables?



Answer	Count	Percent	20%	40%	60%	80%	100%
\$0 (I am not willing to pay for this service.)	22	12.72%					
\$1 to \$4	9	5.2%					
\$5 to \$9	13	7.51%					
\$10 to \$14	34	19.65%					
\$15 to \$19	13	7.51%					
\$20 to \$24	22	12.72%					
\$25 to \$29	13	7.51%					
\$30 to \$34	7	4.05%					
\$35 or more	21	12.14%					
I do not know.	13	7.51%					
I prefer not to answer.	3	1.73%					
Other, please describe.	3	1.73%					
<b>Total</b>	<b>173</b>	<b>100 %</b>					

<b>Mean 5.474</b>	<b>Variance: 8.914</b>
<b>Standard Deviation: 2.986</b>	<b>Standard Error: 0.227</b>
<b>Confidence Interval: [5.029 - 5.919]</b>	

How much are you willing to pay per month for weekly residential curbside collection of garbage and recyclables? - Text Data for Other, please describe.

- 04/12/2023 101916457 It all depends on how many garbage bags and or recyclable bags need to be picked up. How much is per bag?
- 04/02/2023 101354089 Pricing needs to depend on whether we have large garbage cans or smaller for single unit households. Recycling bins are a must. When things are in place, then can talk prices.
- 03/12/2023 100147148 What I am paying now.

21. If a small unit-based fee were necessary to accept certain materials for proper disposal or recycling, please share your willingness to pay them based on the materials listed below? Please select one answer per row that represents your willingness to pay to properly recycle or dispose of the materials listed below. Each row must have one answer selected.

Statement	Very willing to pay	Willing to pay	Less willing to pay	Not willing to pay	I prefer not to answer.	Overall
Household Hazardous Materials (HHM)	50 28.9%	73 42.2%	23 13.29%	17 9.83%	10 5.78%	173 100%
Bulky Waste	46 26.59%	66 38.15%	35 20.23%	18 10.4%	8 4.62%	173 100%
Green Waste	23 13.29%	34 19.65%	48 27.75%	59 34.1%	9 5.2%	173 100%
E-Waste	33 19.08%	71 41.04%	39 22.54%	23 13.29%	7 4.05%	173 100%



Question	Count	Score	Very willing to pay	Willing to pay	Less willing to pay	Not willing to pay	I prefer not to answer.
Household Hazardous Materials (HHM)	173	2.21					
Bulky Waste	173	2.28					
Green Waste	173	2.98					
E-Waste	173	2.42					
<b>Average</b>		<b>2.47</b>					

## 22. THOUGHT EXERCISE

23. If you were in charge of solid waste management in your community and you could solve one key issue, what would the issue be and why? Feel free to suggest how you might fix it, too (maximum of 2000 characters).

04/30/2023	102806754	Education, knowledge is a key to make changes Ask people to be responsible for your own waste.
04/30/2023	102793277	Ban the use of plastic bags because it's harmful to the environment and it's something that we could easily do as a community.
04/29/2023	102787574	One that I feel is important is having garbage and other waste collection in each village. This allows community members to have access to disposing waste when needed.
04/29/2023	102784892	Educate the community on recycling and how to keep our environment clean. The more we educate the community, the cleaner our island and air will be.
04/28/2023	102765630	Illegal dumping. Place huge dumping bins (in contained area) in the villages and do once a week pick up. Just like how they do trash collection at apartment compounds in the states. Then do mass distribution of information on how to dispose of trash in these areas. Alot of people do illegal dumping because 1-they may not have a truck to transport their garbage or 2-they can't afford to pay for dumping garbage.
04/28/2023	102734547	No Comments
04/28/2023	102733388	I would have a centralized recycling center for each village so it will be easier for people to recycle their items. Do a one a month for a Dumpster drop for each village so people who can't afford to pay garbage collection or don't have a trunk can drop off their garage there. Then maybe our villages will be much cleaner n less trash in eye sight.
04/28/2023	102731231	Create a program based on household net income to include essential expenses to see if households qualify for low income garbage collection from government. Private companies such as Artman who have the machinery available to push forward recycling projects and segregation of materials can provide for more jobs alongside the government's sidewalk collectors. Private sectors and government offices should both have hire rates for collection compared to residents. Government garbage collection shouldnt be an option, it should become mandatory for the sake of our environment and community. Every village or precinct should have their own schedules for pick up. ie Recyclables on Mondays & Fridays Garbage on Tue & Thur and HHM & E-waste on Wednesdays. good luck! hopeful to see some positive changes soon!
04/27/2023	102729793	Separate different wastes for proper disposal.
04/27/2023	102679917	Community awareness
04/26/2023	102678038	To get a buy-in from community on recycling program and encourage responsible stewards on keeping our island clean. I am certain that if it's a unified approach it will simplify the whole works on recycling program...
04/25/2023	102608006	Garbage
04/25/2023	102584263	Make waste bins accessible to public areas so people don't leave garbage behind, esp at beaches where plastic bags end up in the ocean.
04/25/2023	102542791	Strict rules and impose fines
04/25/2023	102542229	I will promote the importance of segregation of waste for proper dispsal. We can start small from our own backyard by providing designated bins for biodegradable and non-biodegradable waste and slowly debelop it by finding creative ways for an efficient waste managent. Encourage friends to go green and avoid use of plastic materials, leading by example.. Then maybe. Initiate a campaign to educate the commnity bu preparing small events to show them the bigger picture.
04/25/2023	102540333	Educate people on recycling. Provide bins to each household to sort garbage
04/24/2023	102531259	Roadkills
04/20/2023	102362368	Rampant disposal of garbage in the jungle, near the coastlines and vacant areas. The anti-littering should aggressively enforced. Employ anti-littering employees and educate them by attending workshops on how to implement the law.
04/19/2023	102280797	Provide guidelines for trash containers n timely service. No overflowing container. No trash stacked openly side of structures. No unboarded structures used as trash bins. Lots vacant/occupied need to be maintained. No abandoned vehicles/furniture/machinery abandoned on public/private lots. Dog control please.
04/18/2023	102228954	Ban Styrofoam use in our islands
04/17/2023	102172747	I think the one issue would be residential waste and a solution I'd have if at all possible is to provide affordable or free trash collection services or have a large bin placed near certain areas for residents to go and discard of their trash. This could include separate bins for recyclables and hazardous waste/materials. This could prevent households from resorting to burning their trash which heavily pollute the air with harmful contaminants.
04/17/2023	102172289	Be like Palau, pay people to recycle their waste, ban plastic bags, introduction of composting, educate people not to fill up the landfill, the importance of recycling.
04/17/2023	102165077	To have an "always available" facility, ready to assist the community in solid waste management.
04/17/2023	102164714	Hire more personal to help the segregation of waste and recyclable, efficient equipment (heavy equipments, ppe, and vehicles, ect..)



04/15/2023	102052178	Stop using grocery plastic bags and Styrofoam products. Why? Because they are not biodegradable.
04/14/2023	102013388	Stop the homeless from going into trash bins that we pay for ,and throwing on ground , HEALTH and SAFETY And Tourist disgusted ,The tourist are not the Problem
04/13/2023	101965953	maintenance of landfill
04/13/2023	101961900	Making garbage disposal easy to prevent any illegal dumping issues. This would require a full mandate for all residents with an outreach program that leaves key information behind (similarly to the Dog Control Program). Penalties for illegal dumping should include how many hours of community service, or a hefty fee that goes into the trash management of public parks and beaches. There should be zero tolerance, and everyone should be treated equally.
04/13/2023	101959705	The issue of the illegal burning at the dump site because burning speeds up the contamination of our water table.
04/13/2023	101952434	Prevent erosion from disposal areas
04/12/2023	101917625	garbage truck is the key.
04/12/2023	101917543	It should be free services because if you put services charge the people will dump there trash else where.
04/12/2023	101916457	Why not use those 16 or 19 foot shipping containers for household garbage to be hauled to the appropriate location. I have seen large shipping containers that were open on the top for garbage bags to be thrown in and then hauled to a location for better and cleaner disposal. As for recyclable, you don't need shipping containers but just a small area where people can place them and collectors will manage everything else. It's much cleaner and efficient, I think.
04/12/2023	101916180	I would prioritize giving our people the necessary receptacles to separate recyclable materials at residences and have at least biweekly curbside pick up of recyclables.
04/12/2023	101916139	The delivery of solid waste for those who cannot do it themselves... haul away for them or get agencies involved to assist those who need the assistance. This would involve a program to do such services.
04/12/2023	101915054	This solution must be implemented right away. Our main dump has caused flat tires from requiring our vehicle to be driven far into the dump area with many nails exposure. I've raise this concern with our public works on tinian but they could careless to fix the issue.
04/12/2023	101909725	Lack of public awareness and education. But people still need to do their part in being a good citizen.
04/12/2023	101909440	Create municipal curbside waste service to cut down on illegal dumping and trash buildup on private land. Divert aluminum and steel from the landfill and sell to recycling facilities. Reduce single use plastic waste accross government facilities and encourage businesses to reduce consumption of single use plastic. Offer yearly junk car removal service to get rid of rotting cars leaking pollutants into ground water
04/09/2023	101709231	n/a
04/02/2023	101380730	maximize the vehicles to pick up every house hold wasted and hire more employees to sort out the peoples waste instead of just sitting around the office and doing nothing. That is our main issue in the CNMI to hire people to just sit around and do nothing. I know for a fact that the solid waste has the budget but they just keep purchasing useless things.
04/02/2023	101380245	To start charging the public so that our trash is better taken care of and will not poison our water lens
04/02/2023	101374620	If I were to be in charge of solid waste management in my community and come up with one key issue, it would be to involve the community on how to properly dispose such waste and be an example . One thing is to to place staff at each site to closely monitor what is being thrown out and if they are disposing their garbage in the right area. The people need to be more inform about this as some still either do not understand or has not been inform whatsoever. As a person in charge it is their duty to make sure we follow rules and regulations and enforce them.
04/02/2023	101374575	N/A
04/02/2023	101354089	Providing garbage and recycling bins. Educate community on how it helps everyone concerned, especially plastics from the ocean which entrap God's creatures.
03/30/2023	101192266	Divert plastic bags to paper bag or bring uour own bag when you shop to minimize using plastic bags to protect our environment. Impose every house hold to segregate bottles, can and plastic and dispose it accordingly. Every household should be responsible on how to dispose our waste specially those non biodegradable waste like cans bottles and plastic. Make a new law regarding how we properly dispose our waste and those who doesn't follow should get a fine.
03/29/2023	101110270	open the dump site on Sunday and holidays.
03/29/2023	101109658	The separation of waste. Being able to recycle could create reusable materials and being able to create compost could be beneficial for the local farmers and just the average person who wants to plant fresh vegetables.
03/29/2023	101109551	Provide a dumpster or a container and could be picked up by govnmnt employees.
03/29/2023	101109358	recycle all garbage being disposed of.
03/29/2023	101099627	Make curbside pickup service mandatory (UGC) and make sure the bin size is based on # of residents per household or complex (in the case of shared bin).

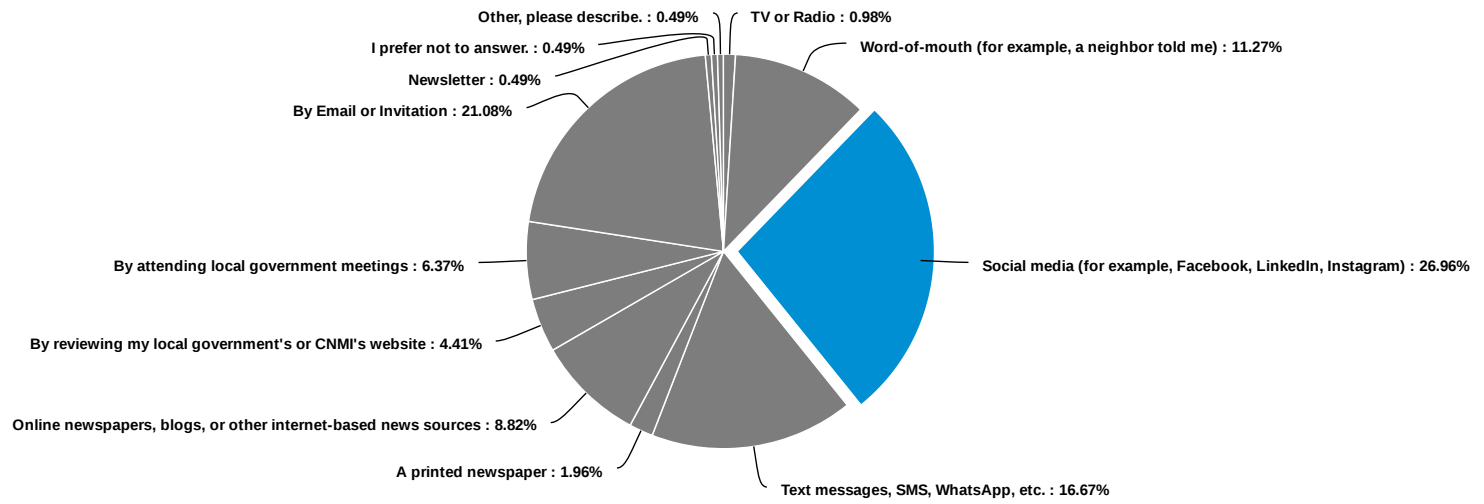
03/29/2023	101099217	Zero waste is not by any means achievable. Realistically, we can try, but can't avoid it. Especially, e-waste due to planned obsolescence.
03/29/2023	101096942	If I was in charge of the solid waste I would upgrade the scales and scale houses. I would look for a better point of sales system so employees work with their customers more efficiently. I would make a website where people can go to and see up to date information & pricing, basically everything dealing with our operations. I would look into the pricing as well and maybe hope to change some things. I would also try to generate money to renovate the solid waste management building because it looks so old and also try to get a few more people to work there. I would make cashiers close the scale houses for their lunch break , I know only Marpi does that but I think both stations should go lunch break at the same time.
03/28/2023	101047922	Segregation of waste at the point of generations-It will lesson the single waste stream and prolong the life of the landfill
03/28/2023	101047891	mandate segregation at the sources of waste, but only after there is a system in place to take the segregated waste in a sustainable manner
03/28/2023	101047027	Saipan needs universal garbage collection for MSW and recyclables. Saipan community needs to be educated about waste diversion to save airspace at our landfill. Saipan needs a redemption system for all recyclables from all recycling facilities.
03/28/2023	101042044	Educational outreach to our community about the effects of mismanagement of solid waste
03/26/2023	100884050	There are few main issues that i see that needs to be adjusted. But for starters. Might be a better idea for a government agencies to implement and providing recycling bags to be sold to the community. (ex: bags designated for plastic, bags for food waste, bags for regular waste, etc.) Have it labeled to a household and create a graph or a chart of how much and what type of trash is being thrown away most in each community.
03/26/2023	100883191	removal of large trash including Junk Cars and White Goods; Because of their size and the equipment needed to remove them, they often are left at peoples property or at an illegal dumping area. its possible that the hopelessness of dealing with large items could foster an unhealthy waste mindset leading to poor management of residential waste in a community.
03/23/2023	100749218	Make it into law that recyclables MUST be properly disposed at a designated area. People could drop off their recyclables, separate and discard accordingly. Create an area just for plastics, bottles, cans, glass, cardboard etc. Curb side pick up could be an option but must be separated accordingly, if not service providers can choose to not pick up your waste. Or service providers can maintain a weekly schedule; example: service providers pick up recyclables every Wednesday, Garbage every Friday etc. Provide or create a convenient schedule or flow for the community members to dispose of the Solid Waste properly.
03/22/2023	100702983	Enforce anti littering laws
03/22/2023	100697515	Illegal dumpsites
03/21/2023	100640334	One key issue I'd address is recycling, I believe the majority of the us are unaware of how bad our landfill looks and recycling our wastes would not only benefit our environment, but may also help eliminate the amount of goods a family purchases at the store. Also a strict control of what goes to waste and what doesn't may also help eliminate the overfill in Marpi.
03/21/2023	100631777	Make a couple of high-profile enforcement actions against current litter law violators.
03/21/2023	100599712	Littering
03/21/2023	100579314	More convenient and safe access to our landfills
03/20/2023	100574392	Community education and availability of resources. The current program as it stands is a fail. Poorly managed and basically non-existent.
03/20/2023	100574271	Right now we haul our garbage on the weekends (Saturday's Only). The Solid Waste Management need to stagger the shift so the dump opens 7 days a week. Right now if you drive around Tinian you can see areas that are starting to become dumping sites. This is all because most of the community (including Solid Waste) works from Monday to Friday 730-430 off on holidays. Also when we have big events (Pika Fest, San Jose Firsta, etc) the dump is closed at a certain time. Why not extend the hours during these event.
03/20/2023	100574113	The biggest key issue that I see right now (in my opinion) is the fact that the current landfill is being overburdened as we don't have an alternate waste disposal system other than bring to landfill + cover with big rocks and dirt. In Sweden, they're actually importing waste from other countries because of their Recycling Revolution Program. If we were to continue current operations for the foreseeable future, within 100 years, we can be looking at three other landfill sites on an island where the residents can only access 1/3 of it. I think we should develop a greater recycling program that doesn't just squish recycled items into a box for "future use" but actually turns all waste into energy or some other valuable asset/factor to the CNMI.
03/20/2023	100573569	One key issue that could be prioritized in solid waste management in the CNMI is the lack of infrastructure and capacity to effectively manage and dispose of hazardous waste. Hazardous waste, which includes items such as batteries, electronic waste, and medical waste, can pose significant risks to human health and the environment if not managed and disposed of properly. In the CNMI, there may be limited facilities and resources to handle hazardous waste, leading to illegal dumping or improper disposal practices that can contaminate soil and water sources. Additionally, hazardous waste can be shipped off-island for disposal, which can be expensive and further strain the limited resources in the region. If I were in charge of solid waste management in the CNMI, I would prioritize addressing the lack of infrastructure and capacity to manage hazardous waste by investing in facilities and resources for proper disposal and recycling of these materials. This could include establishing collection centers, providing education and training for safe handling and disposal practices, and collaborating with stakeholders to develop effective waste management policies and regulations. By addressing this issue, we can help protect public health and the environment while also promoting a more sustainable waste management system in the CNMI.
03/20/2023	100573357	I'd create byproducts that ppl use, for example, compost material from recycling paper and green waste so farmers and gardeners can use thereby not only creating incentives but also to make those actions go further, not just reducing waste but also encourage public participation. I'd also encourage volunteerism, public education, etc, making zero Waste approach a natural way of life, a household word and everyday thing.
03/20/2023	100570057	i don't know

03/20/2023	100570025	Follow proper procedures, regulate and enforce.
03/20/2023	100569957	Implement a universal household trash collection. Add a low-cost fee to a utility bill.
03/20/2023	100569833	Litter control
03/20/2023	100569757	Lack of equipment's and manpower to make sure our disposal sites are always maintained. Hire more personnel and repair or buy new equipment's .
03/20/2023	100569582	Litter control and management of landfill dumping area
03/20/2023	100569288	Build facilities to properly process recyclables, purchase equipment necessary in the landfill, recycling center, and the composting facility and continue to train and hire personnel for all these activities, also to hire a high level master mechanic to maintain alll equipment and train personnel in maintaining these equipment.
03/20/2023	100568672	Get rid of stray dogs. These dogs tend to rummage through the garbages thus cause littering.
03/20/2023	100568158	We have a lot of junk cars that are eyesores. I would create a collection and redemption program so we can get these piles of junk off island to beautify our community and help get some more funding back to people who need it.
03/20/2023	100518278	I would ban plastic bags at the stores and restaurants. This would significantly decrease the use of plastic bags and create a culture of being more environmentally aware. Because if you think about it, there may be some backlash in the beginning, but as time goes by and it becomes the norm, the conversations that arise from "why did the government ban plastic bags" will simply start an education process about environmental awareness and it will trickle down to our youth and then future generations. It only make sense to do this as we are a very small island that has wastes that can easily end up in our ocean and continue to contribute to the declination of our fish population, which is a source of food for our people.
03/20/2023	100517916	Require all residents and businesses to use municipal/universal trash collection services.
03/19/2023	100516448	Enforcement, laws exist but not enforced or excuses are made not to enforce due to political backlash. Waste sites should be all co-located so the public can go to one location and not multiple locations for the different types of wastes.
03/19/2023	100515884	Community education on composting, recycling practices and handling of household hazard materials. Many people don't understand the science and technology that reduces household waste or redesignates the purpose of the "useful" wasted. Island households are in fact blessed with the space and climate for composting. However this is not being taken advantage of. Educating the community about the daily practices that can easily reduce wastes is the first step.
03/19/2023	100515803	Provide curbside collection of household garbage and recyclables that is managed or at least subsidized by the government. Currently this service is not readily available on Tinian so each resident or business is responsible for disposal at the local landfill. Providing this service will likely help against illegal dumping that is prevalent and facilitate management of solid waste towards local goals of zero waste and sustainability.
03/19/2023	100512531	find other ways and means to educate everyone on what the different types of wastes that is generated. what's hazardous, e-waste, recyclable and what goes to the landfill. or find how we can come together as a community and brain-storm what and how we can fix all these areas of concern. And at least have one of the Agencies that does collect recycle items come in on a monthly basis to remove the items.
03/19/2023	100511321	In my opinion, wastes that are hazardous must be handled by someone who is certified to handle these wastes.
03/19/2023	100510915	Recycle materials whenever possible to reduce how much waste goes into the landfill. This will help protect our environment for many years to come.
03/19/2023	100510387	CNMI has a lot of solid waste issues so it is hard to pick just one, but we really need to keep our islands beautiful and healthy for a lot of reasons! Trash in our environment is a big problem - all non-biodegradable items, and disposal fees should be included in product pricing so for all disposable waste and when an item that needs special management can't be used anymore that cost is already built in. That money could be charged on import, and then put in an interest-bearing fund so that we can support more sustainable funding for the management of waste at our landfills and support recycling and composting programs (with economic incentives!). It would be great to start re-use and repair facilities so we can avoid making avoidable waste too. We should work towards a community ethic that supports better waste management at home, at school, and in our work places, and we need the systems in place to achieve that!
03/19/2023	100509417	Prioritize and enforce implement one unit of the the plan strategically. Perhaps, low lying fruits, such as education/outreach on Zero initiative. In line, I would recommend Zero Waste Taskforce invite and integrate the the key stakeholders, such as trash collection companies & regulatory frontline (community based agencies). Zero initiative is challenged already, invite all potential key parties to table . Merchandise Importers, visa vi, bulk like vehicle to canned product to less intrusion such as plastics, bag, bottles, etc...
03/19/2023	100509311	I would solve the issue of poor enforcement. Illegal dumping and littering are still widespread throughout the CNMI. Is this BECQ's job? It seems like their solid waste staff and administrator do nothing but waste money on travel and take months to review a single permit
03/14/2023	100280228	If I was in charge, I will have costumers categorized their trash. No trash will be accepted if it is not categorized and a fee should also be implemented.
03/13/2023	100208654	accessibility of transfer stations in south n east side of island thru OIA grants and EPA grants.
03/12/2023	100147922	Cigarette waste reduction. Stop throwing it on the ground

03/12/2023	100147148	Have them enforce the littering law! The fine should be \$1,000 - 5,000 dollars with 25% going to the crime recorder/reporter or toward department equipment if an officer discovers the mess. Or a mandatory 500 hours of community service picking up trash at known illegal dumping areas and especially at beaches. Personally, it is better the litter bugs clean up for 500 hours because it could really clean up our sacred sites, cultural sites, and especially beaches [we eat from the sea] because they need constant care. I think we could have volunteers supervising the community service hours. Let's educate people with proper disposal of trash. As far as green wastes, if they are really just plant or animal materials, section off an area with a camera watching, and let the public both drop and take the materials for mulch, replanting or fertilizer. If at the end of the day somebody dumps regular trash, review the camera, and fine the offenders \$100 or so. Proper signage for the areas.
03/12/2023	100146718	I'd pound the point to everyone who visited the transfer station to separate their trash. There is no enforcement nor any incentive for people to separate recyclables out from the rest of their trash. Signage and should clearly state that separation needs to happen and there must be a more convenient manner to unload them at the site. Right now, one must stop at multiple locations within the transfer station complex to drop the trash they've separated. There is no flow and many people just stop once at the covered trash dump and throw it all in together. If they can drop all of the separated trash in one stop, more people would do it. Glass here, paper and cardboard here, and over there plastics.
03/12/2023	100146494	Decrease capacity of current landfills by creating and sticking to a comprehensive recycling system created and agreed upon by the community, private sector, and government. It will help to look at model provided by Osaki Town, Japan's top recycling town.
03/12/2023	100146261	I would have bigger trash bin at every village for the community to dispose any trash if not able to afford to dump trash or if its too far.
03/12/2023	100146122	We need to have laws to sustain a clean environment. This includes houses to have a clean/ neat yard, free of junk, broken down vehicles, etc.
03/12/2023	100145410	Make sure that the law is enforce for solid waste. Be strict on citation.
03/12/2023	100133218	To prevent illegal dumping, collaborate with trash collection companies to collect at every residence so it will be a better convenience. All proceeds can hopefully help the CNMI with more recycling centers.
03/12/2023	100131057	Universal garbage collection with the ability to shortly expand to recycling. Set it up with CUC so if people don't pay for services they can lose power, water, sewer, and solid waste services. CUC adds a small fee to produce and manage the billing of the garbage collection. The solid waste is delivered to the transfer station where recyclables are further sorted to reduce impact to the landfill. All green waste is moved to a green waste facility in this process as well.
03/11/2023	100126442	Addressing our current landfill/dumpsite by permitting it to be used as a requirement for federal funding opportunities. Improving and maximizing the use of Tinian's Municipal transfer Station.
03/11/2023	100126175	Resolving the issue of actually recycling at home is what I would solve. In the states and a lot of other places, recycling is a common practice just as is throwing trash. You would think that our small island would too. Having a better recycling system would help resolve that.
03/11/2023	100125194	I would help change attitudes about littering among community members. It's still common to see trash that was obviously thrown out into the jungle or left on the beach by a resident. We cannot legislate attitudes but we as individuals should lead the charge by letting people know that littering is taimamahlaho and against our culture.
03/09/2023	100052022	EDUCATE, ENFORCE, AND PRIORITIZE "RECYCLING"

## 24. COMMUNICATIONS

25. How did you hear about this survey? Select all that apply.



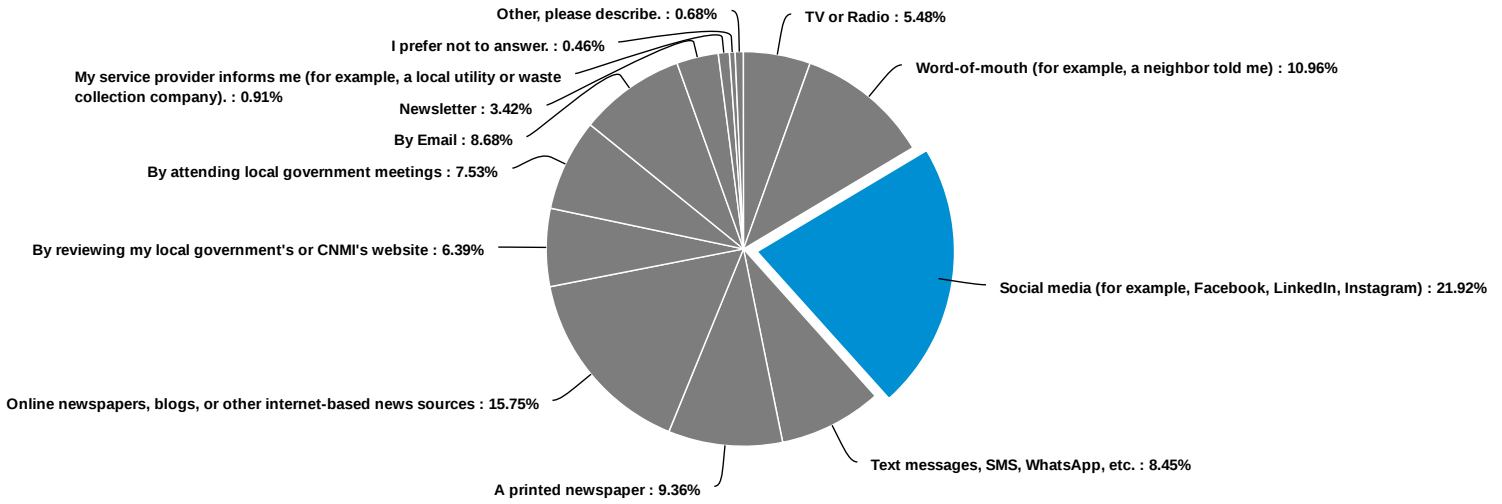
Answer	Count	Percent	20%	40%	60%	80%	100%
TV or Radio	2	0.98%					
Word-of-mouth (for example, a neighbor told me)	23	11.27%					
Social media (for example, Facebook, LinkedIn, Instagram)	55	26.96%					
Text messages, SMS, WhatsApp, etc.	34	16.67%					
A printed newspaper	4	1.96%					
Online newspapers, blogs, or other internet-based news sources	18	8.82%					
By reviewing my local government's or CNMI's website	9	4.41%					
By attending local government meetings	13	6.37%					
By Email or Invitation	43	21.08%					
Newsletter	1	0.49%					
My service provider informed me (for example, a local utility or waste collection company).	0	0%					
I prefer not to answer.	1	0.49%					
Other, please describe.	1	0.49%					

<b>Total</b>	<b>204</b>	<b>100 %</b>
<b>Mean 5.225</b>	<b>Variance: 7.289</b>	
<b>Standard Deviation: 2.700</b>	<b>Standard Error: 0.189</b>	
<b>Confidence Interval: [4.855 - 5.596]</b>		

How did you hear about this survey? Select all that apply. - Text Data for Other, please describe.

03/12/2023 100147148 Boss sent it.

26. Please identify how you generally learn about local environmental programs and services. Check all that apply.



Answer	Count	Percent	20%	40%	60%	80%	100%
TV or Radio	24	5.48%					
Word-of-mouth (for example, a neighbor told me)	48	10.96%					
Social media (for example, Facebook, LinkedIn, Instagram)	96	21.92%					
Text messages, SMS, WhatsApp, etc.	37	8.45%					
A printed newspaper	41	9.36%					
Online newspapers, blogs, or other internet-based news sources	69	15.75%					
By reviewing my local government's or CNMI's website	28	6.39%					
By attending local government meetings	33	7.53%					
By Email	38	8.68%					
Newsletter	15	3.42%					
My service provider informs me (for example, a local utility or waste collection company).	4	0.91%					
I prefer not to answer.	2	0.46%					
Other, please describe.	3	0.68%					
<b>Total</b>	<b>438</b>	<b>100 %</b>					

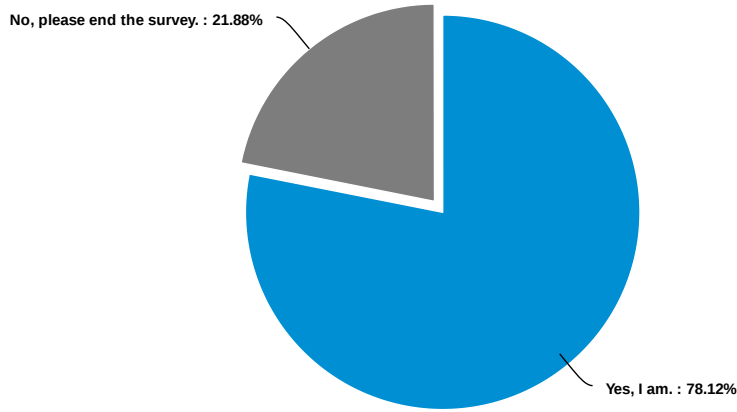
<b>Mean 5.100</b>	<b>Variance: 7.157</b>
<b>Standard Deviation: 2.675</b>	<b>Standard Error: 0.128</b>
<b>Confidence Interval: [4.850 - 5.351]</b>	

Please identify how you generally learn about local environmental programs and services. Check all that apply. - Text Data for Other, please describe.

03/19/2023	100515803	Through my employment
03/11/2023	100125194	Flyers in public places

27. DEMOGRAPHICS

28. Are you willing to answer three optional demographics questions?



Answer	Count	Percent	20%	40%	60%	80%	100%
Yes, I am.	125	78.12%	<div style="width: 78.12%; height: 10px; background-color: #0070C0;"></div>				
No, please end the survey.	35	21.88%	<div style="width: 21.88%; height: 10px; background-color: #666666;"></div>				
<b>Total</b>	<b>160</b>	<b>100 %</b>					
<b>Mean 1.219</b>			<b>Variance: 0.172</b>				
<b>Standard Deviation: 0.415</b>			<b>Standard Error: 0.033</b>				
<b>Confidence Interval: [1.154 - 1.283]</b>							

29. (OPTIONAL) What languages do you speak at home and work? Please select your primary languages spoken at home and work in the columns below.

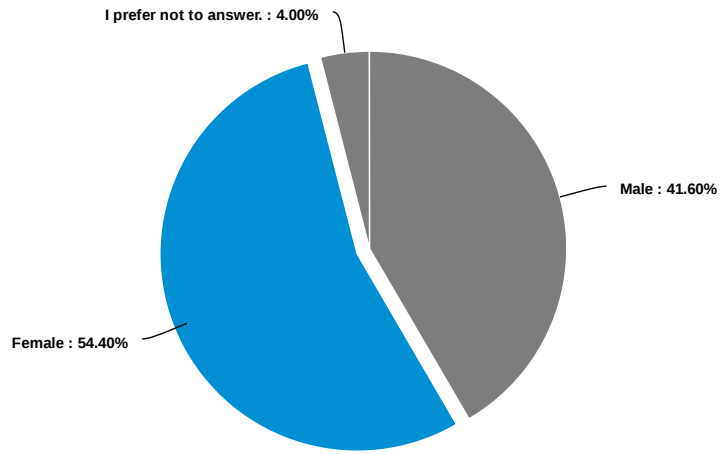
Statement	Spoken at home	Spoken at work	Overall
Chamorro	71 57.72%	52 42.28%	123 100%
Carolinian	9 60%	6 40%	15 100%
English	100 50.51%	98 49.49%	198 100%
Filipino	11 73.33%	4 26.67%	15 100%
Hawaiian	0 0%	0 0%	0 0%
Chuukese	4 100%	0 0%	4 100%
Chinese	3 75%	1 25%	4 100%
Korean	2 66.67%	1 33.33%	3 100%
Bengali	0 0%	0 0%	0 0%
American Sign Language (ASL)	0 0%	0 0%	0 0%
Other language	5 71.43%	2 28.57%	7 100%
I prefer not to answer.	1 50%	1 50%	2 100%



Question	Count	Score	Spoken at home	Spoken at work
Chamorro	123	1.42	<div style="width: 80%;"></div>	
Carolinian	15	1.4	<div style="width: 80%;"></div>	
English	198	1.49	<div style="width: 85%;"></div>	
Filipino	15	1.27	<div style="width: 70%;"></div>	
Hawaiian	0	0	<div style="width: 0%;"></div>	
Chuukese	4	1	<div style="width: 50%;"></div>	
Chinese	4	1.25	<div style="width: 60%;"></div>	
Korean	3	1.33	<div style="width: 65%;"></div>	
Bengali	0	0	<div style="width: 0%;"></div>	
American Sign Language (ASL)	0	0	<div style="width: 0%;"></div>	
Other language	7	1.29	<div style="width: 65%;"></div>	
I prefer not to answer.	2	1.5	<div style="width: 75%;"></div>	
<b>Average</b>		<b>1.44</b>		

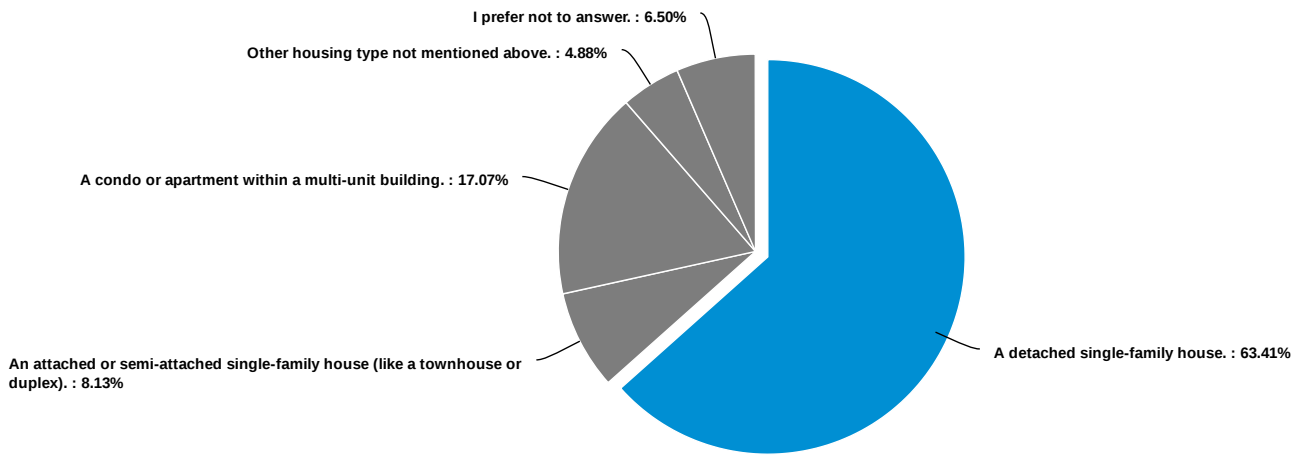


30. (OPTIONAL) Which of the following best describes your gender? Select one.



Answer	Count	Percent	20%	40%	60%	80%	100%
Male	52	41.6%	<div style="width: 41.6%; background-color: #666; height: 10px;"></div>				
Female	68	54.4%	<div style="width: 54.4%; background-color: #0070C0; height: 10px;"></div>				
Non-binary	0	0%	<div style="width: 0%; background-color: #ccc; height: 10px;"></div>				
I prefer not to answer.	5	4%	<div style="width: 4%; background-color: #333; height: 10px;"></div>				
<b>Total</b>	<b>125</b>	<b>100 %</b>					
<b>Mean 1.664</b>		<b>Variance: 0.467</b>					
<b>Standard Deviation: 0.683</b>		<b>Standard Error: 0.061</b>					
<b>Confidence Interval: [1.544 - 1.784]</b>							

31. (OPTIONAL) Which of these housing types best describes where you live? Select one.



Answer	Count	Percent	20%	40%	60%	80%	100%
A detached single-family house.	78	63.41%	<div style="width: 63.41%;"></div>				
An attached or semi-attached single-family house (like a townhouse or duplex).	10	8.13%	<div style="width: 8.13%;"></div>				
A condo or apartment within a multi-unit building.	21	17.07%	<div style="width: 17.07%;"></div>				
A nursing home, hospital, or rehabilitation facility.	0	0%	<div style="width: 0%;"></div>				
I am homeless or otherwise displaced.	0	0%	<div style="width: 0%;"></div>				
Other housing type not mentioned above.	6	4.88%	<div style="width: 4.88%;"></div>				
I prefer not to answer.	8	6.5%	<div style="width: 6.5%;"></div>				
<b>Total</b>	<b>123</b>	<b>100 %</b>					
<b>Mean 2.057</b>			<b>Variance: 3.234</b>				
<b>Standard Deviation: 1.798</b>			<b>Standard Error: 0.162</b>				
<b>Confidence Interval: [1.739 - 2.375]</b>							