

Wai`anae Coast Community Health Survey

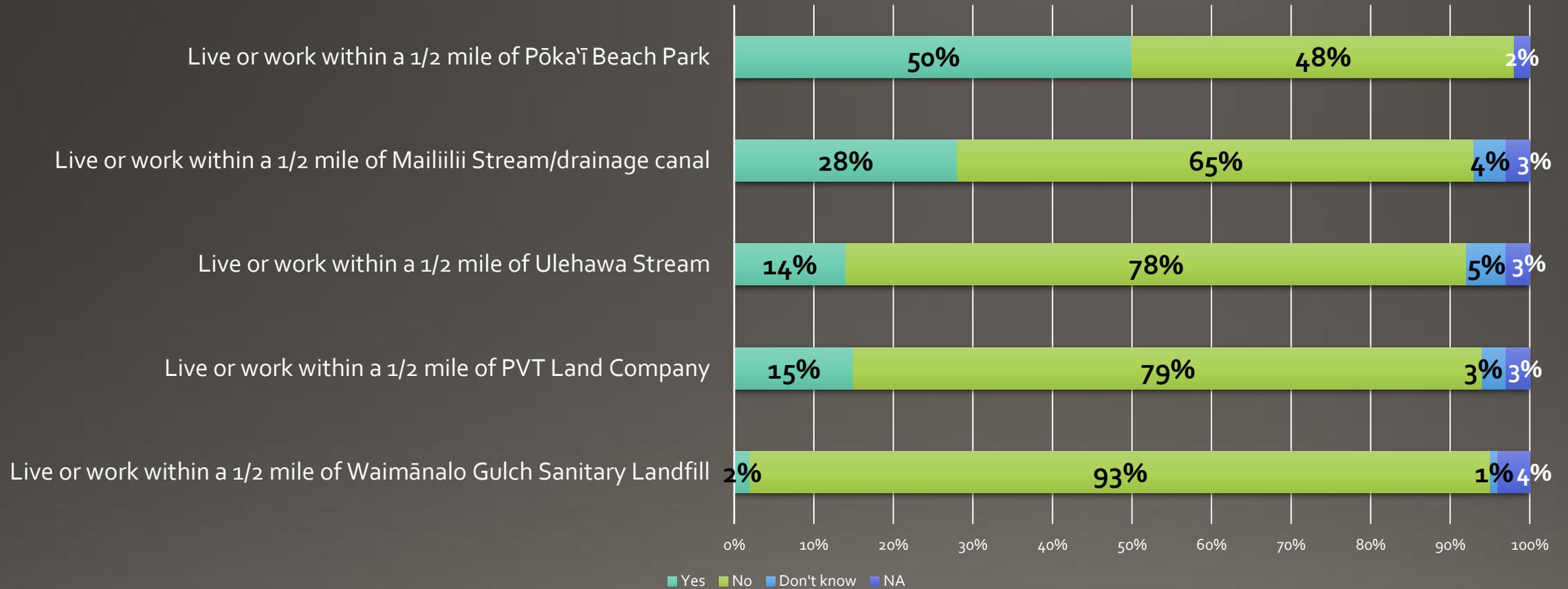
Prepared for Kingdom Pathways and Pirkle
Epidemiology and Evaluation by Ward Research

Methodology

- Mixed-mode survey administered October 6th-November 4th, 2025 via online panel sample, mail, and telephone to residents in the 96792 zip code (~34,000 adults)
- 111 completed surveys (16 completed via Hawai'i Panel; 33 completed via telephone; 62 completed via mail survey or online/QR option on mail survey)
- Sampling error = +/-9.29 percentage points
- Survey included topics on proximity to possible environmentally contaminated locations, assessments of air and water quality at certain locations, diagnosed or suspected health conditions, neighborhood ratings, and demographics.

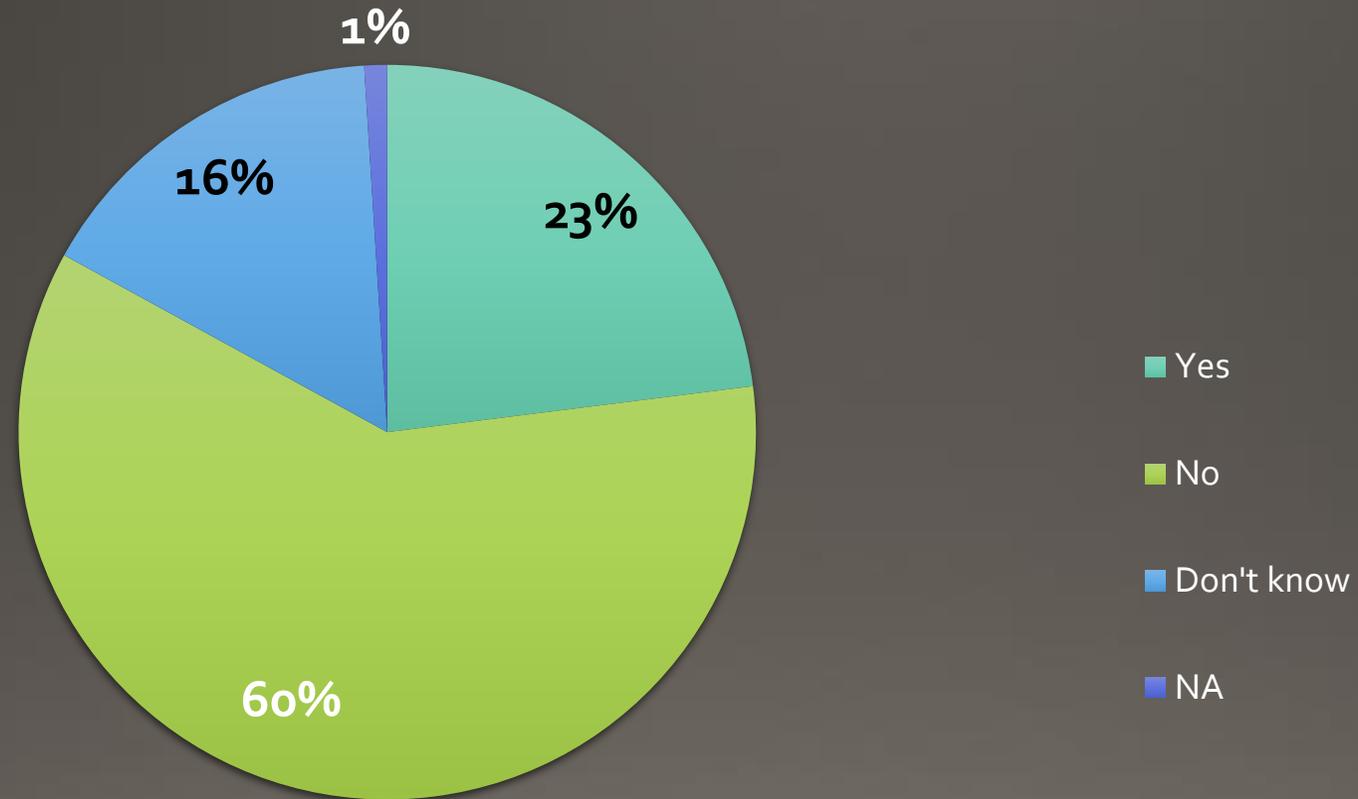
Findings

Half of surveyed respondents (50%) live or work within a 1/2 mile of Pōkaʻī Beach Park and just over one-quarter (28%) live or work within a 1/2 mile of Mailiilii Stream. Just 2% of respondents live or work near Waimānalo Gulch Sanitary Landfill.



Question: "Do you live or work within...?"
n=111

Approximately one-quarter (23%) of surveyed respondents attribute health problems to air pollution in their neighborhoods.

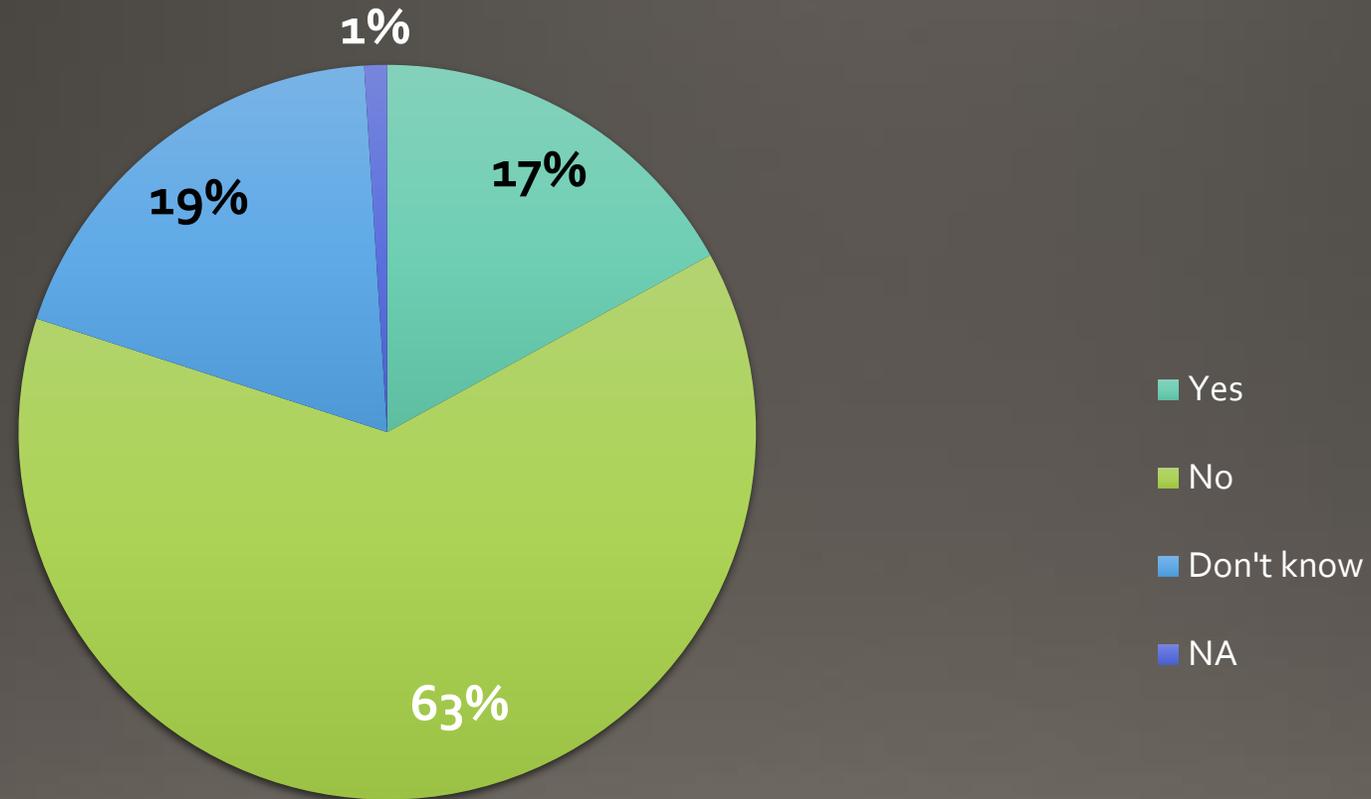


Question: "Have you got, or have you had, health problems due, in your opinion, to air pollution in your neighborhood?"
n=111

There was a statistically significant difference in the proportion of respondents who live within a ½ mile of Ulehawa Stream who said yes, their health problems are associated with air pollution in their neighborhoods (47% vs. 18%). The results for those who lived or work in the other locations were not statistically different.

	½ mile of Pōkaī Bay		½ mile of Mailiilii		½ mile of Ulehawa		½ mile of PVT		½ mile of Waimānalo Gulch	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Yes	20%	25%	37%	17%	47%*	18%	44%	19%	100%	20%
No	58%	62%	50%	65%	47%	63%	56%	61%		62%
Don't know	20%	13%	13%	16%	7%	18%		19%		17%
Not applicable	2%			1%		1%		1%		1%
<i>Total sample (n)</i>	(55)	(53)	(30)	(69)	(15)	(83)	(16)	(84)	(2)	(99)

By contrast, less than 20% of respondents believe their health problems are attributable to water pollution.

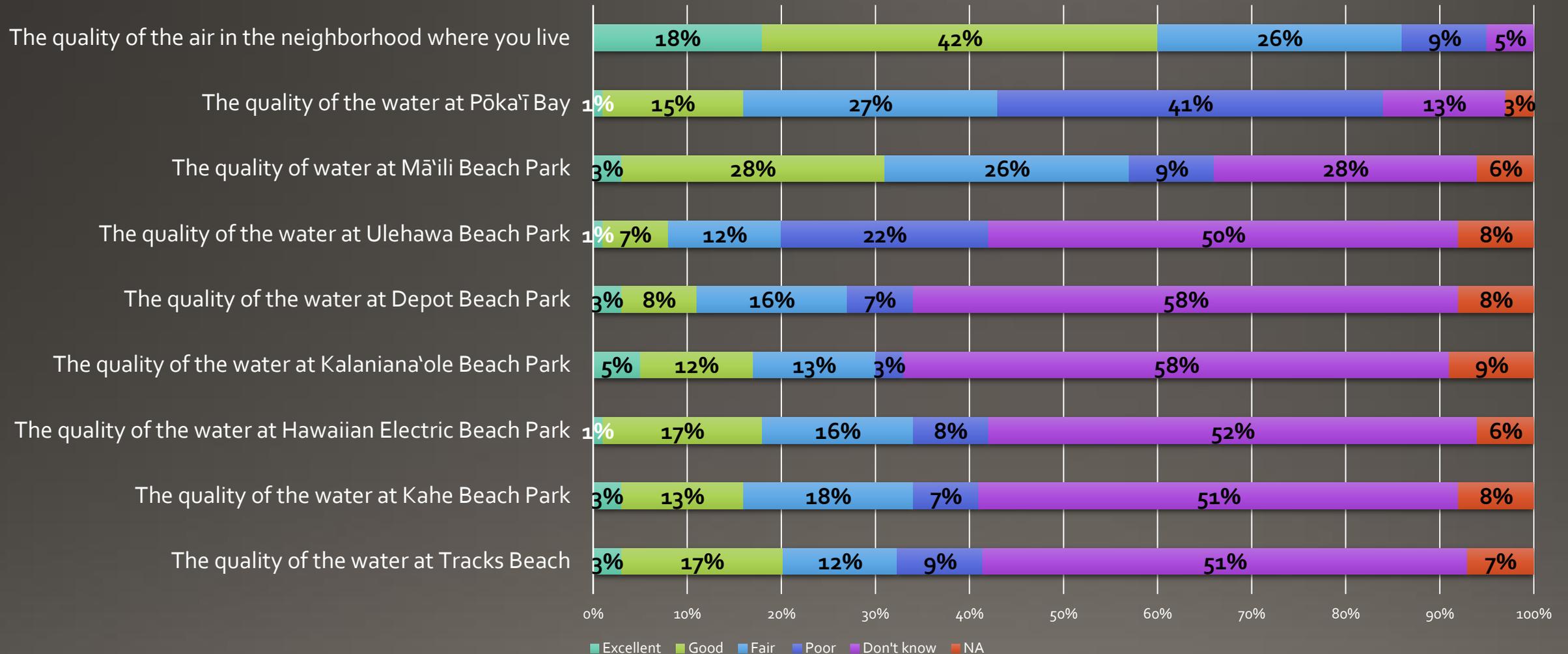


Question: "Have you got, or have you had, health problems due, in your opinion, to water pollution?"
n=111

There were no statistically significant differences in associating water pollution and health problems given the five key locations identified in this survey. The distribution of responses are similar to those of the overall results.

	½ mile of Pōkaī Bay		½ mile of Mailiilii		½ mile of Ulehawa		½ mile of PVT		½ mile of Waimānalo Gulch	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Yes	20%	13%	30%	13%	27%	16%	31%	15%	50%	16%
No	56%	72%	57%	68%	73%	64%	69%	63%	50%	65%
Don't know	22%	15%	13%	17%		19%		20%		18%
Not applicable	2%			1%		1%				1%
<i>Total sample (n)</i>	<i>(55)</i>	<i>(53)</i>	<i>(30)</i>	<i>(69)</i>	<i>(15)</i>	<i>(83)</i>	<i>(16)</i>	<i>(84)</i>	<i>(2)</i>	<i>(99)</i>

Most respondents (60%) believe the air quality in their neighborhood is “good” or “excellent”. They are less knowledgeable about the quality of water at nearby beach parks with the exception of Pōkaī Bay, in which 68% of respondents believe the quality of water is “fair” or “poor”.



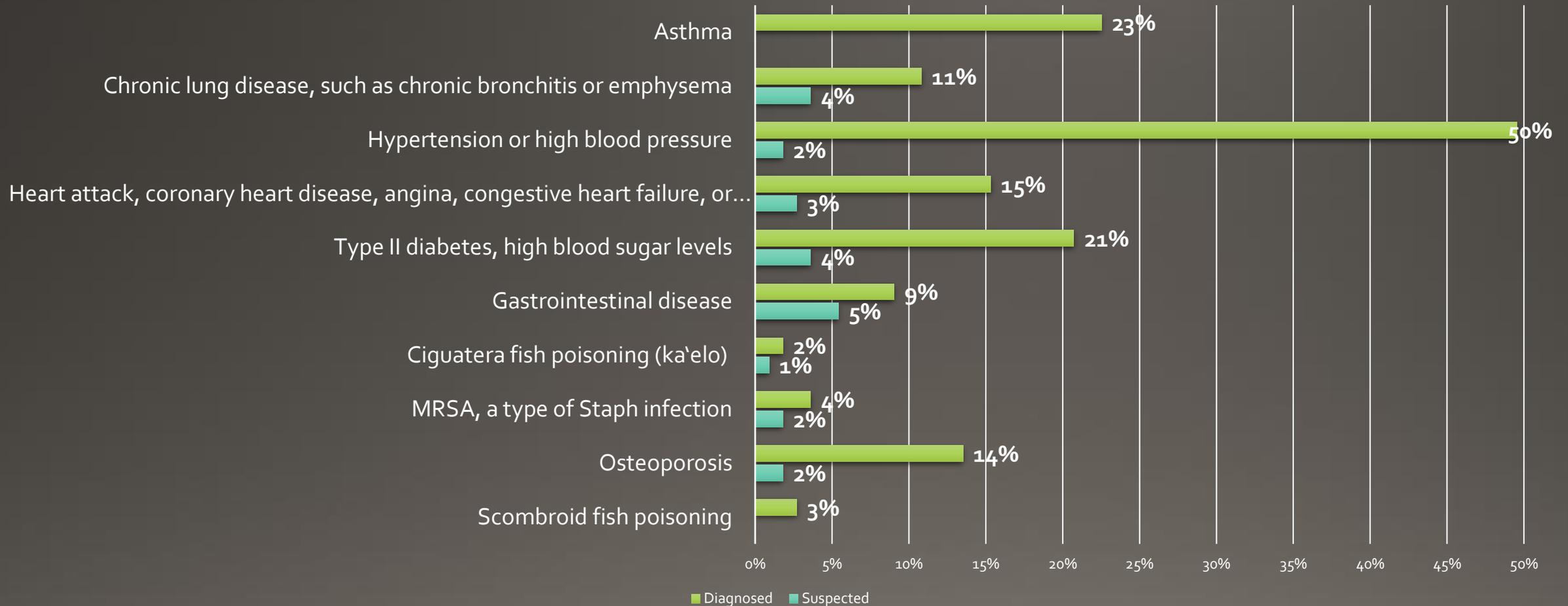
Question: “How would you rate...?”

n=111

Residents who live or work near Mailiilii Stream were significantly more likely to state the quality of the air in their neighborhood is poor (23% vs. 4%). There were no other statistically significant results by location of work or residence.

	½ mile of Pōkaī Bay		½ mile of Mailiilii		½ mile of Ulehawa		½ mile of PVT		½ mile of Waimānalo Gulch	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Poor	11%	8%	23%*	4%	20%	17%	25%	6%	50%	8%
Fair	29%	23%	30%	25%	33%	24%	13%	29%	50%	25%
Good	42%	42%	33%	43%	20%	46%	38%	43%		41%
Excellent	15%	23%	10%	25%	27%	18%	25%	18%		20%
Don't know	4%	6%	3%	3%		5%		5%		5%
<i>Total sample (n)</i>	(55)	(53)	(30)	(69)	(15)	(83)	(16)	(84)	(2)	(99)

Hypertension or high blood pressure was the most frequently diagnosed chronic disease among respondents (50%), but nearly one-quarter of respondents have been diagnosed with asthma (23%) or Type II diabetes (21%). Just a small percentage (<5%) of respondents who had not been diagnosed with specific chronic diseases have ever suspected they had any of the listed health concerns.



Question: "Has a doctor ever told you that you have one or more of the following health concerns or conditions? (Please select all that apply)" and "Have you ever suspected you've had any of the following health concerns or conditions? (Please select all that apply)"

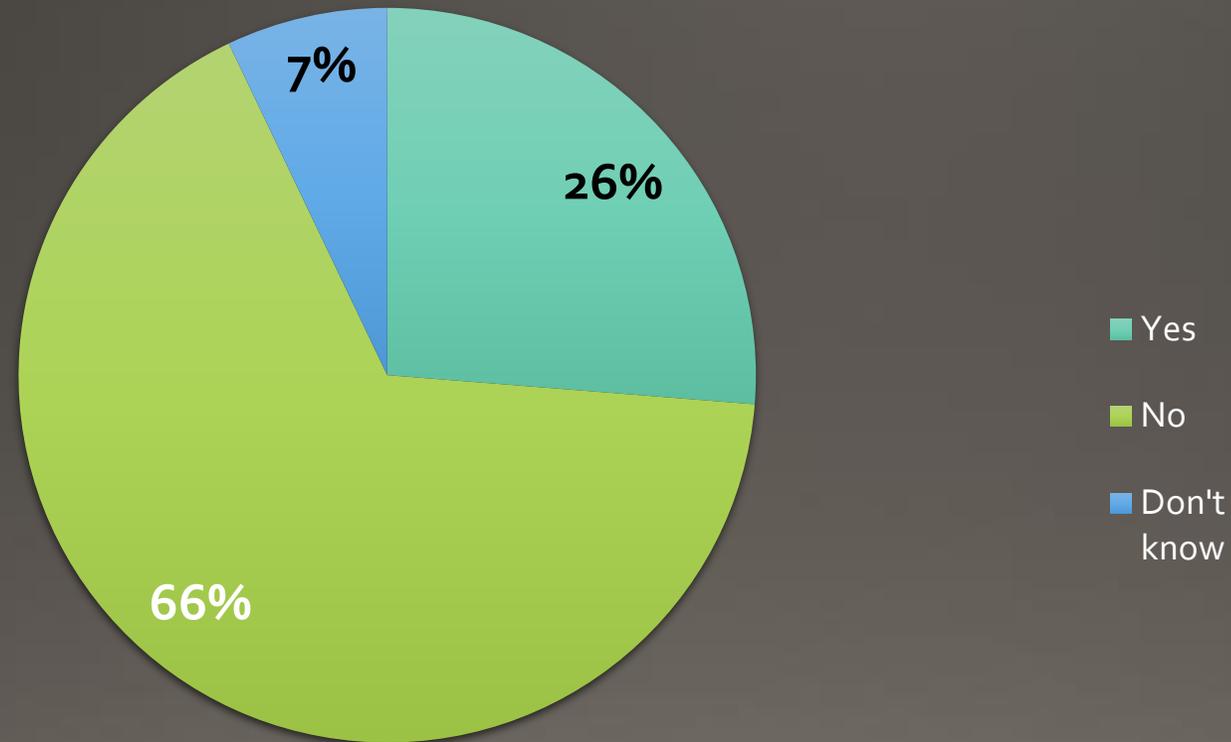
n=111

For the most part, there were few differences by location for those with diagnosed chronic diseases. Residents who work or live within a ½ mile of Mailiilii Stream were significantly more likely to have been diagnosed with gastrointestinal disease than those who didn't live or work in the area (29% vs. 6%). There are also significant differences among those who lived or worked near Waimānalo Gulch, but the sample size is so small that extreme caution is recommended in making any inferences from the data.

	½ mile of Pōkaī Bay		½ mile of Mailiilii		½ mile of Ulehawa		½ mile of PVT		½ mile of Waimānalo Gulch	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Asthma	30%	31%	38%	31%	42%	30%	38%	33%	100%*	31%
Chronic lung disease, such as chronic bronchitis or emphysema	16%	13%	29%	10%	25%	13%	15%	15%		15%
Hypertension or high blood pressure	78%	64%	76%	67%	50%	74%	54%	73%	100%*	69%
Heart attack, coronary heart disease, angina, congestive heart failure, or other heart problems	19%	26%	29%	21%	42%	19%	38%	18%	100%*	19%
Type II diabetes, that is to say, high blood sugar levels	35%	28%	38%	31%	25%	31%	23%	33%	50%	31%
Gastrointestinal disease	11%	13%	29%*	6%	17%	9%	15%	13%	100%*	10%
Ciguatera fish poisoning (ka'elo)	5%		10%			2%		2%		1%
MRSA, a type of Staph infection	8%	3%	10%	2%		4%	8%	2%		3%
Osteoporosis	16%	23%	10%	25%	33%	19%	23%	20%	100%*	18%
Scombroid fish poisoning	8%		14%			4%		4%		3%
<i>Total sample (n)</i>	(37)	(39)	(21)	(48)	(13)	(55)	(13)	(55)	(2)	(67)

Approximately one-quarter (26%) of surveyed respondents indicated they have respiratory allergies.

Women were significantly more likely than men to indicate they have these allergies (32% vs. 15%).



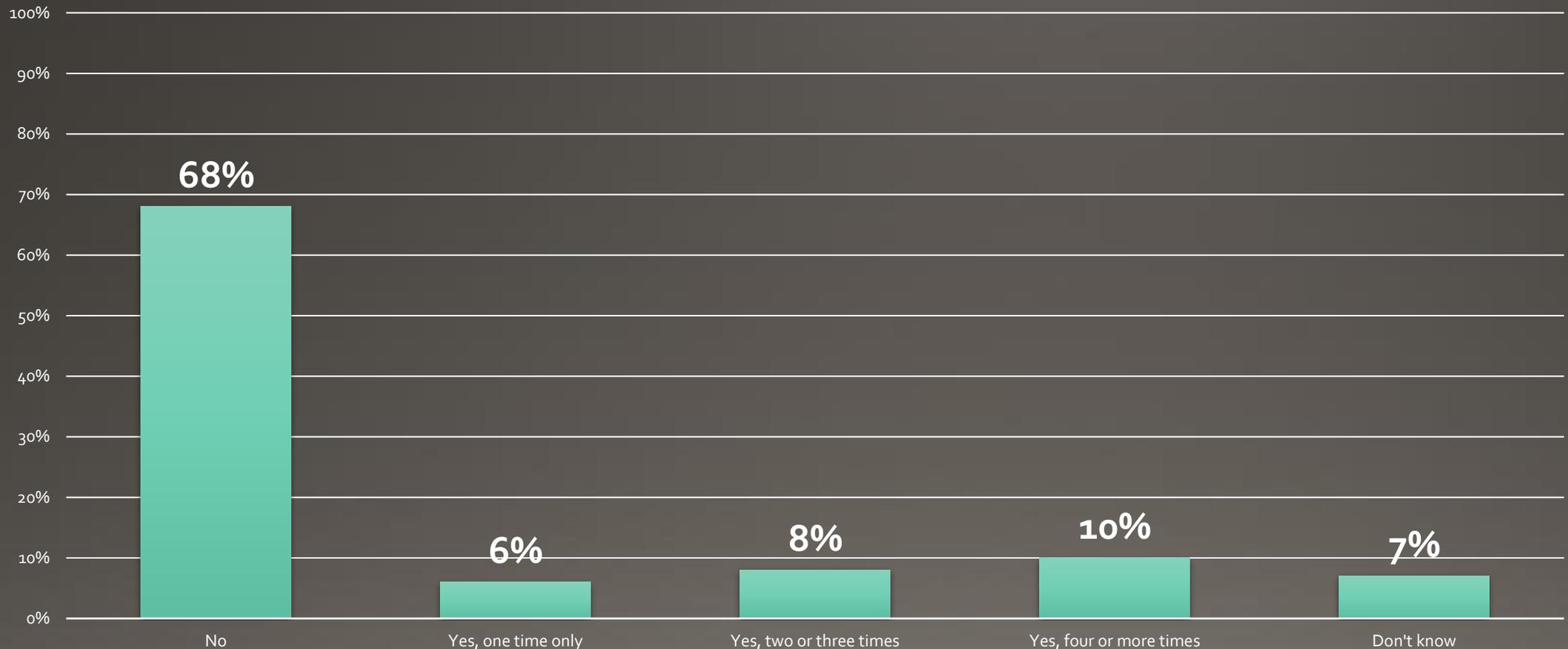
Question: "Do you have respiratory allergies, such as allergic rhinitis or sinusitis?"

n=110

In terms of respiratory allergies, there were no statistically significant differences by work location or residence. The distribution of responses are similar to those of the overall results.

	½ mile of Pōkaī Bay		½ mile of Mailiilii		½ mile of Ulehawa		½ mile of PVT		½ mile of Waimānalo Gulch	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Yes	24%	27%	27%	26%	33%	27%	31%	28%	50%	27%
No	71%	63%	63%	66%	67%	66%	69%	64%	50%	66%
Don't know	5%	10%	10%	7%		7%		8%		7%
<i>Total sample (n)</i>	<i>(55)</i>	<i>(52)</i>	<i>(30)</i>	<i>(68)</i>	<i>(15)</i>	<i>(82)</i>	<i>(16)</i>	<i>(83)</i>	<i>(2)</i>	<i>(98)</i>

Approximately one-third (32%) of respondents reported they had ever had swimmer's ear. Of those who had the affliction, the largest proportion (31%) have had it four or more times.



Question: "Have you gotten swimmer's ear before?"

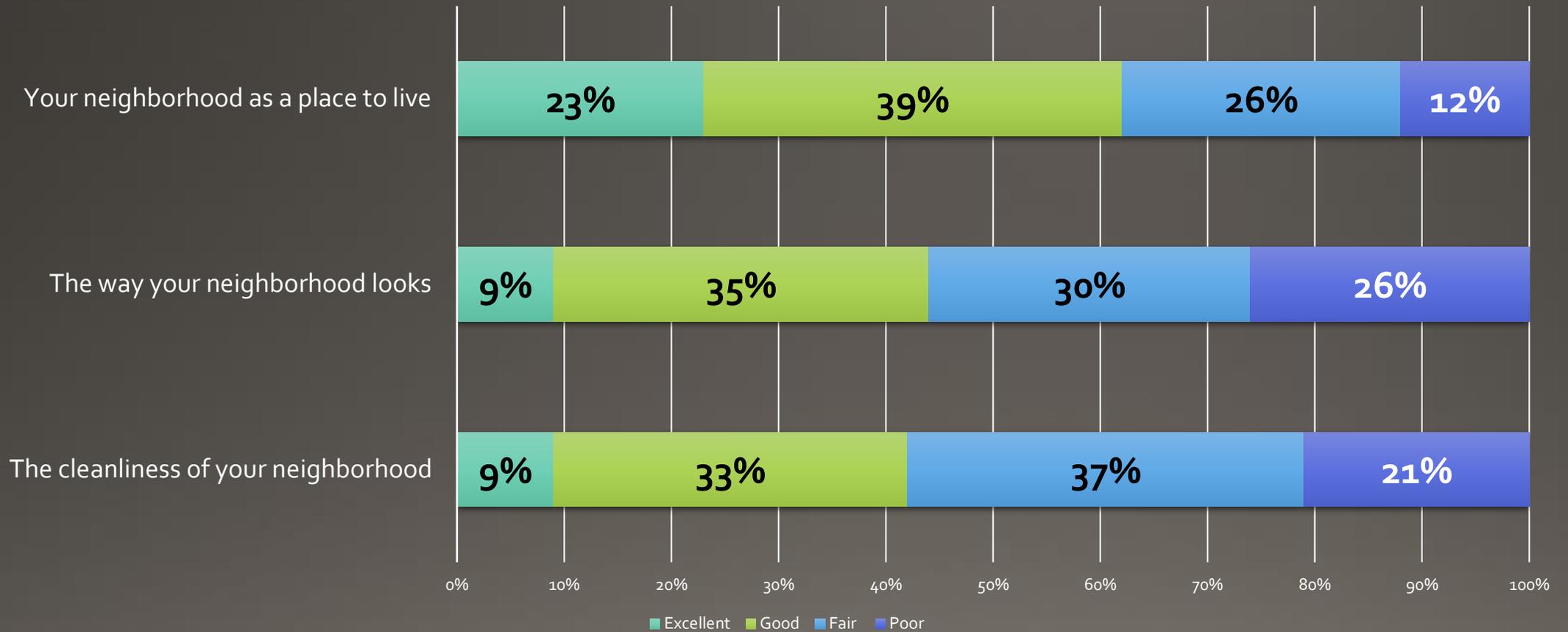
n=111

In terms of experience with swimmer's ear, there were also no statistically significant differences by work location or residence.

	½ mile of Pōkaī Bay		½ mile of Maililii		½ mile of Ulehawa		½ mile of PVT		½ mile of Waimānalo Gulch	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
No	65%	72%	70%	68%	67%	70%	81%	67%	50%	70%
Yes, one time only	7%	4%	3%	7%	7%	7%	6%	7%		6%
Yes, two or three times	13%	4%	3%	10%	20%	7%		11%		9%
Yes, four or more times	11%	9%	13%	9%	7%	10%	13%	8%	50%	8%
Don't know	4%	11%	10%	6%		6%		7%		7%
<i>Total sample (n)</i>	<i>(55)</i>	<i>(53)</i>	<i>(30)</i>	<i>(69)</i>	<i>(15)</i>	<i>(83)</i>	<i>(16)</i>	<i>(84)</i>	<i>(2)</i>	<i>(99)</i>

Most respondents rate their neighborhoods highly in terms of being a good place to live. On the other hand, a majority of respondents provide poorer ratings on the way their neighborhoods look and the cleanliness of their neighborhoods.

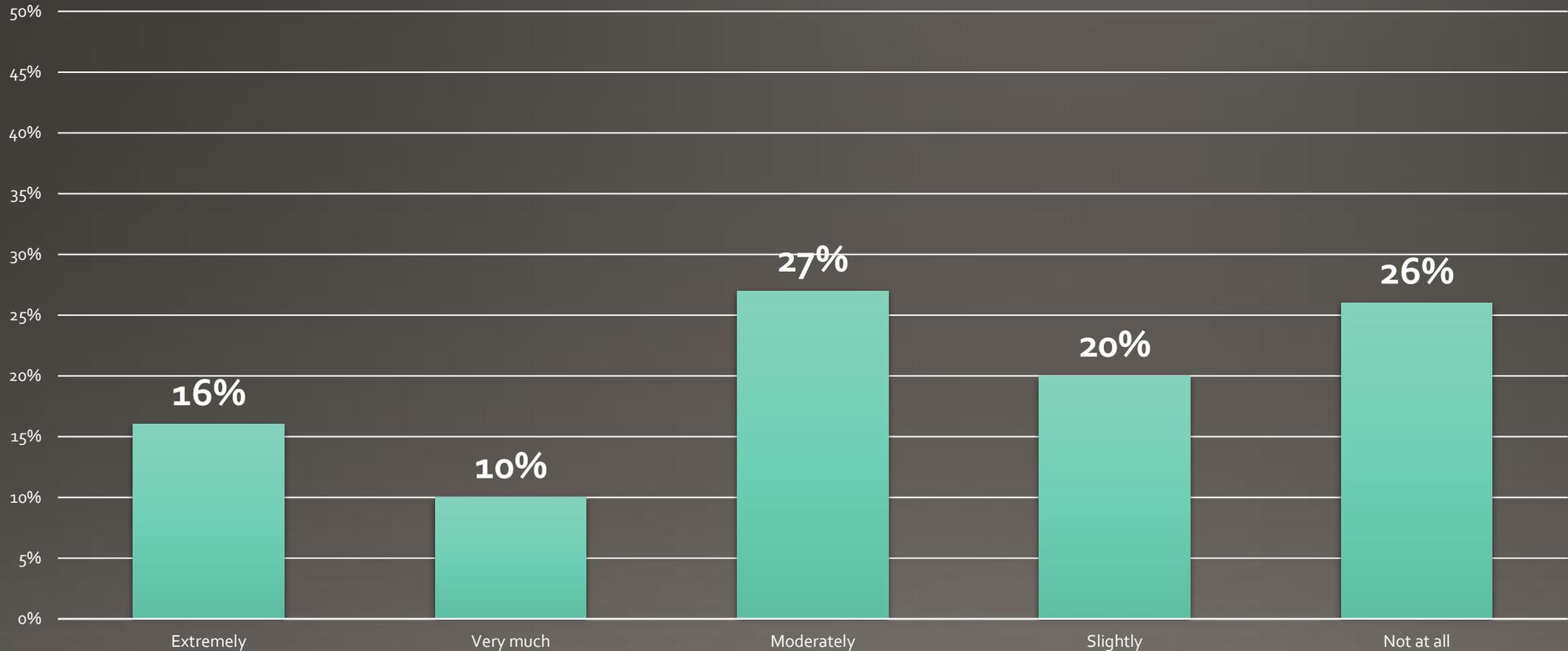
College graduates were more likely than high school graduates to rate their neighborhood looks as “poor” (38% vs. 16%) and those with some college education were more likely to rate the cleanliness of the neighborhood as “poor” compared to those with a high school education (33% vs. 11%).



Question: “We’d like to ask you some questions about your neighborhood. Overall, how would you rate...?”

n=111

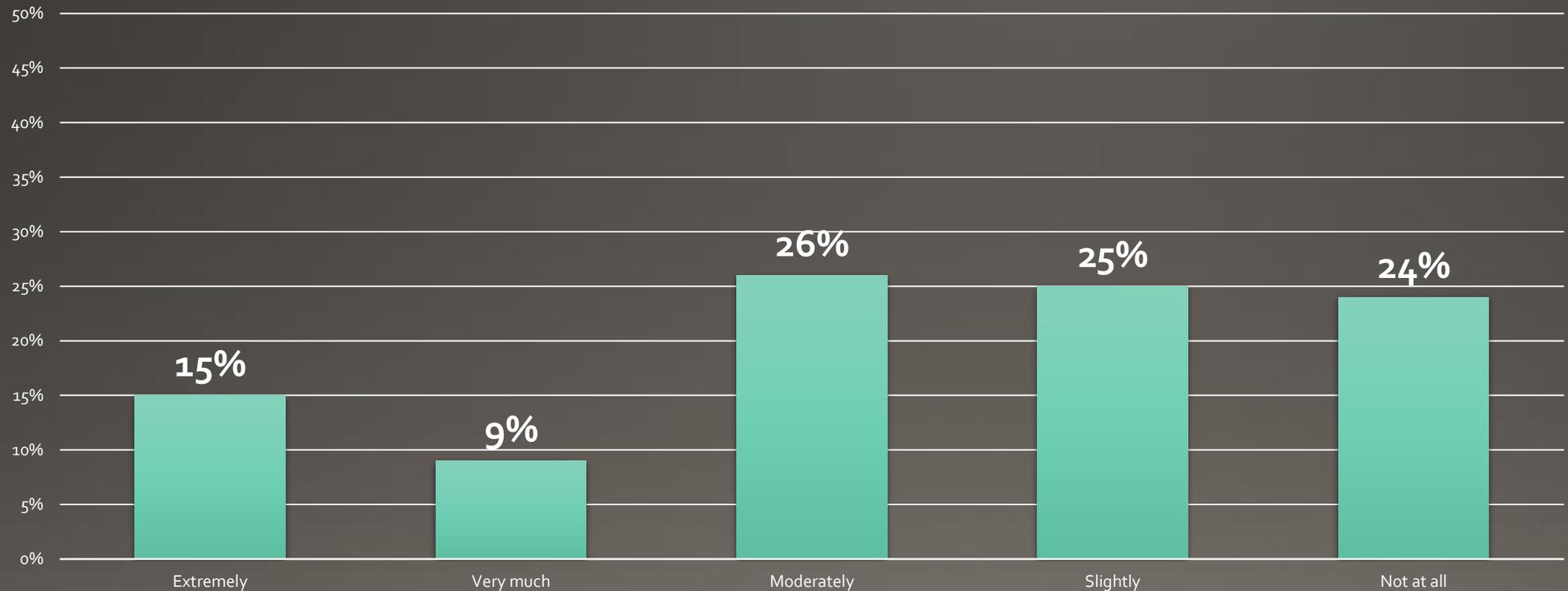
Approximately one-quarter (26%) of respondents stated they were bothered by road noise over the past year, about one-quarter (27%) indicated they were just moderately annoyed, and about half (46%) indicated they were either slightly or not at all bothered. The two respondents who live or work near Waimānalo Gulch stated they were “extremely bothered” by road noise.



Question: “Thinking about the last 12 months or so, when you were at home, how much does noise from the road bother, disturb, or annoy you?”
n=110

As was the case with road noise, approximately one-quarter (24%) of respondents indicated they were bothered by the noise of large trucks, another one-quarter (26%) stated they were moderately bothered, and about half (49%) stated they were just slightly or not at all bothered by these types of vehicles.

Residents who live or work near Pōkaī Bay were significantly more likely to state they were “very much bothered” by the noise from large vehicles.

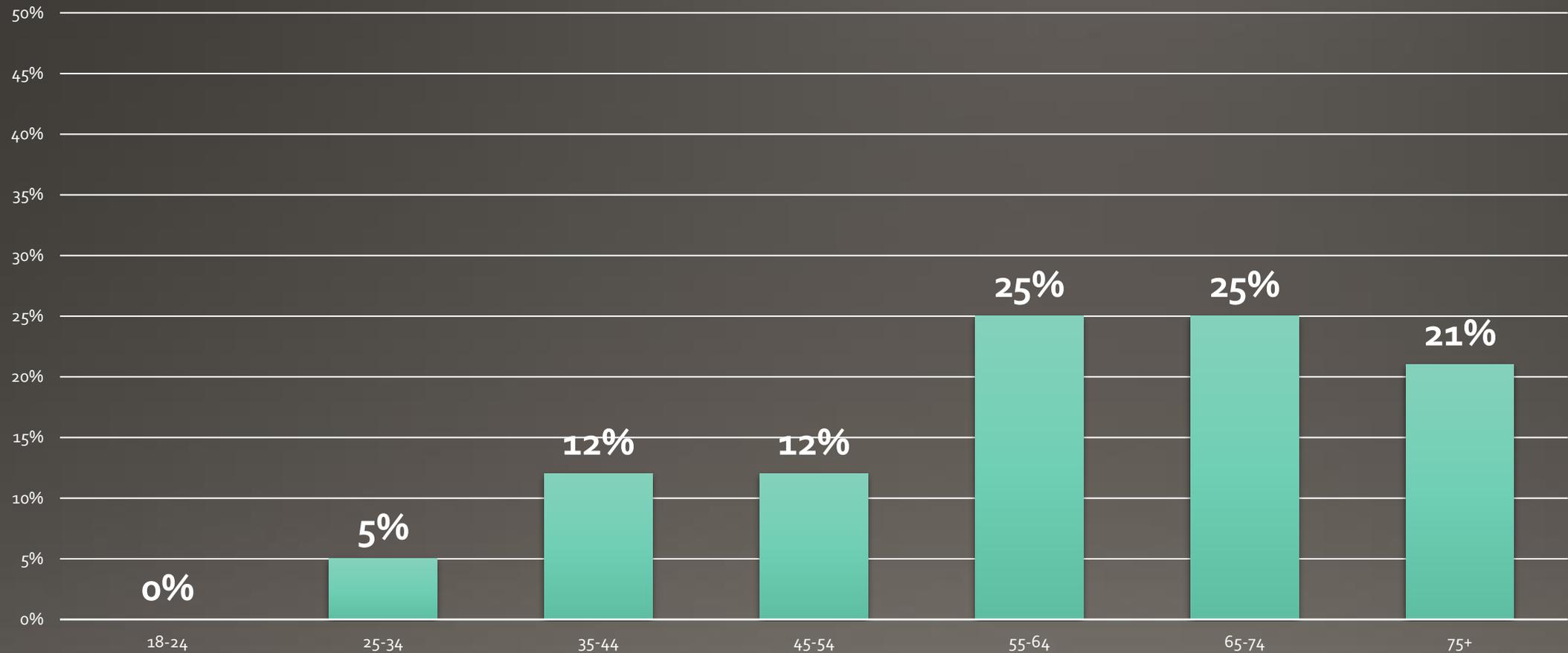


Question: “Thinking about the last 12 months or so, when you were at home, how much does noise from large vehicles, such as trucks and construction vehicles bother, disturb, or annoy you?”

n=111

Demographics

Survey respondents tended to be older. Nearly half (46%) were older than 65 and one-quarter were between the ages of 55 and 64. Unsurprisingly, older residents were significantly more likely to have lived in the area longer, have smaller household sizes, and fewer children in the home.



Question: "What is your age?"

n=111

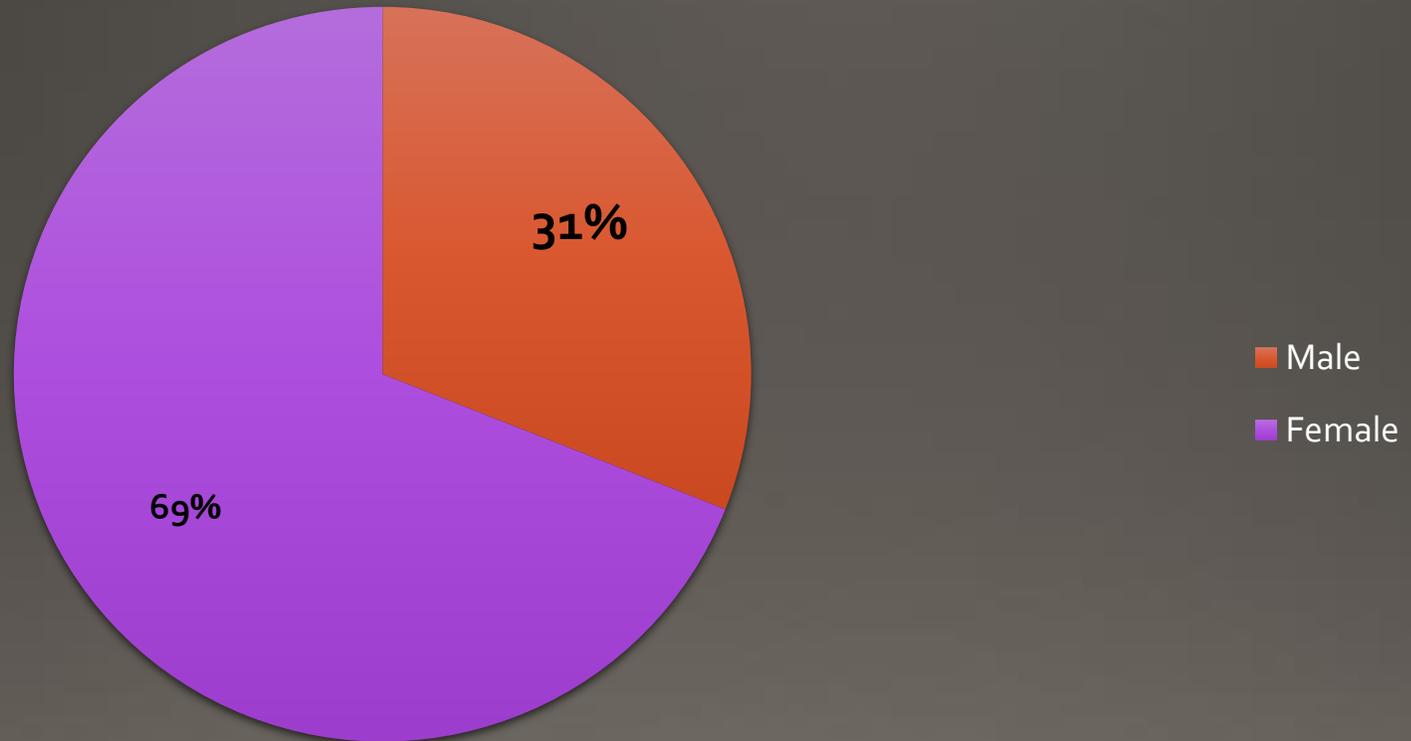
As we might expect with an older age group, respondents have lived in the Waiʻanae area for over 30 years on average, have smaller household sizes, and few children in the household.

Question	Measure of Central Tendency
Years Lived in Waiʻanae Coast Area	Mean=35.3
	Median=38
Household Size	Mean=3
	Median=2
Number of Children in Household	Mean=0.7
	Median=0

Question: "How many years have you lived in the Waiʻanae Coast area?"; "In your household, how many people live with you?"; "In your household, how many people are 17 years old or younger?"

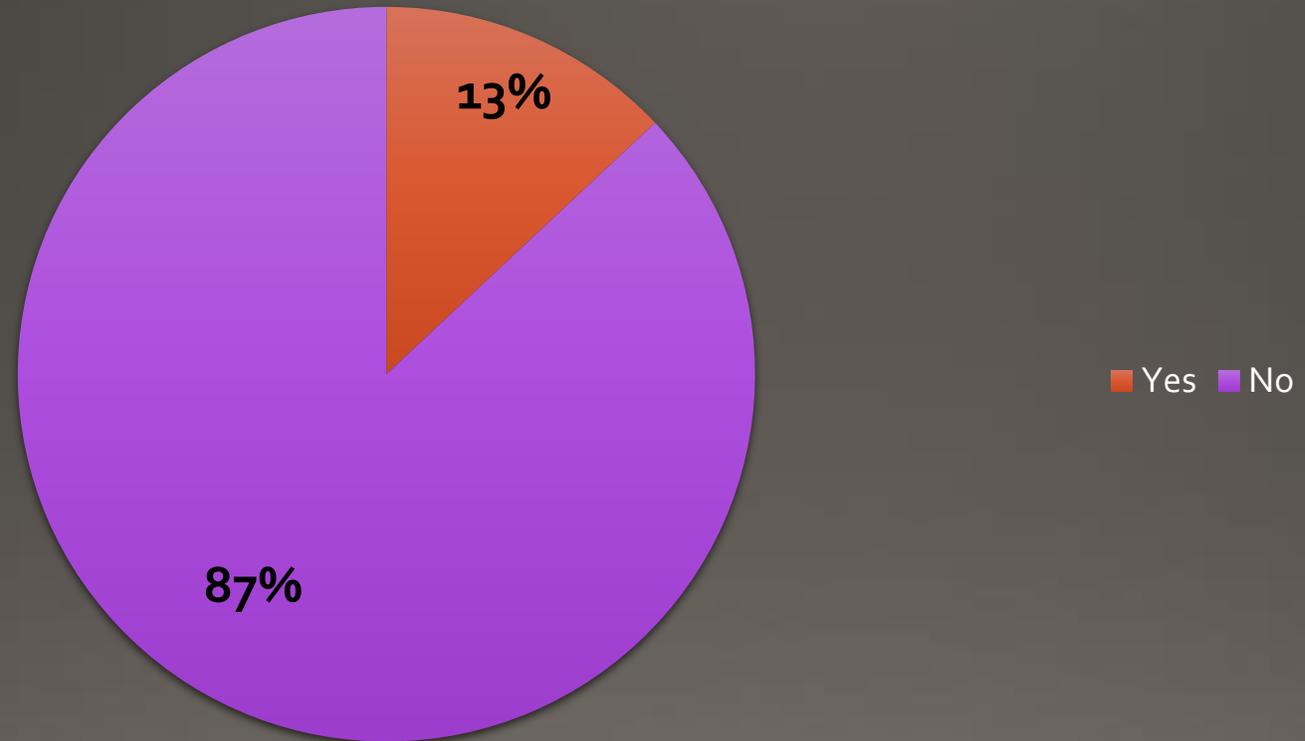
n=111

Over two-thirds (69%) of respondents identify as female; the remaining portion (31%) identify as male.



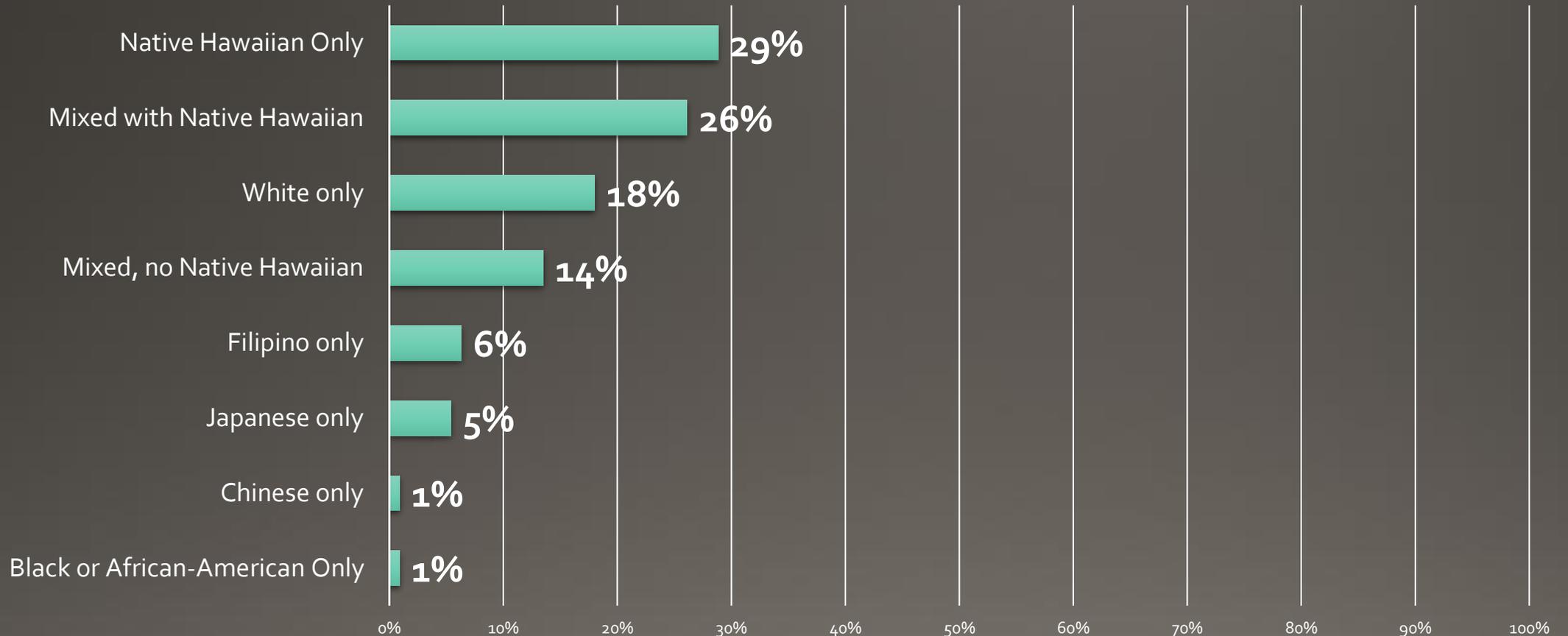
Question: "What gender do you identify as?"
n=111

Just 13% of respondents indicated they are Hispanic.



Question: "Are you Hispanic, Latino/a, or Spanish origin?"
n=111

Over half of respondents (55%) indicated their ethnicity is solely Native Hawaiian or they are of mixed ethnicities that include Native Hawaiian.

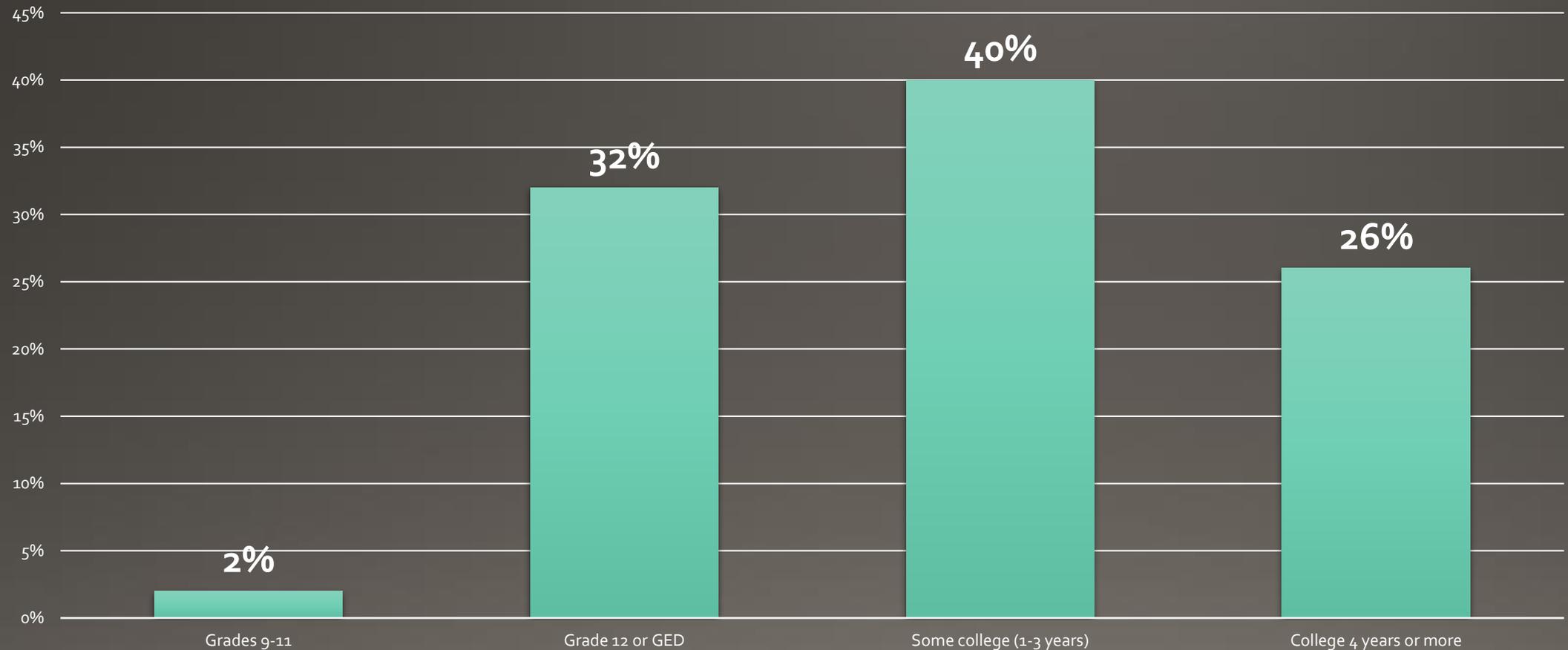


Question: "Which one or more of the following would you say is your race or ethnicity? (Please select all that apply)"

n=111

Approximately one-quarter (26%) of respondents indicated they had a college degree, 40% indicated they had some college education, and 34% indicated they had a high school degree or less.

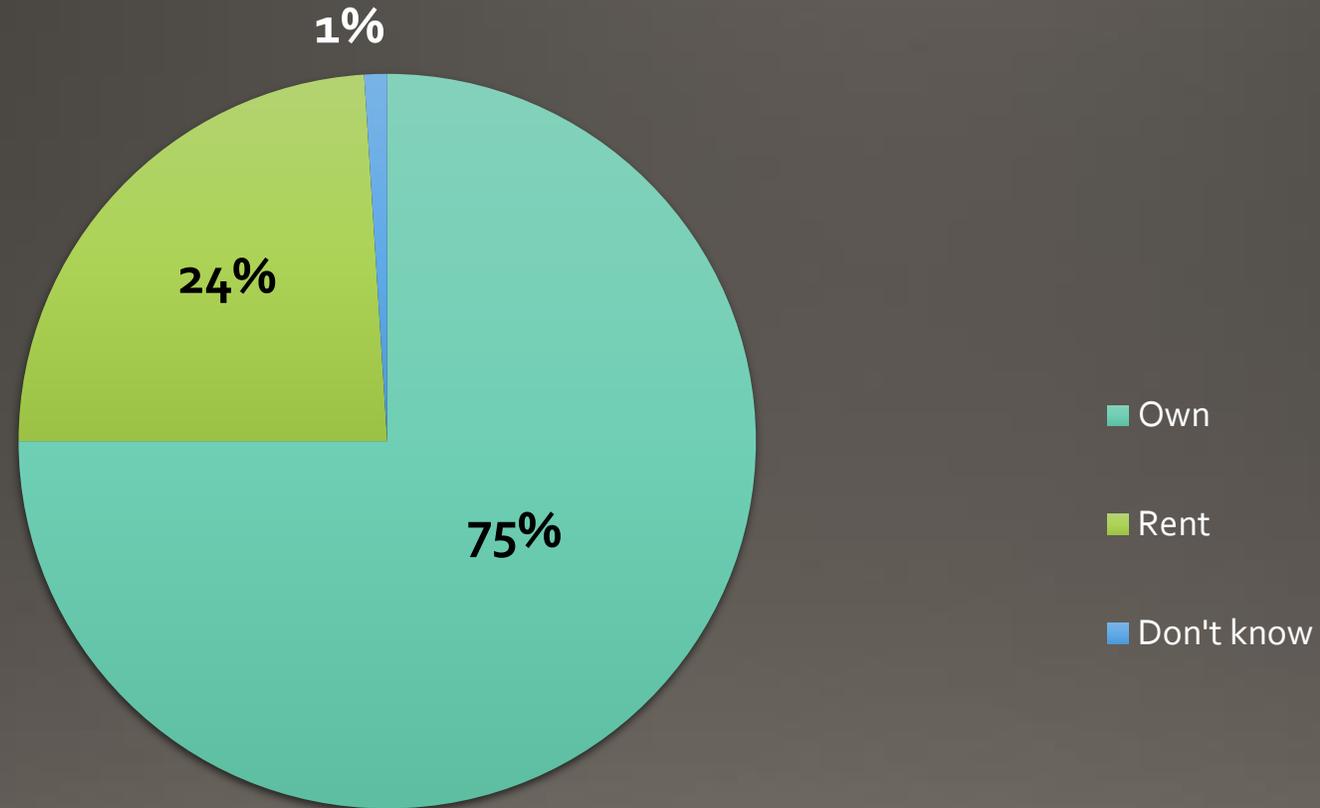
Women and residents aged 18-34 were significantly more likely to have a college degree. By contrast, Native Hawaiians, those who have lived in the area for 21 years or greater, and those who live or work near the PVT disposal were significantly more likely to have a high school education.



Question: "What is the highest grade or year of school you completed?"

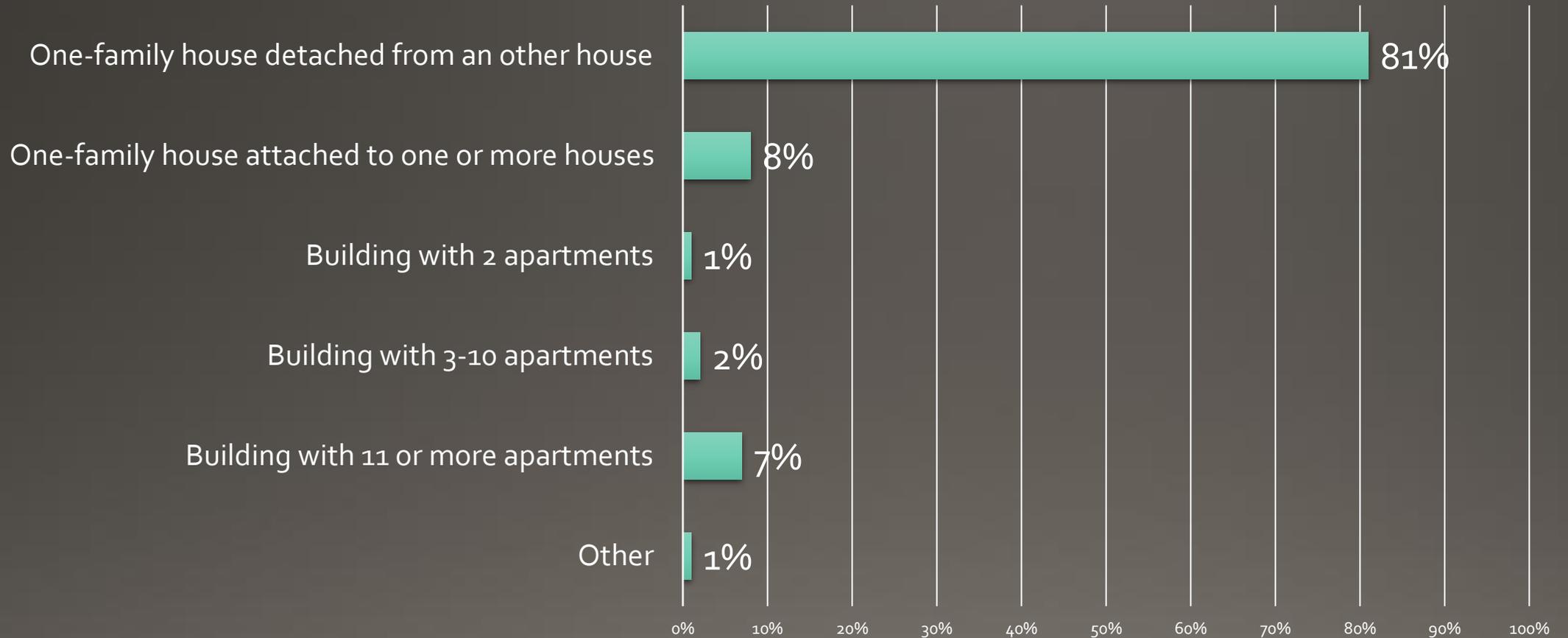
n=111

Three-quarters of respondents stated they own their own home; one-quarter indicated they are renters.



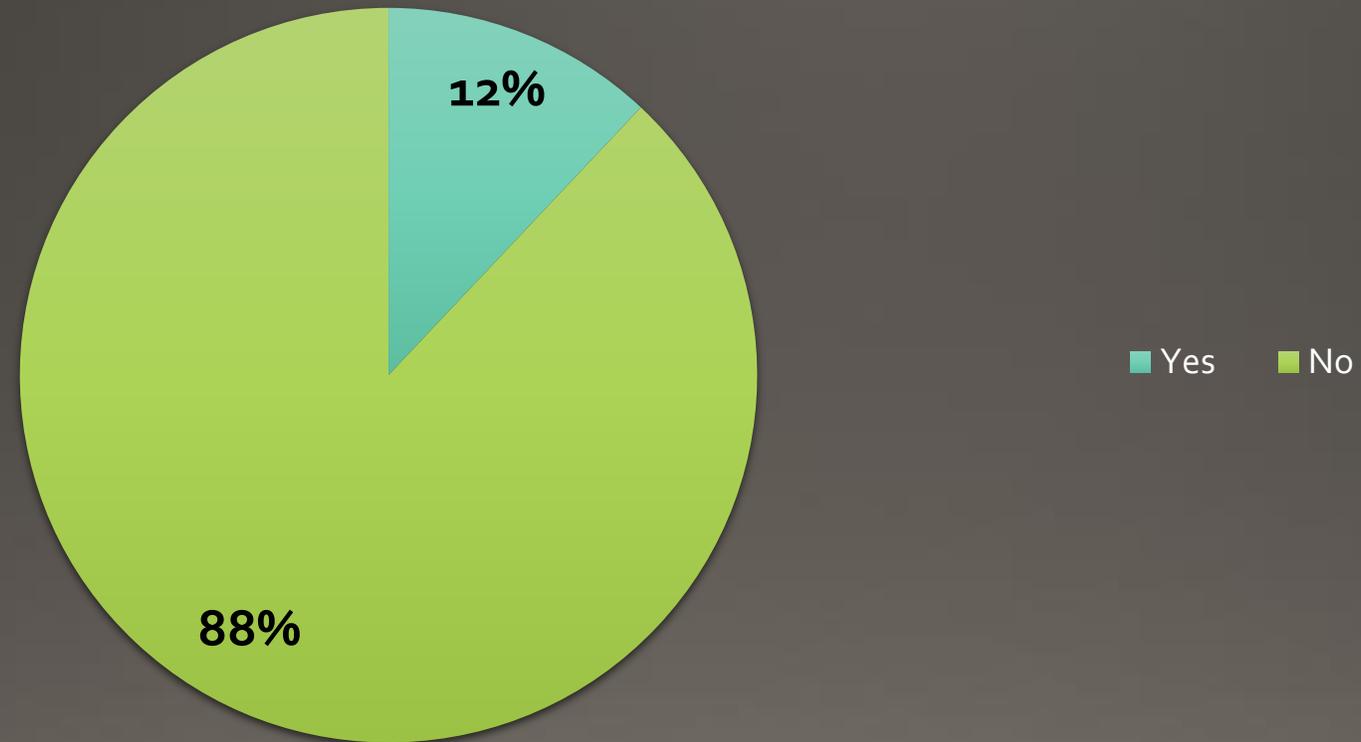
Question: "Do you rent or own your home?"
n=110

The vast majority of survey respondents (81%) live in single family homes.



Question: "Which best describes the building you live in?"
n=110

Approximately one in ten (12%) respondents confirmed they live of Hawaiian Homestead Lands.



Question: "Do you live on Hawaiian Homestead Lands?"
n=109

Appendix

WAI'ANAЕ COAST COMMUNITY HEALTH SURVEY

Aloha,

Kingdom Pathways (www.kingdompathways.info), a Native Hawaiian nonprofit on the Wai'anae Coast that protects 'āina, preserves culture, and strengthens community health through the Huliau o Wai'anae initiative is conducting research on the impact of pollution in our community. Kingdom Pathways has partnered with Ward Research (www.wardresearch.com) and Pirkle Epidemiology and Evaluation to administer a survey to local residents to gather data, identify patterns, and learn more about residents' beliefs of the health of their neighborhoods. Your household has been randomly selected to receive this survey. All responses are confidential and will be combined with those of other residents.

If you would like to contribute to this study, please answer the questions below. The survey will close on October 31st, 2025, so please submit your survey in the enclosed business reply envelope as soon as possible. If you have any questions, please feel free to contact us at Kalei@kphui.info or wrsurvey@wardresearch.com.

If you prefer to provide your feedback online, please scan the QR code or visit:
<https://www.wardresearch.com/waianae>



Your password for the survey is **[PASSWORD]**. Mahalo nui in advance for your time and effort.

- 1. First, are you a current resident of O'ahu?**
Yes 01
No (*Please do not complete*) 02 (001)
- 2. How many years have you lived in the Wai'anae Coast area?**
_____ years (002)
- 3. What is your age?**
Under 18 (*Please do not complete*) 01
18-24 02
25-34 03
35-44 04
45-54 05
55-64 06
65-74 07
75+ 08 (003)
- 4. In your household, how many people live with you? These are people who regularly sleep in your home. Please include yourself in this number.**
_____ person/people (004)
- 5. In your household, how many people are 17 years old or younger. These are teenagers and children that regularly sleep in your home.**
_____ child(ren) (005)
- 6. Which best describes the building you live in? Please select one answer only.**
A one-family house detached from any other house 01
A one-family house attached to one or more houses 02
Building with 2 apartments 03
Building with 3 to 10 apartments 04
Building with 11 or more apartments 05
Boat, RV, or van 06
Other (Specify: _____) 07
Don't know 08 (006)

Now, we'd like to ask you some questions about your household. For the purposes of this survey, your household is defined as all the total number of children and adults that reside in the same housing unit, and rely on the same sources of income and/or food. It may refer to either relatives or non-relatives who live in the unit.

Please turn over to the next page. →

7. Do you rent or own your home?

- I own my home 01
 I rent my home 02
 Don't know 03 (007)

8. Do you live on Hawaiian Homestead Lands?

- Yes 01
 No 02
 Don't know 03 (008)

9. Do you live or work within?

	Yes	No	Don't know	Not applicable	
A 1/2 mile of Pōka'i Beach Park <i>(This is about a 10-minute walk. For example, it takes about 10 minutes to walk from Wai'anāe Elementary to the Beach Park.)</i>	01 <input type="checkbox"/>	02 <input type="checkbox"/>	03 <input type="checkbox"/>	04 <input type="checkbox"/>	(009)
A 1/2 mile of Mā'ili'iili Stream/drainage canal <i>(For example, homes and businesses between Hila Street and the stream/canal are within 1/2 mile. So are those between the stream/canal and the Samoan Methodist Church Wai'anāe Center.)</i>	01 <input type="checkbox"/>	02 <input type="checkbox"/>	03 <input type="checkbox"/>	04 <input type="checkbox"/>	(010)
A 1/2 mile of Ulehawa Stream <i>(This would include most homes and businesses between the stream and Luahualei Naval Road. It would also include most homes and businesses between the Ulehawa stream and Lualei Place.)</i>	01 <input type="checkbox"/>	02 <input type="checkbox"/>	03 <input type="checkbox"/>	04 <input type="checkbox"/>	(011)
A 1/2 mile of PVT construction debris disposal and processing site off of Luahualei Naval Road [also called PVT Land Company] <i>(This would include most homes and businesses between Mīkaha Street and the facility. It also includes those east of Hakimo Road between Kaukai and Hakimo Place.)</i>	01 <input type="checkbox"/>	02 <input type="checkbox"/>	03 <input type="checkbox"/>	04 <input type="checkbox"/>	(012)
A 1/2 mile of Waimanalo Gulch Sanitary Landfill <i>(This is about the distance between the Hawaiian Electric Kaha Power Plant and the Landfill.)</i>	01 <input type="checkbox"/>	02 <input type="checkbox"/>	03 <input type="checkbox"/>	04 <input type="checkbox"/>	(013)

Now we would like to ask you some questions about air and water quality. These questions refer to issues such as pollution. For example, when asking about the quality of water, we are asking you to think about issues such as trash or sewage in the water. These questions are not about recreation, such as the quality of the surf break.

10. Have you got, or have you had, health problems due, in your opinion, to air pollution in your neighborhood?

- Yes 01
 No 02
 Don't know 03
 Not applicable 04 (014)

11. Have you got, or have you had, health problems due, in your opinion, to water pollution?

- Yes 01
 No 02
 Don't know 03
 Not applicable 04 (015)

12. How would you rate...

	Excellent	Good	Fair	Poor	Don't know	Not applicable	
The quality of the air in the neighborhood where you live	04 <input type="checkbox"/>	03 <input type="checkbox"/>	02 <input type="checkbox"/>	01 <input type="checkbox"/>	07 <input type="checkbox"/>	06 <input type="checkbox"/>	(n=124)
The quality of the water at Pōka'i Bay	04 <input type="checkbox"/>	03 <input type="checkbox"/>	02 <input type="checkbox"/>	01 <input type="checkbox"/>	09 <input type="checkbox"/>	06 <input type="checkbox"/>	(n=124)
The quality of the water at Mā'ili Beach Park	04 <input type="checkbox"/>	03 <input type="checkbox"/>	02 <input type="checkbox"/>	01 <input type="checkbox"/>	09 <input type="checkbox"/>	06 <input type="checkbox"/>	(n=124)
The quality of the water at Ulehawa Beach Park	04 <input type="checkbox"/>	03 <input type="checkbox"/>	02 <input type="checkbox"/>	01 <input type="checkbox"/>	09 <input type="checkbox"/>	06 <input type="checkbox"/>	(n=124)
The quality of the water at Depot Beach Park	04 <input type="checkbox"/>	03 <input type="checkbox"/>	02 <input type="checkbox"/>	01 <input type="checkbox"/>	09 <input type="checkbox"/>	06 <input type="checkbox"/>	(n=124)
The quality of the water at Kalaniana'ole Beach Park	04 <input type="checkbox"/>	03 <input type="checkbox"/>	02 <input type="checkbox"/>	01 <input type="checkbox"/>	09 <input type="checkbox"/>	06 <input type="checkbox"/>	(n=124)
The quality of the water at Hawaiian Electric Beach Park	04 <input type="checkbox"/>	03 <input type="checkbox"/>	02 <input type="checkbox"/>	01 <input type="checkbox"/>	09 <input type="checkbox"/>	06 <input type="checkbox"/>	(n=124)
The quality of the water at Kahe Beach Park	04 <input type="checkbox"/>	03 <input type="checkbox"/>	02 <input type="checkbox"/>	01 <input type="checkbox"/>	09 <input type="checkbox"/>	06 <input type="checkbox"/>	(n=124)
The quality of the water at Tracks Beach	04 <input type="checkbox"/>	03 <input type="checkbox"/>	02 <input type="checkbox"/>	01 <input type="checkbox"/>	09 <input type="checkbox"/>	06 <input type="checkbox"/>	(n=124)

Now we would like to learn a little about your health.

13. Has a doctor ever told you that you have one of more of the following health concerns or conditions? Please select all that apply.

- Asthma..... 01
- Chronic lung disease, such as chronic bronchitis or emphysema..... 02
- Hypertension or high blood pressure..... 03
- Heart attack, coronary heart disease, angina, congestive heart failure, or other heart problems..... 04
- Type II diabetes, that is to say, high blood sugar levels..... 05
- Gastrointestinal disease..... 06
- Ciguatera fish poisoning (ka'elo)..... 07
- MRSA, a type of Staph infection..... 08
- Osteoporosis..... 09
- Scombroid fish poisoning..... 10 (n=144)

14. Have you ever suspected you've had any of the following health concerns or conditions? Please select all that apply.

- Asthma..... 01
- Chronic lung disease, such as chronic bronchitis or emphysema..... 02
- Hypertension or high blood pressure..... 03
- Heart attack, coronary heart disease, angina, congestive heart failure, or other heart problems..... 04
- Type II diabetes, that is to say, high blood sugar levels..... 05
- Gastrointestinal disease..... 06
- Ciguatera fish poisoning (ka'elo)..... 07
- MRSA, a type of Staph infection..... 08
- Osteoporosis..... 09
- Scombroid fish poisoning..... 10 (n=144)

15. Do you have respiratory allergies, such as allergic rhinitis or sinusitis?

- Yes..... 01
- No..... 02
- Don't know..... 03 (n=15)

16. Have you gotten swimmer's ear before?

- No..... 01
- Yes, one time only..... 02
- Yes, two or three times..... 03
- Yes, four or more times..... 04
- Don't know..... 05 (n=15)

Please turn over to the last page. →

17. You are almost done with the survey. Lastly, we would like to ask you some questions about your neighborhood. Overall, how would you rate....

	Excellent	Good	Fair	Poor	Don't know	Not applicable	
Your neighborhood as a place to live	04 <input type="checkbox"/>	03 <input type="checkbox"/>	02 <input type="checkbox"/>	01 <input type="checkbox"/>	05 <input type="checkbox"/>	05 <input type="checkbox"/>	(y17a)
The way your neighborhood looks	04 <input type="checkbox"/>	03 <input type="checkbox"/>	02 <input type="checkbox"/>	01 <input type="checkbox"/>	05 <input type="checkbox"/>	05 <input type="checkbox"/>	(y17b)
The cleanliness of your neighborhood	04 <input type="checkbox"/>	03 <input type="checkbox"/>	02 <input type="checkbox"/>	01 <input type="checkbox"/>	05 <input type="checkbox"/>	05 <input type="checkbox"/>	(y17c)

18. Thinking about the last 12 months or so, when you were at home, how much does noise from the road bother, disturb, or annoy you?

- Extremely 02
 Very Much 04
 Moderately 03
 Slightly 02
 Not at all 01
 Not applicable 07 (y18)

19. Thinking about the last 12 months or so, when you were at home, how much does noise from large vehicles, such as trucks and construction vehicles bother, disturb, or annoy you?

- Extremely 02
 Very Much 04
 Moderately 03
 Slightly 02
 Not at all 01
 Not applicable 07 (y19)

We would like to learn a bit about you. The following questions help us to do so.

20. What gender do you identify as?

- Male 01
 Female 02
 Prefer to self-describe (.....) .. 02 (y20)

21. Are you Hispanic, Latino/a, or Spanish origin?

- Yes 01
 No 02
 Don't know 07 (y21)

22. Which one or more of the following would you say is your race or ethnicity? Please select all that apply.

- White 01
 Black or African-American 02
 American Indian or Alaska Native 03
 Chinese 04
 Filipino 05
 Japanese 06
 Korean 07
 Native Hawaiian 08
 Chamorro/Guamanian 09
 Samoan 10
 Marshallese 11
 Chuukese 12
 Other (Specify:.....) .. 33
 Don't know 09 (y22-y24)

23. What is the highest grade or year of school you completed?

- Never attended school or only attended kindergarten or less 01
 Grades 1 through 8 (Elementary, also called primary or grammar school) 02
 Grades 9 through 11 (Some high school, also called secondary school) 03
 Grade 12 or GED (High school or secondary school graduate) 04
 College or university 1 year to 3 years (some college or university, or technical or trade school) 05
 College 4 years or more (College or university graduate) 06
 Don't know 09 (y25)

Mahele for taking the time to complete this survey. Your answers will help us better understand how people feel about the physical environment and their health in Wai'anae and Nānākuli.



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Kingdom Pathways, a Wai'anae nonprofit, restores environmental health, promotes social equity, and preserves cultural heritage. Guided by mālama 'āina, we empower kānaka voices for sustainable futures. Visit **KingdomPathways.Info**.



Kingdom Pathways, a Native Hawaiian nonprofit in Wai'anae that protects 'āina, preserves culture, and strengthens community health through the Huliau o Wai'anae initiative is looking at the risks our community faces from pollution. By listening to stories, gathering data, and honoring 'ike kupuna, we can see how the air we breathe, the soil we grow in, and the water that flows mauka to makai all shape the well-being of our 'ohana.

We are conducting research on the impact of pollution in our community and have partnered with local firms **Ward Research** and **Pirkle Epidemiology and Evaluation** to administer a survey to local residents. Within a few days you will receive a survey that you can complete online or on paper. We would appreciate your input on this important community research.

Mahalo in advance for your participation. If you have any questions about the survey, please contact Kalei Hoyle-Kamakahi (Kalei@kphui.info)