

Kauai Preparedness CASPER 2017 Preliminary Report

A community assessment for public health emergency response (CASPER) was conducted on Kauai in August to determine how prepared residents are for hurricanes and other disasters. The survey instrument included questions that addressed a variety of concerns for local emergency management and public health officials, including: health status, prescription medication supplies, emergency supply kits, evacuation plans, emergency plans, communication preferences, and knowledge of preparedness resources. Survey teams consisted of representatives from the Department of Health, Kauai Emergency Management Agency, American Red Cross, Kauai Medical Reserve Corps and Team Rubicon. Teams were sent to selected clusters from August 1-4, 2017 and obtained a total of 186 completed surveys. The data was entered and analyzed using Epi Info 7.

Response Rates:

- Completion Rate = 89% (represents how close we came to collecting the target 210 interviews)
- Cooperation Rate = 72% (represents both the eligibility and the willingness of the community to participate)
- Contact Rate = 49% (represents the proportion of households where contact was attempted and interview completed)

Household and demographic information:

Q5. Is anyone in your household pregnant?	Frequency	Percent	Cum. Percent	
No	28671.09	97.23%	97.23%	
Yes	815.8	2.77%	100.00%	
Total	29486.89	100.00%	100.00%	

Q6. Is there an adult in your household who does not speak english?	Frequency	Percent	Cum. Percent	
No	28862.63	97.99%	97.99%	
Yes	591.16	2.01%	100.00%	
Total	29453.79	100.00%	100.00%	

*Languages spoken = Ilocano, Russian and no response

Q7. Do you or does a member of your household have serious difficulty hearing?	Frequency	Percent	Cum. Percent	
DK	141.88	0.48%	0.48%	
No	27443.83	92.11%	92.59%	
Yes	2208.58	7.41%	100.00%	
Total	29794.29	100.00%	100.00%	

Q8. Are you or a member of your household blind or have serious difficulty seeing, even when wearing glasses?	Frequency	Percent	Cum. Percent	
DK	307.4	1.03%	1.03%	
No	29061.25	97.54%	98.57%	
Yes	425.64	1.43%	100.00%	
Total	29794.29	100.00%	100.00%	

Q9. In the past 5 years, have you or anybody in your household taken training in first aid, CPR, or community emergency response team (CERT)?	Frequency	Percent	Cum. Percent	
DK	425.64	1.43%	1.43%	
No	16876.27	56.64%	58.07%	
Yes	12492.38	41.93%	100.00%	
Total	29794.29	100.00%	100.00%	

Q10. Have you or a member of your household ever been told by a healthcare professional that he/she has:

Asthma/COPD/Emphysema	Frequency	Percent	Cum. Percent		Diabetes	Frequency	Percent	Cum. Percent	
DK	283.76	0.95%	0.95%		DK	283.76	0.95%	0.95%	
No	23686.47	79.50%	80.45%		No	25008.24	83.94%	84.89%	
Yes	5824.06	19.55%	100.00%		Yes	4502.29	15.11%	100.00%	
Total	29794.29	100.00%	100.00%		Total	29794.29	100.00%	100.00%	

Developmental Disability	Frequency	Percent	Cum. Percent		Hypertension/Heart Disease	Frequency	Percent	Cum. Percent	
DK	283.76	0.95%	0.95%		DK	283.76	0.96%	0.96%	
No	29170.03	97.90%	98.86%		No	20818.14	70.21%	71.16%	
Yes	340.5	1.14%	100.00%		Yes	8550.51	28.84%	100.00%	
Total	29794.29	100.00%	100.00%		Total	29652.41	100.00%	100.00%	

Immunosuppressed	Frequency	Percent	Cum. Percent		Physical Disability	Frequency	Percent	Cum. Percent	
DK	283.76	0.95%	0.95%		DK	425.64	1.43%	1.43%	
No	29084.89	97.62%	98.57%		No	27420.19	92.03%	93.46%	
Yes	425.64	1.43%	100.00%		Yes	1948.46	6.54%	100.00%	
Total	29794.29	100.00%	100.00%		Total	29794.29	100.00%	100.00%	

Psychosocial/mental illness	Frequency	Percent	Cum. Percent		Seizure disorder/epilepsy	Frequency	Percent	Cum. Percent	
DK	283.76	0.95%	0.95%		DK	283.76	0.95%	0.95%	
No	29084.89	97.62%	98.57%		No	29120.37	97.74%	98.69%	
Yes	425.64	1.43%	100.00%		Yes	390.16	1.31%	100.00%	
Total	29794.29	100.00%	100.00%		Total	29794.29	100.00%	100.00%	

Q11. Do you or does any member of your household need:

Daily Medication	Frequency	Percent	Cum. Percent		Dialysis	Frequency	Percent	Cum. Percent	
DK	141.88	0.48%	0.48%		DK	141.88	0.48%	0.48%	
No	10799.23	36.25%	36.72%		No	29652.41	99.52%	100.00%	
Yes	18853.18	63.28%	100.00%		Yes	29794.29	100.00%	100.00%	
Total	29794.29	100.00%	100.00%		Total	29794.29	100.00%	100.00%	

Home health care	Frequency	Percent	Cum. Percent		Oxygen supply	Frequency	Percent	Cum. Percent	
DK	141.88	0.48%	0.48%		DK	141.88	0.48%	0.48%	
No	28872.1	96.90%	97.38%		No	29345.01	98.49%	98.97%	
Yes	780.31	2.62%	100.00%		Yes	307.4	1.03%	100.00%	
Total	29794.29	100.00%	100.00%		Total	29794.29	100.00%	100.00%	

Wheelchair/cane/walker	Frequency	Percent	Cum. Percent		Other type of special care	Frequency	Percent	Cum. Percent	
DK	141.88	0.48%	0.48%		DK	307.4	1.03%	1.03%	
No	26911.85	90.33%	90.80%		No	29004.51	97.35%	98.38%	
Yes	2740.56	9.20%	100.00%		Yes	482.38	1.62%	100.00%	
Total	29794.29	100.00%	100.00%		Total	29794.29	100.00%	100.00%	

Emergency and evacuation plans:

Emergency communication plan such as a list of numbers and out of town contact	Frequency	Percent	Cum. Percent	
DK	472.91	1.59%	1.59%	
No	10555.66	35.43%	37.02%	
Yes	18765.72	62.98%	100.00%	
Total	29794.29	100.00%	100.00%	

Designated meeting place immediately outside your home or close by in your neighborhood	Frequency	Percent	Cum. Percent	
DK	141.88	0.48%	0.48%	
No	13840.18	46.45%	46.93%	
Yes	15812.23	53.07%	100.00%	
Total	29794.29	100.00%	100.00%	

Designated meeting place outside of your neighborhood in case you cannot return home	Frequency	Percent	Cum. Percent	
DK	141.88	0.48%	0.48%	
No	19933.81	66.90%	67.38%	
Yes	9718.6	32.62%	100.00%	
Total	29794.29	100.00%	100.00%	

Copies of your important documents in a safe location (e.g. water proof container)	Frequency	Percent	Cum. Percent	
DK	614.79	2.06%	2.06%	
No	7531.32	25.28%	27.34%	
Yes	21648.18	72.66%	100.00%	
Total	29794.29	100.00%	100.00%	

Q13. Has your household prepared an Emergency Supplies Kit with supplies like water, food, flashlights, and extra batteries that is kept in a designated place in your home?	Frequency	Percent	Cum. Percent	
DK	141.88	0.48%	0.48%	
No	7654.28	25.91%	26.39%	
Yes	21749.85	73.61%	100.00%	
Total	29546.01	100.00%	100.00%	

Q14. Has your household prepared a first aid kit with emergency supplies to take with you if you had to leave quickly?	Frequency	Percent	Cum. Percent	
DK	638.43	2.14%	2.14%	
No	10442.22	35.05%	37.19%	
Yes	18713.64	62.81%	100.00%	
Total	29794.29	100.00%	100.00%	

Q15. Does your household have enough drinking water (besides tap) for the next 3 days? (1 gallon/person/day)	Frequency	Percent	Cum. Percent	
DK	165.52	0.56%	0.56%	
No	7864.75	26.40%	26.95%	
Yes	21764.02	73.05%	100.00%	
Total	29794.29	100.00%	100.00%	

Q15b. If yes, how about for 7 days?	Frequency	Percent	Cum. Percent		Q15c. If yes, how about for 14 days?	Frequency	Percent	Cum. Percent	
No	9966.87	46.22%	46.22%		No	6519.29	56.21%	56.21%	
Yes	11598.53	53.78%	100.00%		Yes	5079.24	43.79%	100.00%	
Total	21565.4	100.00%	100.00%		Total	11598.53	100.00%	100.00%	

*38% of Kauai households have a 7-day supply of water; 17.2% of Kauai households have the recommended 14-day supply of water

Q16. Does your household have enough non-perishable food (e.g. protein bars, nuts, dried fruit, canned goods) for the next 3 days?	Frequency	Percent	Cum. Percent	
DK	141.88	0.48%	0.48%	
No	2995.98	10.10%	10.58%	
Yes	26514.55	89.42%	100.00%	
Total	29652.41	100.00%	100.00%	

Q16b. If yes, how about for 7 days?	Frequency	Percent	Cum. Percent		Q16c. If yes, how about for 14 days?	Frequency	Percent	Cum. Percent	
DK	141.88	0.54%	0.54%		DK	446.9	2.23%	2.23%	
No	6297.04	23.75%	24.28%		No	10498.91	52.30%	54.52%	
Yes	20075.63	75.72%	100.00%		Yes	9129.82	45.48%	100.00%	
Total	26514.55	100.00%	100.00%		Total	20075.63	100.00%	100.00%	

*68% of Kauai households have a 7-day supply of non-perishable food; 31% of Kauai households have a 14-day supply of non-perishable food

Q17. Does your household currently have a 7-day supply of medication for each person who takes prescribed meds?	Frequency	Percent	Cum. Percent	
DK	141.88	0.48%	0.48%	
No	1915.35	6.48%	6.96%	
No prescriptions	7415.48	25.10%	32.06%	
Yes	20073.3	67.94%	100.00%	
Total	29546.01	100.00%	100.00%	

Q17b. If yes, how about for 14 days?	Frequency	Percent	Cum. Percent	
No	2288.96	11.71%	11.71%	
Yes	17252.3	88.29%	100.00%	
Total	19541.26	100.00%	100.00%	

*77% of households that have a household member who takes prescription medication has a 14-day supply

Q18. Does anyone in your household take medication that requires refrigeration?	Frequency	Percent	Cum. Percent	
DK	141.88	0.48%	0.48%	
No	27323.26	91.71%	92.18%	
Yes	2329.15	7.82%	100.00%	
Total	29794.29	100.00%	100.00%	

Q19. If your household had to evacuate due to a hurricane or other large-scale disaster, where would you go?	Frequency	Percent	Cum. Percent	
American Red Cross church or community shelter	7027.69	23.59%	23.59%	
DK	1213.04	4.07%	27.66%	
Friends/family/2nd home outside your area	11548.84	38.76%	66.42%	
Hotel or motel	1924.82	6.46%	72.88%	
Other	2880.04	9.67%	82.55%	
Would not evacuate	5199.86	17.45%	100.00%	
Total	29794.29	100.00%	100.00%	

Q20. Do you have pets?	Frequency	Percent	Cum. Percent		Q20b. If yes, how many?	Frequency	Percent	Cum. Percent	
No	11922.44	40.02%	40.02%		1	9051.82	51.05%	51.05%	
Yes	17871.85	59.98%	100.00%		2	5202.17	29.34%	80.39%	
Total	29794.29	100.00%	100.00%		3	2014.66	11.36%	91.76%	
					4	1012.04	5.71%	97.47%	
					5	141.88	0.80%	98.27%	
					7	165.52	0.93%	99.20%	
					15	141.88	0.80%	100.00%	
					Total	17729.97	100.00%	100.00%	

Q20c. If your household had to evacuate due to a hurricane or other large-scale disaster, what would you do with your pet(s)?	Frequency	Percent	Cum. Percent	
DK	567.52	3.18%	3.18%	
Find a safe place for it/them	340.5	1.91%	5.08%	
Leave behind with food/water	1442.44	8.07%	13.15%	
Take it/them with you	13889.79	77.72%	90.87%	
Would not evacuate because of pets	1347.84	7.54%	98.41%	
Would not evacuate for other reasons	283.76	1.59%	100.00%	
Total	17871.85	100.00%	100.00%	

Q20d. Do you have supplies for your pet(s) in your emergency kit?	Frequency	Percent	Cum. Percent	
DK	283.76	1.73%	1.73%	
No	4471.52	27.22%	28.94%	
Yes	11674.13	71.06%	100.00%	
Total	16429.41	100.00%	100.00%	

Communication methods:

Q21. What is your main source of information regarding disaster or emergency events (check only one)	Frequency	Percent	Cum. Percent	
Automated call	3379.05	11.34%	11.34%	
Church or other groups	141.88	0.48%	11.82%	
Internet	5254.18	17.63%	29.45%	
Local newspaper	908.02	3.05%	32.50%	
Neighbor/friend/family/word of mouth	283.76	0.95%	33.45%	
Other	1685.95	5.66%	39.11%	
Radio	4017.49	13.48%	52.60%	
Text Message	3847.26	12.91%	65.51%	
TV	10276.7	34.49%	100.00%	
Total	29794.29	100.00%	100.00%	

Q22. What is your main source of health-related information? (check only one)	Frequency	Percent	Cum. Percent	
Church or other community groups	141.88	0.48%	0.48%	
DK	567.52	1.92%	2.40%	
Doctor/Nurse/Clinic	22442.65	75.83%	78.23%	
Friends and family	482.38	1.63%	79.86%	
Health Department	283.76	0.96%	80.82%	
Hospital	1049.9	3.55%	84.36%	
Internet	3695.92	12.49%	96.85%	
My child's school	141.88	0.48%	97.33%	
Other	789.78	2.67%	100.00%	
Total	29595.67	100.00%	100.00%	

Q23. Hawaii Emergency Management Agency (formerly known as Hawaii Civil Defense) recently increased the recommended amount of emergency supplies for all Hawaii residents from 7 days to 14 days' worth. Have you heard about this change?	Frequency	Percent	Cum. Percent	
DK	141.88	0.48%	0.48%	
No	18581.27	62.37%	62.84%	
Yes	11071.14	37.16%	100.00%	
Total	29794.29	100.00%	100.00%	

Q24. Have you or anyone in your household signed up to receive weather and other disaster-related alerts?	Frequency	Percent	Cum. Percent	
DK	756.67	2.54%	2.54%	
No	9683.11	32.50%	35.04%	
Yes	19354.51	64.96%	100.00%	
Total	29794.29	100.00%	100.00%	

Q25. Are you aware of the Kauai Emergency Management Agency's website www.kauai.gov/kema where you can access materials to better prepare your family for a large-scale disaster or emergency?	Frequency	Percent	Cum. Percent	
DK	425.64	1.44%	1.44%	
No	19011.56	64.42%	65.87%	
Yes	10073.33	34.13%	100.00%	
Total	29510.53	100.00%	100.00%	

Conducting a preparedness CASPER on Kauai allowed us to collect important data that can be utilized to inform state and county response plans, especially related to hurricane evacuation shelter operations. In addition, this was an excellent training exercise that enabled us to build a list of DOH staff, partners and volunteers with the skills necessary to conduct a CASPER post-disaster in order to determine the health and other resource needs of the community. Now that a baseline preparedness level has been established, an annual CASPER will be conducted to measure impact of preparedness efforts.