

## Results of the 2018 Southcentral Alaska Earthquake Survey

These data were collected in an online survey that was available from December 19, 2018 through January 17, 2019. Two respondents provided responses by mail; their answers are also included below. Anyone could complete the survey. Because this survey methodology was a “convenience sample,” the information cannot be applied to the general population, only the survey respondents.

It is important to note that the survey included a number of skip patterns. This means that the answer to certain questions would change what question came next. For example, if a respondent reported that he/she had an emergency supply kit, the next question was about the content of the kit. If the respondent reported that he/she did not have an emergency kit, the next question was about why he/she did not have a kit. Respondents could also choose not to answer any questions they preferred not to answer. The tables below provide the exact data that were submitted by survey respondents. Some of the data presented in the March 6, 2019 *Epi Bulletin* are slightly different than the data presented here due to minor corrections of inaccurate records. For example, some survey respondents who reported living in “other area in Mat-Su or Municipality of Anchorage” specified that they lived on the Kenai Peninsula. During the analysis, these people were assigned to the Gulf Coast Region (which includes the Kenai Peninsula).

Finally, to respect the privacy of all respondents, individual replies to “open text” questions are not provided here.

### Where were you during the November 30th earthquake?

Answer Choices	Number	Percentage
Anchorage	1817	60.33%
Eagle River	311	10.33%
Chugiak	87	2.89%
Girdwood	13	0.43%
Palmer	146	4.85%
Wasilla	304	10.09%
Gulf Coast Region	36	1.20%
Interior Region	19	0.63%
Northern Region	5	0.17%
Southeast Region	19	0.63%
Southwest Region	21	0.70%
Outside Alaska	53	1.76%
Other area in Mat-Su or Municipality of Anchorage (please specify)	181	6.01%
<b>Answered</b>	<b>3012</b>	
<b>Skipped</b>	<b>8</b>	

### Where is your residence or where do you consider home?

Answer Choices	Number	Percentage
Anchorage	1635	54.81%
Eagle River	401	13.44%
Chugiak	116	3.89%
Girdwood	14	0.47%
Palmer	156	5.23%
Wasilla	353	11.83%
Gulf Coast Region	38	1.27%
Interior Region	15	0.50%
Northern Region	4	0.13%
Southeast Region	20	0.67%
Southwest Region	23	0.77%
Outside Alaska	8	0.27%
Other area in Mat-Su or Municipality of Anchorage (please specify)	200	6.70%
<b>Answered</b>	<b>2983</b>	
<b>Skipped</b>	<b>37</b>	

### How many years have you lived in Alaska?

Answer Choices	Number	Percentage
<1	83	2.75%
1-5	321	10.65%
6-10	268	8.89%
11-15	236	7.83%
16-20	271	8.99%
>20 but I was not here during the 1964 earthquake	1630	54.10%
>20 and I was here for the 1964 earthquake	196	6.51%
N/A (I do not live in Alaska)	8	0.27%
<b>Answered</b>	<b>3013</b>	
<b>Skipped</b>	<b>7</b>	

**On the day of the earthquake, where did you get information about the earthquake?  
(Select all that apply.)**

<b>Answer Choices</b>	<b>Number</b>	<b>Percentage</b>
TV	762	25.67%
AM/FM Radio	1287	43.35%
Text message from a state or federal agency	706	23.78%
Email from a state or federal agency	181	6.10%
Nixle message	718	24.18%
Twitter	360	12.13%
Facebook	1495	50.35%
Internet (please specify website in "Other" box below)	748	25.19%
Personal contact	967	32.57%
Ham radio	16	0.54%
I did not receive information	118	3.97%
Other sources of information	235	7.92%
<b>Answered</b>	<b>2969</b>	
<b>Skipped</b>	<b>51</b>	

**Assuming all of these methods of communication are still available, how would prefer to get information during an emergency such as an earthquake? Pick your top choice.**

<b>Answer Choices</b>	<b>Number</b>	<b>Percentage</b>
TV	242	8.13%
AM/FM Radio	645	21.68%
Text message from a state or federal agency	1339	45.01%
Email from a state or federal agency	51	1.71%
Nixle message	331	11.13%
Twitter	74	2.49%
Facebook	145	4.87%
Internet (please specify website in "Other" box below)	70	2.35%
Ham radio	4	0.13%
Other (please specify)	74	2.49%
<b>Answered</b>	<b>2975</b>	
<b>Skipped</b>	<b>45</b>	

Following the earthquake, did you hear any information about boil water notices or advisories in your area of residence?

Answer Choices	Number	Percentage
Yes	2123	71.29%
No	788	26.46%
Don't remember	67	2.25%
<b>Answered</b>	<b>2978</b>	
<b>Skipped</b>	<b>42</b>	

What was your PRIMARY source of information about the boil water notice or advisory?

Answer Choices	Number	Percentage
TV	548	25.75%
AM/FM Radio	427	20.07%
Text message from a state or federal agency	51	2.40%
Email from a state or federal agency	21	0.99%
Nixle message	192	9.02%
Twitter	68	3.20%
Facebook	417	19.60%
Internet (please specify website in "Other" box below)	47	2.21%
Personal contact	139	6.53%
Ham radio	2	0.09%
Other (please specify)	216	10.15%
<b>Answered</b>	<b>2128</b>	
<b>Skipped</b>	<b>892</b>	

**What information did you not hear that would have been useful for you to know within one day of the earthquake? (Select all that apply.)**

<b>Answer Choices</b>	<b>Number</b>	<b>Percentage</b>
Information about aftershocks	886	33.77%
Information on safe clean-up	606	23.09%
Information on where to seek shelter	534	20.35%
Information on how to be safe during future earthquakes/aftershocks	779	29.69%
Information on road closures and/or travel advisories	1058	40.32%
Information about building closures	906	34.53%
Information about building safety (for example, how to detect a gas leak, or how to identify structural issues)	1621	61.78%
Other (please specify)	265	10.10%
<b>Answered</b>	<b>2624</b>	
<b>Skipped</b>	<b>396</b>	

**Were you physically injured during the earthquake? [For example, from an item falling on you, a cut from broken glass, or tripping while trying to get to a safe location.]**

<b>Answer Choices</b>	<b>Number</b>	<b>Percentage</b>
Yes	223	7.53%
No	2738	92.47%
<b>Answered</b>	<b>2961</b>	
<b>Skipped</b>	<b>59</b>	

**What were the injuries [that occurred during the earthquake]? (Select all that apply.)**

<b>Answer Choices</b>	<b>Number</b>	<b>Percentage</b>
Superficial cut / laceration	117	51.09%
Large scrape or bruise	80	34.93%
Deep cut or puncture	9	3.93%
Broken bone or fracture or dislocation	4	1.75%
Burn	0	0.00%
Head injury	9	3.93%
Strain or sprain	44	19.21%
Other (please specify)	40	17.47%
<b>Answered</b>	<b>229</b>	
<b>Skipped</b>	<b>2791</b>	

**What caused the injuries [that occurred during the earthquake]? (Select all that apply.)**

<b>Answer Choices</b>	<b>Number</b>	<b>Percentage</b>
Fall, slip, or trip	71	30.60%
Being hit by glass	36	15.52%
Being hit by an object other than glass	56	24.14%
Burn	0	0.00%
Electric shock	0	0.00%
Motor vehicle accident (Describe: _____)	0	0.00%
Other (please specify)	110	47.41%
<b>Answered</b>	<b>232</b>	
<b>Skipped</b>	<b>2788</b>	

**Did you seek medical care for your injuries [that occurred during the earthquake]?**

<b>Answer Choices</b>	<b>Number</b>	<b>Percentage</b>
Yes	31	13.30%
No	202	86.70%
<b>Answered</b>	<b>233</b>	
<b>Skipped</b>	<b>2787</b>	

**Where did you receive medical care [for injuries that occurred during the earthquake]? (Select all that apply.)**

<b>Answer Choices</b>	<b>Number</b>	<b>Percentage</b>
At the scene of the injury by emergency medical personnel	0	0.00%
Urgent care or outpatient clinic	9	29.03%
Emergency Room	6	19.35%
Admitted to a hospital	2	6.45%
Other (please specify)	19	61.29%
<b>Answered</b>	<b>31</b>	
<b>Skipped</b>	<b>2989</b>	

Were you physically injured during the hours or days after the earthquake by something related to the earthquake? [For example, during clean-up or when struck by an item that had shifted during the earthquake.]

Answer Choices	Number	Percentage
Yes	252	8.54%
No	2699	91.46%
<b>Answered</b>	<b>2951</b>	
<b>Skipped</b>	<b>69</b>	

What were the injuries [that occurred after the earthquake]? (Select all that apply.)

Answer Choices	Number	Percentage
Superficial cut / laceration	177	69.69%
Large scrape or bruise	46	18.11%
Deep cut or puncture	11	4.33%
Broken bone or fracture or dislocation	1	0.39%
Burn	1	0.39%
Head injury	4	1.57%
Strain or sprain	48	18.90%
Other (please specify)	37	14.57%
<b>Answered</b>	<b>254</b>	
<b>Skipped</b>	<b>2766</b>	

What caused the injuries [that occurred after the earthquake]? (Select all that apply.)

Answer Choices	Number	Percentage
Fall, slip, or trip	37	14.68%
Being cut by glass	170	67.46%
Being hit by an object other than glass	32	12.70%
Burn	0	0.00%
Electric shock	1	0.40%
Use of machinery, tools, or equipment	10	3.97%
Other (please specify)	56	22.22%
<b>Answered</b>	<b>252</b>	
<b>Skipped</b>	<b>2768</b>	

**Did you seek medical care for your injuries [that occurred after the earthquake]?**

Answer Choices	Number	Percentage
Yes	21	8.33%
No	231	91.67%
<b>Answered</b>	<b>252</b>	
<b>Skipped</b>	<b>2768</b>	

**Where did you receive medical care [for injuries that occurred after the earthquake]?  
(Select all that apply.)**

Answer Choices	Number	Percentage
At the scene of the injury by emergency medical personnel	0	0.00%
Urgent care or outpatient clinic	7	31.82%
Emergency Room	3	13.64%
Admitted to a hospital	1	4.55%
Other (please specify)	13	59.09%
<b>Answered</b>	<b>22</b>	
<b>Skipped</b>	<b>2998</b>	

**Following the earthquake, have you had an increase in any of the following?  
(Select all that apply.)**

Answer Choices	Number	Percentage
Worry	1620	54.92%
Trouble sleeping	1538	52.14%
Anxiety, fear, or distraction	1810	61.36%
Panic attacks	479	16.24%
None	653	22.14%
Other stress or mental health-related symptoms (please specify)	377	12.78%
<b>Answered</b>	<b>2950</b>	
<b>Skipped</b>	<b>70</b>	

**Did you seek help using any of the following services [for worry, trouble sleeping, anxiety, fear, distraction, panic attacks, or other stress or mental health-related symptom]? (Select all that apply.)**

<b>Answer Choices</b>	<b>Number</b>	<b>Percentage</b>
Counseling from a friend or spiritual/religious leader	356	15.84%
Pre-existing support group	64	2.85%
Primary care provider or a clinic	94	4.18%
Emergency room	8	0.36%
Social worker or case manager	16	0.71%
Psychologist or counselor	117	5.20%
Aetna Behavioral Health telephone support	23	1.02%
Emotional Support Line from Optum	4	0.18%
Disaster Distress Helpline	11	0.49%
Careline Alaska	6	0.27%
I needed help but it was too expensive	73	3.25%
I needed help but I didn't know where to get it	91	4.05%
I requested help but wasn't able to get an appointment	24	1.07%
I did not seek help	1537	68.37%
Other (please specify)	208	9.25%
<b>Answered</b>	<b>2248</b>	
<b>Skipped</b>	<b>772</b>	

**If you have children, did any of them have a physical injury caused by the earthquake, during clean-up, or in some other way associated with the earthquake?**

<b>Answer Choices</b>	<b>Number</b>	<b>Percentage</b>
Yes	61	2.07%
No	1594	54.13%
I prefer not to say	21	0.71%
I don't have children	1269	43.09%
<b>Answered</b>	<b>2945</b>	
<b>Skipped</b>	<b>75</b>	

**Did any of your children experience increased anxiety or other distress following the earthquake?**

<b>Answer Choices</b>	<b>Number</b>	<b>Percentage</b>
Yes	985	59.16%
No	617	37.06%
I prefer not to say	63	3.78%
<b>Answered</b>	<b>1665</b>	
<b>Skipped</b>	<b>1355</b>	

**Before the earthquake, did you have an emergency supply kit (that is, emergency items stored in a single location)?**

<b>Answer Choices</b>	<b>Number</b>	<b>Percentage</b>
Yes	1352	45.88%
No	1595	54.12%
<b>Answered</b>	<b>2947</b>	
<b>Skipped</b>	<b>73</b>	

**Which of the following supplies were in your emergency supply kit? (Select all that apply.)**

<b>Answer Choices</b>	<b>Number</b>	<b>Percentage</b>
3-day supply of non-perishable food	1101	81.98%
3-day supply of water (1 gallon/person/day)	972	72.38%
Battery-operated radio	751	55.92%
First-aid kit	1163	86.60%
3-day supply of prescription medication for each person who needs it	545	40.58%
Medical equipment, supplies, or prescription eyeglasses	533	39.69%
Flashlights with extra batteries	1137	84.66%
Dust masks	538	40.06%
Copies of important documents	344	25.61%
Other supplies (please specify below)	304	22.64%
<b>Answered</b>	<b>1343</b>	
<b>Skipped</b>	<b>1677</b>	

**What were the reasons why you did not have a kit? (Select all that apply.)**

Answer Choices	Number	Percentage
I didn't think it was necessary to have an emergency supply kit	402	26.53%
I didn't know what I was supposed to have in the kit	274	18.09%
It costs too much money to put a kit together	287	18.94%
Other (please specify)	736	48.58%
<b>Answered</b>	<b>1515</b>	
<b>Skipped</b>	<b>1505</b>	

**What is your housing status?**

Answer Choices	Number	Percentage
I rent my home	621	21.18%
I own my home	2281	77.80%
I do not have a permanent residence right now	30	1.02%
<b>Answered</b>	<b>2932</b>	
<b>Skipped</b>	<b>88</b>	

**[For respondents renting their home.] In the week following the earthquake, did you have to stay somewhere other than your home for one or more nights?**

Answer Choices	Number	Percentage
No	526	84.70%
Yes, because of damage	15	2.42%
Yes, because I had no power	12	1.93%
Yes, because the landlord required it	2	0.32%
Yes, because I was anxious and preferred to be elsewhere	47	7.57%
Yes, because my commute to work was affected	1	0.16%
Yes, for a different reason (please specify below)	18	2.90%
<b>Answered</b>	<b>621</b>	
<b>Skipped</b>	<b>2399</b>	

**[For respondents who own their home.] In the week following the earthquake, did you have to stay somewhere other than your home for one or more nights?**

<b>Answer Choices</b>	<b>Number</b>	<b>Percentage</b>
No	2128	93.54%
Yes, because of damage	27	1.19%
Yes, because I had no power	16	0.70%
Yes, because I was anxious and preferred to be elsewhere	52	2.29%
Yes, because my commute to work was affected	13	0.57%
Yes, for a different reason (please specify below)	39	1.71%
<b>Answered</b>	<b>2275</b>	
<b>Skipped</b>	<b>745</b>	

**[For respondents who did not currently have a permanent residence.] In the week following the earthquake, was it harder to find a place to stay?**

<b>Answer Choices</b>	<b>Number</b>	<b>Percentage</b>
Yes	4	10.53%
No	34	89.47%
<b>Answered</b>	<b>38</b>	
<b>Skipped</b>	<b>2982</b>	

**What was the single biggest impact of the earthquake on you?**

<b>Answer Choices</b>	<b>Number</b>	<b>Percentage</b>
Destruction of belongings	503	17.38%
Physical damage to home	309	10.68%
Physical injuries	13	0.45%
Anxiety or other distress	1351	46.68%
Lack of childcare due to school closures	60	2.07%
Lost or injured pet	11	0.38%
No impact	343	11.85%
Other (please specify)	304	10.50%
<b>Answered</b>	<b>2894</b>	
<b>Skipped</b>	<b>126</b>	

For the [single biggest] impact you selected above, how much did it affect your daily life in the week following the earthquake?

(Rate on a scale of 1 to 10, where 1 = Very Little and 10 = Very Much)

Answer	Average Rating
Destruction of belongings	4.2
Physical damage to home	6.0
Physical injuries	8.4
Anxiety or other distress	6.6
Lack of childcare due to school closures	6.2
Lost or injured pet	6.3
Other (please specify)	5.8

Where did you find out about this survey?

Answer Choices	Number	Percentage
Division of Health and Social Services Twitter feed	219	8.66%
Division of Health and Social Services Facebook page	448	17.72%
Anchorage Daily News	385	15.23%
GovDelivery message	33	1.31%
EMS newsletter	4	0.16%
Neighborworks	30	1.19%
Cook Inlet Housing	0	0.00%
Catholic Social Services	2	0.08%
Federation of Community Councils	133	5.26%
Food Bank of Alaska	1	0.04%
Other (please specify)	1273	50.36%
<b>Answered</b>	<b>2528</b>	
<b>Skipped</b>	<b>492</b>	

What is your age category?

Answer Choices	Number	Percentage
<18 years old	29	1.00%
18–29 years	243	8.41%
30–49 years	1199	41.52%
50–69 years	1191	41.24%
70 years and over	199	6.89%
Prefer not to say	27	0.93%
<b>Answered</b>	<b>2887</b>	
<b>Skipped</b>	<b>133</b>	