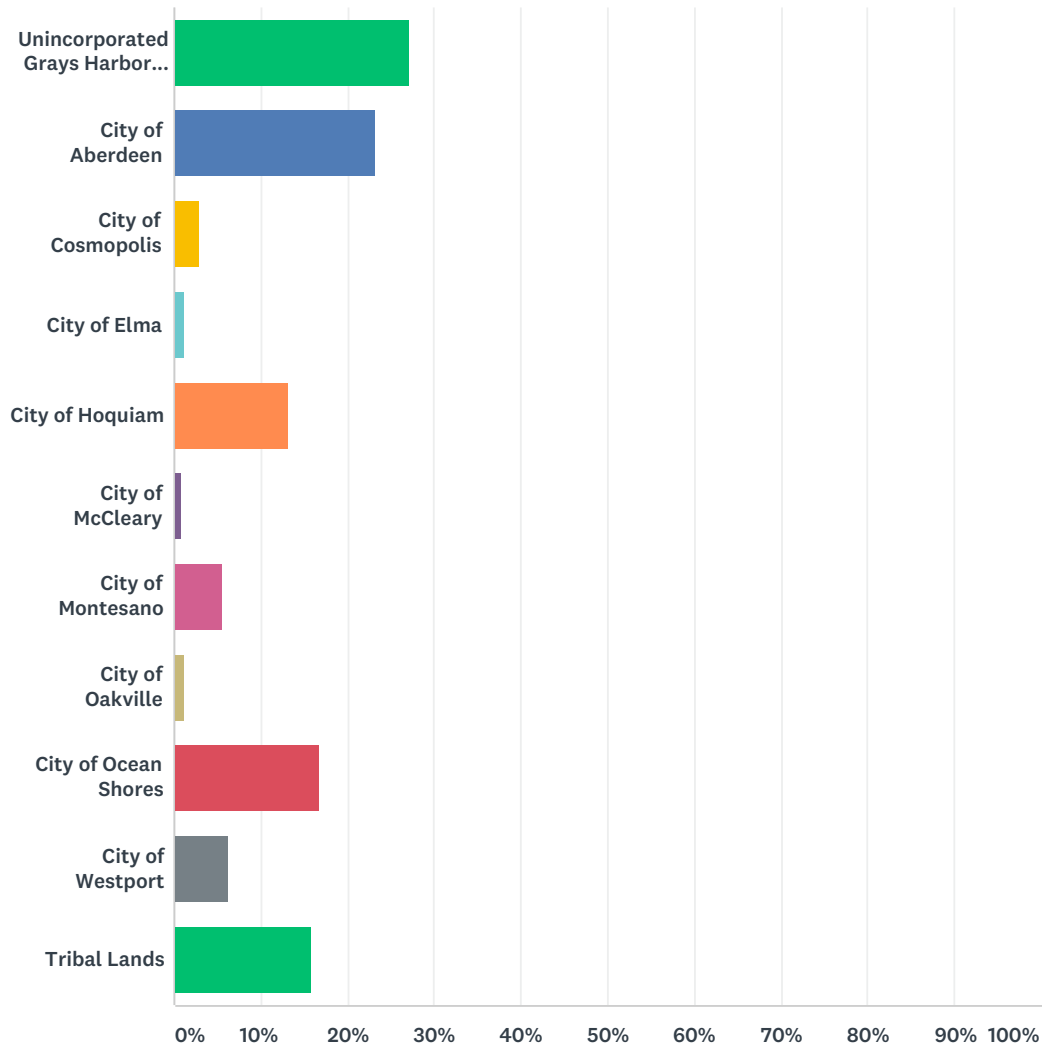


### Q1 In which area do you live or work:

Answered: 335 Skipped: 0



ANSWER CHOICES	RESPONSES	
Unincorporated Grays Harbor County	27.16%	91
City of Aberdeen	23.28%	78
City of Cosmopolis	2.99%	10
City of Elma	1.19%	4
City of Hoquiam	13.13%	44
City of McCleary	0.90%	3
City of Montesano	5.67%	19
City of Oakville	1.19%	4
City of Ocean Shores	16.72%	56
City of Westport	6.27%	21

Tribal Lands

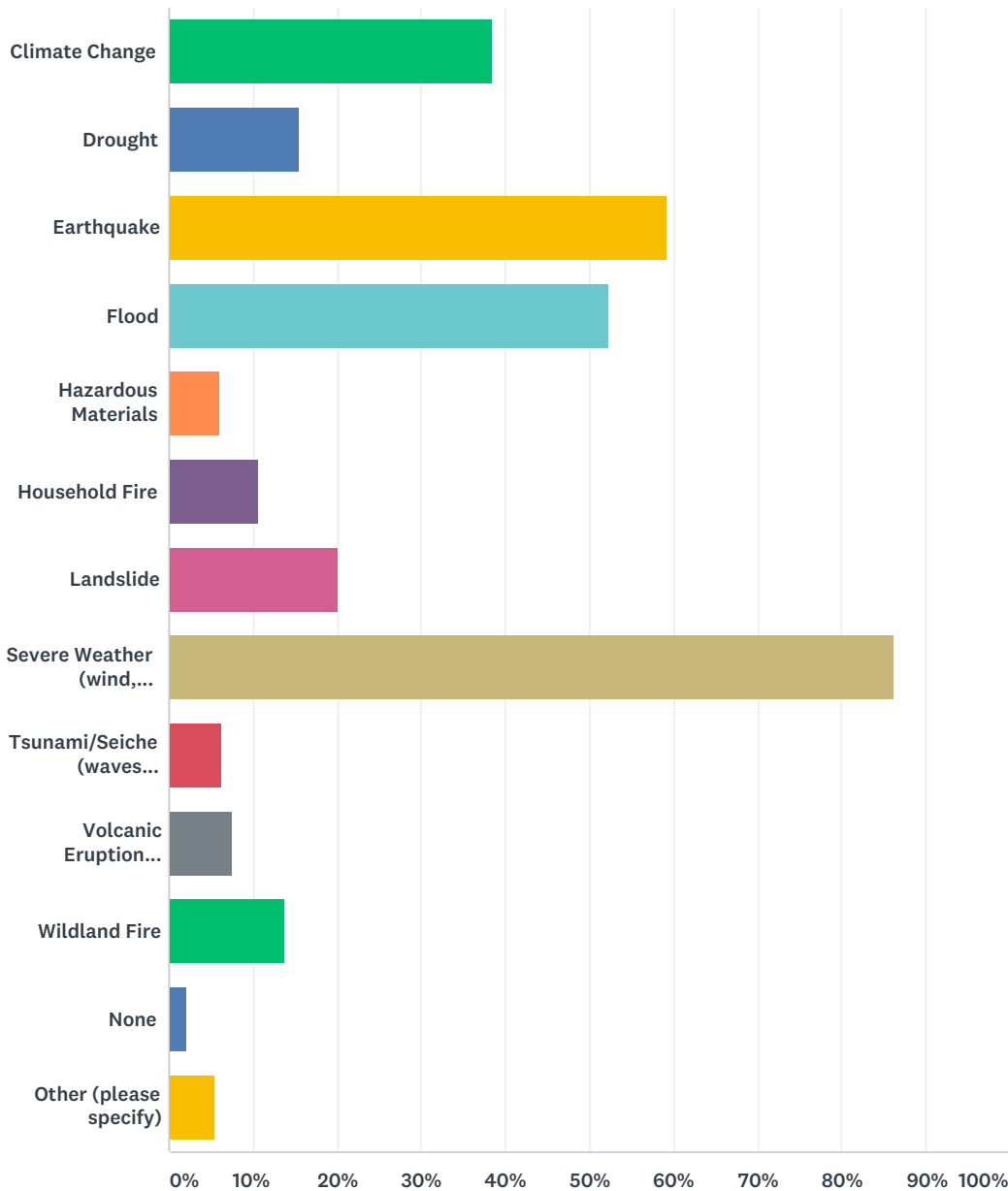
15.82%

53

Total Respondents: 335

## Q2 Which of the following natural hazard events have you or has anyone in your household experienced in the past 20 years? (Check all that apply)

Answered: 335 Skipped: 0



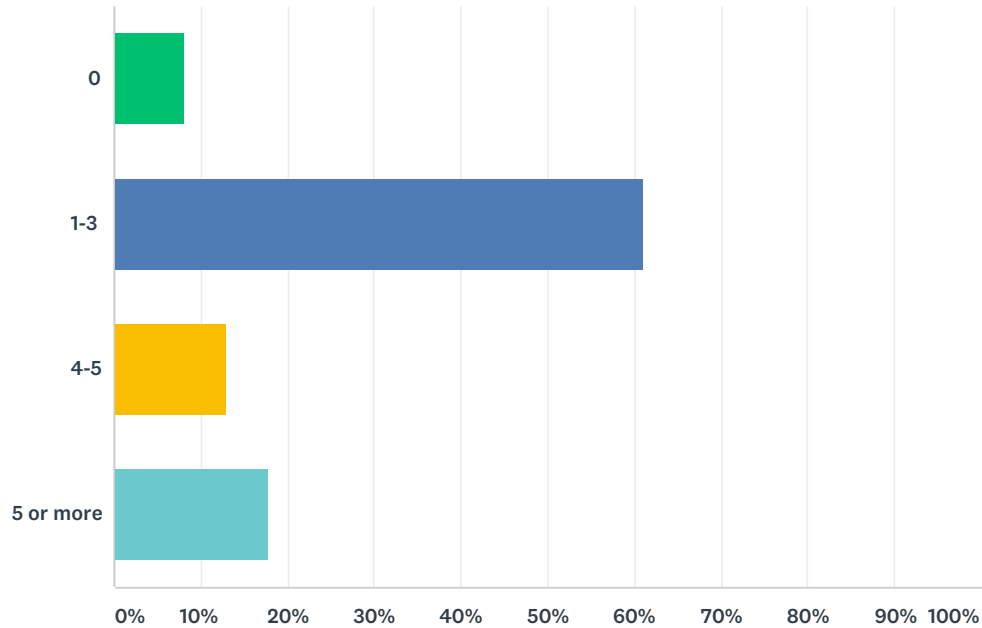
ANSWER CHOICES	RESPONSES
Climate Change	38.51% 129
Drought	15.52% 52
Earthquake	59.10% 198

Flood	52.24%	175
Hazardous Materials	5.97%	20
Household Fire	10.75%	36
Landslide	20.00%	67
Severe Weather (wind, lightning, winter storm, etc.)	86.27%	289
Tsunami/Seiche (waves generated by wind or seismic activity)	6.27%	21
Volcanic Eruption (lahar, ash fall)	7.46%	25
Wildland Fire	13.73%	46
None	2.09%	7
Other (please specify)	5.37%	18
Total Respondents: 335		

#	OTHER (PLEASE SPECIFY)	DATE
1	Fire at place of work	1/17/2018 2:55 PM
2	2 earthquakes and flooding in yard, no damage, weakened foundation	12/20/2017 5:49 PM
3	Severe beach erosione	12/11/2017 5:50 AM
4	Severe beach erosione	12/11/2017 3:36 AM
5	That time one hundred lizards infested my basement.	12/5/2017 8:52 AM
6	Recent move here. These were experienced in Southern California.	11/30/2017 8:14 PM
7	Sinking earth. It's slow, but definitely causing damage to homes and building. This is also a serious concern for liquifaction during earthquake.	11/30/2017 9:59 AM
8	Mt St Helens was over 20 years ago & house burned in my neighborhood	11/29/2017 9:49 AM
9	Freezing Rain	11/28/2017 7:03 PM
10	Watched Mt. St. Helens blow up in the back yard--Lewis County	11/28/2017 6:49 PM
11	Electrical outage	11/28/2017 10:16 AM
12	Northwest Coast has many small earthquakes, and Tsunami's are possible.	11/28/2017 9:17 AM
13	Frequent loss of power	11/28/2017 9:02 AM
14	ice storm	11/27/2017 11:09 PM
15	I worked disaster response with FEMA	11/27/2017 10:25 PM
16	Hurricane Katrina	11/27/2017 9:09 PM
17	Avalanche	11/27/2017 4:47 PM
18	Snow/ice	11/27/2017 3:18 PM

### Q3 How many times have you been impacted by disaster events?

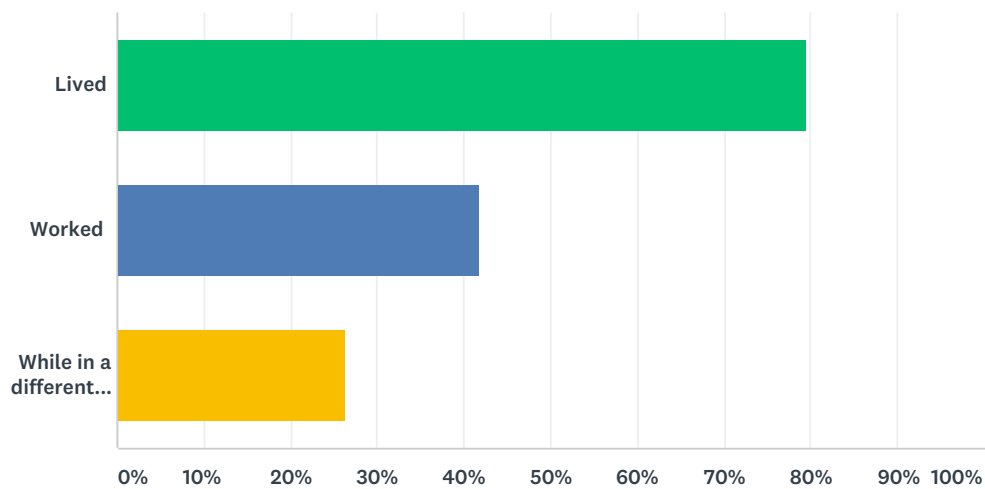
Answered: 331 Skipped: 4



ANSWER CHOICES	RESPONSES
0	8.16% 27
1-3	61.03% 202
4-5	12.99% 43
5 or more	17.82% 59
TOTAL	331

### Q4 Have these occurred while you have lived (or worked) in Grays Harbor County?

Answered: 335 Skipped: 0

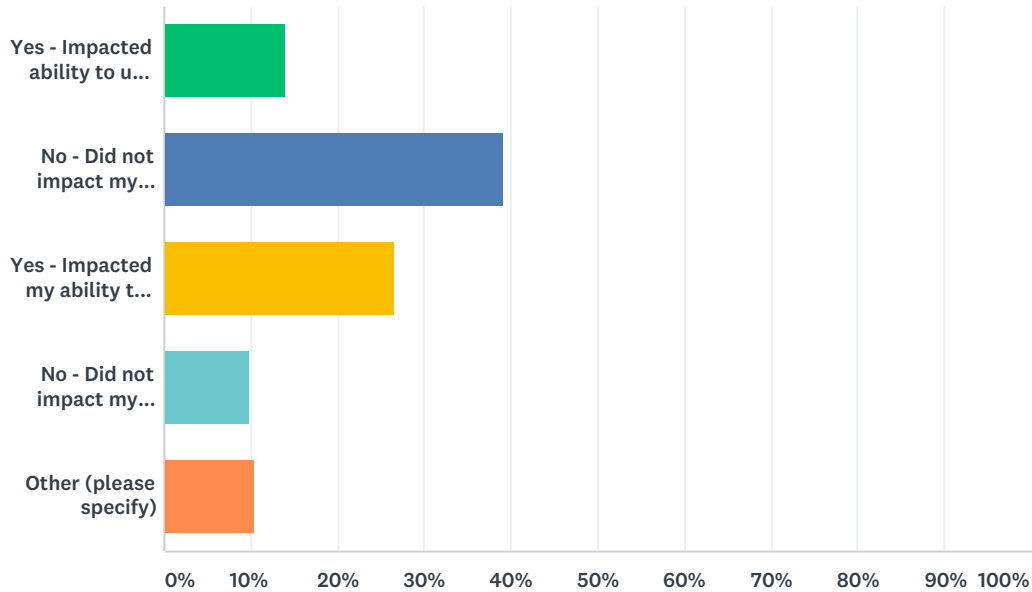


ANSWER CHOICES	RESPONSES
Lived	79.40% 266

Worked	41.79%	140
While in a different location	26.27%	88
Total Respondents: 335		

### Q5 If the answer to the preceding question is in the affirmative, has the hazard event impacted your ability to use your residence or not allowed you to work because of damages?

Answered: 335 Skipped: 0



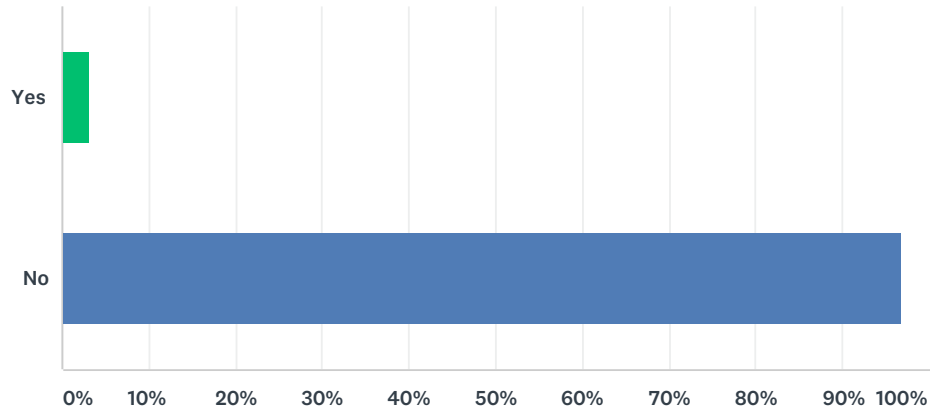
ANSWER CHOICES	RESPONSES
Yes - Impacted ability to use my residence	14.03% 47
No - Did not impact my ability to use my residence	39.10% 131
Yes - Impacted my ability to work	26.57% 89
No - Did not impact my ability to work	9.85% 33
Other (please specify)	10.45% 35
<b>TOTAL</b>	<b>335</b>

#	OTHER (PLEASE SPECIFY)	DATE
1	Yes- Impacted both my ability to use my residence and work	3/1/2018 12:36 PM
2	Not completely use my residence. Flooding caused damages to heater	1/4/2018 5:41 PM
3	Damage to personal property only.	12/20/2017 5:49 PM
4	The	12/6/2017 8:44 PM
5	lights were out for two weeks due to a bad storm. they brought in a trailer for showering and etc.	12/6/2017 9:24 AM
6	All of the above.	12/5/2017 8:52 AM
7	However, were unable to leave due to downed trees.	12/4/2017 7:22 AM
8	Wildfire blocked access to work	11/30/2017 8:14 PM

9	The electricity in Central Park was off for five days after the hurricane	11/30/2017 3:53 PM
10	Blocked roads and was unable to access the job	11/30/2017 11:41 AM
11	Road closed, unable to get to work, 1 day.	11/29/2017 7:35 PM
12	My workplace was shut down for several days	11/29/2017 5:41 PM
13	Ash and drought as well as fire affect pasture	11/29/2017 4:44 PM
14	Although the flood, severe weather and landslide issues occurred while livin in Aberdeen, the remainder occurred while I served in various locations world-wide in the Marine Corps. At one time or another, the various events impacted my ability to work and my ability to use my primary residence.	11/29/2017 12:17 PM
15	Disallowed me to go to school for a week+ in the 07 storm.	11/29/2017 11:06 AM
16	A house we own and rent outwas not habitable until fixed after flood	11/29/2017 10:53 AM
17	Blocked access to and from my community	11/29/2017 9:49 AM
18	We got lucky, the fire barely missed the house. it could have impacted my ability to use my residence	11/29/2017 8:19 AM
19	impacted home and workplace	11/29/2017 8:10 AM
20	Retired	11/28/2017 10:15 PM
21	Had to leave residence to work	11/28/2017 7:02 PM
22	Electrical outage	11/28/2017 10:16 AM
23	impacted ability to use home and get to work. Can't say "yes" to both in this survey.	11/28/2017 10:07 AM
24	Both. Fire impacts to the community residence and weather related events for access to work.	11/28/2017 9:41 AM
25	Impacted my residence and my ability to work	11/28/2017 9:28 AM
26	both impacted work and ability to use my residence	11/28/2017 9:26 AM
27	used residence w/o power, required water.	11/28/2017 9:26 AM
28	Couldn't drive to work cause trees were down.	11/28/2017 9:23 AM
29	No, I lived in Missouri and was close to a tornado a couple times; we had flash floods there too.	11/28/2017 9:17 AM
30	Impacted ability to use residence and to work	11/28/2017 9:02 AM
31	No event	11/28/2017 7:47 AM
32	Does not apply	11/27/2017 9:09 PM
33	Power was out for several days, no damage was incurred.	11/27/2017 5:11 PM
34	had to fix things in the house broken from an earthquake	11/27/2017 4:23 PM
35	I was working as an apartment manager and the fireplace caught on fire as it had never been cleaned. I was so upset I quit.	11/27/2017 3:32 PM

**Q6 If you have been impacted by a disaster, did you or a family member living with you at the time sustain injuries?**

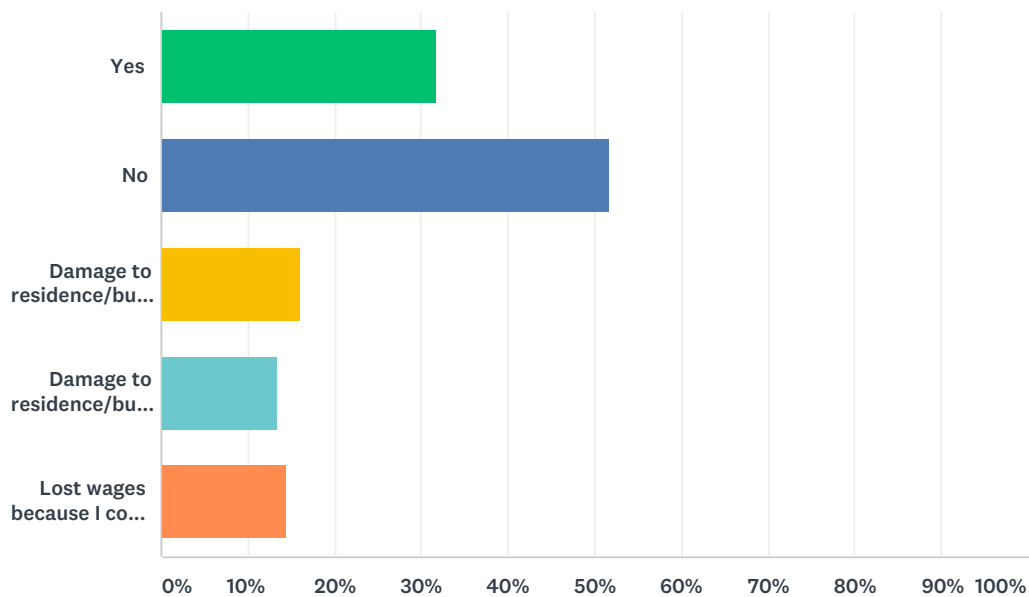
Answered: 327 Skipped: 8



ANSWER CHOICES	RESPONSES
Yes	3.06% 10
No	96.94% 317
TOTAL	327

### Q7 Did you sustain financial loss as a result of a disaster event?

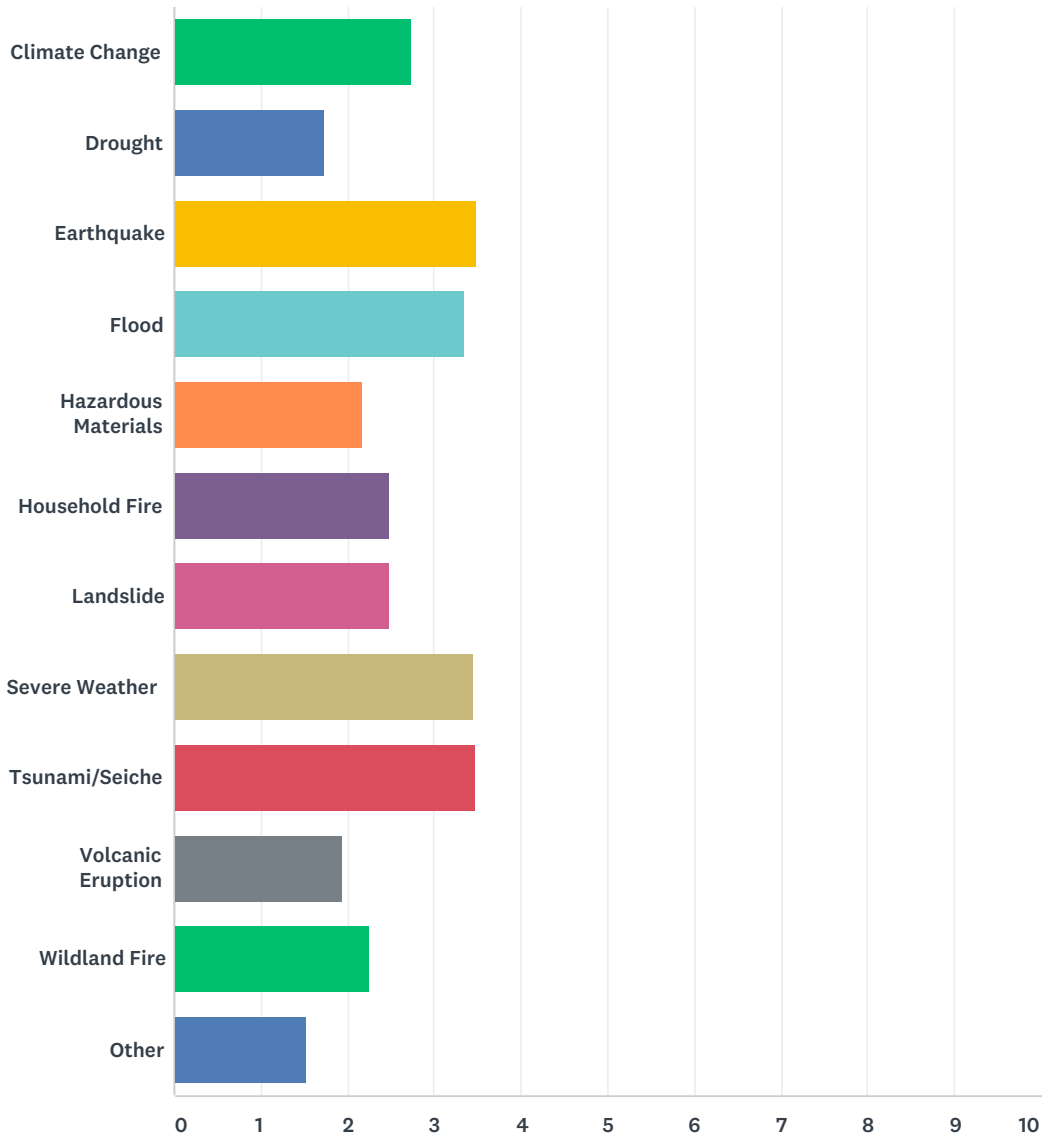
Answered: 331 Skipped: 4



ANSWER CHOICES	RESPONSES
Yes	31.72% 105
No	51.66% 171
Damage to residence/business not covered by insurance.	16.01% 53
Damage to residence/business covered by insurance.	13.29% 44
Lost wages because I could not work.	14.50% 48
Total Respondents: 331	

### Q8 How concerned are you about the following natural hazards in Grays Harbor County? (Check one response for each hazard)

Answered: 312 Skipped: 23



	NOT CONCERNED	SOMEWHAT CONCERNED	CONCERNED	VERY CONCERNED	EXTREMELY CONCERNED	TOTAL	WEIGHTED AVERAGE
Climate Change	22.77% 69	25.41% 77	20.46% 62	17.16% 52	14.19% 43	303	2.75
Drought	56.42% 167	23.31% 69	13.18% 39	4.05% 12	3.04% 9	296	1.74
Earthquake	3.58% 11	17.26% 53	28.01% 86	28.66% 88	22.48% 69	307	3.49
Flood	6.47% 20	15.53% 48	33.66% 104	26.54% 82	17.80% 55	309	3.34
Hazardous Materials	31.65% 94	35.02% 104	20.88% 62	8.75% 26	3.70% 11	297	2.18

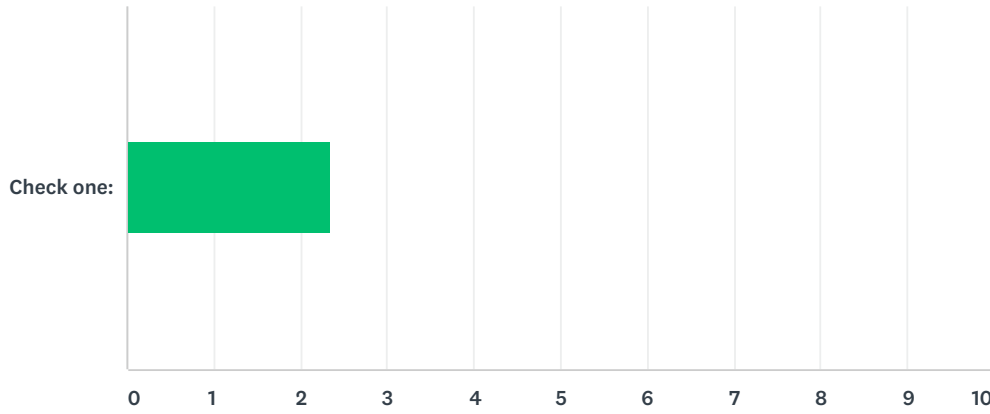


Household Fire	20.27% 61	33.22% 100	31.23% 94	8.31% 25	6.98% 21	301	2.49
Landslide	29.70% 90	24.42% 74	21.78% 66	16.17% 49	7.92% 24	303	2.48
Severe Weather	1.94% 6	15.16% 47	33.87% 105	32.90% 102	16.13% 50	310	3.46
Tsunami/Seiche	5.23% 16	17.32% 53	26.14% 80	27.12% 83	24.18% 74	306	3.48
Volcanic Eruption	44.82% 134	27.42% 82	19.40% 58	5.35% 16	3.01% 9	299	1.94
Wildland Fire	31.25% 95	31.58% 96	22.37% 68	9.21% 28	5.59% 17	304	2.26
Other	71.43% 55	11.69% 9	10.39% 8	5.19% 4	1.30% 1	77	1.53

#	(PLEASE SPECIFY OTHER NATURAL HAZARD)	DATE
1	Severe storm	1/17/2018 3:00 PM
2	Ground unlevel and sinking due to building without driving pilings into ground and what happens when those pilings rot and the ground becomes unstable	12/30/2017 6:40 PM
3	Train-train or train - car collision train hazmat spill.	12/21/2017 8:21 PM
4	Tidal surge	12/11/2017 5:46 AM
5	unknown	12/1/2017 3:06 PM
6	Flooding would be our highest concern here in county area of Elma. We would be okay, but definitely restrictive to mobility.	11/30/2017 8:19 PM
7	Liquifaction	11/30/2017 10:03 AM
8	High winds toppling trees within proximity to my house.	11/29/2017 12:26 PM
9	Wind storm / power outages	11/29/2017 9:56 AM
10	tsunami	11/28/2017 11:48 PM
11	looting when economy collapses	11/28/2017 8:32 PM
12	Freezing Rain	11/28/2017 7:07 PM
13	Idiots driving to fast on the highway in front of my house.	11/28/2017 11:48 AM
14	Severe beach erosion	11/27/2017 5:34 PM
15	Vagrants and criminals - Extremely concerned	11/27/2017 5:19 PM
16	Dunes fires spreading because of 0 fire break	11/27/2017 4:50 PM
17	Explosions from others gas or propane furnise	11/27/2017 3:41 PM

## Q9 How prepared is your household to deal with a natural hazard event?

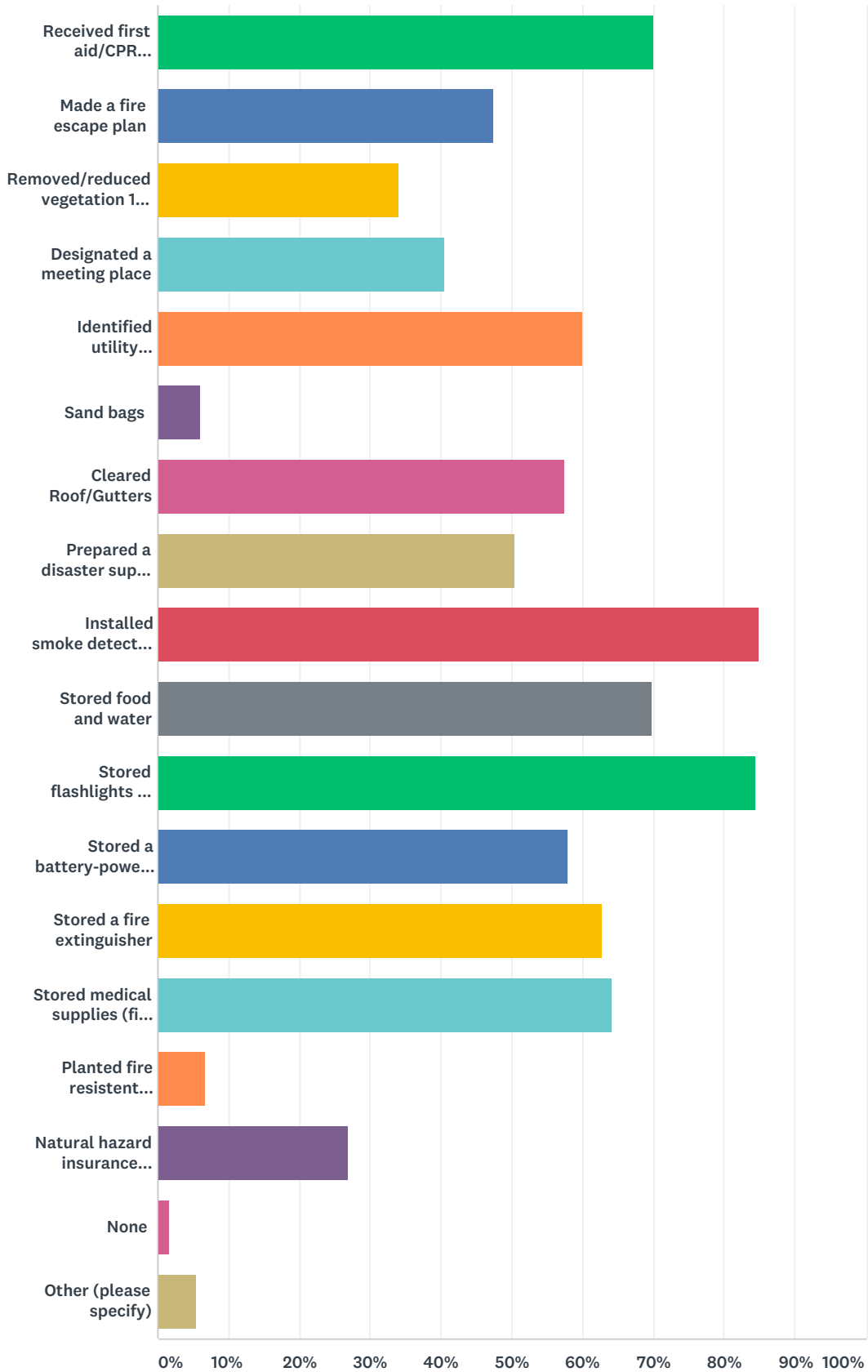
Answered: 312 Skipped: 23



	NOT AT ALL PREPARED	SOMEWHAT PREPARED	ADEQUATELY PREPARED	WELL PREPARED	VERY WELL PREPARED	TOTAL	WEIGHTED AVERAGE
Check one:	7.05% 22	59.29% 185	26.28% 82	6.41% 20	0.96% 3	312	2.35

Q10 Which of the following steps has your household taken to prepare for a hazard event? (Check all that apply)

Answered: 311 Skipped: 24



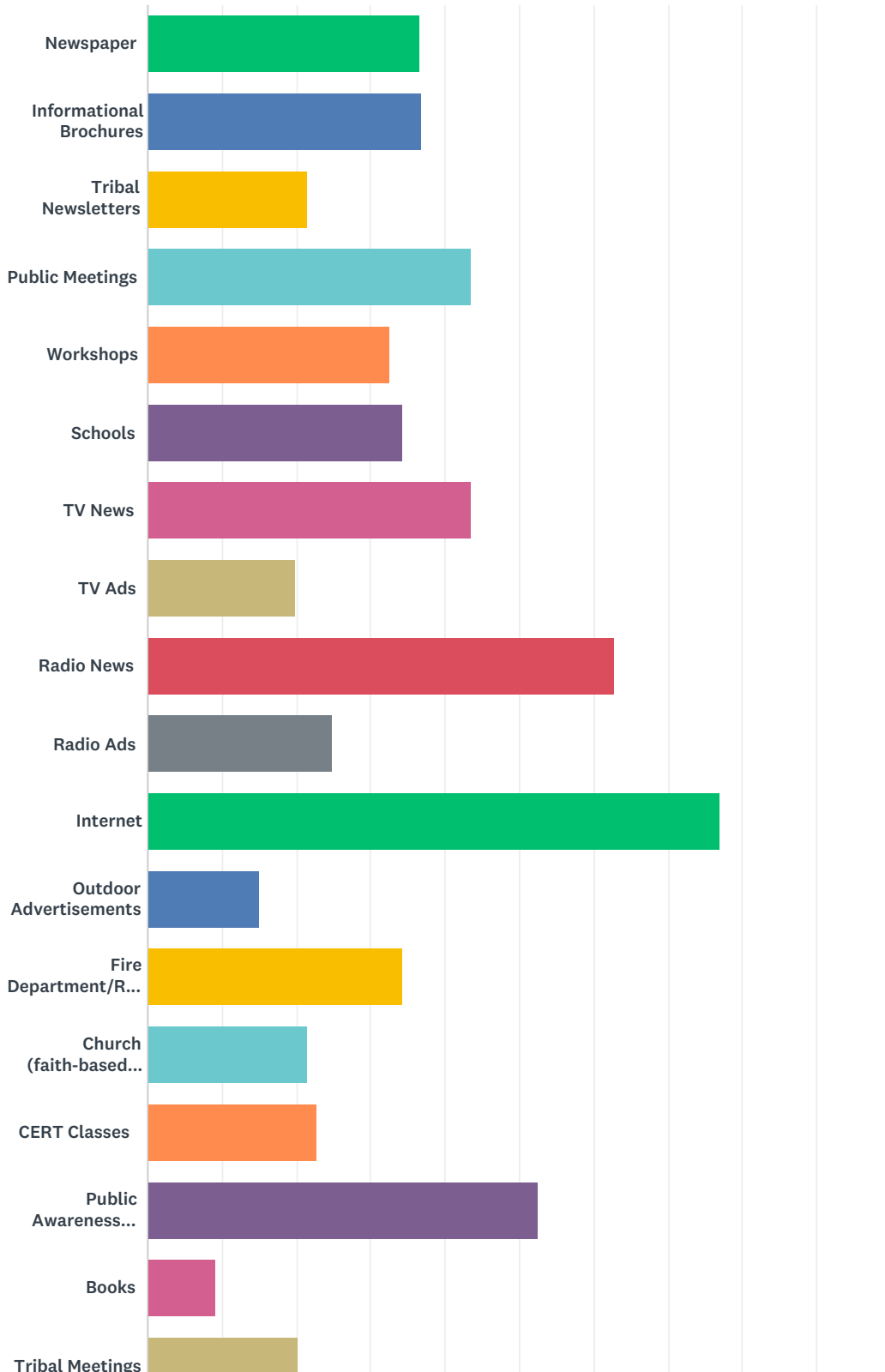
ANSWER CHOICES	RESPONSES	
Received first aid/CPR training	70.10%	218

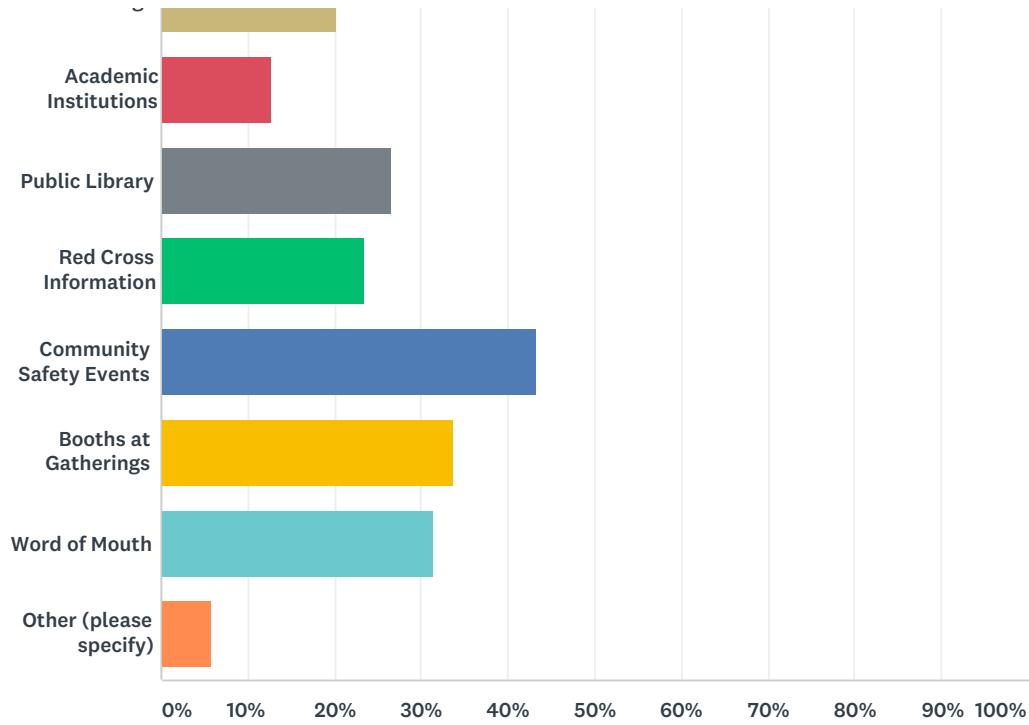
Made a fire escape plan	47.59%	148
Removed/reduced vegetation 100 feet from immediate area of house	34.08%	106
Designated a meeting place	40.51%	126
Identified utility shutoffs	60.13%	187
Sand bags	6.11%	19
Cleared Roof/Gutters	57.56%	179
Prepared a disaster supply kit	50.48%	157
Installed smoke detectors on each level of the house	84.89%	264
Stored food and water	69.77%	217
Stored flashlights and batteries	84.57%	263
Stored a battery-powered radio	57.88%	180
Stored a fire extinguisher	62.70%	195
Stored medical supplies (first aid kit, medications)	64.31%	200
Planted fire resistant landscaping	6.75%	21
Natural hazard insurance (Flood, Earthquake, Wildfire)	27.01%	84
None	1.61%	5
Other (please specify)	5.47%	17
Total Respondents: 311		

#	OTHER (PLEASE SPECIFY)	DATE
1	family drill tsunami evacuation route	12/30/2017 6:40 PM
2	Bug out capability for up to 72 hrs.	12/21/2017 8:21 PM
3	I	12/12/2017 2:03 PM
4	Cert basic training and other cert related training	12/11/2017 5:46 AM
5	Generator	12/4/2017 1:12 PM
6	RV is stocked ready to go if roads are not completely destroyed.	11/30/2017 6:03 AM
7	Bought an RV	11/30/2017 12:02 AM
8	Ham radio	11/29/2017 11:49 AM
9	Obtained training	11/29/2017 9:56 AM
10	Established outside contacts	11/28/2017 7:06 PM
11	Unfortunately, there's not a company that I've come across that will set me up with earthquake coverage. I've asked a couple of times to companies like, "The Hartford and Prudential"	11/28/2017 6:55 PM
12	Two weeks worth of food and water on hand, tarps and totes for protecting any and all valuables.	11/28/2017 6:54 PM
13	Have generator, gas and diesel fuel, satellite Internet (VoIP, etc)	11/28/2017 6:34 PM
14	Stored spirits	11/28/2017 11:48 AM
15	i have a small emergency kit for a family of 3. Need more things in it, but at least i have one for a few days.	11/28/2017 9:33 AM
16	I have prepared a supply kit, but I always take stuff out and use it anyway; can't keep a complete emergency supply kit complete.	11/28/2017 9:29 AM

### Q11 Which of the following methods do you think are most effective for providing hazard and disaster information? (Check all that apply)

Answered: 312 Skipped: 23





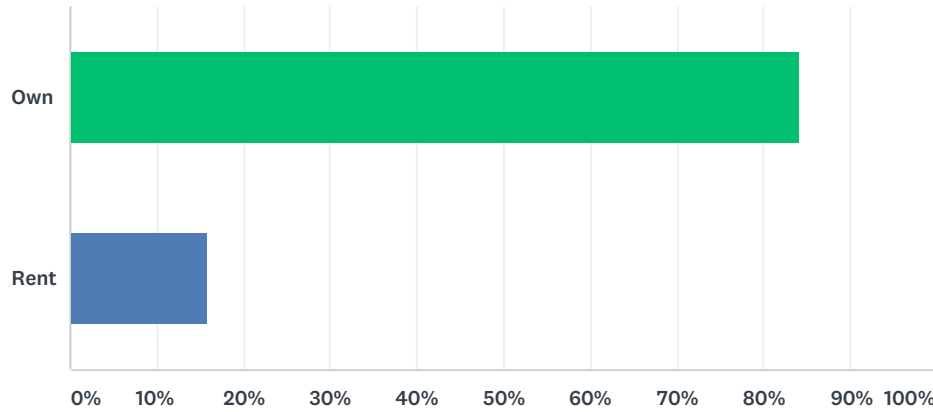
ANSWER CHOICES	RESPONSES	
Newspaper	36.54%	114
Informational Brochures	36.86%	115
Tribal Newsletters	21.47%	67
Public Meetings	43.59%	136
Workshops	32.69%	102
Schools	34.29%	107
TV News	43.59%	136
TV Ads	19.87%	62
Radio News	62.82%	196
Radio Ads	25.00%	78
Internet	76.92%	240
Outdoor Advertisements	15.06%	47
Fire Department/Rescue	34.29%	107
Church (faith-based institutions)	21.47%	67
CERT Classes	22.76%	71
Public Awareness Campaign (e.g., Flood Awareness Week, Winter Storm Preparedness Month)	52.56%	164
Books	9.29%	29
Tribal Meetings	20.19%	63
Academic Institutions	12.82%	40

Public Library	26.60%	83
Red Cross Information	23.40%	73
Community Safety Events	43.27%	135
Booths at Gatherings	33.65%	105
Word of Mouth	31.41%	98
Other (please specify)	5.77%	18
Total Respondents: 312		

#	OTHER (PLEASE SPECIFY)	DATE
1	Be neat if the posted videos on social media, people have a hard time going to meetings. I'd for sure watch it	1/4/2018 5:51 PM
2	Mailer	1/3/2018 2:45 AM
3	mail ad to local residence. we have a higher population of elderly and therefore they respond better to mail and radio ads. Also the local nursing home staff and Patients should be aware of the legal requirements of staff to protect nursing home patients during and after natural disaster	12/30/2017 6:40 PM
4	Door to door campaign	12/11/2017 5:46 AM
5	Social media	12/8/2017 5:03 PM
6	Tribe needs to build a facility for the people in case there's an earthquake, flood, with everything in it.	12/6/2017 9:28 AM
7	phone alerts	12/1/2017 4:19 PM
8	TV news	11/30/2017 12:45 AM
9	All of the above	11/29/2017 3:51 PM
10	My wife and I own a small business in downtown Aberdeen. Our mobile devices are critically important to running our business. For me, text alerts would by far be the most effective way to communicate hazard and disaster information.	11/29/2017 12:26 PM
11	I love Chuck Wallace's emails! I also have a NOAA Weather radio that's always on.	11/28/2017 6:55 PM
12	Social media because everyone is on Social media Now days	11/28/2017 1:43 PM
13	A siren should go off. The Police Department is the main contact.	11/28/2017 9:57 AM
14	I perceive information on the subjects to be of limited value	11/28/2017 9:04 AM
15	Social Media	11/28/2017 4:04 AM
16	Twitter	11/27/2017 9:17 PM
17	Social media, email	11/27/2017 5:34 PM
18	Social media like Facebook	11/27/2017 3:13 PM

## Q12 Do you own or rent your place of residence or business?

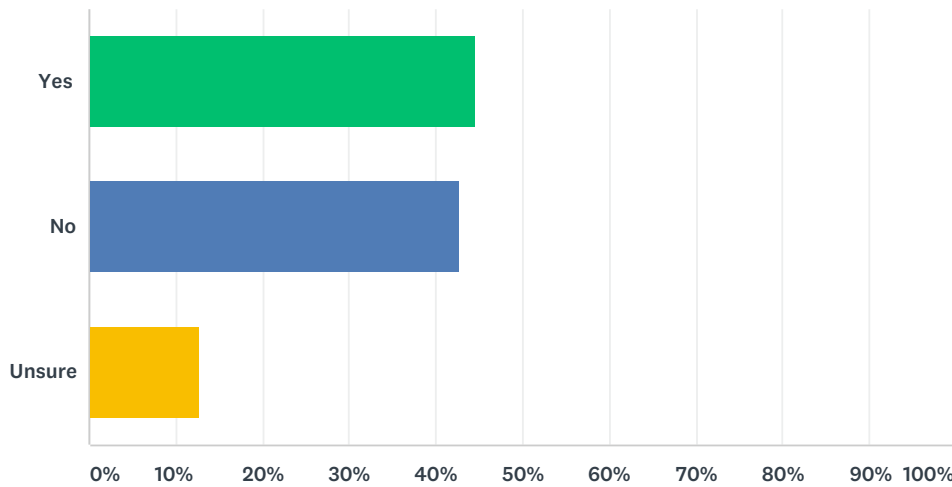
Answered: 309 Skipped: 26



ANSWER CHOICES	RESPONSES	
Own	84.14%	260
Rent	15.86%	49
TOTAL		309

### Q13 Is your property located in or near a floodplain?

Answered: 312 Skipped: 23

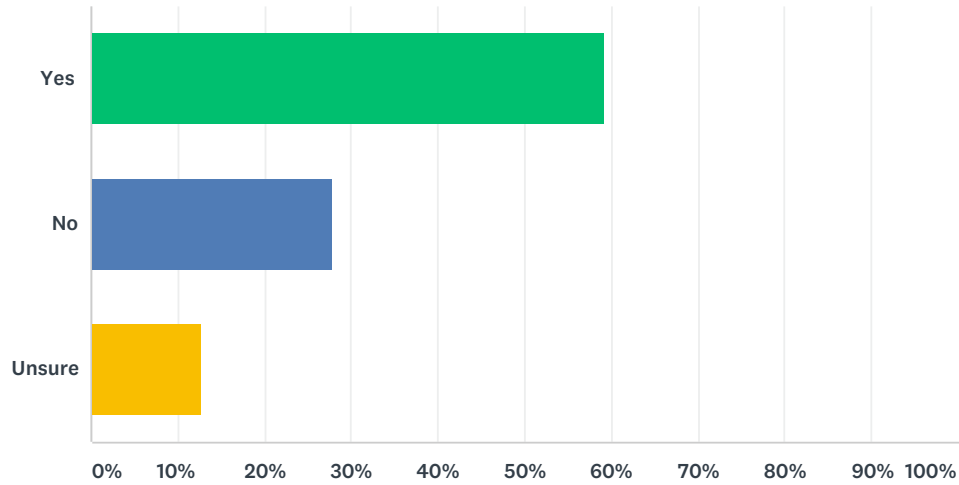


ANSWER CHOICES	RESPONSES	
Yes	44.55%	139
No	42.63%	133
Unsure	12.82%	40
TOTAL		312

### Q14 Is your property located in or near a tsunami inundation zone?

Answered: 312 Skipped: 23

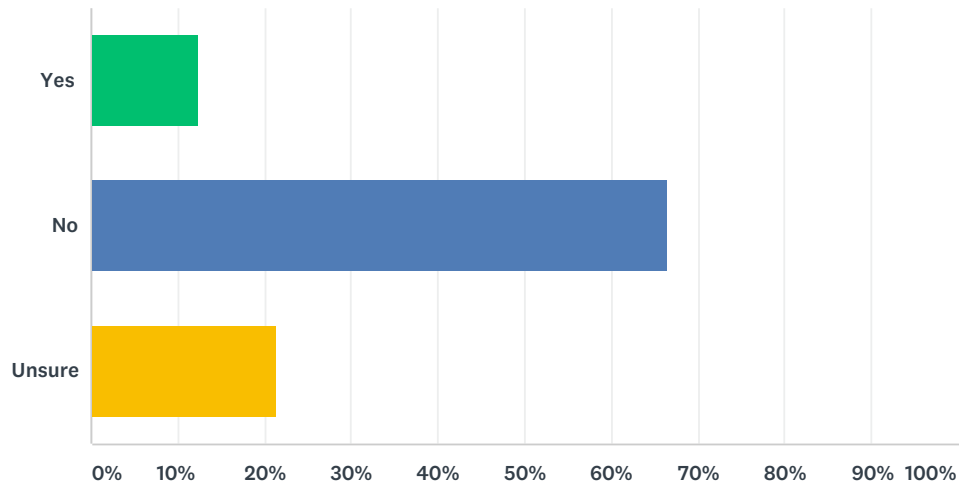




ANSWER CHOICES	RESPONSES	
Yes	59.29%	185
No	27.88%	87
Unsure	12.82%	40
TOTAL		312

### Q15 Is your property in or near a high fire danger area?

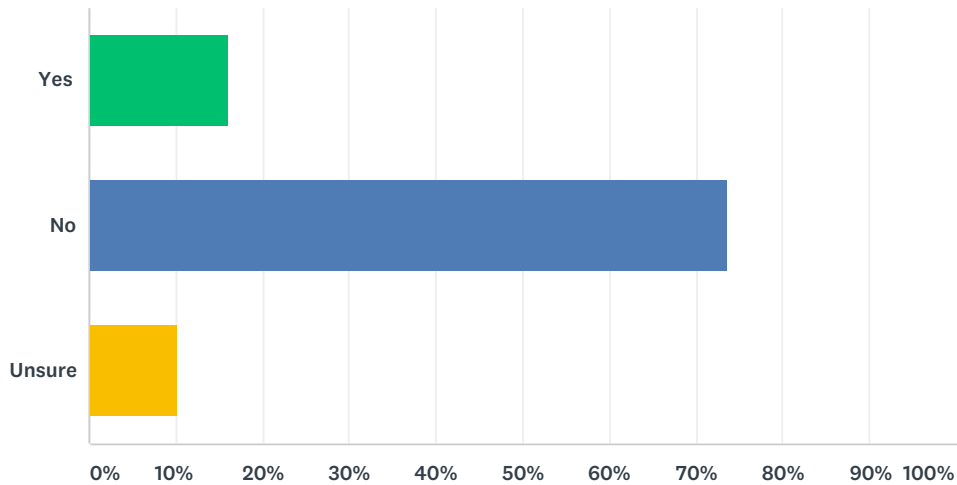
Answered: 310 Skipped: 25



ANSWER CHOICES	RESPONSES	
Yes	12.26%	38
No	66.45%	206
Unsure	21.29%	66
TOTAL		310

### Q16 Is your property in or near a high landslide danger area?

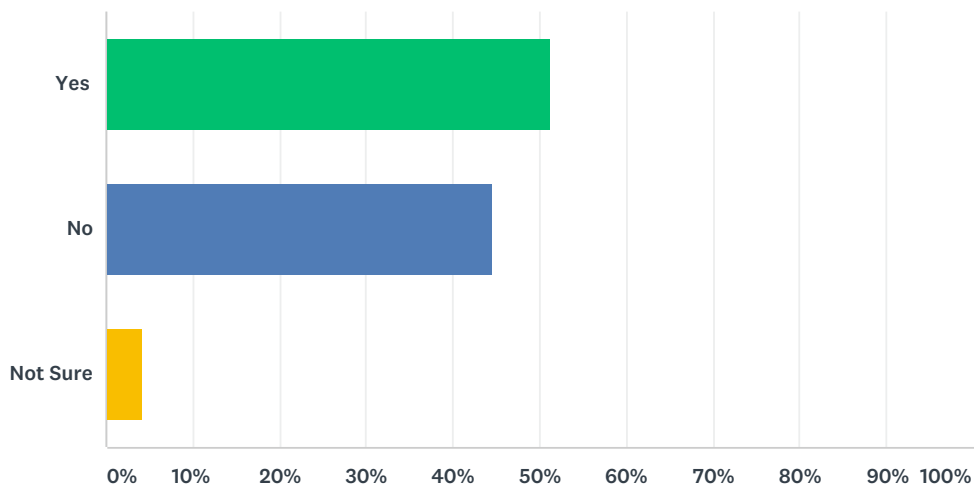
Answered: 311 Skipped: 24



ANSWER CHOICES	RESPONSES	
Yes	16.08%	50
No	73.63%	229
Unsure	10.29%	32
TOTAL		311

**Q17 When you moved into your home, did you consider the impact a natural disaster could have on your home?**

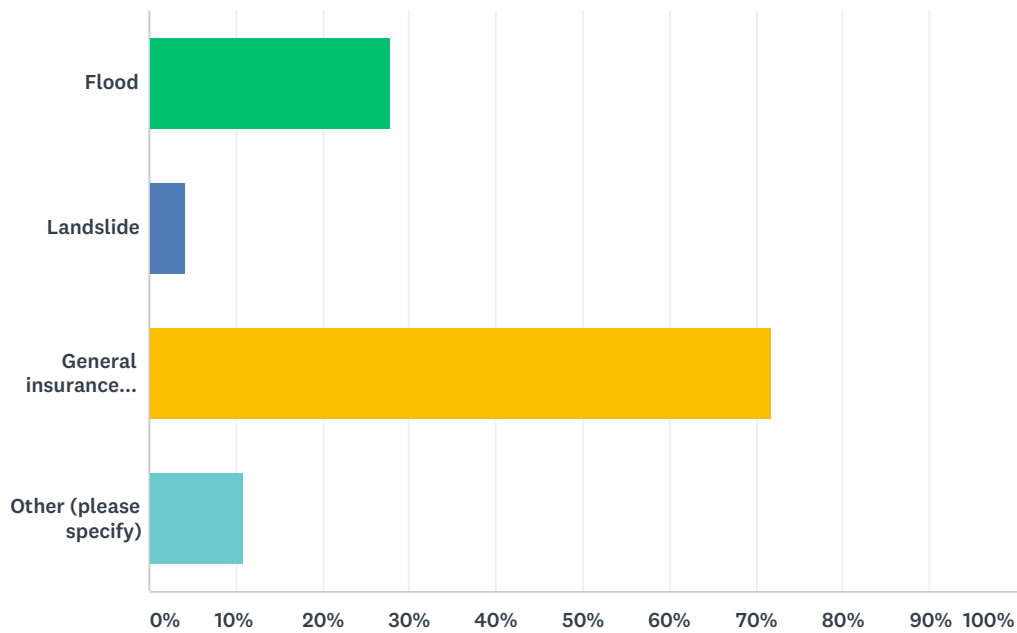
Answered: 312 Skipped: 23



ANSWER CHOICES	RESPONSES	
Yes	51.28%	160
No	44.55%	139
Not Sure	4.17%	13
TOTAL		312

### Q18 If you own your home, do you have any type of special hazard insurance? Please check all that apply.

Answered: 238 Skipped: 97



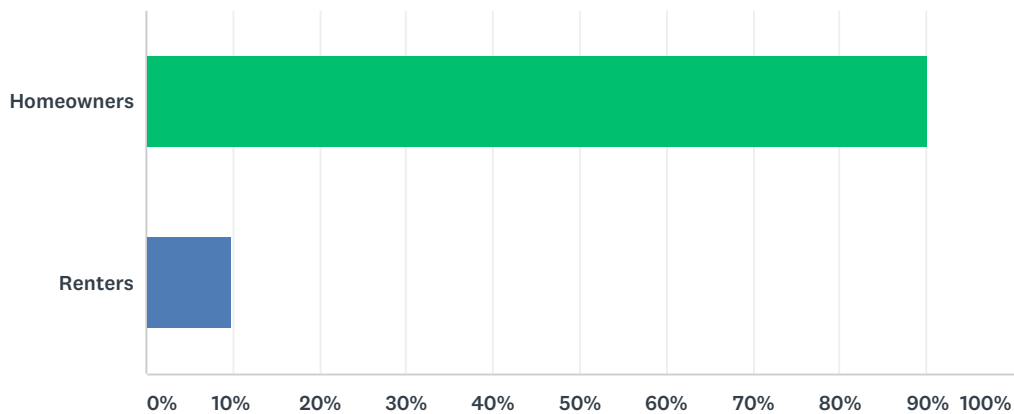
ANSWER CHOICES	RESPONSES
Flood	27.73% 66
Landslide	4.20% 10
General insurance policy only.	71.85% 171
Other (please specify)	10.92% 26
Total Respondents: 238	

#	OTHER (PLEASE SPECIFY)	DATE
1	Catastrophe: Flood & Earthquake	3/19/2018 1:47 PM
2	none	12/6/2017 9:28 AM
3	earthquake	12/6/2017 1:39 AM
4	FEMA flood insurance	11/30/2017 8:19 PM
5	Earthquake	11/30/2017 11:44 AM
6	home owners insurance (fire)	11/30/2017 12:45 AM
7	earthquake	11/29/2017 10:13 PM
8	earthquake and fire	11/29/2017 4:49 PM
9	Earthquake	11/29/2017 4:09 PM
10	earthquake	11/29/2017 11:49 AM
11	Earthquake	11/29/2017 10:27 AM
12	Don't remember	11/29/2017 9:56 AM
13	Catastrophic	11/29/2017 7:00 AM

14	Earthquake	11/28/2017 9:44 PM
15	Earthquake	11/28/2017 7:19 PM
16	No...Nobody will cover me. Live up by Sunset Cemetary	11/28/2017 6:55 PM
17	Earthquake policy	11/28/2017 6:54 PM
18	Earthquake	11/28/2017 6:34 PM
19	Earthquake	11/28/2017 12:52 PM
20	Earthquake	11/28/2017 12:13 PM
21	None of the things noted above.	11/28/2017 9:57 AM
22	Earthquake	11/28/2017 7:50 AM
23	Earthquake	11/28/2017 4:04 AM
24	Tsunami catastrophic hazard ins	11/27/2017 10:20 PM
25	wildfire, earthquake	11/27/2017 4:16 PM
26	Earthquake	11/27/2017 1:53 PM

### Q19 Do you have homeowner's or renter's insurance?

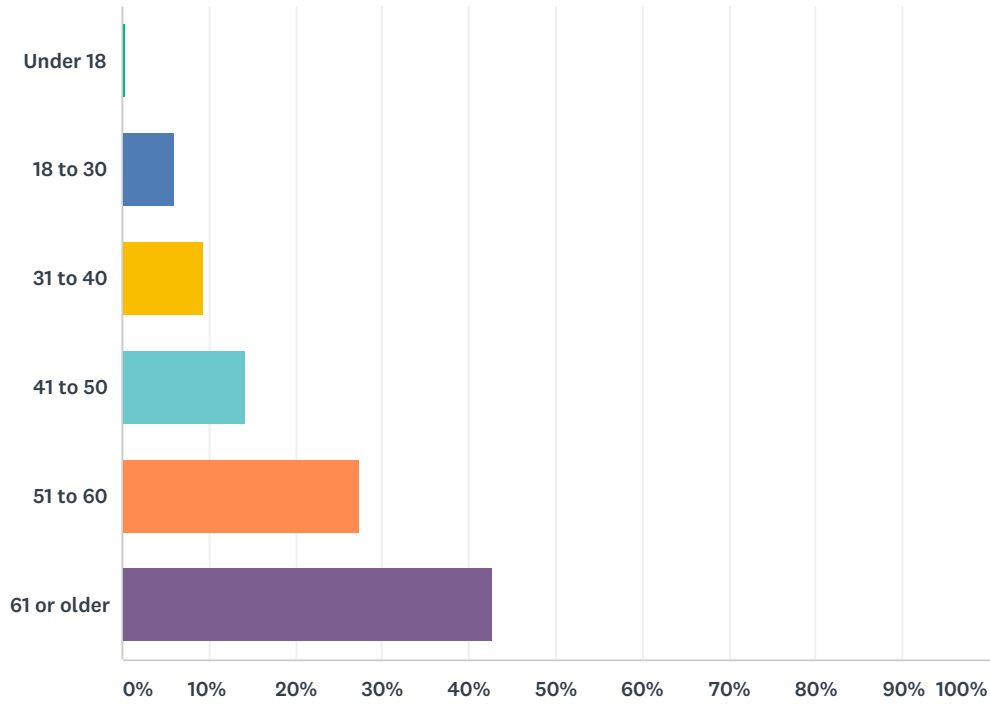
Answered: 272 Skipped: 63



ANSWER CHOICES	RESPONSES	
Homeowners	90.07%	245
Renters	9.93%	27
TOTAL		272

### Q20 Please indicate your age range:

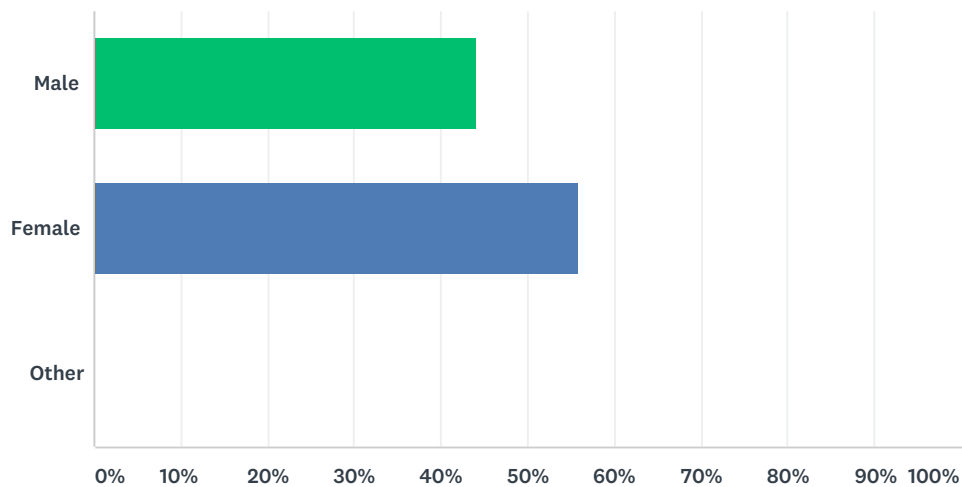
Answered: 310 Skipped: 25



ANSWER CHOICES	RESPONSES
Under 18	0.32% 1
18 to 30	6.13% 19
31 to 40	9.35% 29
41 to 50	14.19% 44
51 to 60	27.42% 85
61 or older	42.58% 132
<b>TOTAL</b>	<b>310</b>

### Q21 Please indicate your gender:

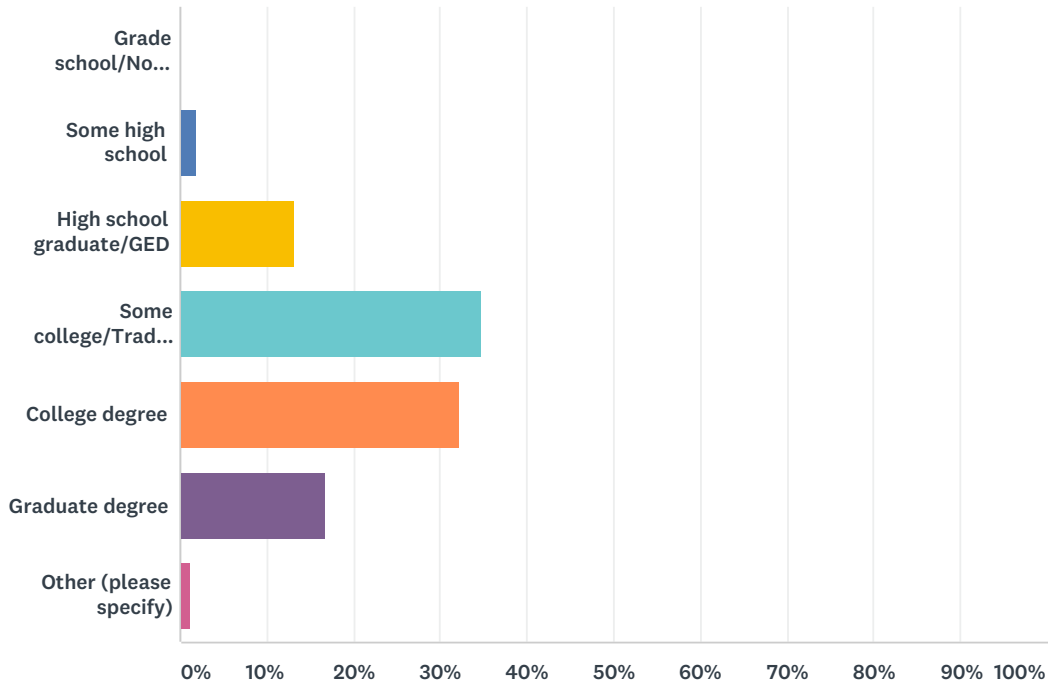
Answered: 310 Skipped: 25



ANSWER CHOICES	RESPONSES	
Male	44.19%	137
Female	55.81%	173
Other	0.00%	0
<b>TOTAL</b>		<b>310</b>

### Q22 Please indicate your highest level of education.

Answered: 311 Skipped: 24

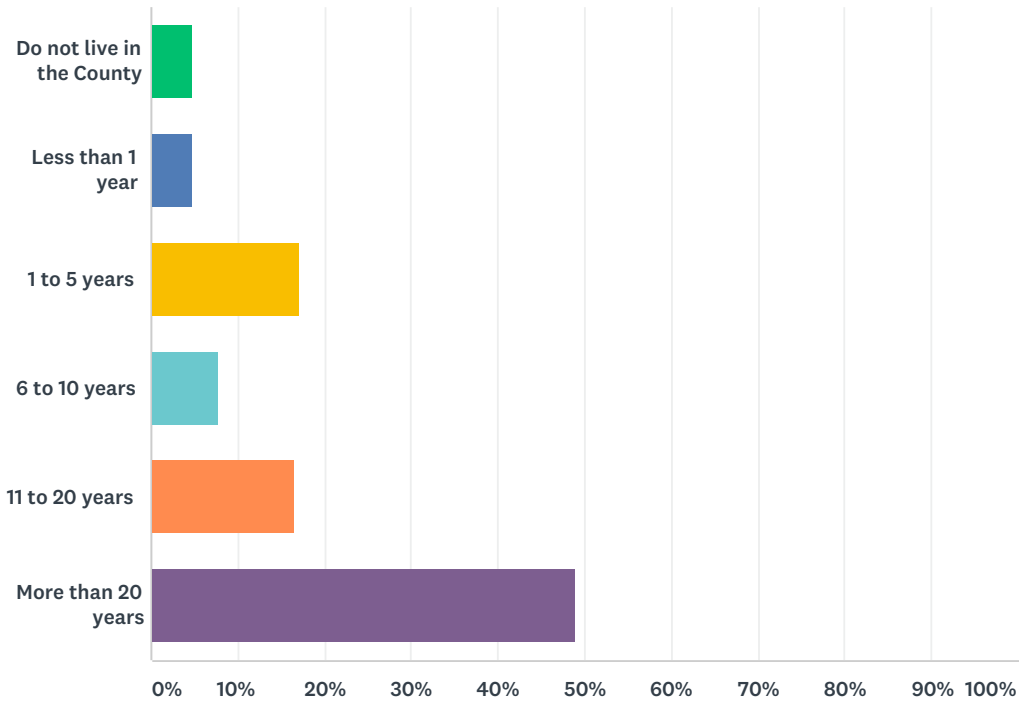


ANSWER CHOICES	RESPONSES	
Grade school/No schooling	0.00%	0
Some high school	1.93%	6
High school graduate/GED	13.18%	41
Some college/Trade school	34.73%	108
College degree	32.15%	100
Graduate degree	16.72%	52
Other (please specify)	1.29%	4
<b>TOTAL</b>		<b>311</b>

#	OTHER (PLEASE SPECIFY)	DATE
1	Completed trade school	1/4/2018 5:53 PM
2	Associate Degree	11/30/2017 12:46 AM
3	High school + some college	11/28/2017 9:46 PM

### Q23 How long have you lived in Grays Harbor County?

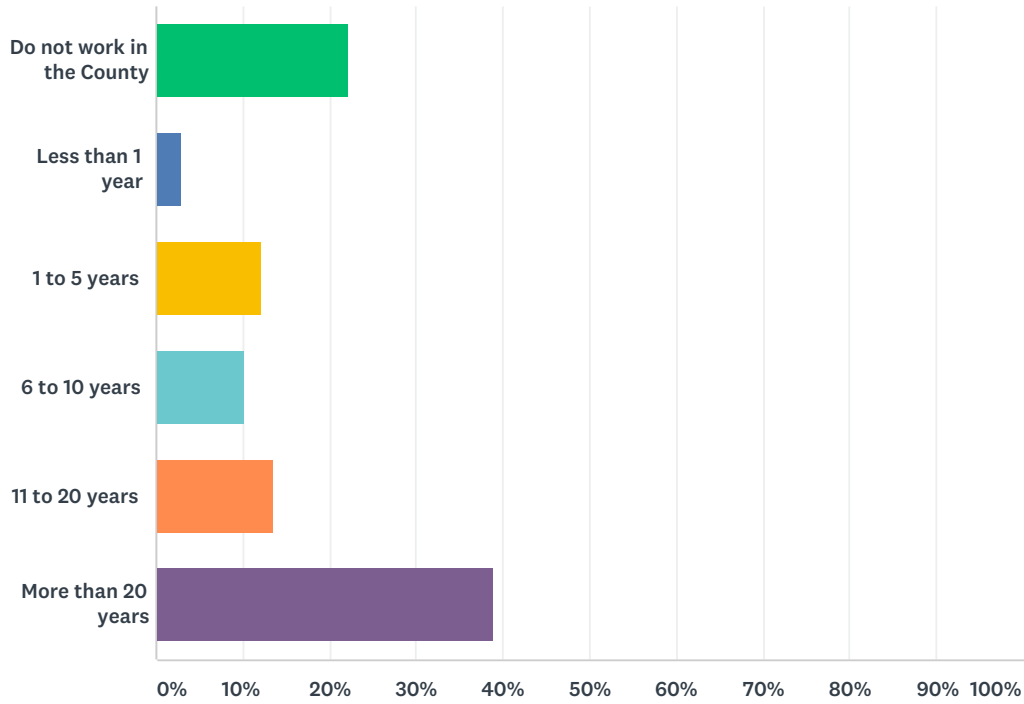
Answered: 310 Skipped: 25



ANSWER CHOICES	RESPONSES
Do not live in the County	4.84% 15
Less than 1 year	4.84% 15
1 to 5 years	17.10% 53
6 to 10 years	7.74% 24
11 to 20 years	16.45% 51
More than 20 years	49.03% 152
<b>TOTAL</b>	<b>310</b>

### Q24 How long have you worked in Grays Harbor County?

Answered: 311 Skipped: 24



ANSWER CHOICES	RESPONSES	
Do not work in the County	22.19%	69
Less than 1 year	2.89%	9
1 to 5 years	12.22%	38
6 to 10 years	10.29%	32
11 to 20 years	13.50%	42
More than 20 years	38.91%	121
<b>TOTAL</b>		<b>311</b>

### Q25 Comments

Answered: 56 Skipped: 279

#	RESPONSES	DATE
1	Word of mouth and continued public education. I don't hear enough from radio, news paper or internet to engage people in getting prepared. I work out of the county and always a concern on how to get back home during a disaster.	3/1/2018 8:53 AM
2	More information and assistance with vulnerable children and adults, especially with those with mobility issues. Securing additional medications and medical supplies is difficult to do on fixed, low income reality. Neighbors need to know who in their area would need assistance, especially if family and care providers are unable to reach vulnerable person.	2/20/2018 10:55 AM
3	The Red Cross is amazing and should be involved in our community more. I plan on joining them as a volunteer as soon as I am able to take time off.	2/4/2018 11:47 PM
4	Many realtors don't know about flood insurance. They don't mention it when they work with you to purchase a home. Flood insurance is very expensive if you get it through FEMA.	1/12/2018 1:04 PM



5	I have little confidence in local government's ability to maintain order and provide effective disaster response in a earthquake / tsunami event. During the last two Shakeout drills I have walked our escape route to the closest designated assembly point; I have seen NO indication of other citizens similarly participating, nor -- even more disconcerting -- no response from any local official disaster response teams during the drill. If this had been an actual emergency what kind of chaos would I be walking into when I actually reach that assembly point? Will anyone be there to keep things organized? How will the hundreds of people living in our neighborhood all find space in Hood Park to shelter for potentially several days? james@jdcad.com	1/8/2018 4:21 PM
6	Knowledge on building kits, what to do or not to do. Basic first aid. These could be done all with videos.	1/4/2018 5:54 PM
7	If we dont relocate the tsunami evacuation route and public meeting place to an area that at the very least is above sea level, then the death toll will be higher then anyone can imagine for the city of Hoquiam and Aberdeen. As a lifetime resident of Hoquiam and Aberdeen it is my belief that the city of Ocean Shores and Westport wont have any chance which is why I wont live in either city but Aberdeen and Hoquiam have a higher chance if we break up the different areas of each city and create a different evacuation route and meeting location for each neighborhood. This meeting location should be located at the highest point above sea level adjacent to said neighborhood. Said locations need to be marked and designated evacuation meeting location for each of the broken up neighborhoods. This location needs a sign not a building, no need to build a building just a spot at the highest point from sea level. As it is most of these local hills and bluffs all connect together in one or more locations, this could be a way to reach the survivors after the two roads into the city of Aberdeen and Hoquiam are wiped out as they are both in low lying areas and are sure to be destroyed in the event of a tsunami.	12/30/2017 7:03 PM
8	Retired Environmental health worker here. Participated in constructing Mohave County AZ'S Emergency response plan and developed Emergency medical stockpiles, I am experienced in Emergency shelter planning, emergency control and operation, sanitation, feeding stations, Emergency water / power supplies. I have served in emergency situations and disaster aftermaths in Mexico, Haiti, Philippines, Timor, Eastern Africa as well as in the U.S. on a smaller scale. I would be interested in learning about the Disaster plans which the county has for specific man made or natural disasters. I would also be glad to volunteer for any position within my knowledge base. Also would like to attend any training or help to train others here in GHC. Thank you. Greg Guindon.	12/21/2017 8:47 PM
9	People who live with disabilities, the elderly, the poor, and other vulnerable citizens need additional consideration in preparing for a disaster. All will have difficulty securing preparedness supplies when they can barely get through the month as it is now. Some need electricity because of mobility devices, or medications that need electricity (diabetes), or the have pets that are their only family. Would like to implement a volunteer organization that are spread through every ward who knows where each vulnerable is located and their current health situation. These volunteers could check throughout their wares to find what is needed. The 2007 storm showed how alone and afraid vulnerable people can become. If I hadn't had one determined care provider determined to get me up, cook and put me to bed, I would have died in bed. No other providers could get to me.	12/20/2017 6:02 PM
10	Perhaps a plan could be put in place that the next time there is a flood in the city of Hoquiam, the fire department could make the rounds among the flooded homes and businesses to see if anyone needs emergency help. Nobody came to our house and we had water lapping two inches from the door. I was quite surprised that with this being a known flooding area that there was no plan in place to at least do a quick check on homes and people's welfare. We did not need any assistance, but we do have some elderly neighbors that we were quite concerned about.	12/14/2017 9:17 PM
11	Am concerned that using sand from Taurus access road to augment lost sand near Jetty will increase our potential for inundation. Each year they seem to increase the amount of sand removed and widen the access road. I don't believe there has been adequate study to justify this or ensure this will not cause negative results.	12/4/2017 9:09 PM
12	We are very pleased that you do so much to help people to be aware and prepared. Thank you for all you do!	12/4/2017 1:14 PM
13	Two weeks of shelter in place is fairly doable. But having to quickly evacuate, on foot & potentially in hazardous conditions (such as after earthquake) carrying two weeks of food, water, & other supplies is not possible! I cannot evacuate from work, on foot to the hills before tsunami hits Aberdeen and be fully prepared. I would be lucky to get from work to a safe place before tsunami strikes carrying nothing!	12/1/2017 3:10 PM

14	It would be nice if FEMA and the county would work together to correct the property parcels in the FEMA flood plains so we wouldn't have to do the work for them.	11/30/2017 8:21 PM
15	It is so hard to prepare for "the big one" in Ocean Shores. I would imagine nothing will be left standing, or any roads still intact to evacuate. A distant tsunami will be a piece of cake in comparison (jump in the RV and get out of town).	11/30/2017 6:09 AM
16	The flood control being talked about, does it protect homes in West Aberdeen?	11/30/2017 12:48 AM
17	<p>The county is extremely unprepared. The general populace is largely in denial or unaware of the potential for disasters in the county, specifically earthquakes and tsunamis. Our local politicians also seem to ignore or pretend the issue doesn't exist, and that's pretty pathetic. What's concerning is, well, everything: A Cascadia event of 9.0 magnitude or greater WILL happen in the future, with DNR / USGS estimating a 15 to 20 percent chance in the next 50 years. That's a very high likelihood, and not a game of dice I'd like to play. The resulting tsunami could range between 30 and 50 feet, though the last Cascadia event generated waves in some locations upwards of 100 ft. There are no current evacuation plans or infrastructure that come close to dealing with such a disaster. Furthermore, USGS / DNR expect permanent coastal subsidence of 10 ft or more. As sea level remains the same, this could add another 10 ft or more to the height of whatever tsunami is generated. This predicted subsidence was reiterated in the recent EIS for the crude oil terminals in Grays Harbor. The Japan earthquake and tsunami is a great example of how permanent coastal subsidence can greatly increase a tsunami's height and strength. This means coastal communities like Ocean Shores and Westport are, sadly, doomed. They lack nearby high ground, and any major earthquake over 8.0 that also generates a tsunami will, in all likelihood, cause severe liquefaction of these coastal soils and sediments, collapsing roads, bridges and any substantial infrastructure people would otherwise use to evacuate. This means, in no uncertain terms, a mass casualty event is highly likely for these communities. If the earthquake occurs during the summer time, with peak tourist activity, the death toll could be frighteningly high. Due to the shape of Grays Harbor, a funneling effect could easily increase tsunami height by the time it reaches the tri-cities. Aberdeen, Hoquiam and Cosmopolis are built on mud-flats, any large buildings will collapse. Critical infrastructure will be destroyed well before the tsunami arrives. Schools, police, fire stations, they're all located in the tsunami zone and built on these weak soils. One would think relocating these critical building to high ground would be a priority, but apparently not as Aberdeen School Districts most recent proposal for a new elementary school in South Aberdeen is located in the tsunami zone below Grays Harbor College. Same goes for the new proposed athletic complex at Bishop Athletic Complex, an even worse location for tsunami and liquefaction. I must admit, for a school district, they aren't that smart. You'd think they'd take after Ocosta and be a bit more forward thinking. Maybe build the new school and athletic complex on top of the same hill Grays Harbor College sits on, there's more than enough room to either side of the college. But I guess we don't take this stuff seriously, it's rather shameful. (To be fair, kids could more easily evacuate up the hill at the College, but wouldn't it be better to build the school out of the tsunami zone to begin with? Then they don't have to hike up a steep hill, and the building, if it's built to withstand the earthquake, won't be completely destroyed by the resulting tsunami and perhaps used for rebuilding...). I would bring up Weatherwax High School... but that ships already sailed. On top of liquefaction, not a single major bridge in Grays Harbor will likely survive a Cascadia event, most are extremely old, not built to any sort of earthquake standards and have foundations based on extremely deep soft liquefiable soils (even the few retrofitted bridges still have shallow foundations in poor soils). This means, well, whoever survives, whatever is left, will be completely cut-off for a long time, months if not longer. Resources will be focused on the Puget Sound and we'll be left on our own. So those who do survive the earthquake, and tsunami, and are injured or need search and rescue, I doubt they'll get it in time. So while the main event will kill thousands, the lack of immediate response will kill many more, as people succumb to their injuries, entrapment in debris, and disease spreads. The one silver lining we have, is that the Grays Harbor Community Hospital is located on a hill, outside the tsunami zone (including the east campus). This would be great, if it wasn't for the fact that the buildings themselves are very old, and will likely collapse in the earthquake. I would say rebuilding these critical facilities to modern earthquake standards should be a top priority. To add to our misery, landslides are extremely likely during Cascadia, especially if it occurs during the winter time / rainy season. Most of our highways are built over unstable ground, along unstable hillsides, or have fill slopes that will fail during the earthquake, further isolating us. Dams may fail as well, the Wynoochee and Skookumchuck will likely go, creating their own inland tsunami / floods that will be just as devastating as their ocean cousins. These are the likely outcomes of a large Cascadia event and I've only touched the surface. After the sad and pathetic federal response to Puerto Rico, a terrible disaster in it's own right, I feel like we're nowhere near prepared for what could be a disaster 1,000 time's worse. I suppose there's a reason people are in denial about this, it's too terrible to fully comprehend. It's daunting, and there seems like there's little hope. But the thing is, without action, without solid planning, investment and</p>	11/29/2017 10:38 PM

education, there is no hope. We're our own worst enemies, we have the power to save countless lives. We can relocate critical infrastructure, build or re-build new highways outside the tsunami and liquefaction zones (looking at you SR 105, SR 109, move the highway's to the nearby highlands and build them to modern standards, and maybe reaching the coast after a disaster will be far easier and survivors might be able to leave a lot quicker). We can start replacing the outdated and functionally obsolete bridges with modern ones, build them to modern standards with deep solid foundations. We can build vertical evacuation structures in areas with no hope of reaching high ground, and provide far better evacuation signage for folks near high ground. We can stop proposing new critical infrastructure like schools in tsunami zones when nearby hillsides are easily available (Ocosta had no choice but to build a vertical evacuation structure, there's no nearby high ground there, however Aberdeen School District has no valid excuse, there's plenty of high ground to choose from for a new school). Thanks for the opportunity to take this survey. Ultimately, we need to be smart, think long term, come to terms with the reality of our situation, and do everything we can to improve the chances of survival. It's only a hopeless situation if we chose to continue to do nothing.

18	Unsure what to put for "near" floodplain, tsunami inundation zone, etc. It depends on how close you mean by "near." My property is not at risk for major flooding or tsunami, but routes to/from my property are at risk.	11/29/2017 8:01 PM
19	Sea level rise is a big concern. The dikes the city is planning do not go far enough to help me. there are culverts which are too small and no one is addressing them so they back up and don't let flood waters out as they should.	11/29/2017 5:11 PM
20	I live in the city of Aberdeen. The city is planning a levee which excludes my home and over a hundred other neighboring properties. This concerns me because when the levee is in, it guarantees we will be flooded. Ed Coyle 1105 E. Market St Aberdeen WA nickeled@comcast.net 360 532 9430	11/29/2017 4:52 PM
21	My yearly biggest concern is flooding. Our street floods every year. The new dike they want to put in will not help our area, but I am concerned it will make it worse.	11/29/2017 4:24 PM
22	City of Aberdeen has created a landslide hazard on my property	11/29/2017 4:15 PM
23	Financial help to put together a disaster pack.	11/29/2017 4:08 PM
24	I have property in the county and visit the coast often. So many people don't want to learn the basics of self preparedness and responsibility. So many want to rely on govt or other entities for help when need will arise and so when there are classes and other informational opportunities the attendance is extremely low compared to the population. Those who do attend them are helped with a lot of useful information that helps them to prepare for emergencies. People never perceive danger in a familiar environment However there are those who really want to but cannot due to limited resources and other constraints and so we help them.	11/29/2017 12:02 PM
25	We do not live in Grays Harbor County but have owned a condo at Westport by the Sea since 2004 and visit quite regularly. Thank you for providing this survey.	11/29/2017 11:21 AM
26	I personally live in Thurston County but I work and am responsible for the safety and disaster preparedness program for multiple work places in Grays Harbor County. I am very impressed and thankful for the efforts towards emergency preparedness from Grays Harbor Emergency Management. They clearly take the hazards very seriously as do I.	11/29/2017 10:55 AM
27	I am concerned about liquefaction and our roadways as well as our rail lines. Since Taholah is at the end of the road at the edge of the world, I tend to think that repair parties will get to us last. So we have become really self sufficient - but maybe not enough - to sustain ourselves in the event of a catastrophic event. We get road closures, power outages, and I have learned to work behind a sea wall as well as a river berm. I think that the ICS training goes a long ways, but our CERT is very inactive. My focus is on transportation and I am concerned with mobility as well as oil transport vehicles going into wetlands, waterways, etc. I have stopped counting the derailments as it only makes me anxious.	11/29/2017 10:06 AM
28	we have a older Reecom weather radio that was given to us many years back, i think this is a good program for getting information out. also like the info sent out on the internet and cell phone.	11/29/2017 9:42 AM

29	Millennials - they dont often read the news paper (or newsletters), they don't often attend public meetings, only watch TV when they want to (and typically not the news). Reaching them is going to become more difficult as the years go by. Personally, I use the internet and local radio stations. I use national apps for weather since there isn't a "local news station" that actually regularly covers the GHC area. If it doesn't come from the local radio stations (which i dont typically listen to in the morning, then my news comes from Charles Wallace. If I didn't work at a mill that can be easily affected by adverse weather, I would not know Charles - and would not be getting his updates. Our parents raised us to let us do "what we want", discipline was moderate. If we didn't like it, we didn't have to do it if we complained enough. Now that we're adults, we still don't like to do it, so we don't! Unfortunately, this will eventually cause a problem when we're underprepared for a catastrophic event and go into panic mode. (example, "I don't want to watch the news! its boring!" well now I have no idea whats going on in the world, I vote based on emotions, not rational thinking (if I vote at all) and then I'm surprised by the horrible weather and blame the news stations for not telling me it was coming! (which you did, I just didn't bother to watch it.) This is our future. I'm scared for us.	11/29/2017 8:31 AM
30	Please continue with county wide emergency meetings that include the Aberdeen area.	11/29/2017 8:21 AM
31	Very concerned about the Beacon Hill slide in Hoquiam that continues to erode.	11/29/2017 5:44 AM
32	I retired from a municipalality working in Public Works where I dealt in water, sewer, storm & street. During my time I was directly involved with phones, radio dispatch, coordination, tracking who was where & etc.	11/28/2017 9:56 PM
33	You can only inform the general public so much. More than half will not respond to any type of educational efforts. Life is hard and even harder when your stupid!	11/28/2017 8:35 PM
34	We live in Tokeland, Pacific County does not know we are here unless it's time for our property taxes, Thank You Greys County for your Emergency dept to keep us in the information loop. Your PUD is amazing on its response time with power issues living on the coast.	11/28/2017 7:25 PM
35	You are never preparad for all issues. But I feel that we do have a chance hear in Grayland , to servive an event as good as anyone in in the beach area. Because of our location, staying in our local area gives us a better chance to survive.	11/28/2017 7:19 PM
36	We live in Grayland, 3/4 mile outside of Grays Harbor County. And, local radio stations absolutely do not have the capability to respond with up to date info. They will be mostly useless since many have no one to even answer the phone in the building.	11/28/2017 7:04 PM
37	I have clothing, medicines, two weeks worth of food and water, camp stove and propane canisters, flash lights, batteries aplenty, radios with batteries, weather radio, tarps and stanchions of all sizes, rain gear, totes of all sizes stored in a detached garage. My neighbors are all licensed for guns so we can protect each other when the big earftnquake happens. We have discussed how we will watch out for our neighborhood when and if help is not available for a lengthy period of time.,	11/28/2017 6:59 PM
38	Keep the emails about severe weather coming Chuck. You are an outstanding EMS leader! Thank you!	11/28/2017 6:56 PM

39	<p>1. Fuel stations do NOT have backflow preventors on their fuel vents, which are cheap devices that could protect gas and diesel fuel from getting contaminated in a tsunami flow. MASCO for example could lose 6 of its 8 fuel sites in Grays Harbor. Florida amended its building code to protect fuel, why not Washington State? Fuel is the most CRITICAL resource. Without it generators, emergency vehicles, infrastructure clearing, communications won't work. Further, Grays Harbor County buys its fuel from a Tacoma company, which will not be able to deliver fuel following a disaster. If GH County bought it locally, it could dictate, and motivate, a minimum fuel volume be made available. 2. There are hundreds of HughesNet satellite account holders (probably most with generators) who can provide emergency communications, but Grays Harbor County doesn't have an account, nor is it working to coordinate these account holders. 3. Grays Harbor has numerous potable wells, that won't be contaminated by a tsunami or septic, and yet the county isn't making plans on using them after a disaster. GH needs plans to focus on pumping and delivering water 'immediately' after a disaster so as to provide immediate comfort and sanitation to refugees. 4. Grays Harbor has over 6,000 head of cattle (per USDA Survey, which doesn't include many smaller herds), which could be used as subsistence for disaster refugees until federal assistance arrives several weeks later. This only takes advanced coordination with ranchers through contingency contracting operation. 5. Post disaster crime could be greatly reduced if Grays Harbor advance coordinated the thousands of CPL holders (concealed pistol license) into a volunteer security force. 6. Numerous locations don't have cell service (for example my bluff top property and 25 miles of Wynoochee Valley Road. Problem can be solved if county worked with www.vanu.com to place utility pole solar powered 67-watt transmitters. These half-mile antennae operate entirely on solar and batteries and can fill in coverage holes. It just takes proactive leadership. NOTE: I'm a retired Navy Supply Corps Commander trained in contingency operations and Executive-Level Government Contracting.</p>	11/28/2017 6:54 PM
40	<p>There is no current effective plan to save the lives of the residents of Ocean Shores should a large earthquake occur on the Juan de Fuca Subduction Zone which causes a sea floor level change and produces a tsunami which would arrive here in roughly 15 min. If the roads collapse due to liquification, no travel via the "Tsunami Evacuation Route" would be possible. And even if travel were possible, there would never be enough time to reach higher ground. I believe a creative solution can be found and I would like to participate in finding it. pointsource@gmail.com</p>	11/28/2017 12:18 PM
41	<p>My thought is some of us in the Taholah Community are aware of the importance of the lower village being in the flood zone, but there are individuals that are not prepared for a disaster of flooding or a tsunami or evacuation roads to use.</p>	11/28/2017 11:16 AM
42	<p>i live on the reservation of the Quinaults, however we live in different county. I was told to go ahead and fill this out anyways.</p>	11/28/2017 11:02 AM
43	<p>Thank you for sharing this survey with Taholah. It is not very often that we are included.</p>	11/28/2017 10:19 AM
44	<p>Coastal communities need vertical evacuation structures for tsunamis!! Death toll will be huge without.</p>	11/28/2017 10:11 AM
45	<p>My biggest concern is if an earthquake of great magnitude should happen and this in turn causes a tsunami.</p>	11/28/2017 9:59 AM
46	<p>My responses are based on living within Ocean Shores along the Pacific Ocean and working in the village of Taholah where to my knowledge some of the items identified are not addressed for emergency management.</p>	11/28/2017 9:46 AM
47	<p>My family have lived in Grays Harbor our entire lives. Any where you live in GH, can isolate you from the outside if there is a natural disaster.</p>	11/28/2017 9:34 AM
48	<p>My experience in living and working in this county for 45 years has been that Grays Harbor County has excellent first responders, and in every instance community members very willing to step up and help.</p>	11/28/2017 9:33 AM
49	<p>We have been slowly trying to move our village on the hill, it's a costly task, a multi-million dollar event. But, we still have our villages that are in danger, especially those that are close to the ocean in which that is where my son resides, right near where the ocean and the Quinault river are.</p>	11/28/2017 9:22 AM
50	<p>The tribe employs several who commute from the Aberdeen / Hoquiam area. Any consideration in this matter would be helpful. Climate change will be impacting county wide in the future with increasing costs.</p>	11/28/2017 8:49 AM
51	<p>As far as education and preparedness in the event of a disaster, I think partnering with other departments may be very effective while delivering training and education.</p>	11/28/2017 8:24 AM

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52	We moved to Seabrook 2 years ago. The town has a safety team that prepares for emergencies. We attend local CERT events and are active with Grays Harbor Fire District 8 (great team) . Grays Harbor PUD has done a great job responding to power outages quickly!	11/28/2017 7:55 AM
53	Please let's discuss tsunami evacuation platforms for all areas that may be affected	11/27/2017 9:36 PM
54	I am a volunteer radio operator for the Grays Harbor EOC, I am also the State Director for Air Force Military Aux Radio System that is tasked with supporting WA Nation Guard, FEMA/DHS, I am tasked with having a functional radio station. I can operate and support the EOC, WANG and any other emergencies within region 10 from my home or a primitive remote location for at least a 2 weeks without power or access to services.	11/27/2017 6:14 PM
55	Tsunami: The only way we are getting out of here is by balloon. If everyone had a balloon on the roof, the escape would be swift and clear of the debris and traffic. The wind would take everyone the same direction for rescue. Maybe I sound like a nut, but think about it anyway.	11/27/2017 5:26 PM
56	This is an observation. There are a lot of people who would not make it very far from home when the tsunami happens in ocean shores, me included. I think underground shelters should be built. They are already all over the world for high officials, why not here? If you don't know about them I suggest using google. There are also a few aquariums under the sea that could be use as a diagram for here. That is my observation.	11/27/2017 3:56 PM

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