

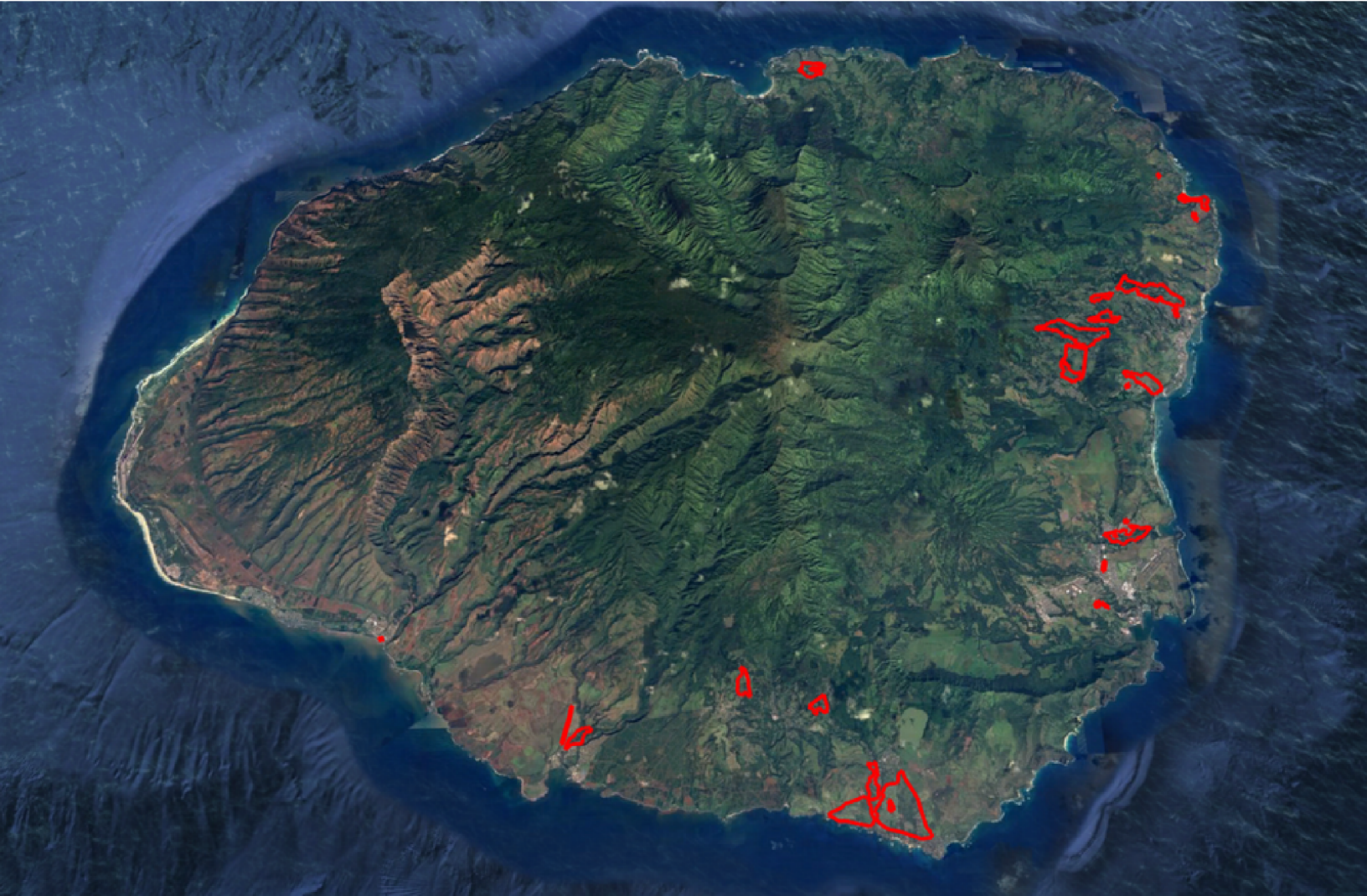
KAUAI 2023 CASPER

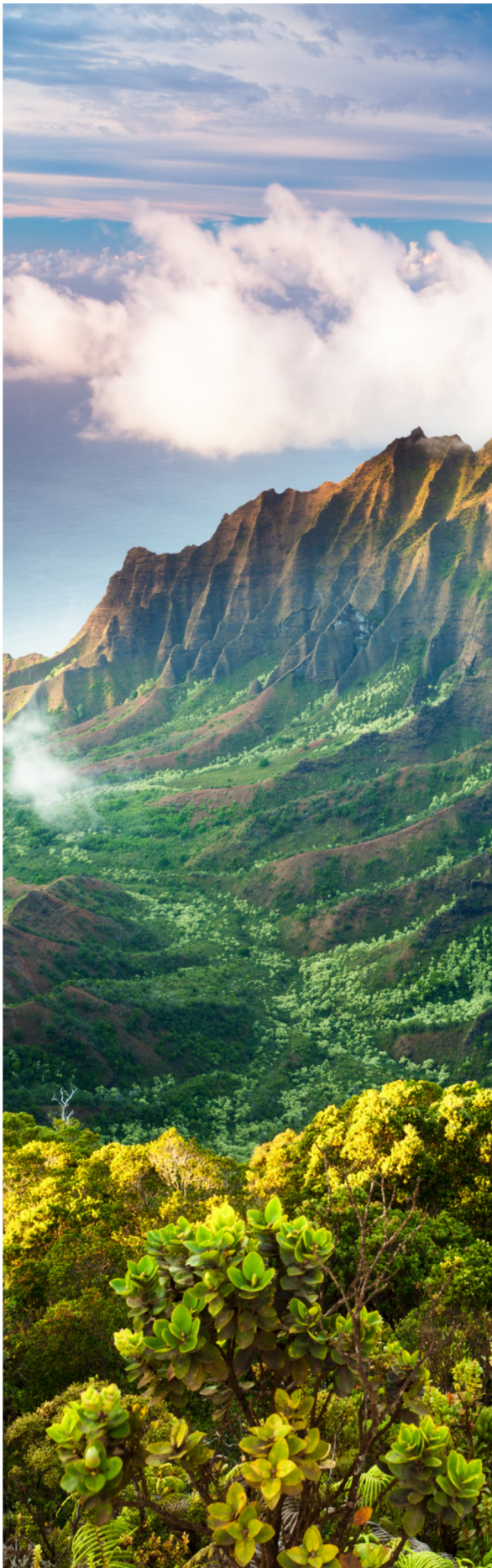
FINAL REPORT



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INTRODUCTION

Background

A community assessment for public health emergency response (CASPER) was conducted on Kauai in June 2023 by the Hawaii State Department of Health's Kauai District Health Office. CASPER is a validated two-stage cluster sampling methodology developed by the Centers for Disease Control and Prevention (CDC) to rapidly obtain information about the health and resource needs of a community. Information obtained is generalizable to the entire sampling frame, providing population-based estimates. This methodology is designed to be inexpensive, quick, and scalable, making it ideal for use in disasters.

CASPERs can also be used to establish baseline preparedness levels and build capacity to conduct CASPERs after a disaster. The Kauai District Health Office (KDHO) conducted CASPERs annually from 2017 - 2022 (excluding 2021) to monitor trends in the emergency preparedness of island residents. Several of these CASPERs also included disaster components such as evaluating impacts from a major flood event as well as the COVID-19 pandemic. Through these efforts, over 75 KDHO staff and community volunteers were trained in this rapid health needs assessment methodology. In 2023, the Kauai CASPER was supported by a half dozen Oahu staff members who flew over to assist with implementation, surveying, and analysis with the goal of building this capability statewide.



Objectives

Kauai's 2023 CASPER included an assessment of:

- 1) emergency preparedness and evacuation plans
- 2) COVID-19 impacts and vaccination coverage
- 3) awareness of local tobacco laws and cessation resources, and
- 4) general questions about life on Kauai

METHODS

CASPER Sampling Methodology

CASPER is a two-stage cluster sampling methodology. The first stage, cluster selection, begins with the determination of a sampling frame, or the area from which the sample is selected and to which the data is generalized. Once the sampling frame is determined, thirty census blocks (termed “clusters”) are randomly selected. The probability of a census block being selected is proportional to the number of housing units located within it.

The second stage of sampling, household selection, is usually completed by survey teams in the field. This stage involves systematic selection of seven households per cluster. Homes are selected by dividing the total number of housing units (occupied or total, depending on the sampling frame) in the cluster by seven (the target number of surveys per cluster) to determine each cluster’s sequence number (“n”). Survey teams then attempt to interview every “nth” house, with an ultimate target of 210 surveys (30 clusters x 7 surveys per cluster).

2023 Kauai CASPER Methodology

Cluster and Household Selection

The sampling frame for this assessment consisted of occupied housing units on the island of Kauai. 2020 census block data was used to select thirty clusters via random number generation. Kauai has a total of 1,344 census blocks, 30,157 housing units, 24,712 occupied housing units, and a population of approximately 73,000. As a major tourist destination, many housing units are not occupied by residents and are classified as “vacant” in census data. To better capture data representative of Kauai residents, cluster selection used occupied housing units rather than total housing units to reduce the likelihood of selecting clusters with primarily short-term vacation rentals, which aren't eligible for survey completion.

Census data, including census block GIS shape files, total population, total housing units, and occupied housing units (all per census block) were downloaded via the United States Census webpage. Using a random number generator between 1 and 24,712 (the total occupied households on the island), thirty households were selected, and corresponding census blocks were chosen as survey clusters. Selected cluster shapefiles were layered over Google Earth satellite images, as displayed in Figure 1.

Survey planners utilized satellite imagery and County of Kauai Real Property tax map data to pre-select households for participation. Starting points were chosen using random number generation after inconsequentially assigning numbers to households in a given cluster. Researchers used these points, along with Kauai County tax parcel shapefiles, to enumerate housing units within each cluster. Counting sequences were calculated by dividing the number of census-block specific occupied housing units by seven (referred to as “n”). Survey teams were provided with maps of each cluster, 7 primary households to survey and five potential replacement households to use if conditions for replacement were met.

Researchers continued through each cluster in a serpentine manner until seven participant households and five potential replacement households were selected. Survey teams were supplied with detailed maps of their cluster and their selected household addresses upon deployment. This methodology saved time in the field, ensured adherence to systematic household selection process, and improved efforts to include additional dwelling units (known as ‘ohana units) that are typically hidden from street view, and often missed during field enumeration processes.



Figure 1. Satellite imagery of census blocks randomly selected for survey participation.

Questionnaire

The 2023 Kauai CASPER questionnaire was developed by the Kauai District Health Officer and Deputy District Health Officer, with input from KDHO program leads, and prior-year CASPER survey team feedback. Forms were not translated into other languages, but survey teams were instructed on how to request interpreter services from the operations team. To streamline data collection, surveys were collected in the field on tablets using the EpiCollect5 application, while households followed along using a paper-based version.

Training and Survey Teams

Survey teams were comprised of Department of Health staff from Kauai and Oahu, with support from Kauai Medical Reserve Corps volunteers. All survey team members were required to attend in-person training prior to survey deployment. Teams were briefed on common safety and security issues and were provided with an interview tip sheet and COVID-19 safety protocol developed by survey planners (Appendices F and G). Teams were paired so that each team had at least one member with prior CASPER experience and (as feasible) familiarity with the assigned cluster area. While surveying, teams drove state vehicles with clearly visible decals, wore green vests identifying them as members of the “Department of Health Survey Team”, and had visible state-issued ID badges.

Community Notification

Numerous methods were utilized to notify the public of the 2023 CASPER survey, including a Hawaii Department of Health (HDOH) press release, radio advertisements, and County of Kauai social media postings. Notifications began two weeks prior to deployment to provide ample community notice. All communication emphasized the option for selected households to participate in a physically distanced outdoor interview or to complete the survey over the phone.

Survey Implementation

From June 6-9, a total of 27 survey teams conducted door-to-door surveys in the thirty randomly selected clusters. Teams were given a detailed map and list of the systematically selected households, a verbal informed consent script, a cluster-specific tracking sheet, referral forms, extra paper-based questionnaire forms, a copy of the press release describing the survey's objectives, and a tablet to collect electronic data. Copies of all documents were available for household distribution upon request and are provided in Appendices B-H. To be eligible to participate, respondents had to provide verbal consent, reside on the island at least six months per year, and be 18 or over.

Survey teams knocked on doors at selected households and offered those who were interested in participating the choice to complete the survey in a physically distanced outdoor interview or over the phone. Each survey team was assigned a burner phone to complete surveys from the car, if preferred, after obtaining verbal consent from the household. When selected households were not at home, survey teams left letters with instructions to call the survey team back to conduct their interview via phone or to decline to participate (Appendix E).

Participating households were provided drawstring backpacks with a list of important items to keep in their emergency kits, 10 COVID-19 antigen tests, thermometers, waterproof bags for storage of important documents and educational materials on COVID-19, mpox, emergency preparedness, and tobacco cessation programs (Figure 2). Households that declined to participate in the survey still received the waterproof bags for important document storage and all educational materials.



Figure 2. Materials provided to participating households by survey teams.

Data Entry and Analysis

Survey data were collected electronically via tablets using the EpiCollect5 application. Entries were uploaded upon return to the operations center. The data cleaning and analysis were done using SAS 9.4 (SAS Institute Inc., Cary, NC, USA). During analysis, each completed interview was assigned a weight based on the likelihood that household would have been selected for participation. Weighting each interview ensures the data is representative of the entire sampling frame, and results can be generalized to the island of Kauai.

RESULTS

In the thirty clusters, survey teams attempted to contact 392 households, spoke with a resident at 232 households, and ultimately completed a total of 180 interviews. Response rates are shown in Table 1, which also includes response rates from the 2017-2022 CASPERs.

Table 1. Calculated response rates for the 2023 (n=180), 2022 (n=176), 2020 (n=189), 2019 (n=186), and 2017 (n=186) CASPERs.

Response Rates		2023 (%)	2022 (%)	2020 (%)	2019 (%)	2017 (%)
Completion Rate	Represents percent of target # of surveys collected <i>(completed surveys / target surveys)</i>	85.7	83.8	90.0	88.6	88.6
Cooperation Rate	Represents the willingness of the community to participate <i>(completed surveys / total contacted eligible households)</i>	77.6	77.2	89.2	78.5	71.8
Contact Rate	Represents the proportion of households where contact was attempted and interview completed <i>(completed surveys / total attempted households)</i>	45.9	52.1	69.7	55.9	48.6

Translation services were available to teams by request. In 2023, this service was used for one household. Operations deployed a new survey team with the necessary language capabilities on the same day, allowing the survey to be completed in the household's primary language. No referral forms were completed in 2023.

Survey results are grouped by subject and summarized in data figures and tables on the following pages. Weighted frequencies with 95% confidence intervals are provided for responses with frequencies greater than 4. 2017-2022 Kauai CASPER data is included where the questions were repeated across years. Data from 2018 has been excluded, since the raw data was lost and confidence intervals cannot be calculated. The confidence interval measures the precision of the data. In the following tables and figures, weighted percentages that do not have overlapping confidence intervals are considered statistically different from each other. Additionally, the confidence intervals in the following figures are represented by horizontal grey bars.

Basic Household Information

All Kauai CASPER surveys begin by asking basic household information. In 2023, the mean and median household size was 3 (95% CI [2.96, 3.73]) and 2 (95% CI [1.83, 2.62]), respectively.

Given the vulnerability of certain age groups during disaster events and varying susceptibility to many diseases (e.g. COVID-19), surveyors asked about the ages of household members. 13% of Kauai households had at least one child under two years old and 50% of households had at least one adult over sixty-five years old (Figure 3).

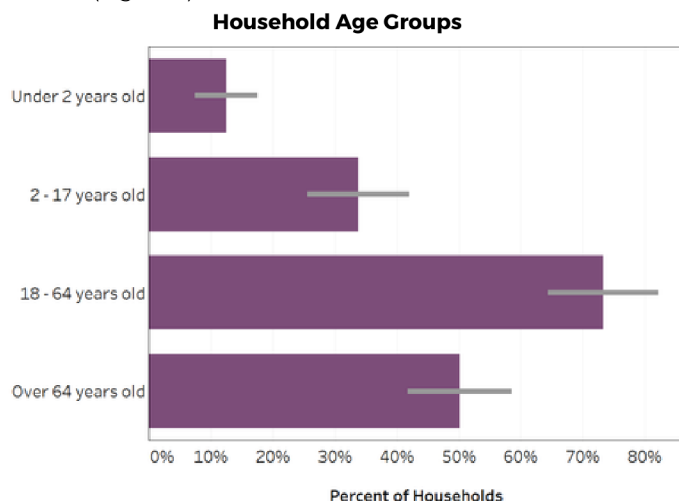


Figure 3. Percent of Kauai households with a household member(s) in each age group (n=180).

Next, surveyors asked about the primary language spoken in each household. 95% of households identified English as their primary language. Of the 5% that identified a language other than English as their primary, 2% were Ilocano, and 1% identified multiple languages. A comprehensive list of primary languages identified by households includes: English, Ilocano, Tagalog, Cebuano, Slovak, Korean, and Spanish.

In 2023, the majority of households were owner-occupied (69%), which remains consistent with observations from 2017-2022 CASPERs (Figure 4).

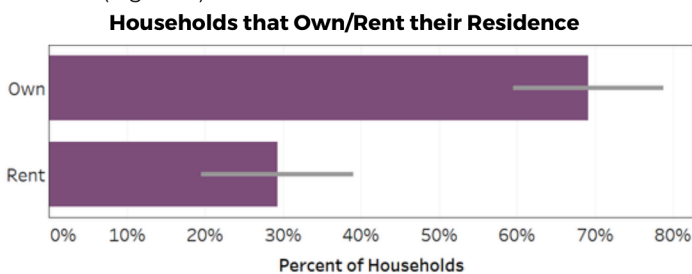


Figure 4. Percent of Kauai households who own or rent their residence (n=180).

Hawaii is an expensive place to live. The median home price on Kauai in 2022 was \$1,200,000. Many households live paycheck to paycheck during normal times and are, therefore, extremely vulnerable to financial insecurity during a disaster.

To assess financial vulnerability among residents, surveyors asked households to select a range for their 2022 combined household income. 21% of households indicated they made less than \$40,000 before taxes in 2022 (Figure 5).

The 138% federal poverty line for a Hawaii family of 3, which is often used to determine eligibility for various federal and state assistance programs, is \$39,454 for 2023.

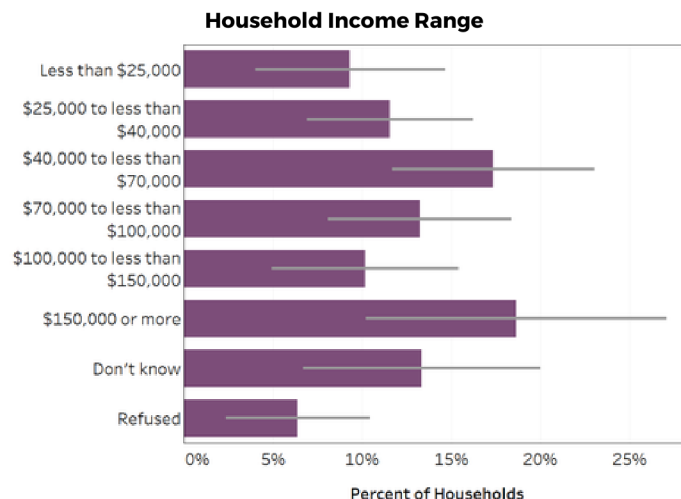


Figure 5. Percent of Kauai households in 2023 within each combined household income range before taxes (n=180).

Emergency Supplies

In 2017, the Hawaii Emergency Management Agency increased the recommendation from a 7-day to a 14-day supply of non-perishable food, water, and medication for all households. To better understand household preparedness and resource gaps, Kauai CASPERs have included questions about emergency supplies since 2017.

The majority of Kauai households (75%) had some level of emergency supply kit, including food, water, flashlights, extra batteries and other preparedness materials. Further, 84% of households had a first aid kit, 40% had an emergency generator, and 50% had an emergency radio (Figure 6). No statistically significant changes have been observed from 2017-2023.

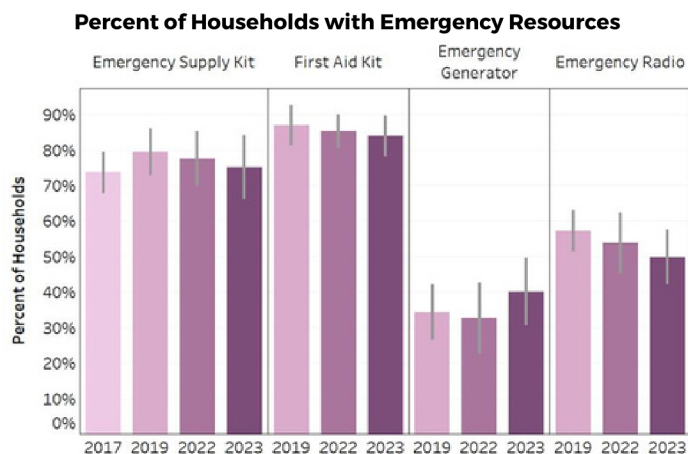


Figure 6. Percent of Kauai households with various emergency resources.

62% of Kauai households had at least one household member requiring daily prescription medication; 96% of those households had a seven-day supply and 84% of those had a 14-day supply (Figures 7 and 8).

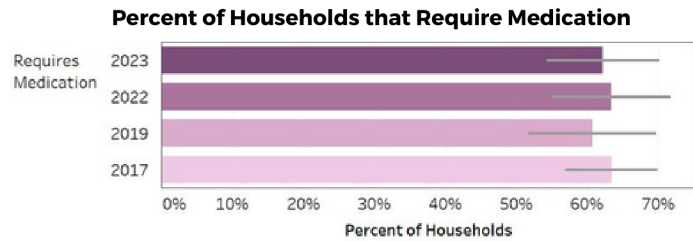


Figure 7. Percent of Kauai households with at least one household member who requires daily medication.

Percent of Households with Medication Supply for 7 and 14 Days

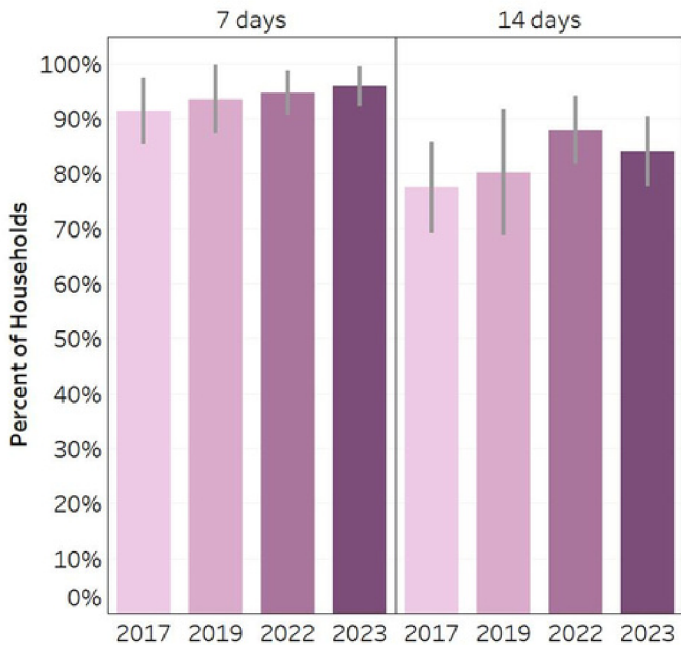


Figure 8. Among Kauai households with at least one household member requiring daily medication (n=110), percentage that have at least a 7-day and 14-day supply of medication.



Figure 9. Supplies for teams to safely conduct surveys.

90% of households had enough non-perishable food for the next three days, 69% for the next seven days, and 41% for the next fourteen days (Figure 10).

Percent of Households with Food Supply for 3, 7, and 14 Days

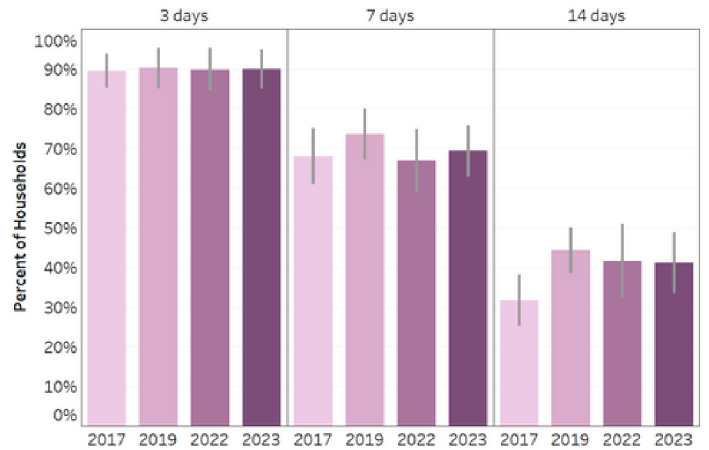


Figure 10. Percent of Kauai households with enough non-perishable food stored for 3, 7, and 14 days.

Assuming one gallon per person per day, 55% of Kauai households had enough water stored for three days, 31% for seven days, and 14% for fourteen days (Figure 11). On Kauai, only 13% [7.5, 18.4] of households met the recommendation to have a fourteen day supply of both food and water.

Percent of Households with Water Supply for 3, 7, and 14 Days

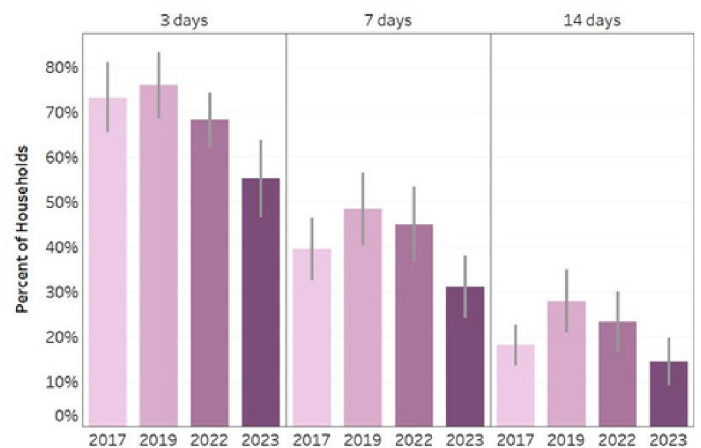


Figure 11. Percentage of Kauai households with enough water stored for 3, 7, and 14 days (assuming 1 gallon per person per day).

When asked about the main barrier to assembling an emergency kit, 67% of Kauai households indicated they face no barriers. However, the remaining households identified the following barriers: lack of knowledge regarding what is needed in a kit (10%), cost (7%), lack of time to shop for and assemble a kit (7%), and lack of storage space (5%). See Figure 12.

Main Barriers To Emergency Kit Assembly

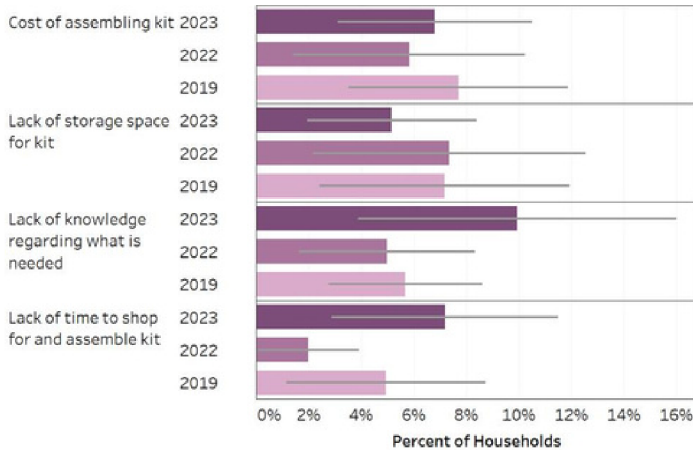


Figure 12. Percentage of households with various barriers to assembling an emergency kit in 2019, 2022, and 2023.

Emergency & Evacuation Plans

In order to inform county and state disaster planning efforts, households were asked questions regarding their emergency and evacuation plans for various types of hazards. While the majority of Kauai households had important documents in a safe location (75%) and a disaster communications plan in place (63%), less than half had a designated meeting place immediately outside their neighborhood or close by their home in the event of an emergency (45%). See Figure 13.

Household Emergency Plans

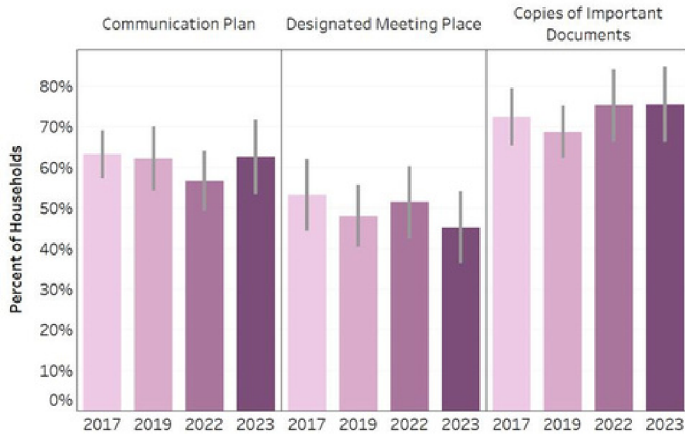


Figure 13. Percentage of Kauai households with a communication plan, designated meeting place, and copies of important documents in a safe location.

When asked what course of action they would take in the event of a tsunami warning being issued while located in a tsunami evacuation zone, the majority of households said they would evacuate inland to higher ground (89%). The remaining households said they would ignore the evacuation order (3%), didn't know what they would do (4%), or answered "other" (4%).

31% of households were not familiar with tsunami evacuation zones on Kauai. A third of those households (37%) also did not know where to find that information.

To better understand resident plans for hurricane sheltering, surveyors asked households where they would seek shelter for each category of storm. Shelter locations and household distributions are provided in Figure 14 and further detailed in table 4. Common "other" answers for shelter locations included leaving the island, going to the Hyatt or the hospital.

Household Choice of Shelter for Category 1-5 Hurricanes

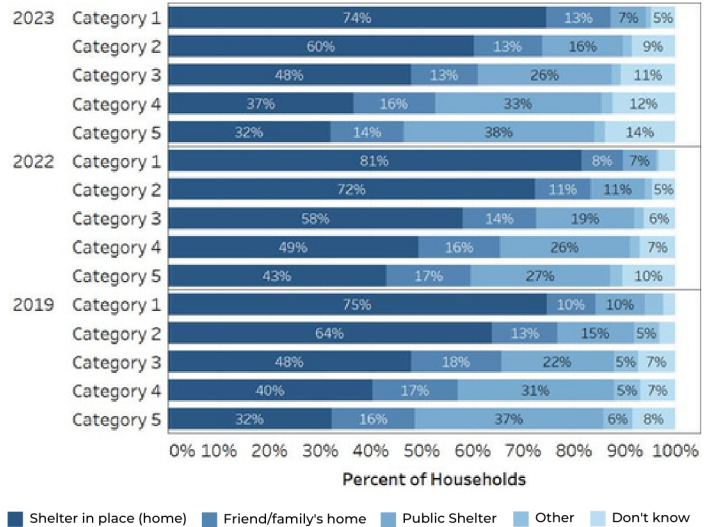


Figure 14. Percentage of Kauai households who would shelter in place, at a friend/family home, or go to a public shelter for each category of storm.

Just over 68% of Kauai households had someone who had signed up to receive weather and other disaster-related alerts. 54% of households were familiar with the Kauai Emergency Management Agency's website to access materials to better prepare for emergencies.

More than half of households (62%) indicated that they faced no barriers to emergency evacuation if advised to do so by county officials. The remaining households identified the following barriers: uncertainty about where to go (11%), concern about leaving pets (8%), and concern about leaving property vacant (4%). See Figure 15.

Main Barriers to Emergency Evacuation

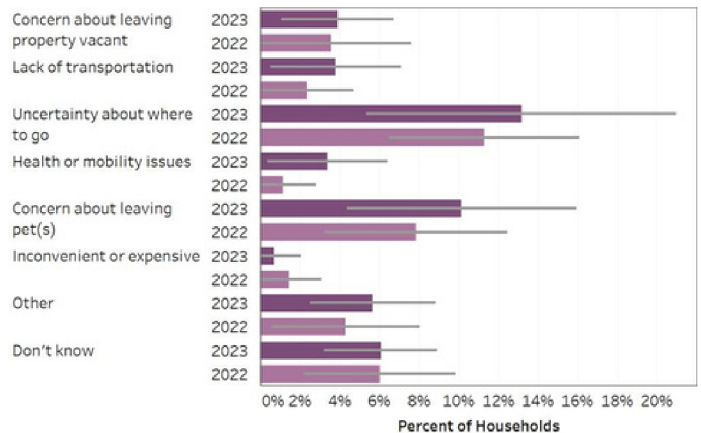


Figure 15. For households that identified a barrier to emergency evacuation (n=80), primary barriers named in 2022 and 2023.

COVID-19 Impacts & Vaccination Coverage

In 2023, 18% of households indicated that they have at least one family member who requires assistance during an emergency, such as: ADA accessible accommodations, refrigeration for essential medication, electricity for a medical device, caregiving assistance for a disability or illness, paratransit service, and/or hospital/home care bed (Figure 16). Of households with family members who require assistance, the majority feel very prepared or somewhat prepared to care for them. However, 15% reported that they are unprepared to care for their household members who require assistance during an emergency (Figures 16 and 17).

Assistance Required by Households in an Emergency

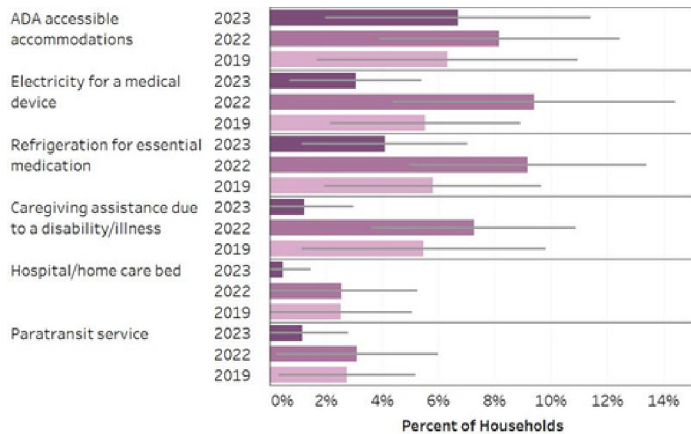


Figure 16. Households with family members that require assistance during an emergency.

Household Preparedness to Care For Member(s) that Require Assistance During an Emergency

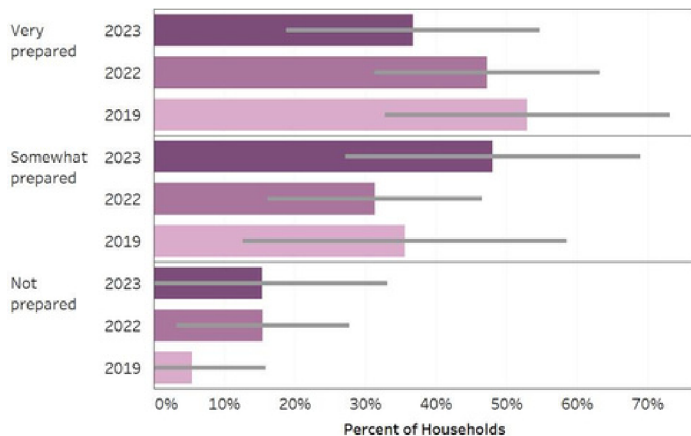


Figure 17. Percentage of households that are very prepared, somewhat prepared, and not prepared to care for its member(s) who require assistance during an emergency.



The 2020 COVID CASPER assessed the early financial and mental health impacts of the pandemic on Kauai households. The 2022 CASPER collected additional data on how households were faring almost two and half years later. The 2023 CASPER assessed how Kauai households were faring as the community emerged from the pandemic.

More than half (55%) of Kauai households remain very concerned or somewhat concerned about their household members getting sick with COVID-19. However, the percentage of households that are not concerned increased from 27% in 2020 to 44% in 2023. The observed change from 2020 to 2023 was statistically significant (Figure 18).

Household Concern of Getting Sick with COVID-19

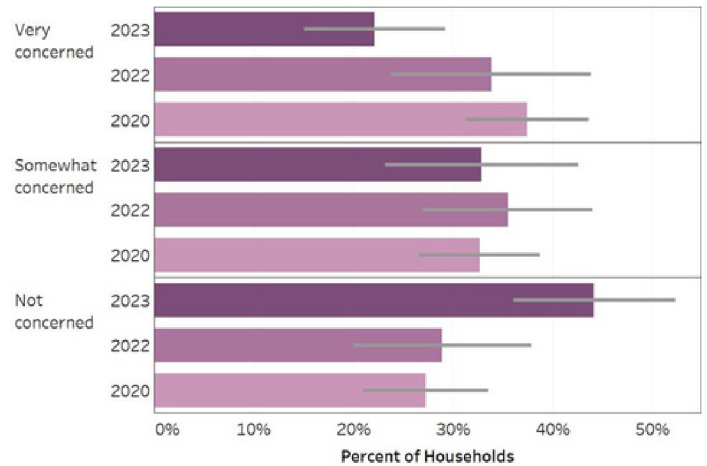


Figure 18. Percentage of households that are very concerned, somewhat concerned, and not concerned about their household member(s) getting sick with COVID-19 by year.

The majority (61%) of Kauai households reported that they continue to think it is very important (18%) or somewhat important (43%) to wear a mask indoors in places other than their home. Statistically significant differences in the percent of households that reported thinking it was very important or not important were observed between 2022 and 2023 (Figure 19).

Importance of Mask-Wearing Among Households

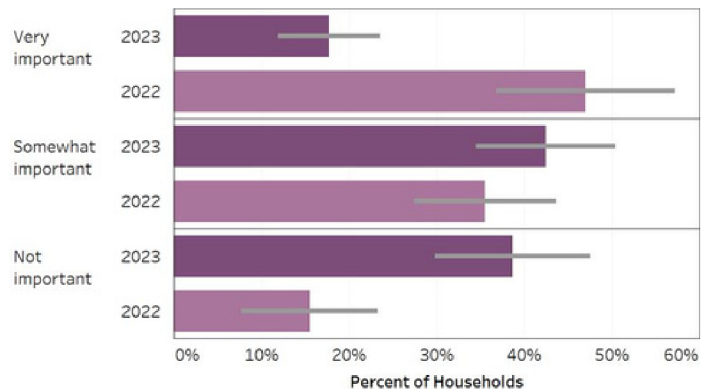


Figure 19. Percentage of Kauai households that think it is very important, somewhat important, or not important to wear a mask indoors in places other than their home in 2022 and 2023.

The majority of Kauai households reported that all (53%) or most (15%) members aged six months and older were up-to-date on their COVID-19 vaccines (Figure 20).

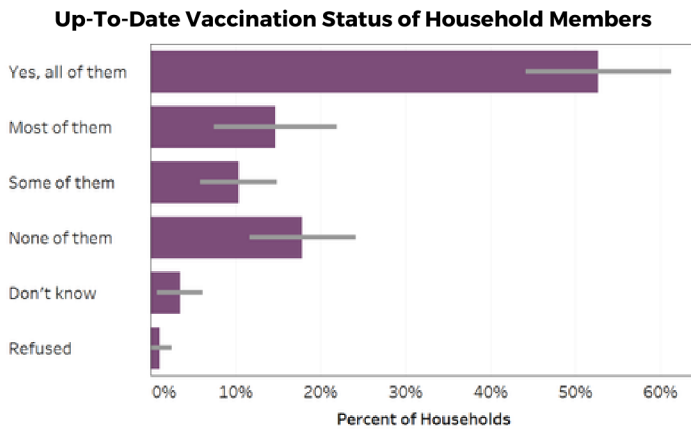


Figure 20. Proportion of households with members aged 6 months and older up-to-date on their COVID-19 vaccines.

For those household members who were not up-to-date, the primary reasons included: don't think it's necessary (31%), safety concerns (31%), and just haven't gotten around to it (13%). See Figure 21. Common "other" responses included: health-related reasons, fear of vaccine process and side effects.

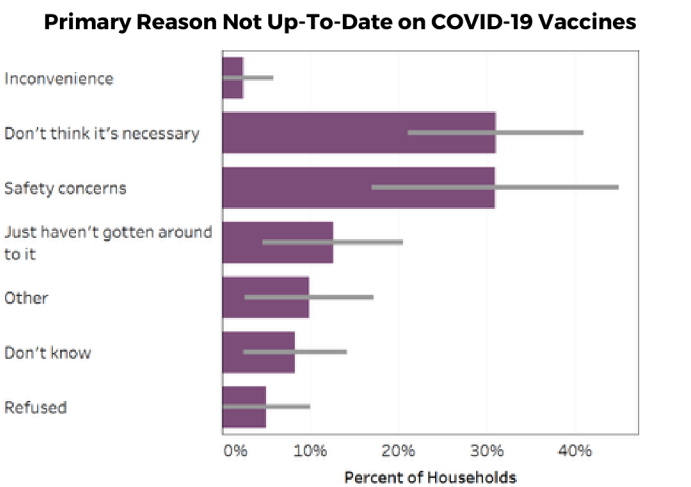


Figure 21. For households with members aged 6 months and older who are not up-to-date on COVID vaccines, the primary reason identified (n=83).

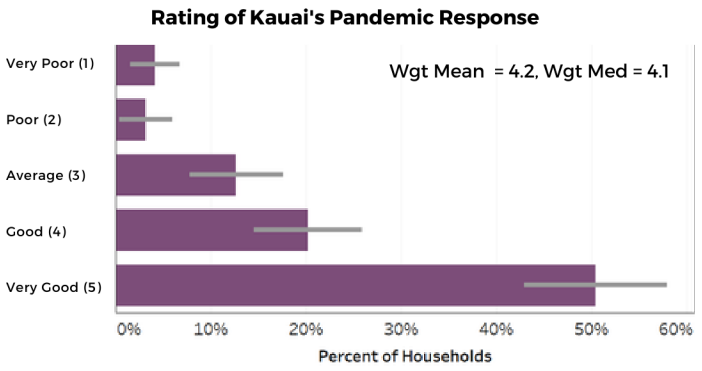


Figure 22. Kauai households' rating of Kauai's overall pandemic response on a Likert scale of 1 to 5, with 1 representing "very poor" and 5 representing "very good".

The majority of Kauai households reported that their current annual income is about the same (54%) or higher (14%) than it was pre-pandemic. Although most Kauai households seem to have returned to their pre-pandemic economic state, 23% of households reported that their current household income is a little lower (14%) or much lower (9%) than it was before COVID. This is relatively unchanged from 2022 (Figure 23).

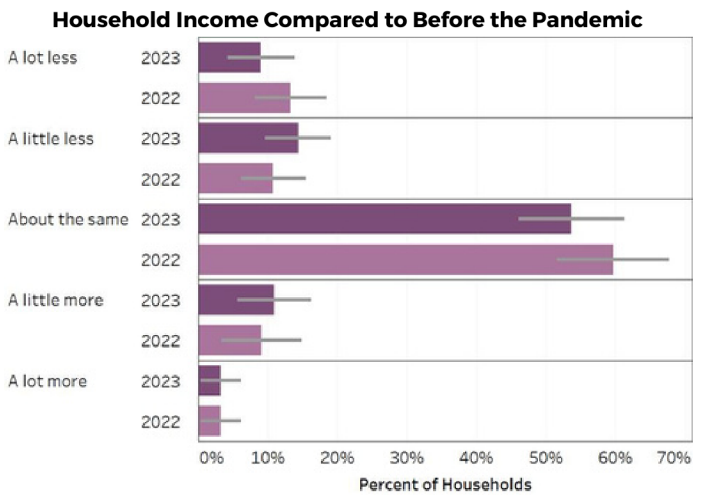


Figure 23. Percentage of Kauai households by year that reported their household income is a lot less, a little less, about the same, a little more and a lot more than before the pandemic.

General Questions About Life on Kauai

In order to track quality of life indicators over time, a general section about life on Kauai was added to the 2023 Kauai CASPER.

First, participants were asked to identify the primary challenge their household faces living on Kauai. 28% identified no challenges. The remaining households identified the following primary challenges: housing 18%, medical care 12%, food 10%, employment/salaries 8%, other 7%, traffic 5%, transportation 4%, and mental health care 3%. Fewer than five households selected childcare, education, and places to walk/play/exercise as their primary barrier so weighted percentages are not listed here.

"Other" responses included: elderly care, general cost of living (which was purposefully not a response option as it is too general), pigs, getting supplies to Kauai, and drug use in their neighborhood. See Figure 24.

Biggest Challenge Households Face Living on Kauai

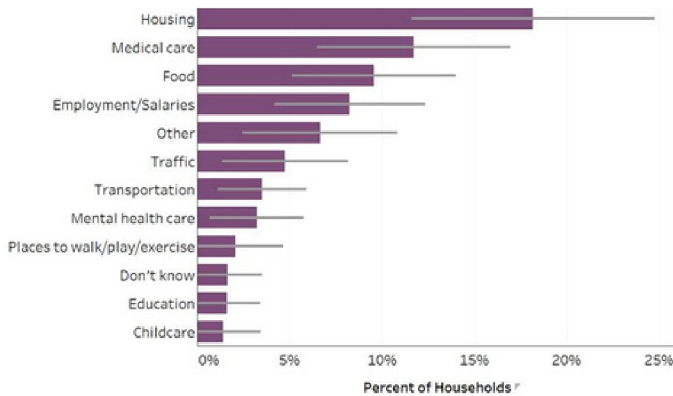


Figure 24. Primary challenge households face living on Kauai amongst those who identified a challenge (n=135)

Next, participants were asked how often in the last year their household was worried about having enough money to buy nutritious meals. 15% of households reported being sometimes concerned, usually concerned (3%), or always concerned (4%) about having enough money to buy nutritious meals. 15% of households were rarely concerned and 62% were never concerned about affording nutritious meals. See Figure 25.

Household Concern About Having Enough Money to Buy Nutritious Meals

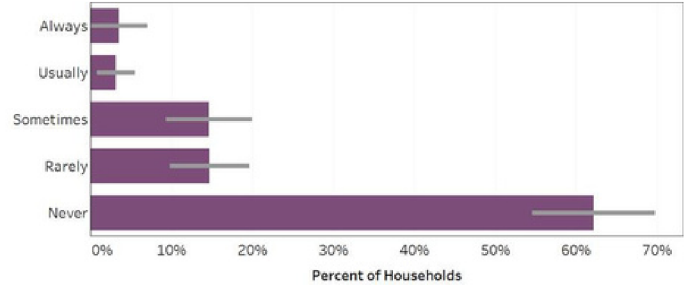


Figure 25. Percentage of Kauai households always, usually, sometimes, rarely, and never concerned about having enough money to provide nutritious meals for their household.

The majority (73%) of Kauai households reported not being concerned about paying next month's rent or mortgage. However, 17% are somewhat concerned and 7% are very concerned. This represents a slight increase from 2022 but was not statistically significant. See Figure 26.

Household Concern about Ability to Pay Next Month's Rent or Mortgage

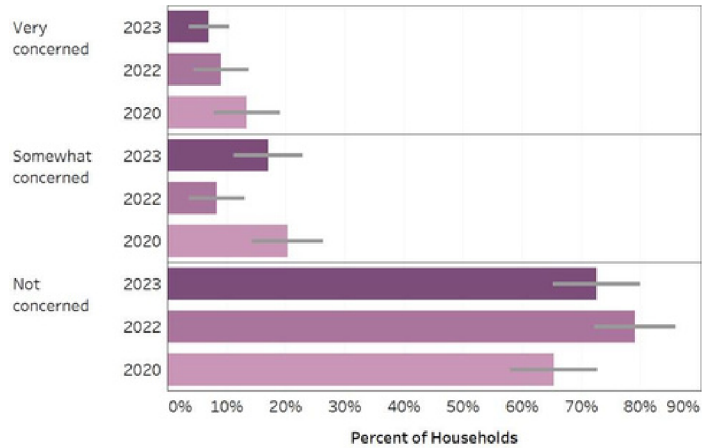


Figure 26. Percent of households concerned about paying next month's rent or mortgage in 2020, 2022, and 2023.



Household Tobacco Use

The next few survey questions assessed knowledge, attitudes, and practices around tobacco. About half (52%) of Kauai households indicated that they were not aware Kauai law prohibited smoking or vaping in vehicles with passengers under thirteen years old. Most households indicated that if Kauai parks were designated tobacco free, it would have little or no impact on their usage of those facilities (Figure 27).

Household Usage Changes if Parks Designated Tobacco-Free

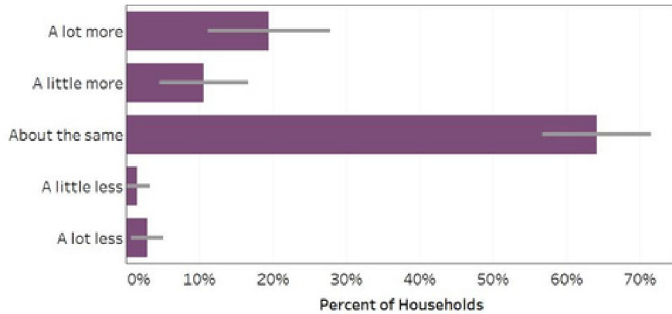


Figure 27. How designating Kauai County parks as tobacco free would affect household usage.

19% of Kauai households reported having family members that use tobacco products. Of those, the majority (74%) indicated that they are aware of tobacco cessation resources available on Kauai and that the best way for them to receive information about tobacco cessation programs are as follows: social media (32%), TV (25%), or a healthcare provider (24%). See Figure 28.

Best Way for Households to Receive Tobacco Cessation Info

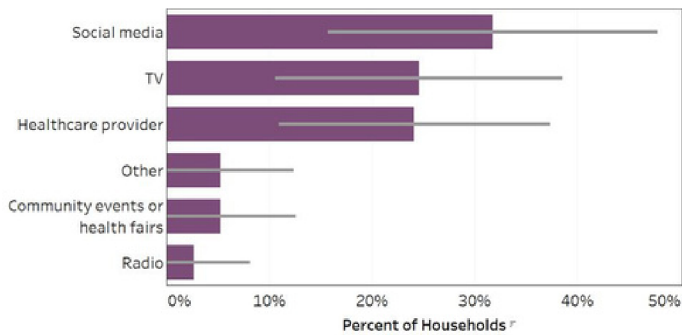


Figure 28. Of households with at least one member that uses tobacco products, the best way to receive tobacco cessation information (n=37).



DISCUSSION

Annual preparedness CASPERs from 2017 to 2019 collected valuable data about the island's residents, including health status and preparedness levels which was utilized to inform county and state emergency response plans. Preparedness CASPERs also serve as an enormous capacity building exercise for the Kauai District Health Office and partner agencies. They foster collaboration across programmatic silos and enhance community awareness of agencies and the services they provide. The development of this capability in non-emergency times facilitated the quick dispatch of survey teams to evaluate the health and economic requirements as the pandemic unfolded, both in its early days and throughout its progression.

The data collected from the six Kauai CASPERs conducted between 2017-2023 has played a vital role in shaping state and county emergency response plans and operations. The ultimate goal is to enhance the Department of Health and the County of Kauai's ability to effectively address the community's health and resource needs in the aftermath of disaster. The following sections provide a comprehensive overview of trends, changes over time, and final recommendations based on the collected data.

Changes, Trends, and Predictors

Where possible, this report analyzes changes over time for questions that were assessed in the same way year-over-year.

Emergency Preparedness and Evacuation Plans

Monitoring community progress on indicators such as emergency supplies, evacuation plans, and communication sources enables emergency management partners to assess gaps, prioritize limited resources, and evaluate the impact of county, state, and non-profit efforts in fostering a well-informed and prepared community for all types of hazards.

In 2017, the Hawaii Emergency Management Agency changed the recommendation from a 7-day to a 14-day supply of food, water, and prescription medications for all households in Hawaii. This was done in recognition of the challenges to emergency response and recovery posed by the geographic isolation of the State of Hawaii and the corresponding increased time for federal emergency response resources to reach the state.

Improvements in household storage of food and water were initially observed between 2017 and 2019, immediately after the change in the statewide recommendation. However, declines in household food and water storage were observed between 2019 to 2023 (Figure 29). These changes for combined food and water preparedness were not statistically significant. However, when water and food preparedness are examined separately, statistically significant declines in water preparedness were observed between 2019 and 2023 for 3-day, 7-day, and 14-day supplies (Figure 11). During that timeframe, food preparedness stayed relatively static.

Percent of Households with Both Water and Food Supplies

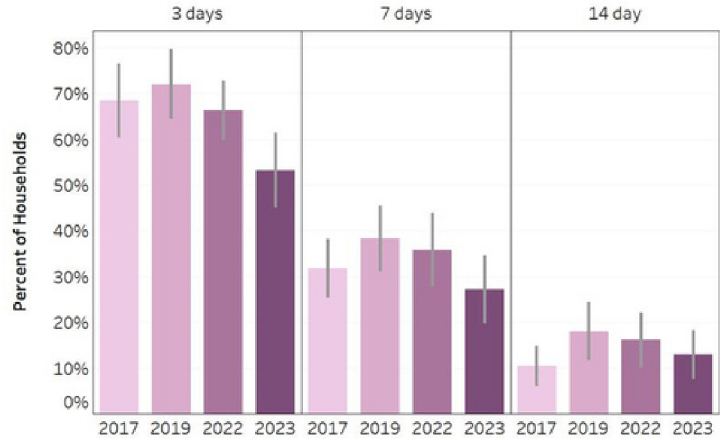


Figure 29. Percentage of Kauai households with enough food and water stored for 3, 7, and 14 days (assuming 1 gallon per person per day).

Since 2017, the percentage of households equipped with various emergency supplies (e.g. emergency supply kit, first aid kit, emergency generator, emergency radio) has remained stagnant. Additionally, there have been no significant changes in the barriers households face when assembling emergency supplies. Many households just haven't gotten around to doing so. In addition to gathering data on emergency supplies, Kauai CASPERs have obtained vital information regarding the emergency and evacuation plans of Kauai residents.

Year-over-year, the percentage of households who have emergency communication plans (63%), designated emergency meeting points (45%), and copies of important documents in a safe location (75%) has remained static from 2017 to 2023. The percentage of households familiar with the Kauai Emergency Management Agency's (KEMA) website increased substantially over the years (in 2017, only 34% of households were familiar with this resource compared to 49% in 2019, 80% in 2020, and 56% in 2022) but has now leveled off at 54% in 2023. It's noteworthy that the gains observed during COVID, when this was the primary communication tool, were not sustained, and familiarity declined significantly from 2020 to 2022, remaining static from 2022 to 2023.

In 2019, household evacuation plans were assessed for each hurricane category, revealing a clear trend: as the category of storm increases, the percentage of households intending to seek public shelter increases substantially. This trend was observed, again, during the 2022 CASPER. However, the percentage of households that planned to seek public shelter for each category of storm decreased across the board compared to 2019, likely due to concerns about possible exposure to COVID-19 in a crowded, public shelter. In 2023, numbers returned to the pre-pandemic levels from 2019 (Table 5 / Figure 14). This is consistent with the decreases observed in the percentage of households who reported being very concerned about getting sick with COVID-19 from 2022 to 2023 (Figure 18).

COVID-19 Pandemic Impacts

The 2023 CASPER repeated several pandemic-focused questions asked in 2020 and/or 2022. Overall trends showed decreased concern about COVID-19 on Kauai. Compared to 2020 responses, more households reported being not concerned about getting sick with COVID-19 (27% in 2020 compared to 44% in 2023). These changes were not statistically significant but indicate a strong downward trend (Figure 18). The percentage of households that think it is very important to wear masks indoors in places other than their home declined from 47% in 2022 to 18% in 2023 (Figure 19). This decline was statistically significant.

These changes are consistent with the considerable shift in the pandemic landscape from April 2020 to June 2023. Given the release of multiple COVID-19 vaccines and treatments, alongside the decline in COVID-19 infection and hospitalization rates, it is reasonable to expect decreased levels of concern regarding COVID-19.

The analysis examined household beliefs regarding the importance of wearing masks in indoor places other than their homes across household concern with getting sick with COVID-19 (Table 11). To dichotomize the responses, those that answered "Very" to "Somewhat" or "Not" for both variables were compared. The prevalence of being very concerned with COVID-19 is 3.9 times higher (95% CI [2.2, 7.0]) among households that believe it is very important to wear a mask versus those that believe it is somewhat or not important to wear a mask. This ratio was statistically significant.

Table 11. Contingency table that compares survey responses of masking importance by concern about getting sick with COVID-19. Unweighted frequencies shown with weighted row percentages. A weighted prevalence ratio is included to show how much more likely households were to give a response given another response.

Masking Importance x Concern of COVID-19				
Masking Importance	Concern of COVID-19			
		Very	Somewhat / Not	Total
	Very	19 (58.2%)	14 (41.8%)	33 (100%)
Somewhat / Not	21 (14.9%)	123 (85.1%)	144 (100%)	

Prevalence Ratio: 3.9 (2.2, 7.0)

Most Kauai households reported that their current annual income is about the same (54%) or higher (9%) than it was pre-pandemic. This is supported by the continued decline observed in the percentage of households who are very concerned (13% in 2020 to 9% in 2022 to 7% in 2023) about their ability to pay the next month's rent or mortgage. However, the percentage of households reporting being somewhat concerned about paying the next month's rent or mortgage increased to 17% in 2023 (from 8% in 2022) but was not statistically significant. This trend should be carefully monitored and could be the result of the termination of many COVID-19 relief programs. Alternatively, it could represent national economic changes and the impacts of inflation.

Recommendations

1. Six years after the state increased the recommendation from a 7-day to a 14-day supply of food and water for all Hawaii households, there has been no statistically significant improvement in the percentage of households meeting this recommendation. As of June 2023, only 13% of households have the recommended 14-day supply of both food and water.

Additional statewide educational campaigns are needed to increase awareness of the 14-day recommendation, including practical solutions to address barriers identified by residents. Messaging should emphasize the urgency of household preparedness, by helping provide realistic expectations for the timeliness of state and federal disaster response in Hawaii. However, for some households, the barriers in assembling supplies at this level are too significant to overcome. To bridge this gap, emergency management partners ought to explore the establishment of public/private partnerships to facilitate the creation of community emergency supply caches.

2. The percentage of Kauai households planning to evacuate to public shelters increases as the category of storm increases. In 2023, over 30% of households intend to seek shelter in a public facility during category 4 or 5 storms, showing an increase from approximately 25% in 2022 and aligning with pre-pandemic levels seen in 2019. County shelters are unequipped to accommodate the anticipated demand for category 4 and 5 hurricanes. Public shelters in Hawaii serve as a last resort, offering some protection for those without safer options, but most public shelters are not built to withstand major hurricanes.

Additional planning with ESF-6 mass care partners is needed to determine how to accommodate the volume of residents who plan to evacuate to public shelters during major hurricane events. Statewide education efforts should emphasize sheltering-in-place versus evacuating to public shelters for those who can safely do so. This ensures limited public shelter space is allocated to those who need it most. Moreover, the state should consider offering tax incentives to households and businesses that choose to reinforce the structural integrity of their homes/facilities. Such measures reduce reliance on public shelters while fostering individual resilience and preparedness.

Percent of Households Evacuating to Public Shelter by Storm Category

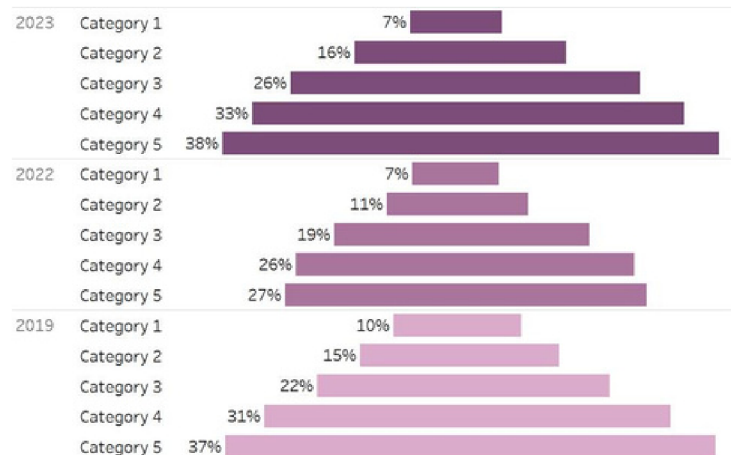


Figure 30. Percent of households that would evacuate to a public shelter for 2023 (n=180), 2022 (n=176) and 2019 (n=186).

3. The percentage of Kauai households who are very concerned or somewhat concerned about their ability to pay the next month's rent/mortgage increased from 17% in July 2022 to 24% in 2023. The majority of Kauai households reported that their current annual income is about the same (54%) or higher (14%) than it was pre-pandemic. Although most Kauai households seem to have returned to their pre-pandemic economic state, 23% reported that their current household income is lower than it was pre-pandemic.

The abrupt end of federal and state assistance, the volatile housing market, and rampant inflation has left a small percentage of Kauai households in a difficult economic position. Sustaining ongoing collaborations with residents is critical to ensure access to available support services (e.g. food banks, WIC/SNAP, section 8 housing). However, escalating cost-of-living (especially housing) is a nationwide issue and continued work with county, state, and federal policy-makers is needed.

4. Kauai households were asked to rate Kauai's response to the pandemic on a Likert scale of 1 to 5 with 1 representing "very poor" and 5 representing "very good". The majority of households (51%) reported Kauai's government response as "very good", followed by 20% of households rating it as "good". This built upon Kauai CASPER 2022 efforts to assess the community's perception of our COVID-19 response in several key areas.

CASPERs are typically used as an emergency response/recovery tool or to assess emergency preparedness. While government entities and their partners often perform internal hotwashes and after-action reports to improve future responses, this process rarely includes an opportunity for the affected community to provide input. Jurisdictions should consider using CASPERs as assessment tools in the post-recovery phase of response efforts.

5. 28% of Kauai households identified no primary challenge to living on Kauai. The remaining 72% of respondents reported the following primary challenges: housing (18%), medical care (12%), food (10%), employment (8%), traffic (5%), and transportation (4%).

By examining the relationship between housing and the percentage of Kauai households that identify traffic, transportation, and employment as their biggest challenge, strong evidence emerges to support the county's ongoing focus on affordable housing development and workforce housing projects in areas where jobs are located. This integrated approach addresses several challenges simultaneously. The County's current focus on smart growth and walkable, sustainable communities is well-supported by this data.

6. Kauai law bans smoking or vaping in a vehicle with occupants under 13-years-old (Section 22-8, Kauai County Code). While this law has been in place since 2016, less than half (46%) of households were aware of it.

Further education is needed on Section 22-8 of the Kauai County Code to ensure young children are protected from exposure to harmful chemicals.

Households were also asked how designating Kauai parks as tobacco free would affect their park use. While the majority of households (64%) reported that designating Kauai parks tobacco free would not change how often they would visit, 30% reported that the measure would cause them to visit parks a little (11%) or a lot (20%) more often. Just 3% of households reported that banning tobacco use in parks would cause them to visit less.

This indicates that households would be supportive of the County of Kauai aligning with other Hawaii counties in designating parks as tobacco free.

Limitations

CASPER methodology is based on the systematic selection of households within 30 randomly selected census blocks. For the purposes of the 2023 Kauai CASPER, 2020 U.S. Census Bureau data was used as the most recent data available. The island of Kauai has experienced notable growth since the 2020 census was conducted. Changes to the overall number, composition, and geographic location of occupied housing units is not reflected in the data used for census block and household selection processes.

Additionally, survey teams had to replace some systematically selected households after three attempts with no answer, household refusal, household inaccessibility, or household ineligibility (not a Kauai resident). Replacement of selected households could affect the representativeness of the data.

Certain high-risk groups, particularly houseless individuals and those living in congregate settings such as long-term care and correctional facilities, are excluded by CASPER's census block and household selection method. These individuals have greater resource needs and potentially different barriers than those living in residential settings better captured by census block data. Emergency planners should take this into account when using this data to inform planning efforts and emergency response operations.

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APPENDIX A: DATA TABLES

Table 2. Basic household information questions of the 2023 CASPER (n=180)

Response	Frequency	Weighted Frequency	Weighted Percent	95% Confidence Limits	
<i>Does your household own or rent this residence?</i>					
Own	122	17087	69.1	59.5	78.8
Rent	55	7233	29.3	19.5	39.0
Other	0	.	.	.	.
Don't know	1	137	0.6	0.0	1.7
Refused	2	255	1.0	0.0	2.5
<i>Percentage of households with at least one member in each age group...</i>					
Under 2 years old	23	3093	12.5	7.5	17.6
2 - 17 years old	64	8349	33.8	25.6	42.0
18 - 64 years old	134	18112	73.3	64.4	82.2
Over 64 years old	86	12391	50.1	41.7	58.5
<i>What is the main language spoken in your household?</i>					
English	170	23421	94.8	91.3	98.2
Spanish	1	165	0.7	0.0	2.0
Ilocano	4	490	2.0	0.1	3.9
Korean	1	118	0.5	0.0	1.5
Slovak	1	118	0.5	0.0	1.5
Cebuano	1	165	0.7	0.0	2.0
Multi	2	235	1.0	0.0	2.3
<i>Which range best describes your annual household income from all sources (before taxes) in 2022?</i>					
Less than \$25,000	18	2303	9.3	4.0	14.7
\$25,000 to less than \$40,000	21	2856	11.6	6.9	16.2
\$40,000 to less than \$70,000	34	4291	17.4	11.7	23.0
\$70,000 to less than \$100,000	25	3271	13.2	8.1	18.4
\$100,000 to less than \$150,000	16	2510	10.2	4.9	15.4
\$150,000 or more	29	4607	18.6	10.2	27.1
Don't know	25	3297	13.3	6.7	20.0
Refused	12	1577	6.4	2.3	10.4

Table 3. Emergency special assistance questions of the 2023 CASPER (n=180) with results from 2022 (n=179), and 2019 (n=186) for comparison

Year	Response	Frequency	Weighted Frequency	Weighted Percent (%)	95% Confidence Limits	
<i>Do you or any of your household member requires assistance during an emergency? (check all that apply)</i>						
2023	ADA accessible accommodations	11	1651	6.7	2.0	11.4
	Refrigeration for essential medication	8	1008	4.1	1.1	7.0
	Electricity for a medical device	6	753	3.0	0.7	5.4
	Caregiving assistance for a disability or illness	2	.	.	.	.
	Paratransit service	2	.	.	.	.
	Hospital/home care bed	1	.	.	.	.
	None of the above	147	20205	81.8	76.8	86.7
	Don't know	3	.	.	.	.
2022	ADA accessible accommodations	14	2016	8.2	3.9	12.4
	Refrigeration for essential medication	16	2265	9.2	4.9	13.4
	Electricity for a medical device	16	2322	9.4	4.4	14.4
	Caregiving assistance for a disability or illness					10.9
	Paratransit service	6	765	3.1	0.2	6.0
	Hospital/home care bed	5	628	2.5	0.0	5.3
	None of the above	134	18748	75.9	69.0	82.7
	Don't know	0				
2019	ADA accessible accommodations	11	1463	6.3	1.7	10.9
	Refrigeration for essential medication	11	1343	5.8	1.9	9.7
	Electricity for a medical device	11	1279	5.5	2.1	8.9

Table 3. Emergency special assistance questions of the 2023 CASPER (n=180) with results from 2022 (n=179), and 2019 (n=186) for comparison, Cont.

Year	Response	Frequency	Weighted Frequency	Weighted Percent (%)	95% Confidence Limits	
	Caregiving assistance for a disability or illness	9	1268	5.5	1.1	9.8
	Paratransit service	5	636	2.7	0.3	5.2
	Hospital/home care bed	4	.	.	.	.
	None of the above	155	19344	83.5	77.4	89.6
	Don't know	2	.	.	.	.
<i>If yes, how prepared is your household to care for its member(s) that require assistance during an emergency? (n=29)</i>						
2023	Very prepared	10	1467	36.7	18.8	54.6
	Somewhat prepared	15	1918	48.0	27.1	68.9
	Not prepared	4	612	15.3	0.0	33.1
	Don't know	0	.	.	.	.
2022	Very prepared	19	2760	47.2	31.2	63.2
	Somewhat prepared	13	1832	31.3	16.1	46.6
	Not prepared	6	902	15.4	3.1	27.7
	Don't know	3	.	.	.	.
2019	Very prepared	16	1896	52.9	32.6	73.2
	Somewhat prepared	10	1275	35.6	12.5	58.6
	Not prepared	1	.	.	.	.
	Don't know	2	.	.	.	.

Table 4. Emergency supply questions of the 2023 CASPER (n=180) with results from 2022 (n=179), 2019 (n=186) and 2017 (n=186) for comparison, Cont.

Year	Response	Frequency	Weighted Frequency	Weighted Percent (%)	95% Confidence Limits	
<i>Does your household have the following emergency supplies...</i>						
Emergency Supply Kit						
2023	Yes	139	18558	75.1	66.2	84.0
	No	38	5801	23.5	14.6	32.4
	Don't Know	2	.	.	.	.
	Refused	1	.	.	.	.
2022	Yes	132	19148	77.5	69.8	85.2
	No	41	5191	21.0	13.4	28.6
	Don't know	2	.	.	.	.
	Refused	1	.	.	.	.
2019	Yes	147	18405	79.4	72.9	86.0
	No	35	4304	18.6	12.0	25.2
	Don't know	4	.	.	.	.
	Refused	0	.	.	.	.
2017	Yes	137	21773	73.6	67.8	79.5
	No	47	7654	25.9	20.0	31.8
	Don't know	1	.	.	.	.
	Refused	0	.	.	.	.
First Aid Kit						
2023	Yes	150	20740	83.9	78.2	89.7
	No	28	3736	15.1	9.7	20.5
	Don't Know	1	.	.	.	.
	Refused	1	.	.	.	.
2022	Yes	148	21050	85.2	80.3	90.0
	No	27	3456	14.0	9.1	18.9
	Don't know	1	.	.	.	.
	Refused	0	.	.	.	.
2019	Yes	161	20135	86.9	81.2	92.6
	No	21	2529	10.9	5.5	16.4
	Don't know	4	.	.	.	.
	Refused	0	.	.	.	.

Table 4. Emergency supply questions of the 2023 CASPER (n=180) with results from 2022 (n=179), 2019 (n=186) and 2017 (n=186) for comparison, Cont.

Year	Response	Frequency	Weighted Frequency	Weighted Percent (%)	95% Confidence Limits	
Emergency Generator						
2023	Yes	73	9899	40.1	30.5	49.6
	No	102	14205	57.5	47.9	67.1
	Don't Know	4	.	.	.	.
	Refused	1	.	.	.	.
2022	Yes	58	8061	32.6	22.6	42.6
	No	118	16651	67.4	57.4	77.4
	Don't know	0	.	.	.	.
	Refused	0	.	.	.	.
2019	Yes	62	7944	34.3	26.5	42.1
	No	116	14001	60.4	51.6	69.3
	Don't know	8	1223	5.3	1.2	9.3
	Refused	0	.	.	.	.
Emergency Radio						
2023	Yes	91	12305	49.8	42.1	57.5
	No	78	10960	44.3	36.7	52.0
	Don't Know	10	1330	5.4	2.0	8.7
	Refused	1	.	.	.	.
2022	Yes	93	13288	53.8	45.2	62.3
	No	81	11169	45.2	36.9	53.5
	Don't know	2	.	.	.	.
	Refused	0	.	.	.	.
2019	Yes	107	13261	57.2	51.4	63.1
	No	75	9333	40.3	34.5	46.0
	Don't know	4	.	.	.	.
	Refused	0	.	.	.	.
What main barrier does your household face in assembling an emergency kit?						
2023	No barrier (kit assembled)	65	8730	35.3	28.1	42.6
	No barrier (hasn't gotten around to it)	56	7822	31.7	22.1	41.2
	Cost of assembling kit	13	1683	6.8	3.1	10.5
	Lack of storage space for kit	10	1275	5.2	1.9	8.4
	Lack of knowledge regarding what's needed in kit	17	2457	9.9	3.9	16.0
	Lack of time to shop for & assemble kit	12	1777	7.2	2.9	11.5
	Other	0	.	.	.	.
	Don't know	7	969	3.9	0.8	7.1
	Refused	0	.	.	.	.
2022	No barrier (kit assembled)	86	12466	50.4	40.3	60.6
	No barrier (hasn't gotten around to it)	48	6286	25.4	17.9	33.0
	Cost of assembling kit	11	1442	5.8	1.4	10.2
	Lack of storage space for kit	12	1818	7.4	2.2	12.6
	Lack of knowledge regarding what's needed in kit	8	1232	5.0	1.6	8.3
	Lack of time to shop for & assemble kit	4	.	.	.	.
	Other	2	.	.	.	.
	Don't know	5	696	2.8	0.0	5.7
	Refused	0	.	.	.	.
2019	No barrier (kit assembled)	79	9595	41.4	32.0	50.8
	No barrier (hasn't gotten around to it)	43	5752	24.8	15.6	34.1
	Cost of assembling kit	15	1783	7.7	3.5	11.9
	Lack of storage space for kit	13	1662	7.2	2.4	11.9
	Lack of knowledge regarding what's needed in kit	11	1317	5.7	2.8	8.6
	Lack of time to shop for & assemble kit	9	1146	4.9	1.2	8.7
	Other	1	.	.	.	.

Table 4. Emergency supply questions of the 2023 CASPER (n=180) with results from 2022 (n=179), 2019 (n=186) and 2017 (n=186) for comparison, Cont.

Year	Response	Frequency	Weighted Frequency	Weighted Percent (%)	95% Confidence Limits	
<i>Does your household have enough water stored for the next...</i>						
3 days						
2023	Yes	102	13643	55.2*	46.6	63.8
	No	75	10697	43.3	34.8	51.8
	Don't Know	2	.	.	.	.
	Refused	1	.	.	.	.
2022	Yes	120	16857	68.2	62.1	74.3
	No	54	7572	30.6	24.3	37.0
	Don't know	2	.	.	.	.
	Refused	0	.	.	.	.
2019	Yes	146	17603	76.0	68.7	83.3
	No	39	5411	23.4	16.2	30.5
	Don't know	1	.	.	.	.
	Refused	0	.	.	.	.
2017	Yes	136	21930	73.2	65.4	81.0
	No	50	7865	26.3	18.7	33.8
	Don't know	1	.	.	.	.
	Refused	0	.	.	.	.
7 days						
2023	Yes	59	7674	31.1*	24.1	38.0
	No	111	15482	62.7	55.5	69.8
	Don't Know	9	1438	5.8	2.0	9.7
	Refused	1	.	.	.	.
2022	Yes	78	11118	45.0	36.5	53.4
	No	93	12762	51.6	43.0	60.3
	Don't know	5	832	3.4	0.0	7.2
	Refused	0	.	.	.	.
2019	Yes	94	11196	48.3	40.2	56.4
	No	89	11535	49.8	42.8	56.7
	Don't know	3	.	.	.	.
	Refused	0	.	.	.	.
2017	Yes	75	11764	39.5	32.6	46.5
	No	111	17997	60.5	53.5	67.4
	Don't know	0	.	.	.	.
	Refused	0	.	.	.	.
14 days						
2023	Yes	27	3570	14.4*	9.1	19.8
	No	144	19823	80.2	73.9	86.5
	Don't Know	8	1202	4.9	1.7	8.0
	Refused	1	.	.	.	.
2022	Yes	40	5750	23.3	16.5	30.0
	No	126	17406	70.4	62.9	78.0
	Don't know	10	1555	6.3	2.0	10.6
	Refused	0	.	.	.	.
2019	Yes	54	6461	27.9	20.9	34.9
	No	125	15790	68.2	61.9	74.4
	Don't know	7	917	4.0	0.7	7.2
	Refused	0	.	.	.	.
2017	Yes	35	5387	18.1	13.6	22.6
	No	151	24375	81.9	77.4	86.4
	Don't know	0	.	.	.	.
	Refused	0	.	.	.	.

Table 4. Emergency supply questions of the 2023 CASPER (n=180) with results from 2022 (n=179), 2019 (n=186) and 2017 (n=186) for comparison, Cont.

Year	Response	Frequency	Weighted Frequency	Weighted Percent (%)	95% Confidence Limits	
<i>Does your household have enough non-perishable food stored for the next...</i>						
3 days						
2023	Yes	162	22258	90.1	85.2	94.9
	No	17	2336	9.5	4.7	14.2
	Don't Know	1	.	.	.	.
	Refused	0	.	.	.	.
2022	Yes	156	22231	90.0	84.5	95.4
	No	20	2481	10.0	4.6	15.5
	Don't know	0	.	.	.	.
	Refused	0	.	.	.	.
2019	Yes	168	20932	90.3	85.3	95.4
	No	17	2126	9.2	4.3	14.1
	Don't know	1	.	.	.	.
	Refused	0	.	.	.	.
2017	Yes	166	26737	89.7	85.4	93.9
	No	19	2939	9.9	5.5	14.2
	Don't know	1	.	.	.	.
	Refused	0	.	.	.	.
7 days						
2023	Yes	124	17151	69.4	63.0	75.9
	No	50	6768	27.4	20.9	33.9
	Don't Know	6	792	3.2	0.7	5.7
	Refused	0	.	.	.	.
2022	Yes	114	16543	66.9	58.9	75.0
	No	54	7072	28.6	21.0	36.3
	Don't know	8	1096	4.4	1.2	7.6
	Refused	0	.	.	.	.
2019	Yes	138	17063	73.6	67.2	80.1
	No	44	5645	24.4	18.7	30.0
	Don't know	4	.	.	.	.
	Refused	0	.	.	.	.
2017	Yes	122	20099	68.1	61.0	75.1
	No	61	9293	31.5	24.5	38.5
	Don't know	1	.	.	.	.
	Refused	0	.	.	.	.
14 days						
2023	Yes	72	10169	41.2	33.5	48.8
	No	100	13543	54.8	47.4	62.2
	Don't Know	8	1000	4.0	1.0	7.1
	Refused	0	.	.	.	.
2022	Yes	71	10289	41.6	32.3	51.0
	No	92	12611	51.0	42.7	59.4
	Don't know	13	1812	7.3	3.1	11.5
	Refused	0	.	.	.	.
2019	Yes	82	10271	44.3	38.6	50.1
	No	93	11601	50.1	44.7	55.5
	Don't know	11	1297	5.6	2.8	8.4
	Refused	0	.	.	.	.
2017	Yes	58	9295	31.7	25.3	38.1
	No	124	19792	67.5	61.5	73.5
	Don't know	1	.	.	.	.
	Refused	0	.	.	.	.

Table 4. Emergency supply questions of the 2023 CASPER (n=180) with results from 2022 (n=179), 2019 (n=186) and 2017 (n=186) for comparison, Cont.

Year	Response	Frequency	Weighted Frequency	Weighted Percent (%)	95% Confidence Limits	
<i>Does anyone in your household require daily prescription medications?</i>						
2023	Yes	110	15382	62.2	54.3	70.2
	No	66	8800	35.6	27.8	43.4
	Don't Know	3	.	.	.	.
	Refused	1	.	.	.	.
2022	Yes	113	15678	63.4	55.1	71.8
	No	61	8798	35.6	27.3	43.9
	Don't know	1	.	.	.	.
	Refused	1	.	.	.	.
2019	Yes	112	14084	60.8	51.8	69.8
	No	71	8690	37.5	28.6	46.4
	Don't know	3	.	.	.	.
	Refused	0	.	.	.	.
2017	Yes	118	19019	63.5	57.0	70.0
	No	68	10799	36.0	29.4	42.7
	Don't know	1	.	.	.	.
	Refused	0	.	.	.	.
<i>If yes, does your household have a 7-day supply of medication for all who need it? (n=110)</i>						
2023	Yes	105	14747	95.9	92.3	99.5
	No	3	.	.	.	.
	Don't Know	2	.	.	.	.
	Refused	0	.	.	.	.
2022	Yes	107	14845	94.7	90.6	98.8
	No	5	628	4.0	0.6	7.4
	Don't know	1	.	.	.	.
	Refused	0	.	.	.	.
2019	Yes	107	13172	93.5	87.3	99.8
	No	2	.	.	.	.
	Don't know	3	.	.	.	.
	Refused	0	.	.	.	.
2017	Yes	126	20381	91.4	85.4	97.4
	No	11	1773	8.0	2.3	13.7
	Don't know	1	.	.	.	.
	Refused	0	.	.	.	.
<i>If yes, does your household have a 14-day supply of medication for all who need it? (n=105)</i>						
2023	Yes	89	12584	84.0	77.7	90.3
	No	10	1263	8.4	2.5	14.3
	Don't Know	8	1136	7.6	2.6	12.6
	Refused	0	.	.	.	.
2022	Yes	98	13786	87.9	81.8	94.1
	No	12	1451	9.3	4.3	14.2
	Don't know	3	.	.	.	.
	Refused	0	.	.	.	.
2019	Yes	94	11295	80.2	68.7	91.7
	No	11	1444	10.3	3.5	17.0
	Don't know	7	1345	9.5	0.0	20.6
	Refused	0	.	.	.	.
2017	Yes	106	17146	77.5	69.2	85.8
	No	30	4973	22.5	14.2	30.8
	Don't know	0	.	.	.	.
	Refused	0	.	.	.	.

Table 5. Evacuation plan questions of the 2023 CASPER (n=180) with 2022 (n=179), 2020 (n=189), 2019 (n=186) and 2017 (n=186) result comparison

Year	Response	Frequency	Weighted Frequency	Weighted Percent (%)	95% Confidence Limits	
<i>Does your household have the following emergency plans:</i>						
Communication plan						
2023	Yes	117	15453	62.5	53.3	71.8
	No	57	8486	34.3	25.4	43.3
	Don't Know	6	773	3.1	0.7	5.5
	Refused	0	.	.	.	.
2022	Yes	101	14002	56.7	49.2	64.1
	No	73	10367	42.0	35.0	48.9
	Don't know	2	.	.	.	.
	Refused	0	.	.	.	.
2019	Yes	113	14390	62.1	54.2	70.0
	No	68	8207	35.4	27.5	43.4
	Don't know	5	571	2.5	0.4	4.6
	Refused	0	.	.	.	.
2017	Yes	121	18931	63.2	57.3	69.1
	No	64	10556	35.2	29.7	40.7
	Don't know	2	.	.	.	.
	Refused	0	.	.	.	.
Designated meeting place						
2023	Yes	84	11166	45.2	36.3	54.1
	No	86	12350	50.0	40.4	59.6
	Don't Know	8	961	3.9	1.4	6.3
	Refused	2	235	1.0	0.0	2.3
2022	Yes	88	12699	51.4	42.5	60.3
	No	82	11220	45.4	35.9	54.9
	Don't know	6	792	3.2	0.3	6.2
	Refused	0	.	.	.	.
2019	Yes	87	11118	48.0	40.4	55.6
	No	96	11719	50.6	43.0	58.1
	Don't know	3	.	.	.	.
	Refused	0	.	.	.	.
2017	Yes	96	15836	53.1	44.2	62.0
	No	89	13840	46.4	37.7	55.1
	Don't know	1	.	.	.	.
	Refused	0	.	.	.	.
Copies of important document in a safe location						
2023	Yes	140	18642	75.4	66.1	84.7
	No	36	5552	22.5	13.3	31.6
	Don't Know	4	518	2.1	0.0	4.2
	Refused	0	.	.	.	.
2022	Yes	135	18585	75.2	66.3	84.1
	No	37	5548	22.5	13.4	31.5
	Don't know	4	.	.	.	.
	Refused	0	.	.	.	.
2019	Yes	127	15899	68.6	62.2	75.1
	No	50	6111	26.4	19.4	33.4
	Don't know	9	1159	5.0	2.0	8.0
	Refused	0	.	.	.	.
2017	Yes	137	21672	72.3	65.2	79.4
	No	48	7815	26.1	19.6	32.6
	Don't know	2	.	.	.	.
	Refused	0	.	.	.	.

Table 5. Evacuation plan questions of the 2023 CASPER (n=180) with 2022 (n=179), 2020 (n=189), 2019 (n=186) and 2017 (n=186) result comparison, Cont.

Year	Response	Frequency	Weighted Frequency	Weighted Percent (%)	95% Confidence Limits	
<i>What action would you and your household members take if you are in a tsunami evacuation zone when a tsunami warning is issued?</i>						
2023	Evacuate inland to higher ground	164	21990	89.0	81.1	96.8
	Ignore evacuation order	8	1008	4.1	1.5	6.7
	Other	2	.	.	.	.
	Don't know	6	773	3.1	0.0	6.5
2022	Evacuate inland to higher ground	156	21992	89.0	82.8	95.2
	Ignore evacuation order	6	832	3.4	0.3	6.4
	Other	7	890	3.6	0.1	7.1
	Don't know	7	998	4.0	0.7	7.3
<i>Is your household familiar with the tsunami evacuation zones on Kauai (island-wide)?</i>						
2023	Yes	114	15894	64.3	55.0	73.6
	No	56	7535	30.5	21.6	39.4
	Don't Know	10	1283	5.2	2.4	8.0
	Refused	0	.	.	.	.
2022	Yes	123	17281	69.9	63.1	76.7
	No	49	6872	27.8	22.1	33.6
	Don't know	4	.	.	.	.
	Refused	0	.	.	.	.
<i>If no, does your household know where to find that information? (n=66)</i>						
2023	Yes	34	4605	52.2	42.3	62.1
	No	31	4095	46.4	37.0	55.9
	Don't Know	1	.	.	.	.
	Refused	0	.	.	.	.
2022	Yes	24	3311	44.6	28.8	60.3
	No	25	3603	48.5	31.7	65.3
	Don't know	3	.	.	.	.
	Refused	1	.	.	.	.
<i>Is your household familiar with the Kauai Emergency Management Agency's website where you can access materials to better prepare for emergencies?</i>						
2023	Yes	101	13354	54.0	45.6	62.5
	No	78	11220	45.4	37.0	53.9
	Don't Know	1	.	.	.	.
	Refused	0	.	.	.	.
2022	Yes	99	13870	56.1	47.9	64.3
	No	70	9844	39.8	31.5	48.2
	Don't know	7	998	4.0	1.2	6.9
	Refused	0	.	.	.	.
2020	Yes	151	18604	80.1	73.9	86.4
	No	38	4609	19.9	13.6	26.1
	Don't know	0	.	.	.	.
	Refused	0	.	.	.	.
2019	Yes	89	11422	49.3	42.3	56.3
	No	90	10822	46.7	39.0	54.4
	Don't know	7	925	4.0	0.6	7.4
	Refused	0	.	.	.	.
2017	Yes	65	10073	33.9	27.2	40.7
	No	116	18978	64.0	56.5	71.4
	Don't know	4	.	.	.	.
	Refused	0	.	.	.	.

Table 5. Evacuation plan questions of the 2023 CASPER (n=180) with 2022 (n=179), 2020 (n=189), 2019 (n=186) and 2017 (n=186) result comparison, Cont.

Year	Response	Frequency	Weighted Frequency	Weighted Percent (%)	95% Confidence Limits	
<i>Have you or anyone in your household signed up to receive weather and other disaster-related alerts?</i>						
2023	Yes	127	16857	68.2	60.8	75.6
	No	50	6796	27.5	21.4	33.6
	Don't Know	3	.	.	.	.
	Refused	0	.	.	.	.
2022	Yes	118	16586	67.1	58.7	75.5
	No	49	6757	27.3	19.8	34.9
	Don't know	9	1369	5.5	1.7	9.4
	Refused	0	.	.	.	.
2019	Yes	130	16255	70.2	61.2	79.1
	No	46	5608	24.2	15.6	32.9
	Don't know	10	1306	5.6	2.2	9.0
	Refused	0	.	.	.	.
2017	Yes	125	19520	65.2	55.5	74.8
	No	58	9683	32.3	23.1	41.5
	Don't know	4	.	.	.	.
	Refused	0	.	.	.	.
<i>If Kauai was threatened by a hurricane, where would your household seek shelter for each category of storm?</i>						
<i>Category 1 (74 - 95 MPH)</i>						
2023	Shelter in place	138	18397	74.4	65.1	83.8
	Shelter at friend/family house	23	3169	12.8	7.7	17.9
	Public shelter	13	1714	6.9	1.9	12.0
	Other	2	.	.	.	.
	Don't know	4	.	.	.	.
	Refused	0	.	.	.	.
2022	Shelter in place	143	20129	81.5	74.7	88.2
	Shelter at friend/family house	13	2036	8.2	4.0	12.5
	Public shelter	13	1616	6.5	2.5	10.6
	Other	1	.	.	.	.
	Don't know	6	814	3.3	0.7	5.9
	Refused	0	.	.	.	.
2019	Shelter in place	137	17296	74.7	67.0	82.3
	Shelter at friend/family house	19	2244	9.7	4.8	14.6
	Public shelter	19	2244	9.7	5.3	14.1
	Other	7	855	3.7	0.8	6.6
	Don't know	4	.	.	.	.
	Refused	0	.	.	.	.
<i>If Kauai was threatened by a hurricane, where would your household seek shelter for each category of storm?</i>						
<i>Category 2 (96 - 110 MPH)</i>						
2023	Shelter in place	112	14910	60.3	48.8	71.9
	Shelter at friend/family house	24	3307	13.4	7.4	19.4
	Public shelter	30	3962	16.0	9.2	22.9
	Other	3	.	.	.	.
	Don't know	11	2114	8.6	1.4	15.7
	Refused	0	.	.	.	.
2022	Shelter in place	126	17865	72.3	64.0	80.6
	Shelter at friend/family house	18	2710	11.0	5.0	17.0
	Public shelter	21	2646	10.7	6.1	15.3
	Other	3	.	.	.	.
	Don't know	8	1138	4.6	1.6	7.6
	Refused	0	.	.	.	.

Table 5. Evacuation plan questions of the 2023 CASPER (n=180) with 2022 (n=179), 2020 (n=189), 2019 (n=186) and 2017 (n=186) result comparison, Cont.

Year	Response	Frequency	Weighted Frequency	Weighted Percent (%)	95% Confidence Limits	
2019	Shelter in place	115	14783	63.8	54.3	73.3
	Shelter at friend/family house	26	2999	12.9	7.6	18.2
	Public shelter	30	3497	15.1	9.2	21.0
	Other	9	1139	4.9	1.3	8.5
	Don't know	6	752	3.2	0.4	6.1
	Refused	0	.	.	.	.
<i>If Kauai was threatened by a hurricane, where would your household seek shelter for each category of storm?</i>						
Category 3 (111 - 129 MPH)						
2023	Shelter in place	89	11830	47.9	36.7	59.0
	Shelter at friend/family house	23	3236	13.1	6.3	19.8
	Public shelter	50	6547	26.5	18.3	34.7
	Other	3	.	.	.	.
	Don't know	15	2679	10.8	3.1	18.6
	Refused	0	.	.	.	.
2022	Shelter in place	101	14358	58.1	50.7	65.5
	Shelter at friend/family house	24	3571	14.5	8.7	20.2
	Public shelter	35	4772	19.3	13.7	24.9
	Other	4	.	.	.	.
	Don't know	12	1540	6.2	2.4	10.1
	Refused	0	.	.	.	.
2019	Shelter in place	85	11109	47.9	37.6	58.3
	Shelter at friend/family house	35	4114	17.8	12.2	23.3
	Public shelter	43	5134	22.2	14.3	30.0
	Other	9	1094	4.7	1.2	8.2
	Don't know	14	1717	7.4	3.8	11.0
	Refused	0	.	.	.	.
<i>If Kauai was threatened by a hurricane, where would your household seek shelter for each category of storm?</i>						
Category 4 (130 - 156 MPH)						
2023	Shelter in place	68	9030	36.5	26.2	46.9
	Shelter at friend/family house	28	3981	16.1	8.5	23.8
	Public shelter	62	8092	32.7	23.5	42.0
	Other	4	.	.	.	.
	Don't know	18	3071	12.4	4.2	20.6
	Refused	0	.	.	.	.
2022	Shelter in place	85	12211	49.4	41.6	57.2
	Shelter at friend/family house	27	3944	16.0	10.4	21.5
	Public shelter	47	6341	25.7	18.1	33.3
	Other	4	.	.	.	.
	Don't know	13	1746	7.1	3.6	10.6
	Refused	0	.	.	.	.
2019	Shelter in place	71	9328	40.3	30.2	50.3
	Shelter at friend/family house	33	3893	16.8	11.1	22.5
	Public shelter	59	7137	30.8	22.8	38.8
	Other	10	1223	5.3	1.7	8.8
	Don't know	13	1588	6.9	3.2	10.5
	Refused	0	.	.	.	.

Table 5. Evacuation plan questions of the 2023 CASPER (n=180) with 2022 (n=179), 2020 (n=189), 2019 (n=186) and 2017 (n=186) result comparison, Cont.

Year	Response	Frequency	Weighted Frequency	Weighted Percent (%)	95% Confidence Limits	
<i>If Kauai was threatened by a hurricane, where would your household seek shelter for each category of storm?</i>						
Category 5 (157+ MPH)						
2023	Shelter in place	60	7892	31.9	23.1	40.8
	Shelter at friend/family house	26	3570	14.4	7.8	21.1
	Public shelter	70	9298	37.6	29.6	45.7
	Other	4	.	.	.	.
	Don't know	20	3415	13.8	5.7	22.0
	Refused	0	.	.	.	.
2022	Shelter in place	74	10624	43.0	33.4	52.6
	Shelter at friend/family house	28	4130	16.7	11.0	22.4
	Public shelter	50	6782	27.4	19.8	35.1
	Other	5	588	2.4	0.4	4.4
	Don't know	19	2587	10.5	5.5	15.4
	Refused	0	.	.	.	.
2019	Shelter in place	58	7463	32.2	24.5	39.9
	Shelter at friend/family house	30	3793	16.4	10.7	22.0
	Public shelter	71	8615	37.2	29.0	45.3
	Other	11	1334	5.8	2.2	9.4
	Don't know	16	1964	8.5	4.8	12.1
	Refused	0	.	.	.	.
What main barrier might prevent your household from evacuating for a disaster when advised to do so?						
2023	No barriers (household will evacuate)	76	10089	40.8	32.8	48.9
	No barriers (household would choose not to evacuate)	24	3071	12.4	7.3	17.6
	Uncertainty about where to go	19	3252	13.2	5.3	21.0
	Concern about leaving pet(s)	17	2507	10.1	4.4	15.9
	Concern about leaving property vacant	8	961	3.9	1.1	6.7
	Lack of transportation	7	937	3.8	0.5	7.1
	Inconvenient or expensive	1	.	.	.	.
	Health or mobility issues	5	832	3.4	0.3	6.4
	Other	11	1400	5.7	2.5	8.8
	Don't know	12	1498	6.1	3.2	8.9
2022	No barriers (household will evacuate)	86	12211	49.4	41.0	57.8
	No barriers (household would choose not to evacuate)	23	3134	12.7	7.3	18.0
	Uncertainty about where to go	19	2791	11.3	6.5	16.1
	Concern about leaving pet(s)	14	1936	7.8	3.2	12.4
	Concern about leaving property vacant	6	883	3.6	0.0	7.6
	Lack of transportation	4	.	.	.	.
	Inconvenient or expensive	3	.	.	.	.
	Health or mobility issues	2	.	.	.	.
	Other	9	1059	4.3	0.5	8.0
	Don't know	10	1485	6.0	2.2	9.8

Table 6. Impact of COVID-19 questions of the 2023 CASPER (n=180) with results from 2022 (n=179) and 2020 (n=189) for comparison

Year	Response	Frequency	Weighted Frequency	Weighted Percent (%)	95% Confidence Limits	
<i>How concerned is your household about getting sick with COVID-19?</i>						
2023	Very concerned	40	5464	22.1	15.0	29.2
	Somewhat concerned	57	8112	32.8	23.2	42.5
	Not concerned	81	10901	44.1	36.0	52.2
	Don't know	2	.	.	.	.
	Refused	0	.	.	.	.
2022	Very concerned	60	8353	33.8	23.8	43.8
	Somewhat concerned	62	8765	35.5	26.9	44.0
	Not concerned	51	7147	28.9	20.0	37.8
	Don't know	3	.	.	.	.
	Refused	0	.	.	.	.
2020	Very concerned	71	8690	37.4	31.3	43.6
	Somewhat concerned	61	7581	32.7	26.6	38.7
	Not concerned	52	6326	27.3	21.0	33.6
	Don't know	5	615	2.7	0.4	4.9
	Refused	0	.	.	.	.
<i>How important does your household think it is to continue to wear a mask indoors in places other than your home?</i>						
2023	Very important	34	4374	17.7*	11.9	23.5
	Somewhat important	77	10497	42.5	34.5	50.4
	Not important	67	9559	38.7*	29.8	47.6
	Don't know	2	.	.	.	.
	Refused	0	.	.	.	.
2022	Very important	82	11613	47.0	36.8	57.2
	Somewhat important	63	8779	35.5	27.4	43.6
	Not important	27	3830	15.5	7.7	23.3
	Don't know	3	.	.	.	.
	Refused	1	.	.	.	.
<i>How does your household income compare with what it was before the pandemic?</i>						
2023	A lot less	17	2228	9.0	4.2	13.8
	A little less	25	3540	14.3	9.6	19.1
	About the same	95	13248	53.6	46.0	61.2
	A little more	21	2691	10.9	5.6	16.2
	A lot more	6	794	3.2	0.3	6.1
	Don't know	11	1536	6.2	2.7	9.7
	Refused	5	675	2.7	0.4	5.1
2022	A lot less	25	3289	13.3	8.2	18.4
	A little less	21	2665	10.8	6.1	15.4
	About the same	102	14731	59.6	51.5	67.7
	A little more	15	2234	9.0	3.3	14.8
	A lot more	6	794	3.2	0.3	6.1
	Don't know	6	881	3.6	0.5	6.7
	Refused	1	.	.	.	.

Table 7. COVID-19 pandemic questions of the 2023 CASPER (n=180)

Response	Frequency	Weighted Frequency	Weighted Percent	95% Confidence Limits	
<i>Are your household members aged 6 months and older up-to-date on their COVID vaccines?</i>					
Yes, all of them	97	13011	52.7	44.1	61.2
Most of them	22	3628	14.7	7.4	21.9
Some of them	20	2554	10.3	5.8	14.9
None of them	33	4411	17.8	11.6	24.1
Don't know	6	853	3.5	0.8	6.1
Refused	2	.	.	.	.
<i>For those household members who are not up-to-date on their COVID vaccines, what is the primary reason? (n=83)</i>					
Cost	0	.	.	.	.
Inconvenience	2	.	.	.	.
Don't think it's necessary	28	3630	31.0	21.0	41.0
Safety concerns	22	3621	30.9	16.9	45.0
Just haven't gotten around to it	11	1467	12.5	4.6	20.5
Other	9	1153	9.9	2.5	17.2
Don't know	7	969	8.3	2.4	14.2
Refused	4	.	.	.	.
<i>On a scale of 1 - 5, with 1 being very poor and 5 being very good, how would you household rate Kauai's overall response to the pandemic?</i>					
1	8	1020	4.1	1.5	6.7
2	6	773	3.1	0.3	5.9
3	24	3130	12.7	7.8	17.6
4	37	4986	20.2	14.5	25.9
5	88	12468	50.5	42.9	58.0
Don't know	15	2053	8.3	4.0	12.6
Refused	2	.	.	.	.

Table 8. General Life on Kauai questions of the 2023 CASPER (n=180)

Response	Frequency	Weighted Frequency	Weighted Percent	95% Confidence Limits	
<i>What is the biggest challenge your household faces living on Kauai?</i>					
Housing	34	4493	18.2	11.6	24.8
Childcare	2	.	.	.	.
Education	3	.	.	.	.
Employment/Salaries	15	2040	8.3	4.2	12.3
Medical care	22	2895	11.7	6.5	16.9
Mental health care	6	794	3.2	0.7	5.7
Transportation	7	863	3.5	1.1	5.9
Food	19	2361	9.6	5.1	14.0
Places to walk/play/exercise	3	.	.	.	.
Traffic	9	1173	4.7	1.3	8.2
Other	12	1640	6.6	2.4	10.8
None	45	6808	27.5	19.3	35.8
Don't know	3	.	.	.	.
<i>How often in the last year was your household worried about having enough money to buy nutritious meals?</i>					
Always	7	863	3.5	0.0	7.0
Usually	6	773	3.1	0.7	5.5
Sometimes	28	3613	14.6	9.3	19.9
Rarely	27	3638	14.7	9.8	19.6
Never	108	15355	62.1	54.5	69.7
Don't know	3	.	.	.	.
Refused	1	.	.	.	.

Table 9. General life on Kauai questions of the 2023 CASPER (n=180) with results from 2022 (n=179) and 2020 (n=189) for comparison

Year	Response	Frequency	Weighted Frequency	Weighted Percent (%)	95% Confidence Limits	
<i>How concerned is your household about your ability to pay the next month's rent or mortgage?</i>						
2023	Very concerned	13	1722	7.0	3.5	10.4
	Somewhat concerned	32	4207	17.0	11.2	22.8
	Not concerned	128	17940	72.6	65.2	80.0
	Don't know	6	726	2.9	0.3	5.6
	Refused	1	.	.	.	.
2022	Very concerned	16	2242	9.1	4.4	13.8
	Somewhat concerned	15	2053	8.3	3.6	13.0
	Not concerned	139	19558	79.1	72.3	86.0
	Don't know	5	722	2.9	0.0	6.5
	Refused	1	.	.	.	.
2020	Very concerned	25	3110	13.4	7.8	19.0
	Somewhat concerned	39	4714	20.3	14.3	26.3
	Not concerned	123	15168	65.3	58.0	72.7
	Don't know	0	.	.	.	.
	Refused	2	.	.	.	.

Table 10. Tobacco cessation questions of the 2023 CASPER (n=180)

Response	Frequency	Weighted Frequency	Weighted Percent	95% Confidence Limits	
<i>Is your household aware that Kauai law prohibits smoking or vaping in vehicles with passengers under 13 years old?</i>					
Yes	87	11415	46.2	36.9	55.5
No	89	12760	51.6	42.2	61.1
Don't know	4	.	.	.	.
Refused	0	.	.	.	.
<i>If Kauai parks were designated tobacco free (including cigarettes, chewing tobacco, & vapes), how would this affect your household's use of parks? Would your household visit:</i>					
A lot less	6	706	2.9	0.7	5.0
A little less	3	.	.	.	.
About the same	120	15839	64.1	56.7	71.5
A little more	18	2612	10.6	4.5	16.6
A lot more	30	4809	19.5	11.1	27.8
Don't know	3	.	.	.	.
<i>Do any members of your household use tobacco products?</i>					
Yes	37	4605	18.6	13.2	24.1
No	142	19970	80.8	75.3	86.3
Don't know	1	.	.	.	.
Refused	0	.	.	.	.
<i>If yes, is your household aware of tobacco cessation resources available on Kauai? (n=37)</i>					
Yes	27	3409	74.0	59.4	88.7
No	9	1079	23.4	9.3	37.6
Don't know	1	.	.	.	.
Refused	0	.	.	.	.
<i>What is the best way for your household to receive information about tobacco cessation and education programs? (n=37)</i>					
Community events or health fairs	2	.	.	.	.
Training or community meetings	1	.	.	.	.
Social media	11	1420	31.8	15.7	47.8
Radio	1	.	.	.	.
TV	9	1098	24.6	10.6	38.5
Healthcare provider	9	1079	24.1	10.9	37.4
Other	2	.	.	.	.
Don't know	1	.	.	.	.
Refused	1	.	.	.	.

APPENDIX B

To be completed by team BEFORE the interview										
Date (MM/DD/YY):	Cluster Number:	Survey Number:								
First, we would like to ask about basic household information										
<p>Q1. Including yourself, how many people live in your HH? _____</p> <p>Including yourself, how many of those people are:</p> <table border="1"> <tr> <td>Less than 2 years old</td> <td></td> </tr> <tr> <td>2-17 years old</td> <td></td> </tr> <tr> <td>18-64 years old</td> <td></td> </tr> <tr> <td>65 or over</td> <td></td> </tr> </table> <p><input type="radio"/> DK <input type="radio"/> Refused</p>	Less than 2 years old		2-17 years old		18-64 years old		65 or over		<p>Q3. Do you or any of your HH members require assistance during an emergency? (check all that apply)</p> <ul style="list-style-type: none"> <input type="radio"/> ADA accessible accommodations (wheelchair, assistance for blindness, deafness, etc.) <input type="radio"/> Electricity for a medical device <input type="radio"/> Refrigeration for essential medication <input type="radio"/> Caregiving assistance due to a disability/illness <input type="radio"/> Hospital/home care bed <input type="radio"/> Paratransit service <input type="radio"/> Other _____ <input type="radio"/> None of the above <input type="radio"/> DK <input type="radio"/> Refused <p>Q3.a If yes, how prepared is your HH to care for its member(s) that require assistance during an emergency?</p> <ul style="list-style-type: none"> <input type="radio"/> Very prepared <input type="radio"/> Somewhat prepared <input type="radio"/> Not prepared <input type="radio"/> DK <input type="radio"/> Refused 	<p>Q4. What is the main language(s) spoken in your HH?</p> <ul style="list-style-type: none"> <input type="radio"/> English <input type="radio"/> Other _____ <input type="radio"/> DK <input type="radio"/> Refused <p>Q5. Which range best describes your annual HH income from all sources (before taxes) in 2022?</p> <ul style="list-style-type: none"> <input type="radio"/> Less than \$25,000 <input type="radio"/> \$25,000 to < \$40,000 <input type="radio"/> \$40,000 to < \$70,000 <input type="radio"/> \$70,000 to < \$100,000 <input type="radio"/> \$100,000 to < \$150,000 <input type="radio"/> \$150,000 or more <input type="radio"/> DK <input type="radio"/> Refused
Less than 2 years old										
2-17 years old										
18-64 years old										
65 or over										
Next, we would like to ask you about your household's emergency and evacuation plans										
<p>Q6. Does your HH have the following emergency plans?</p> <p>a. Communication plan (such as a list of phone numbers and a designated out-of-town contact) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Refused</p> <p>b. Designated meeting place immediately outside your home or close by in your neighborhood <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Refused</p> <p>c. Copies of important documents in a safe location (e.g. water proof bag) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Refused</p>	<p>Q9. Does your HH have enough non-perishable food (canned goods, dried fruit, protein bars) for 3 days? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Refused</p> <p>Q9a. If yes, enough non-perishable food for 7 days? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Refused</p> <p>Q9b. If yes, enough non-perishable food for 14 days? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Refused</p> <p>Q10. Does anyone in your HH require daily prescription medications? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Refused</p> <p>Q10a. If yes, does your HH have a 7-day supply of medication for all who need it? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Refused</p> <p>Q10b. If yes, does your HH have a 14-day supply of medication for all who need it? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Refused</p>	<p>Q13. What main barrier does your HH face in assembling an emergency kit? (select only one)</p> <ul style="list-style-type: none"> <input type="radio"/> Cost of assembling kit <input type="radio"/> Lack of storage space <input type="radio"/> Lack of knowledge regarding what is needed <input type="radio"/> Lack of time to shop for and assemble kit <input type="radio"/> Other _____ <input type="radio"/> No barrier (HH has kit) <input type="radio"/> No barrier (just haven't done it) <input type="radio"/> DK <input type="radio"/> Refused 								
<p>Q7. Does your HH have the following emergency supplies?</p> <p>a. Emergency supply kit (including water, food, flashlights, extra batteries, etc.) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Refused</p> <p>b. A first aid kit <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Refused</p> <p>c. An emergency generator <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Refused</p> <p>d. An emergency radio <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Refused</p>	<p>Q11. For many tsunami events, officials may not be able to open tsunami refuge areas or evacuation shelters. What action would you and your HH members take if you are in a tsunami evacuation zone when a tsunami warning is issued?</p> <ul style="list-style-type: none"> <input type="radio"/> Evacuate inland to higher ground <input type="radio"/> Ignore evacuation order <input type="radio"/> Other _____ <input type="radio"/> DK <input type="radio"/> Refused 	<p>Q14. Is your HH familiar with the Kauai Emergency Management Agency's website Kauai.gov/kema where you can access materials to better prepare for emergencies?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Refused 								
<p>Q8. Does your HH currently have enough water stored for 3 days? (1 gal./person/day) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Refused</p> <p>Q8a. If yes, enough water stored for 7 days? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Refused</p> <p>Q8b. If yes, enough water stored for 14 days? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Refused</p>	<p>Q12. Is your HH familiar with the tsunami evacuation zones on Kauai (island-wide)? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Refused</p> <p>Q12a. If no, does your HH know where to find that information? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Refused</p>	<p>Q15. Have you or anyone in your HH signed up to receive weather and other disaster-related alerts?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Refused 								

<p>Q16. If Kauai was threatened by a hurricane, where would your HH seek shelter for each category of storm?</p> <table border="1"> <thead> <tr> <th></th> <th>Shelter in place (at home)</th> <th>Friend/family's home</th> <th>Public shelter</th> <th>Other</th> <th>DK</th> <th>Refused</th> </tr> </thead> <tbody> <tr> <td>Hurricane Category 1 (75-95 mph)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2 (96-110 mph)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3 (111-129 mph)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4 (130-156 mph)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5 (157+ mph)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Shelter in place (at home)	Friend/family's home	Public shelter	Other	DK	Refused	Hurricane Category 1 (75-95 mph)							2 (96-110 mph)							3 (111-129 mph)							4 (130-156 mph)							5 (157+ mph)							<p>Q17. What main barrier might prevent your HH from evacuating for a disaster when advised to do so? (Select one best answer)</p> <ul style="list-style-type: none"> <input type="radio"/> Concern about leaving property vacant <input type="radio"/> Lack of transportation <input type="radio"/> Uncertainty about where to go <input type="radio"/> Health or mobility issues <input type="radio"/> Concern about leaving pet(s) <input type="radio"/> Inconvenient or expensive <input type="radio"/> Other _____ <input type="radio"/> No barriers (household will evacuate) <input type="radio"/> No barriers (household would choose not to evacuate) <input type="radio"/> DK <input type="radio"/> Refused
	Shelter in place (at home)	Friend/family's home	Public shelter	Other	DK	Refused																																						
Hurricane Category 1 (75-95 mph)																																												
2 (96-110 mph)																																												
3 (111-129 mph)																																												
4 (130-156 mph)																																												
5 (157+ mph)																																												
Next, we would like to ask you about the COVID-19 pandemic																																												
<p>Q18. How concerned is your HH about getting sick with COVID-19?</p> <ul style="list-style-type: none"> <input type="radio"/> Very concerned <input type="radio"/> Somewhat concerned <input type="radio"/> Not concerned <input type="radio"/> DK <input type="radio"/> Refused 	<p>Q20. On a scale of 1-5, with 1 being very poor and 5 being very good, how would your HH rate Kauai's overall response to the pandemic?</p> <ul style="list-style-type: none"> <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> DK <input type="radio"/> Refused 	<p>Q22. For those HH members who are not up-to-date on their COVID vaccines, what is the primary reason?</p> <ul style="list-style-type: none"> <input type="radio"/> Cost <input type="radio"/> Inconvenience <input type="radio"/> Don't think it's necessary <input type="radio"/> Safety concerns <input type="radio"/> Just haven't gotten around to it <input type="radio"/> Other _____ <input type="radio"/> DK <input type="radio"/> Refused 																																										
<p>Q19. How important does your HH think it is to continue to wear a mask indoors in places other than your home?</p> <ul style="list-style-type: none"> <input type="radio"/> Very important <input type="radio"/> Somewhat important <input type="radio"/> Not important <input type="radio"/> DK <input type="radio"/> Refused 	<p>Q21. Are your HH members aged 6 months and older up-to-date on their COVID vaccines?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes, all of them <input type="radio"/> Most of them <input type="radio"/> Some of them <input type="radio"/> None of them <input type="radio"/> DK <input type="radio"/> Refused 	<p>Q23. How does your HH income now compare with what it was before the pandemic?</p> <ul style="list-style-type: none"> <input type="radio"/> A lot less <input type="radio"/> A little less <input type="radio"/> About the same <input type="radio"/> A little more <input type="radio"/> A lot more <input type="radio"/> DK <input type="radio"/> Refused 																																										
Finally, we would like to ask you some general questions about life on Kauai																																												
<p>Q24. What is the biggest challenge your HH faces living on Kauai?</p> <ul style="list-style-type: none"> <input type="radio"/> Housing <input type="radio"/> Childcare <input type="radio"/> Education <input type="radio"/> Employment/Salaries <input type="radio"/> Medical care <input type="radio"/> Mental health care <input type="radio"/> Transportation <input type="radio"/> Food <input type="radio"/> Places to walk/play/exercise <input type="radio"/> Other _____ <input type="radio"/> None <input type="radio"/> DK <input type="radio"/> Refused 	<p>Q26. How concerned is your HH about your ability to pay the next month's rent or mortgage?</p> <ul style="list-style-type: none"> <input type="radio"/> Very concerned <input type="radio"/> Somewhat concerned <input type="radio"/> Not concerned <input type="radio"/> DK <input type="radio"/> Refused 	<p>Q29. Do any members of your HH use tobacco products? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Ref</p> <p>Q29a. If yes, is your HH aware of tobacco cessation resources available on Kauai? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Ref</p> <p>Q29b. What is the best way for your HH to receive information about tobacco cessation and education programs?</p> <ul style="list-style-type: none"> <input type="radio"/> Community events or health fairs <input type="radio"/> Trainings or community meetings <input type="radio"/> Social media <input type="radio"/> Newspaper/magazines <input type="radio"/> Radio <input type="radio"/> TV <input type="radio"/> Healthcare provider <input type="radio"/> Other _____ <input type="radio"/> DK <input type="radio"/> Refused 																																										
<p>Q25. How often in the last year was your HH worried about having enough money to buy nutritious meals?</p> <ul style="list-style-type: none"> <input type="radio"/> Always <input type="radio"/> Usually <input type="radio"/> Sometimes <input type="radio"/> Rarely <input type="radio"/> Never <input type="radio"/> DK <input type="radio"/> Refused 	<p>Q27. Is your HH aware that Kauai law prohibits smoking or vaping in vehicles with passengers under 13 years old?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK <input type="radio"/> Refused 																																											
	<p>Q28. If Kauai parks were designated tobacco free (including cigarettes, chewing tobacco, & vapes), how would this affect your HH's use of parks? Would your HH visit:</p> <ul style="list-style-type: none"> <input type="radio"/> A lot more <input type="radio"/> A little more <input type="radio"/> No change <input type="radio"/> A little less <input type="radio"/> A lot less <input type="radio"/> DK <input type="radio"/> Refused 																																											



DEPARTMENT OF HEALTH

JOSH GREEN, M.D.
GOVERNOR
KE KIA'ĀINA

KENNETH S. FINK, MD, MGA, MPH
DIRECTOR
KA LUNA HO'OKELE

FOR IMMEDIATE RELEASE
May 26, 2023

23-052

Kaua'i District Health Office to conduct CASPER survey to assess emergency preparedness and ongoing pandemic impacts

LĪHU'E, HI – The Department of Health (DOH) Kaua'i District Health Office will conduct a Community Assessment for Public Health Emergency Response (CASPER) survey to assess the emergency preparedness level and current wellbeing of Kaua'i households.

"The responses will build upon prior CASPER surveys to assess household emergency preparedness and evacuation plans, as well as help us to understand how Kaua'i households are faring as we emerge from the pandemic," said Lauren Guest, Deputy District Health Officer, Kaua'i District Health Office. "The information we learn enables our office and the county to better meet our community's needs before, during and after a disaster. In addition, it serves as a valuable training opportunity for our staff."

Survey teams will go door-to-door (June 6 to 9, 2023) to 30 census tracts that are weighted toward more populated areas within the county. Seven houses within each tract will be systematically selected and surveyed. Survey teams are comprised of Kaua'i District Health Office staff with support from the Kaua'i Medical Reserve Corps, and the American Red Cross. O'ahu DOH staff will also be present to participate in and learn from this process.

"We greatly appreciate the participation of Kaua'i residents in this island-wide survey effort," said Dr. Janet Berreman, Kaua'i District Health Officer. "Mahalo for generously sharing your time and responses with our survey teams."

The survey takes about 10 minutes and selected households will be asked about ongoing impacts of the pandemic, emergency preparedness supply levels, emergency plans for various hazards, as well as general questions about life on Kaua'i. All survey responses will be confidential, and survey teams will not collect names or addresses.

Team members will wear vests identifying themselves as part of the DOH survey team and will carry identification cards. Survey teams will be wearing face masks and physical distancing will

be observed. Participating households will be offered the opportunity to complete the survey over the phone, if preferred.

The CASPER survey methodology was developed by the Centers for Disease Control and Prevention (CDC) to rapidly assess the health and other resource needs of a community after a disaster.

This will be the DOH's sixth CASPER survey conducted on Kaua'i. To view prior CASPER survey reports, please visit: <https://health.hawaii.gov/kauai/>

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Media Contact:

Shawn Hamamoto

Spokesperson

Department of Health

Email: Shawn.Hamamoto@doh.hawaii.gov

Phone: (808) 586-4417

Cell: (808) 722-5380

APPENDIX D

JOSH GREEN, M.D.
GOVERNOR OF HAWAII
KE KIAĀINA O KA MOKUĀINA O HAWAII



STATE OF HAWAII
DEPARTMENT OF HEALTH
KA 'OIHANA OLAKINO
KAUAI DISTRICT HEALTH OFFICE
3040 UMI STREET
LIHUE, HAWAII 96766

KENNETH S. FINK, MD, MGA, MPH
DIRECTOR OF HEALTH
KA LUNA HO'OLELE

JANET M. BERREMAN, M.D., M.P.H., F.A.A.P.
DISTRICT HEALTH OFFICER

In reply, please refer to:
File:

Community Assessment for Public Health Emergency Response

Hello, we are _____ and _____ with the Department of Health. We are doing a short survey to assess household emergency preparedness. Your house was randomly selected to participate, and the survey will take about 10 minutes. The survey may be conducted by phone if you prefer. It is completely anonymous — we will not collect your name or address. Do you have a few minutes to complete the survey?

[WAIT FOR RESPONDENT TO CLEARLY ANSWER YES OR NO].

[IF NO, THANK THEM FOR THEIR TIME.] Thank you very much for your time. Here is some information you might find useful.

[IF YES, CONTINUE.] Thank you so much. Would you prefer to conduct the survey outside observing physical distancing or over the phone?

[IF IN-PERSON, MAKE SURE TO OBSERVE A 6-FOOT DISTANCE AT ALL TIMES & OFFER THEM A MASK, IF NEEDED]

[If OVER THE PHONE, GIVE THEM A PAPER COPY OF THE SURVEY & YOUR TEAM'S ASSIGNED PHONE NUMBER—RETURN TO THE CAR AND AWAIT THEIR CALL]

*If they would like confirmation that you were sent by the Hawaii State Department of Health, please call **Lauren Guest**, Deputy District Health Officer at **808- 241-3555**.*

APPENDIX E

JOSH GREEN, M.D.
GOVERNOR OF HAWAII
KE KŪ'ĀNĀ O KA MOKU'ĀNĀ O HAWAII



STATE OF HAWAII
DEPARTMENT OF HEALTH
KA 'ŌIHANA OLAKINO
KAUAI DISTRICT HEALTH OFFICE
3040 UMI STREET
LIHUE, HAWAII 96766

KENNETH S. FINK, MD, MGA, MPH
DIRECTOR OF HEALTH
KA LUNA HO'ŌKELE

JANET M. BERREMAN, M.D., M.P.H., F.A.A.P.
DISTRICT HEALTH OFFICER

In reply, please refer to:
File:

Community Assessment for Public Health Emergency Response (CASPER) Survey

Aloha,

The Kauai District Health Office is conducting a survey to assess emergency preparedness of Kauai residents as well as how households are faring as we emerge from the pandemic. Your household is one of 210 randomly selected island-wide to participate. The survey will take about 10 minutes of your time. It is completely anonymous — we will not collect your name or address.

We stopped by while you were out of the house, but we really need your participation. The information gathered will help us to improve how DOH responds to future emergencies.

You can complete the survey over the phone or in a physically distanced outdoor interview.

Please call _____ to:

- 1) complete your interview,
- 2) schedule a time for the survey team to stop by again, or
- 3) let us know that you do not wish to participate

If we do not hear back from you, we will stop by again to see if we can reach you.

Thank you for your consideration,

Janet Berreman

Janet M. Berreman, MD, MPH, FAAP
Kauai District Health Officer

If you have questions regarding this survey, please call Lauren Guest, Deputy District Health Officer, at 808-241-3555.

COVID-19 CASPER PROTOCOL



1



FOLLOW PROPER SAFETY MEASURES

Wear your mask when driving and approaching households. Use provided hand sanitizer and gloves.

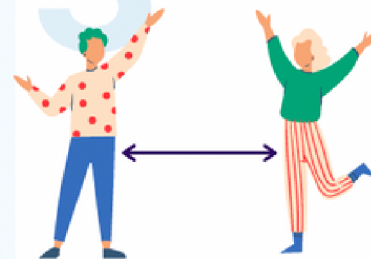
2



KNOCK ON SELECTED HOUSEHOLD'S DOOR

Attempt households three times before replacing, unless the home is inaccessible or vacant.

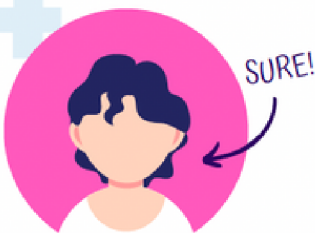
3



BACK UP TO MAINTAIN PHYSICAL DISTANCING

Maintain at least 6 feet of distance between yourself and selected households while interviewing.

4



OBTAIN VERBAL CONSENT TO SURVEY

Similar to other surveys introduce yourself and ask if the household is willing to participate in the survey.

5



OFFER TO COMPLETE SURVEY VIA PHONE

If the household prefers, provide the team's phone number and conduct the survey from the car.

6



PROVIDE FOLLOW UP INFORMATION

If a household does not answer the door, leave a follow up form with your team's phone number.





Hawaii CASPER Interview Tips



BEFORE THE INTERVIEW

- Practice with your partner
- Dress appropriately: comfortable clothing; closed-toed shoes; vest & ID
- Assign roles (e.g. driving, navigating, interviewing, etc.)

DURING THE INTERVIEW

- Introduce yourself
- Show empathy and respect
- Remind respondents that their responses are confidential and participation voluntary

ENDING THE INTERVIEW

- Look over the entire questionnaire for completeness
- Thank the respondent and provide pre-filled blue backpack
- Complete referral form when necessary

DOS AND DON'TS OF STANDARDIZATION

- **DO** ask the questions in the **same order** with the **exact wording**
- **DO** read the entire question
- **DO** record answers verbatim
- If respondent needs clarification, **repeat the question first**. If he/she still needs clarification, make sure that you are not changing the nature of the question.
- **DON'T** rephrase questions
- **DON'T** pre-fill answers
- **DON'T** try to finish the respondent's sentences

TRACKING FORM

- Used for tracking **every** household sampled (this means every house you attempt an interview at)
- Each cluster collected on a separate tracking form
- Allows for calculation of response rates - it is **very important** that it is correct and complete
- If necessary, write information to identify households to return to or any notes that you may need to take (e.g., why the household is inaccessible) on the back of the form

SYSTEMATIC SAMPLING OF HOUSEHOLDS

- Begin surveying at random starting point in cluster
- If specific interview addresses are not provided, select the nearest house and begin counting
- When you reach your first nth house (calculated by dividing households in cluster by 7), attempt an interview
- Complete tracking form **at every nth house** to indicate if interview was successful or if another attempt/replacement is needed
- Continue in serpentine manner, stopping at every nth house
- **Apartments/Condos/High Rises:** Count each apartment and condo units as individual houses
- **Commercial Buildings/Hotels:** Do not count commercial buildings or hotels when counting every nth house - these are not eligible for CASPER participation
- **Replacement:** Households can only be replaced if they meet one or more of the following categories:
 - 1) inaccessible,
 - 2) vacant,
 - 3) household refuses, or
 - 4) three attempts have been made with no answer

Call OPS with questions related to sampling or replacement.

SURVEY TIPS

Paper Survey Forms

- Ensure before departing after every interview that questionnaire form is complete (including administrative information at top of each form)

SURVEY TIPS

All Forms

- Begin survey following verbal consent
 - If household not accessible or refuses, note on tracking sheet (if refusal, provide important document bag to household)
- Note which survey number corresponds to which household on tracking sheet
- If helpful, present survey (on tablet or paper) to households to read along with survey team
- Indicate any issues on tracking form for review

SURVEY TIPS

Electronic Survey Forms

- Ensure tablets are charged before departure
 - Tablet passcode: 101010
 - Electronic application: EpiCollect 5
- Save each survey entry following completion
- Upload data upon return to command center each day

Questions or concerns? Contact OPS: 808-241-3555.

APPENDIX H

Community Assessment for Public Health Emergency Response (CASPER) Tracking Form

County: _____ Cluster # (1-30): _____ Houses in the Cluster: _____ Team: _____ Date of Interview: ____ / ____ / ____

Instructions: Use one tracking form per cluster. Check where appropriate, but try to choose only one best option for each of the three categories.

Household Number	1	2	3	4	5	6	7	8	9	10	11	12
Survey Number (from questionnaire)												
Access												
House inaccessible	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Answer												
Appears vacant	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
First visit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Second Visit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Third visit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No answer after (indicate time)												
Interview												
Interview Completed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Refused to participate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ineligible to participate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Partial interview completed (indicate return time)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
"Come back later" (indicate return time)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Translator needed (specify language)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*REMINDER: You should not pass this line representing 7 selected (and interviewed) houses unless you replaced a household.

Houses are only eligible for replacement if:

- 1) House is inaccessible (due to locked gate, vicious dogs, damage to property, etc.)
- 2) House appears vacant (nobody lives here anymore)
- 3) Household refuses to participate
- 4) No one is home after three attempts made at least one hour apart
- 5) Household is not eligible to participate (e.g. tourist—to be eligible, they should live here at least 6 months of the year)