



Public Health
Prevent. Promote. Protect.

**Boone County
Health Department**

2017

**Community Assessment for Public Health Emergency Response
(CASPER)**

Background:

The Boone County Health Department received additional funding from IDPH in April 2017 to perform a Community Assessment for Public Health Response (CASPER). The project was designed to conduct a CASPER in order to identify health perceptions in our community and assess resilience and emergency preparedness. CASPER is a CDC designed tool that involves interviewing residents door-to-door in sampled households about their public health needs. While CASPER was originally developed to assess community needs after natural disasters or emergencies, recently, they have been used in non-emergency settings as a way to collect accurate and timely data about a community. Local Health Departments are required to complete a Community Health Assessment (CHA) once every five years. The CASPER meets several CHA requirements including: convening a community health committee, developing a community health plan, soliciting input from the public on perceptions of community health problems, and defining the most meaningful community health problems. The idea behind the Boone County Health Department CASPER project was to meet two goals:

1. Gain valid, representative data on community preparedness, health behaviors and community health perceptions to use in our community health assessment. Use the survey results to identify public health needs in our community.
2. Disseminate health information and prevention messages to the community. Educational information on a variety of health services in Boone County was distributed to every household where an interview was attempted.

Boone County is a rural community located in northwestern Illinois. The total population of Boone County is

approximately 54,000. In the most recent Robert Wood's Johnson County Health Rankings, Boone County is ranked 14 out of 102 for health outcomes, and 62 out of 102 for length of life. One of the purposes of the CASPER was to gain more county-level health information.

Materials and Methods:

Boone County Health Department (BCHD) conducted a CASPER that covered all of Boone County beginning on May 1st and ending June 21st. The survey tool was developed with input from many local stakeholders including hospital administration, health care providers, long-term care facility administration, law enforcement, emergency management officials, school district administration, community members and more. All questions were worded to the household level. The survey consisted of 4 sections: basic household information, household emergency plans, general household information and Boone County's overall health. No personally identifying information was collected.

The standard CASPER methodology as explained in the CASPER toolkit (version 2.0) was used to select clusters and households. CDC used Geographic Information Systems software to randomly select 30 clusters (census blocks) with probability proportional to the number of housing units. In our case, 28 clusters were selected because two clusters were selected twice. Since Boone County is very rural, some census blocks had to be combined because there were so few households in each census block.

We worked closely with our county GIS staff to generate detailed maps of each cluster. The internal team randomly selected a starting point within the cluster on the map and selected seven households from each of their assigned clusters by systematically selecting houses every 'nth' household (where 'n' is the total number of households divided by seven). In the cluster that was selected twice, the internal team randomly selected 14 households using the same methodology. These selected households were then indicated on the map. A one hour training session on, interview techniques, safety precautions, and tracking methods was given to each team member. Teams consisted primarily of Boone County Health Department staff and family members, Boone County Health Department interns and volunteers.

Residents of the selected households who were at least 18 years of age or older were considered eligible to participate. Teams were instructed to get verbal consent from the resident before proceeding with the interview. Teams distributed bags with information about public health and health services to all households, regardless of whether or not they participated in the survey. Teams were instructed to complete confidential referral forms if they encountered urgent needs, and forward them to BCHD for immediate follow up.

Survey 123 for ArcGIS was used for the data entry. That data was then transferred to Epi Info 7 for analysis. A weighted cluster analysis was used to generate projected number of households, weighted percentages and 95% confidence intervals. To account for the probability that the responding household was selected, we created sampling weights based on the total number of occupied houses according to the 2010 Census, the number of clusters selected, and the number of interviews completed in each cluster. This weight was

used to calculate all weighted frequencies and percentages presented in this report. The contact rate was calculated by dividing the completed interviews by the total number of households where contact was attempted. The cooperation rate was calculated by dividing completed interviews by the total number of households where contact was made. The completion rate was calculated by dividing the number of completed interviews by 210 (the goal for completed interviews in this CASPER).

Results:

From May 4, 2017 to June 21, 2017, interview teams were able to conduct 180 interviews yielding a completion rate of 85.7% (Table 1). The 180 interviewed households were a sample of the 19,970 total households in Boone County. Unweighted frequencies, and projected population estimates based on weighted analyses can be found in (Table 2-9). Over the course of conducting the CASPER, 85 hours of BCHD staff time was spent and our interns and volunteers contributed approximately 104 volunteer hours.

Boone County Health Department bags with educational information were distributed to approximately 200 households across the county. The bags included information on a variety of topics including: lead poisoning prevention, Women Infant & Children (WIC), Illinois Tobacco Quitline, BCHD Chronic Disease Prevention program, disaster readiness, and BCHD environmental programs and services.

Teams completed interviews at 34.5% of households approached, and 77.6% of households where the door was answered (Table 1). The majority of households were single family homes (75.56%). Almost half of households interviewed had one or two occupants (48.31%). About one third of households had four or more occupants (37.08%), with eight occupants being the highest.

Emergency Preparedness (Table 2-4):

Nearly all households have a working smoke detector (90.00%), with less having a working carbon monoxide detector (75.56%) and even fewer having a working fire extinguisher (73.33%). In general, most households have basic emergency supplies. For every emergency item, more than half of all households reported having adequate supplies, including: non- perishable foods for three days (92.22%), drinking water (besides tap) for three days (72.63%), a seven day supply of medication for each person who takes prescriptions meds (70.06%), and a first aid kit (70.95%). 16.85% reported having a generator with adequate ventilation (3,365 projected households).

The most frequently reported sources of information that people rely on to stay up to date on emergencies were TV, radio, text message, and social media. If a large scale disaster happened in our community, more than three-quarters of Boone County households reported that they would try to evacuate to a friend/family/or 2nd home outside of the area (77.01%). 4.02% (projected 803 households) reported that they would go to an American Red Cross, church or community shelter. A smaller number (2.87 %, projected 573 households) would evacuate but did not know where they would go.

While most households would evacuate 3.45% (689 projected households) said that they would not evacuate. The most common reasons reported that might prevent someone from evacuating were having nowhere to go and concerns about leaving property.

Health Issues and Functional Needs (Table 5-6):

The most common reported health conditions in Boone County were hypertension/heart disease (44.13%), diabetes (26.67%), with both asthma/COPD/emphysema and depression reported at (17.88%). The majority of households have at least one member taking daily medication (61.11%), and several reported that at least one member uses a wheelchair/cane/walker (16.20%). Over half of Boone County residents (61.11%) report taking daily medication other than birth control or vitamins and nearly a quarter (23.86%) need to be tested regularly for a medical condition. A projected 3,217 households (16.11%) use medical equipment that requires electricity.

Access to Health Care (Table 7):

10.61% of respondents reported being unable to see a doctor in the past year because they were unable to get to a clinic or hospital. Fewer (3.89%) stated they were unable to see a doctor in the past year because of cost.

Boone County Overall Health (Table 8).

As a whole, most residents think that Boone County is on the healthy side of the spectrum. When asked to identify their top three most important health concerns in Boone County, obesity and substance abuse were reported more than anything else (n=74 and n=73). The other top reported concerns were cancer (n=64) and diabetes (n=52), followed by heart disease (n=46), mental health (n=42), lack of access to care (n=20), teen pregnancy (n = 14) and sexually transmitted disease (n=5).

Discussion: The CASPER met the stated goals by providing a rapid assessment of public health needs in Boone County. The information can be used to generate recommendations for emergency management and public health decision makers. It can be incorporated into Boone County's Illinois Project for Local Assessment of Needs (I-PLAN) to help determine health priorities for the next five years.

Data analysis:

To create sampling weights, information from the 2010 Census was used to determine the household probability of being selected. Some areas may have experienced population changes since 2010, and thus, Census data may not be representative of the current population in those areas. Changes in population since the previous census may result in less reliable generalizations of weight analyses to the sampling frame. The discrepancy between 2010 Census and the current status would not, however, affect the unweighted frequencies presented in this report. The contact rate, 34.5%, indicates that the field interview teams had to sample more households within the cluster to complete the necessary number of interviews, and this additional sampling might affect the representativeness of the results. In other words, interview

teams completed, on average, one interview for every two- to-three houses selected. Additionally, there is no available information from a baseline or comparison group that can be used to interpret the household level percentages reported.

Feedback on process:

BCHD staff made significant efforts to inform the community about the CASPER beforehand, on social media, in the newspaper and through employers and community groups. Still, the majority of households were not aware that the survey was taking place. The process would not have been able to be completed without the help of BCHD interns and volunteers. It required 189 man hours to do the in the field work, fully 55% of that time was interns and volunteers.

RECOMMENDATIONS: on the basis of the results of the CASPER, the following actions are recommended:

For Emergency Management:

1. Plan according to sheltering needs.

The results estimate that approximately 803 households would go to a shelter if they had to evacuate. The average household has 2.5 occupants, so shelters should be prepared to accommodate approximately 2,000 individuals if a disaster affected the entire county. Shelters should be set up for medical care and other functional needs of the community. The results estimate that only 2 of the households who plan to go to a shelter use a wheelchair, cane or walker and 1 uses home health care. None reported having a member who uses an oxygen supply. Still, the numbers for households with functional needs warrant looking at the Emergency Operations Plan for possible updates.

2. Utilize TV, radio and text message alert systems during a disaster.

The majority of households (77.2%) report that TV would be one of their main sources of information to keep their household up to date on an emergency event in our community with radio next (at 55%). Using text message was also commonly reported (42.2%). Media contact lists should be updated to ensure all TV and radio stations are listed. Text alert systems could be especially useful during a disaster if the power was out. Consider exploring other text alerting systems or methods for emergency communication and promoting NIXLE to the community.

3. Plan for the chance that some households will not evacuate.

About 3.45% of surveyed households (projected 689 households) said that they would not evacuate. A variety of reasons were given such as concern about leaving property, concern about pets/livestock, concern about traffic, and nowhere to go.

4. Continue promoting community and individual household disaster preparedness.

The Federal Emergency Management Association (FEMA) 2012 National Study estimated that 52% of respondents had disaster supplies in their home. In Boone County emergency preparedness supply estimates are higher than 52% for adequate non-perishable food for the next 3 days (92.2%) and adequate drinking water (besides tap) for the next 3 days (72.63%). 70.06% of households have a 7 day supply of medication for each person who takes prescription medicine, and 70.95% of households have a first aid kit that they could take with them if they had to leave quickly. Especially in a rural location, where it may take several days to get assistance in a large scale disaster, it is important that

residents are working toward being self-sufficient.

While it is encouraging that 3,365 households in Boone County have a working generator with adequate ventilation, only 20% of those who have medical equipment that requires electricity reported having a generator. Even smaller percentages (10%) of those saying that they have medications that need to be refrigerated have a generator.

Numbers for households with working smoke detectors less than 10 years old are at 90% with households with working carbon monoxide detectors less than 5 years old is only at 75.56%. Look into programs for free smoke detectors and carbon monoxide detectors.

For Healthcare:

5. Obesity

Obesity was rated as the number one important health concern. Adult obesity is currently at 34% in Boone County, compared with 27% in Illinois according to the County Health Rankings. This may directly relate to the 5,326 projected household that reported a family member with diabetes. More emphasis should be directed towards promoting physical activity.

6. Substance Abuse

Substance abuse was a close second to obesity (41.1% to 40.6%) for important health concerns in Boone County. The opioid crisis that is sweeping across the country is a concern that the Boone County Drug Prevention Coalition should be addressing.

7. Heart Disease/Hypertension

Almost 45% of households in Boone County reported having a member with hypertension (44.3%). It is listed as one of the top five health problems that Boone County citizens are most concerned with. Heart disease is the leading cause of death in the United States. Heart health education should continue to be a focus.

8. Access to care

While only 3.89% of households in Boone County said within the past year they were unable to see a doctor when they needed to because of cost, fully 10.61% could not to get to the clinic or hospital.

Transportation remains an issue within Boone County.

Table 1: Response Rates

Percentage		Definition
Completion Rate	85.7%	<i>Number of completed interviews / number of interviews goal</i>
Cooperation Rate	77.6%	<i>Number of completed interviews / all houses where contact was made (including completed interviews, incomplete interviews, and refusals)</i>
Contact Rate	34.5%	<i>Number of completed interviews / number of houses where contact was attempted (including completed interviews, incomplete interviews, refusals, and non-respondents)</i>

Table 2: Emergency Supplies

Does your household have a working generator with adequate ventilation	Frequency (n=180)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	30	16.85 %	3,365	11.67 %	23.18 %
No	145	81.46 %	16,268	74.96 %	86.88 %
Don't know	3	1.69 %	337	0.35 %	4.85 %
Does your household have a working smoke detector less than 10 years old	Frequency (n=180)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	162	90.00 %	17,973	84.66 %	93.96 %
No	12	6.67 %	1,332	3.49 %	11.36 %
Don't Know	6	3.33 %	665	1.23 %	7.11 %
Does your household have a working carbon monoxide detector less than 5 years old	Frequency (n=180)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	136	75.56 %	15,089	68.61 %	81.64 %
No	36	20.00 %	3,994	14.42 %	26.60 %
Don't Know	8	4.44 %	887	1.94 %	8.57 %
Does your household have a working fire extinguisher	Frequency (n=180)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	132	73.33 %	14,645	66.24 %	79.64 %
No	42	23.33 %	4,660	17.36 %	30.20 %
Don't Know	6	3.33 %	665	1.23 %	7.11 %

Does your household currently have:

A 3-day supply of drinking water, other than tap water	Frequency (n=179)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	130	72.63 %	14,502	65.47 %	79.01 %
No	47	26.26 %	5,244	19.97 %	33.34 %
Don't know	2	1.12 %	224	0.14 %	3.98 %
A 3-day supply of non perishable food	Frequency (n=180)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	166	92.22 %	18,416	87.29 %	95.68 %
No	14	7.78 %	1,554	4.32 %	12.71 %

A 7 day supply of medication for each person who takes prescription medication	Frequency (n=180)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	124	70.06 %	13,991	62.73 %	76.70 %
No	15	8.47 %	1,692	4.82 %	13.59 %
Don't Know	2	1.13 %	223	0.14 %	4.02 %
N/A	36	20.34 %	4,064	14.67 %	27.03 %
A first aid kit that you could take with you if you had to leave quickly	Frequency (n=179)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	127	70.95 %	14,168	63.71 %	77.48 %
No	49	27.37 %	5,465	20.99 %	34.53 %
Don't Know	3	1.68 %	337	0.35 %	4.82 %
An Emergency Supply Kit with supplies like water, food, flashlights, and extra batteries that is kept in a designated place in your home	Frequency (n=178)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	82	46.07 %	9,200	38.58 %	53.68 %
No	96	53.93 %	10,770	46.32 %	61.42 %

Table 3: Emergency Plans

Does your household have any of the following emergency plans:

Emergency communication plan such as a list of phone numbers and designated out-of-town contact	Frequency (n=179)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	134	74.86 %	14,950	67.84 %	81.03 %
No	45	25.14 %	5,020	18.97 %	32.16 %
Designated meeting place immediately outside your home or close by in your neighborhood	Frequency (n=180)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	88	48.89 %	9,763	41.38 %	56.43 %
No	89	49.44 %	9,873	41.93 %	56.98 %
Don't Know	3	1.67 %	334	0.35 %	4.79 %
Designated meeting place outside of your neighborhood in case you cannot return home	Frequency (n=180)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	56	31.11 %	6,213	24.43 %	38.42 %
No	123	68.33 %	13,645	61.00 %	75.05 %
Don't Know	1	0.56 %	111	0.01 %	3.06 %
Copies of important documents in a safe location (e.g. waterproof container)	Frequency (n=179)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	152	84.92 %	16,958	78.82 %	89.82 %
No	26	14.53 %	2,901	9.71 %	20.55 %
Don't Know	1	0.56 %	111	0.01 %	3.07 %
Multiple routes away from home in case evacuation is necessary	Frequency (n=180)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	140	77.78 %	15,533	70.99 %	83.62 %
No	38	21.11 %	4,216	15.39 %	27.81 %
Don't Know	2	1.11 %	221	0.13 %	3.96 %

If an emergency happened in our community, what would be the main source of information for your household to keep up to date on the emergency?

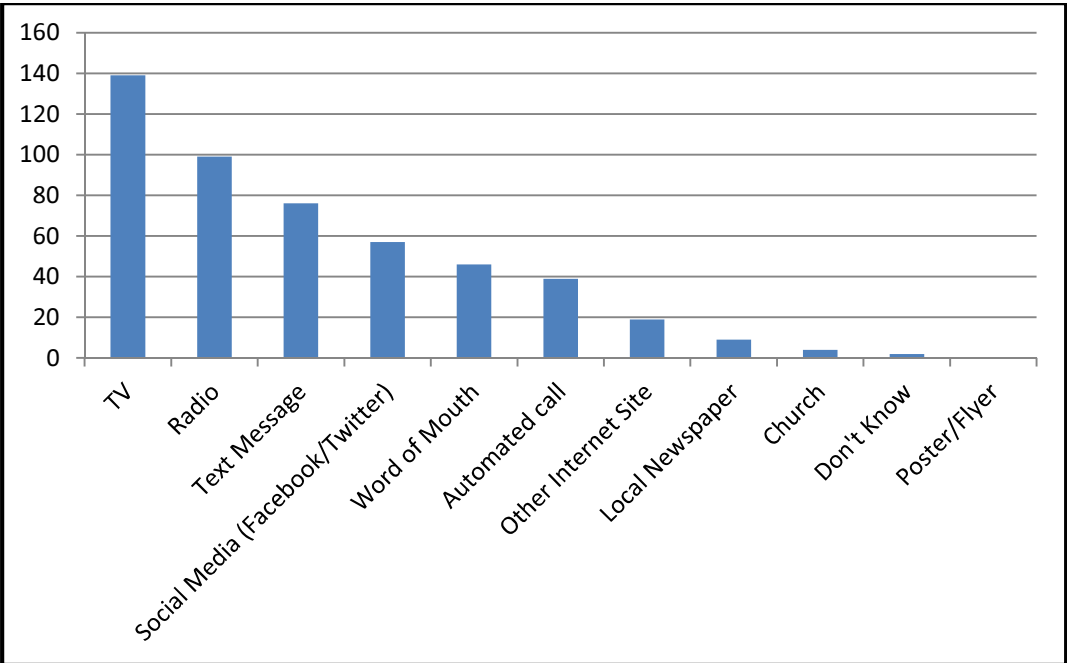


Table 4: Shelter Considerations:

If your household had to evacuate due to a large scale disaster or emergency, where would you go?	Frequency (n=174)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Friends/Family/2 nd home	134	77.01 %	15,380	70.04 %	83.04 %
Hotel/motel	21	12.07 %	2,411	7.63 %	17.86 %
American Red Cross/church/community	7	4.02 %	803	1.63 %	8.11 %
Would not evacuate	6	3.45 %	689	1.28 %	7.35 %
Don't Know	5	2.87 %	573	0.94 %	6.58 %
Refused	1	0.57 %	114	0.01 %	3.16 %
What would be the main reason that might prevent you from evacuating?	Frequency (n=175)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Lack of Transportation	3	1.71 %	342	0.35 %	4.93 %
Lack of trust in public officials	1	0.57 %	114	0.01 %	3.14 %
Concern about leaving property	16	9.14 %	1,825	5.32 %	14.42 %
Concern about pets/livestock	10	5.71 %	1,140	2.77 %	10.26 %
Concern about traffic	11	6.29 %	1,256	3.18 %	10.97 %
Expensive	3	1.71 %	342	0.35 %	4.93 %
N/A Would evacuate	2	1.14 %	228	0.14 %	4.07 %
Nowhere to go	116	66.29 %	13,238	58.76 %	73.24 %
Inconvenient	5	2.86 %	571	0.93 %	6.54 %
Health Problems	4	2.29 %	458	0.63 %	5.75 %
Don't know	2	1.14 %	228	0.14 %	4.07 %
Refused	2	1.14 %	228	0.14 %	4.07 %
Do you have pets/livestock?	Frequency (n=180)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	111	61.67 %	12,315	54.14 %	68.80 %
No	69	38.33 %	7,655	31.20 %	45.86 %
If yes, in an emergency, if your household was asked to evacuate, what would you do with your pet(s)/livestock?	Frequency (n=111)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Take them with you	101	90.99 %	11,205	84.06 %	95.59 %
Find a safe place for them	2	1.80 %	222	0.22 %	6.36 %
Leave behind with food and water	6	5.41 %	666	2.01 %	11.39 %
Don't Know	2	1.80 %	222	0.22 %	6.36 %

Table 5: Health Issues:

Have you or a member of your family ever been told by a doctor, nurse, or other healthcare professional that you have:

Diabetes	Frequency (n=180)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	48	26.67 %	5,326	20.36 %	33.76 %
No	131	72.78 %	14,534	65.66 %	79.13 %
Don't know	1	0.56 %	110	0.01 %	3.06 %
Heart Attack	Frequency (n=179)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	26	14.53 %	2,902	9.71 %	20.55 %
No	153	85.47 %	17,068	79.45 %	90.29 %
Heart Disease	Frequency (n=179)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	26	14.53 %	2,902	9.71 %	20.55 %
No	153	85.47 %	17,068	79.45 %	90.29 %
High Blood Pressure	Frequency (n=179)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	79	44.13 %	8,813	36.73 %	51.73 %
No	97	54.19 %	10,822	46.59 %	61.64 %
Don't Know	3	1.68 %	335	0.35 %	4.82 %
Stroke	Frequency (n =180)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	12	6.67 %	1,332	3.49 %	11.36 %
No	167	92.78 %	18,528	87.97 %	96.10 %
Don't Know	1	0.56 %	110	0.01 %	3.06 %
Asthma/COPD/Emphysema	Frequency (n=179)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	32	17.88 %	3,571	12.56 %	24.29 %
No	147	82.12 %	16,399	75.71 %	87.44 %
Depression	Frequency (n=179)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	32	17.88 %	3,570	12.56 %	24.29 %
No	145	81.01 %	16,177	74.48 %	86.47 %
Don't Know	2	1.12 %	223	0.14 %	3.98 %
Other Mental Health Issue	Frequency (n=179)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	16	8.94 %	1,786	5.20 %	14.11 %
No	162	90.50 %	18,074	85.23 %	94.37 %
Don't Know	1	0.56 %	110	0.01 %	3.07 %

Skin Cancer	Frequency (n=179)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	22	12.29 %	2,454	7.87 %	18.01 %
No	157	87.71 %	17,516	81.99 %	92.13 %
Any Other Type of Cancer	Frequency (n=180)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	22	12.22 %	2,440	7.82 %	17.92 %
No	158	87.78 %	17,530	82.08 %	92.18 %
Kidney Disease	Frequency (n=178)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	10	5.62 %	1,122	2.73 %	10.09 %
No	168	94.38 %	18,848	89.91 %	97.27 %
Weakened Immune System Immunocompromised	Frequency (n=178)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	17	9.55 %	1,907	5.66 %	14.85 %
No	159	89.33 %	17,840	83.83 %	93.45 %
Don't Know	2	1.12 %	223	0.14 %	4.00 %
Physical Disability	Frequency (n=179)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	22	12.29 %	2,454	7.87 %	18.01 %
No	157	87.71 %	17,516	81.99 %	92.13 %

Table 6: Functional Needs

Does anyone in your household need any of the following:

Daily Medication (other than birth control or vitamins)	Frequency (n=180)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	110	61.11 %	12,204	7.82 %	17.92 %
No	70	38.89 %	7,766	62.74 %	76.59 %
Dialysis	Frequency (n=180)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	4	2.22 %	443	0.61 %	5.59 %
No	176	97.78 %	19,527	94.41 %	99.39 %
Full time caregiver	Frequency (n=179)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	6	3.35 %	669	6	3.35 %
No	173	96.65 %	19,301	173	96.65 %
Part time caregiver	Frequency (n=180)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	8	4.44 %	887	1.94 %	8.57 %
No	171	95.00 %	18,971	90.72 %	97.69 %
Don't Know	1	0.56 %	112	0.01 %	3.06 %
Oxygen supply	Frequency (n =179)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	6	3.35 %	669	1.24 %	7.15 %
No	173	96.65 %	19,301	92.85 %	98.76 %
Wheelchair/cane/walker	Frequency (n=179)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	29	16.20 %	3,235	11.13 %	22.43 %
No	150	83.80 %	16,735	77.57 %	88.87 %
Special Formula, bandages, diapers	Frequency (n=180)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	16	8.89 %	1,775	5.17 %	14.03 %
No	164	91.11 %	18,195	85.97 %	94.83 %
Service Animal	Frequency (n=180)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	3	1.67 %	335	0.35 %	4.79 %
No	177	98.33 %	19,635	95.21 %	99.65 %

Does your household:

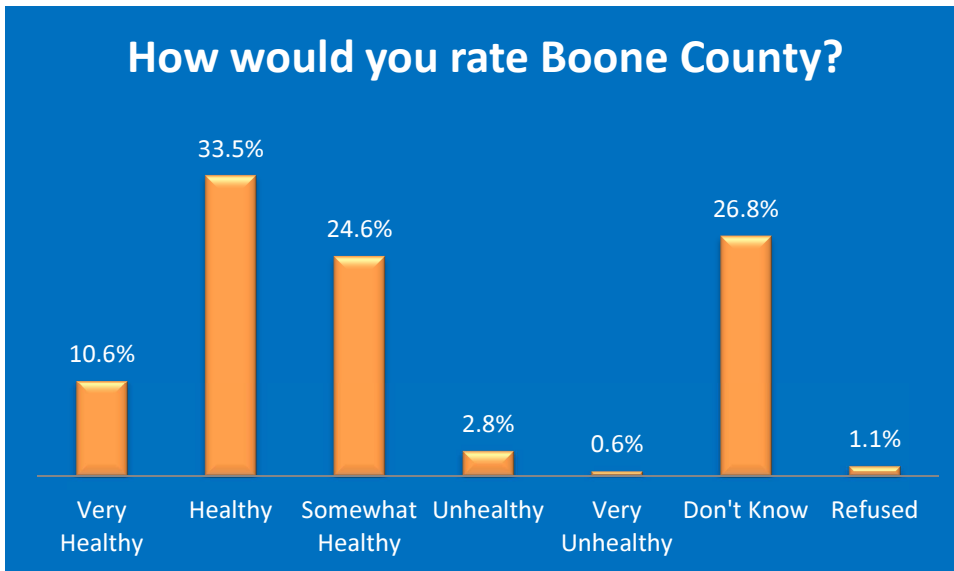
Does your household need any medication refrigerated	Frequency (n=180)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	22	12.22 %	2,440	7.82 %	17.92 %
No	126	70.00 %	13,979	62.74 %	76.59 %
N/A	32	17.78 %	3,551	12.49 %	24.16 %
Does anyone in your household have to be tested regularly (daily, monthly, weekly) for a medical condition	Frequency (n=176)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	42	23.86 %	4,765	17.77 %	30.86 %
No	126	71.59 %	14,297	64.32 %	78.12 %
Don't Know	2	1.14 %	228	0.14 %	4.04 %
Refused	6	3.41 %	680		
Does your household use any medical equipment that requires electricity	Frequency (n=180)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	29	16.11 %	3,217	11.06 %	22.31 %
No	147	81.67 %	16,310	75.23 %	87.03 %
Refused	4	2.22 %	443	0.61 %	5.59 %

Table 7: Access to Healthcare

Was there a time in the past year when someone in your household needed to see a doctor but could not because:

Of Cost	Frequency (n=180)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	7	3.89 %	777	1.58 %	7.85 %
No	173	96.11 %	19,193	92.15 %	98.42 %
You were unable to get to a clinic or hospital	Frequency (n=179)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Yes	19	10.61 %	2,188	6.51 %	16.08 %
No	160	89.39 %	17,832	83.92 %	93.49 %

Table 8: Perceptions of Boone County's Health



What do you think are the top three health concerns in Boone County?

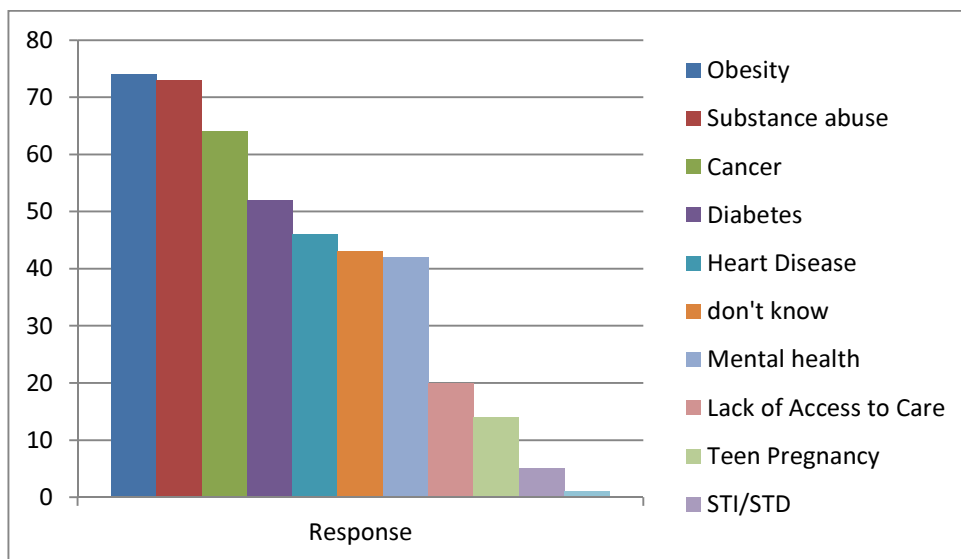
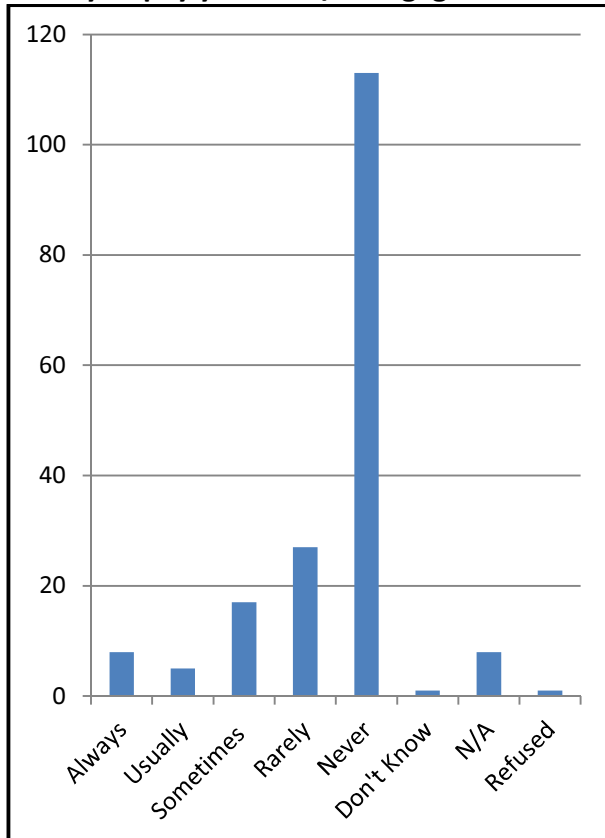


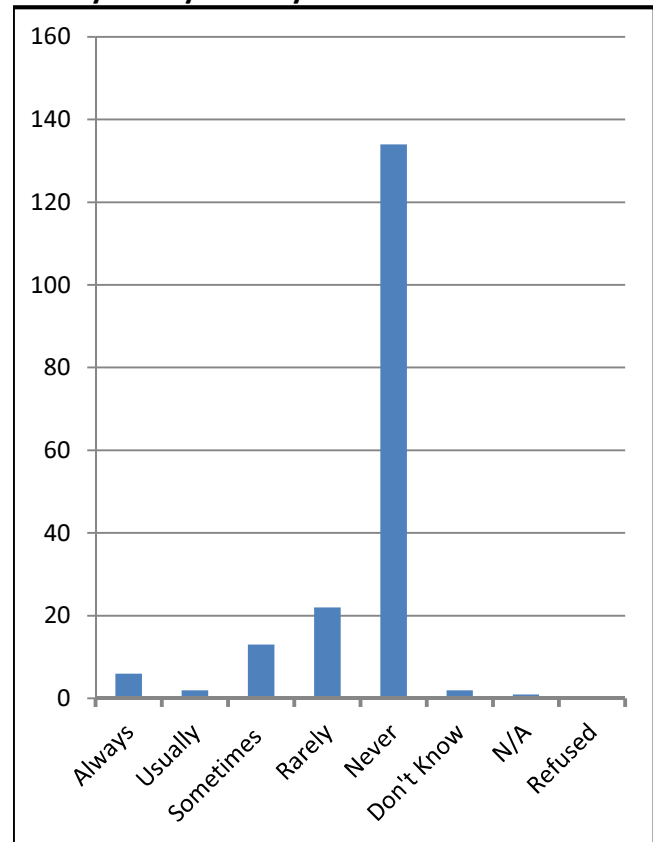
Table 9: General Household Information

How many people currently live in your household	Frequency (n=178)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
1	25	14.04 %	2,804	9.30 %	20.03 %
2	61	34.27 %	6,844	27.33 %	41.74 %
3	26	14.61 %	2,918	9.77 %	20.67 %
4	33	18.54 %	3,702	13.12 %	25.04 %
5	21	11.80 %	2,356	7.45 %	17.47 %
6	6	3.37 %	673	1.25 %	7.19 %
7	4	2.25 %	449	0.62 %	5.65 %
8	2	1.12 %	224	0.14 %	4.00 %
Type of Structure	Frequency (n=176)	Percent	Projected Households	Exact 95% LCL	Exact 95% UCL
Single Family	136	77.27 %	15,431	70.36 %	83.24 %
Multiple Unit	16	9.09 %	1,815	5.29 %	14.34 %
Mobile Home	24	13.64 %	2,724	8.94 %	19.61 %

How often in the past 12 months would you say you were worried or stressed about having enough money to pay your rent/mortgage?



How often in the past 12 months would you say you were worried or stressed about having enough money to buy healthy food?



Boone County Health Department CASPER Survey

To be completed by team BEFORE the interview

Q1 Date (MM/DD/YY):	Q2 Cluster Number:
Q3 Survey Number:	Q4 Interviewer Initials: <input type="checkbox"/> English <input type="checkbox"/> Spanish

First, we are going to ask about basic household information:

<p>Q5 Type of Structure:</p> <p><input type="checkbox"/> Single Family <input type="checkbox"/> Multiple Unit</p> <p><input type="checkbox"/> Mobile Home <input type="checkbox"/> Other _____</p>	<p>Q14 Have you or a member of your household ever been told by a doctor, nurse, or other healthcare professional that they have:</p> <p>Diabetes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>Heart attack <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>Heart disease <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>High Blood Pressure <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>Stroke <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>Asthma/COPD/Emphysema <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>Depression <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>Other Mental Health Issue <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>Skin Cancer <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>Any other type of cancer <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>Kidney Disease <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>Weakened immune system/ Immunocompromised <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>Physical Disability <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p>
<p>Q6 How many people currently live in your household? _____</p>	<p>Q15 Does anyone in your household need any of the following:</p> <p>Daily medication (other than Birth Control or vitamins) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>Dialysis <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>Full time caregiver <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>Part time caregiver <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>Oxygen supply <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>Wheelchair/cane/walker <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>Special formula, bandages, diapers <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>Service animal <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>Other <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p>
<p>Q7 How many people living in your household are (list Number)</p> <p>Less than 2 years old? ____ 2-17 years old? ____</p> <p>18-65 years old? ____ More than 65 years old? ____</p> <p><input type="checkbox"/> Don't know (DK) <input type="checkbox"/> Refused (R)</p>	
<p>Q8 Does your household have a working generator with adequate ventilation?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p>	
<p>Q9 Does your household have a working smoke detector less than 10 years old?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p>	
<p>Q10 Does your household have a working carbon monoxide detector less than 5 years old?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p>	
<p>Q11 Does your household have a working fire extinguisher?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p>	
<p>Q12 Was there a time in the past year when someone in your household needed to see a doctor but could not because of cost?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p>	
<p>Q13 Was there a time in the past year when someone in your household needed to see a doctor but could not because you were unable to get to a clinic or hospital?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p>	

Now we would like to ask you about your household's emergency plans

<p>Q 16 Does your household currently have . . .</p> <p>A 3-day supply of drinking water, other than tap water? (1 gallon/person/day) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>A 3-day supply of non-perishable food (e.g. canned food, proteins bars, nuts)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p> <p>A 7-day supply of medication for each person who takes prescription meds? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> NA <input type="checkbox"/> R</p> <p>Does your household need any medications refrigerated <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> NA <input type="checkbox"/> R</p> <p>Does anyone in your household have to be tested regularly (daily, monthly, weekly) for a medical condition? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> NA <input type="checkbox"/> R</p> <p>Does your household use any medical equipment that requires electricity? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> NA <input type="checkbox"/> R</p> <p>A first aid kit that you could take with you if you had to leave quickly? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> NA <input type="checkbox"/> R</p> <p>An Emergency Supply Kit with supplies like water, food, flashlights, and extra batteries that is kept in a designated place in your home? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK <input type="checkbox"/> R</p>	
<p>Q 17 Does your household have any of the following emergency plans?</p> <p>Emergency communication plan such as a list of phone numbers and designated out-of-town contact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK</p> <p>Designated meeting place immediately outside your home or close by in your neighborhood <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK</p> <p>Designated meeting place outside of your neighborhood in case you cannot return home <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK</p> <p>Copies of important documents in a safe location (e.g. waterproof container) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK</p> <p>Multiple routes away from home in case evacuation is necessary <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DK</p>	

<p>Q18 If an emergency happened in our community, what would be the main source of information for your household to keep up to date on the emergency? Read all options. <i>(Check up to 3)</i></p> <table border="0"> <tr> <td><input type="checkbox"/> TV</td> <td><input type="checkbox"/> Social Media(Facebook/Twitter)</td> </tr> <tr> <td><input type="checkbox"/> Radio</td> <td><input type="checkbox"/> Word of mouth (family, friend, neighbor)</td> </tr> <tr> <td><input type="checkbox"/> Text message</td> <td><input type="checkbox"/> Other internet site</td> </tr> <tr> <td><input type="checkbox"/> Automated call</td> <td><input type="checkbox"/> Other _____</td> </tr> <tr> <td><input type="checkbox"/> Local newspaper</td> <td><input type="checkbox"/> Don't know</td> </tr> <tr> <td><input type="checkbox"/> Poster/flyer</td> <td><input type="checkbox"/> Refused</td> </tr> <tr> <td><input type="checkbox"/> Church</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Other _____</td> <td></td> </tr> </table>	<input type="checkbox"/> TV	<input type="checkbox"/> Social Media(Facebook/Twitter)	<input type="checkbox"/> Radio	<input type="checkbox"/> Word of mouth (family, friend, neighbor)	<input type="checkbox"/> Text message	<input type="checkbox"/> Other internet site	<input type="checkbox"/> Automated call	<input type="checkbox"/> Other _____	<input type="checkbox"/> Local newspaper	<input type="checkbox"/> Don't know	<input type="checkbox"/> Poster/flyer	<input type="checkbox"/> Refused	<input type="checkbox"/> Church		<input type="checkbox"/> Other _____		<p>Q19 If your household had to evacuate due to a large scale disaster or emergency, where would you go? Read all options. <i>(Check only one)</i></p> <table border="0"> <tr> <td><input type="checkbox"/> Friends/family/2nd home outside of area</td> </tr> <tr> <td><input type="checkbox"/> Hotel/motel</td> </tr> <tr> <td><input type="checkbox"/> American Red Cross/church/community shelter</td> </tr> <tr> <td><input type="checkbox"/> Other _____</td> </tr> <tr> <td><input type="checkbox"/> Would not evacuate</td> </tr> <tr> <td><input type="checkbox"/> Don't know</td> </tr> <tr> <td><input type="checkbox"/> Refused</td> </tr> </table>	<input type="checkbox"/> Friends/family/2 nd home outside of area	<input type="checkbox"/> Hotel/motel	<input type="checkbox"/> American Red Cross/church/community shelter	<input type="checkbox"/> Other _____	<input type="checkbox"/> Would not evacuate	<input type="checkbox"/> Don't know	<input type="checkbox"/> Refused			
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<input type="checkbox"/> Refused																											
<p>Q20 What would be the main reason that might prevent you from evacuating? Read all options <i>(Check only one)</i></p> <table border="0"> <tr> <td><input type="checkbox"/> Lack of transportation</td> <td><input type="checkbox"/> Nowhere to go</td> </tr> <tr> <td><input type="checkbox"/> Lack of trust in public officials</td> <td><input type="checkbox"/> Inconvenient</td> </tr> <tr> <td><input type="checkbox"/> Concern about leaving property</td> <td><input type="checkbox"/> Expensive</td> </tr> <tr> <td><input type="checkbox"/> Concern about personal safety</td> <td><input type="checkbox"/> Health problems</td> </tr> <tr> <td><input type="checkbox"/> Concern about pets/livestock</td> <td><input type="checkbox"/> Don't know</td> </tr> <tr> <td><input type="checkbox"/> Concern about traffic</td> <td><input type="checkbox"/> Refused</td> </tr> <tr> <td><input type="checkbox"/> Other _____</td> <td></td> </tr> <tr> <td><input type="checkbox"/> N/A would evacuate</td> <td></td> </tr> </table>	<input type="checkbox"/> Lack of transportation	<input type="checkbox"/> Nowhere to go	<input type="checkbox"/> Lack of trust in public officials	<input type="checkbox"/> Inconvenient	<input type="checkbox"/> Concern about leaving property	<input type="checkbox"/> Expensive	<input type="checkbox"/> Concern about personal safety	<input type="checkbox"/> Health problems	<input type="checkbox"/> Concern about pets/livestock	<input type="checkbox"/> Don't know	<input type="checkbox"/> Concern about traffic	<input type="checkbox"/> Refused	<input type="checkbox"/> Other _____		<input type="checkbox"/> N/A would evacuate		<p>Q21 Do you have pets/livestock? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Q22 If yes, in an emergency, if your household was asked to evacuate, what would you do with your pet(s)/livestock?</p> <table border="0"> <tr> <td><input type="checkbox"/> Take them with you</td> <td><input type="checkbox"/> Don't know</td> </tr> <tr> <td><input type="checkbox"/> Find a safe place for them</td> <td><input type="checkbox"/> Refused</td> </tr> <tr> <td><input type="checkbox"/> Leave behind with food and water</td> <td><input type="checkbox"/> N/A</td> </tr> <tr> <td><input type="checkbox"/> Would not evacuate because of pets/livestock</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Would not evacuate</td> <td></td> </tr> </table>	<input type="checkbox"/> Take them with you	<input type="checkbox"/> Don't know	<input type="checkbox"/> Find a safe place for them	<input type="checkbox"/> Refused	<input type="checkbox"/> Leave behind with food and water	<input type="checkbox"/> N/A	<input type="checkbox"/> Would not evacuate because of pets/livestock		<input type="checkbox"/> Would not evacuate	
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<p>Q23 How often in the past 12 months would you say you were worried or stressed about having enough money to pay your rent/mortgage?</p> <table border="0"> <tr> <td><input type="checkbox"/> Always</td> <td><input type="checkbox"/> Never</td> </tr> <tr> <td><input type="checkbox"/> Usually</td> <td><input type="checkbox"/> Don't know</td> </tr> <tr> <td><input type="checkbox"/> Sometimes</td> <td><input type="checkbox"/> Refused</td> </tr> <tr> <td><input type="checkbox"/> Rarely</td> <td><input type="checkbox"/> N/A</td> </tr> </table>	<input type="checkbox"/> Always	<input type="checkbox"/> Never	<input type="checkbox"/> Usually	<input type="checkbox"/> Don't know	<input type="checkbox"/> Sometimes	<input type="checkbox"/> Refused	<input type="checkbox"/> Rarely	<input type="checkbox"/> N/A	<p>Q24 How often in the past 12 months would you say you were worried or stressed about having enough money to buy healthy food?</p> <table border="0"> <tr> <td><input type="checkbox"/> Always</td> <td><input type="checkbox"/> Never</td> </tr> <tr> <td><input type="checkbox"/> Usually</td> <td><input type="checkbox"/> Don't know</td> </tr> <tr> <td><input type="checkbox"/> Sometimes</td> <td><input type="checkbox"/> Refused</td> </tr> <tr> <td><input type="checkbox"/> Rarely</td> <td><input type="checkbox"/> N/A</td> </tr> </table>	<input type="checkbox"/> Always	<input type="checkbox"/> Never	<input type="checkbox"/> Usually	<input type="checkbox"/> Don't know	<input type="checkbox"/> Sometimes	<input type="checkbox"/> Refused	<input type="checkbox"/> Rarely	<input type="checkbox"/> N/A										
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<p>Finally, we have 2 questions about your perception of Boone County's health overall</p>																											
<p>Q25 How would you rate Boone County as a "healthy community?"</p> <p>Would you say Boone County is . . . <i>(Read all options)</i></p> <table border="0"> <tr> <td><input type="checkbox"/> Very healthy</td> <td><input type="checkbox"/> Very unhealthy</td> </tr> <tr> <td><input type="checkbox"/> Healthy</td> <td><input type="checkbox"/> Don't know</td> </tr> <tr> <td><input type="checkbox"/> Somewhat healthy</td> <td><input type="checkbox"/> Refused</td> </tr> <tr> <td><input type="checkbox"/> Unhealthy</td> <td></td> </tr> </table>	<input type="checkbox"/> Very healthy	<input type="checkbox"/> Very unhealthy	<input type="checkbox"/> Healthy	<input type="checkbox"/> Don't know	<input type="checkbox"/> Somewhat healthy	<input type="checkbox"/> Refused	<input type="checkbox"/> Unhealthy		<p>Q26 Of the following, which 3 do you think are the most important health concerns in Boone County <i>(Choose only 3)</i></p> <table border="0"> <tr> <td><input type="checkbox"/> Diabetes</td> <td><input type="checkbox"/> Mental Health issues</td> </tr> <tr> <td><input type="checkbox"/> Obesity</td> <td><input type="checkbox"/> Teen pregnancy</td> </tr> <tr> <td><input type="checkbox"/> Cancer</td> <td><input type="checkbox"/> Lack of access to healthcare</td> </tr> <tr> <td><input type="checkbox"/> Heart Disease</td> <td><input type="checkbox"/> Don't know</td> </tr> <tr> <td><input type="checkbox"/> Sexually Transmitted Diseases</td> <td><input type="checkbox"/> Refused</td> </tr> <tr> <td><input type="checkbox"/> Alcohol or other drug abuse</td> <td></td> </tr> </table>	<input type="checkbox"/> Diabetes	<input type="checkbox"/> Mental Health issues	<input type="checkbox"/> Obesity	<input type="checkbox"/> Teen pregnancy	<input type="checkbox"/> Cancer	<input type="checkbox"/> Lack of access to healthcare	<input type="checkbox"/> Heart Disease	<input type="checkbox"/> Don't know	<input type="checkbox"/> Sexually Transmitted Diseases	<input type="checkbox"/> Refused	<input type="checkbox"/> Alcohol or other drug abuse							
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DK= DON'T KNOW R=REFUSED