



Rising Together: Naples

Results of Climate Resilience Outreach Survey



In
Partnership
with

Naples Manor in Western
Collier County



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April 9, 2017

- This is a project of Unitarian Universalist Justice Florida, led in Naples by the UU Congregation of Greater Naples in partnership with Naples Manor in Western Collier County and Habitat for Humanity of Collier County.
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Findings

1. **Residents' Strongest Concerns:** Extreme weather (37%) and insurance (22%) were the future impacts of sea level rise of greatest concern in responding households. Water quality (14%) and property value (13%) followed.
2. **Health:** The prevalence of asthma among residents responding to the survey (18%) was slightly more than five and a half times the 2013 Collier County adult asthma prevalence (3.2%)¹. Mold is an asthma trigger², and 34% of households reported experiencing mold.
3. **Water and Flooding:** Experience with flooding was reported by 16% of responding households, and experience with water contamination was reported by 13%. Several of these homes, responding with the comment "high tide flooding" were concentrated on Confederate Drive (6.5%). There was a report of flooding with no rain on Jennings St. All comments are reported on page 16. Experience with water contamination was reported by 13% of households.
4. **Code Red Registration:** One of the objectives of this community resilience-building outreach is to register residents of vulnerable communities with the Code Red emergency notification system. Because residents in Collier County are automatically registered with Code Red, this was not necessary.
5. **Perception of Sea Level Rise:** There is a need for further outreach and education on sea level rise in this community, together with basic information about the topography. Only 44% of responding households believe that sea level rise is happening in Collier County, and 41% of residents reported that they were not at all familiar with it. Most residents had either a medium level of concern about sea level rise (40%) or a low level of concern (25%), and estimates of household elevation ranged from 1 ft. below sea level to 100 ft. above sea level, indicating that any outreach about sea level rise should include basic topographical information.
6. **Risk Perception:** Residents largely overestimated their risk from sea level rise and underestimated their risk from a rising water table based on their estimation of household elevation and depth to the water table. Most respondents widely underestimated their elevation (52%) or underestimated it (30%). The depth that a resident would have to dig to reach water was widely overestimated by 84% of respondents and overestimated by another 11%.
7. **Extreme Weather:** Although 56% of residents expressed a medium level of concern with extreme weather, the most often selected level of concern was a low level (35%).

¹ "Adults Who Currently Have Asthma. Collier County." *Florida Health*. Florida Department of Health, n.d. Web. <http://www.flhealthcharts.com/charts/Brfss/DataViewer.aspx?bid=0020>

² "Common Asthma Triggers." *Centers for Disease Control and Prevention*. Centers for Disease Control and Prevention, 20 Aug. 2012. Web. 16 Feb. 2017. <https://www.cdc.gov/asthma/triggers.html>

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Executive Summary

Rising Together: Naples is part of a broader environmental justice initiative led by Unitarian Universalist Justice Florida in vulnerable communities of coastal Florida. *Rising Together* partners Unitarian Universalist congregations with existing leadership in vulnerable coastal communities to train residents to survey and educate their neighbors about preparation for and response to the health effects of extreme weather and climate hazards.

Funding: The pilot project, on which these efforts are based, was undertaken in Boca Raton and Delray Beach, Florida. The pilot project was funded with an EPA Environmental Justice Small Project Grant, and was used to create the training and outreach materials being used in this project, which are available on this website www.ReACTToolKit.net. The current replication phase of *Rising Together* has 2 additional communities on Florida's east coast and 4 on Florida's west coast engaged in building coastal resilience in vulnerable communities, and in determining how the materials and methods used in the communities can be improved.

The Survey: The survey used in this community was based on a survey created by Dr. Keren Bolter (Florida Atlantic University- Center for Environmental Studies), and was modified for use in Naples by the Unitarian Universalist Congregation of Greater Naples.

Study Area: All households were surveyed by neighborhood canvass, and all of these residences were located in zip code 34113. The 2010 Census data on the demographics and economic indicators of this zip code appear in Table 1 below. In 2010, the 34113 zip code had a population that is 12.6% Black or African American and 18.3% Hispanic or Latino, with an average household income of \$46,110 and a 2010 average house value of \$227,400.³ Naples Manor is a Census Designated Place (CDP) within zip code 34113. The 2015 American Community Survey reported an estimated population of 5,566, with 1,207 housing units. The Black or African American population within Naples Manor was 19.3% and the Hispanic or Latino population was 75.3% in 2015.⁴ Naples Manor is bordered on the Southwest by Tamiami Trail East (US 41), Lely to the North and Lely Resort to the East. The total area of the community is 0.69 square miles, of which 2.91% is water. There are 200 family homes in Naples Manor that were built by Habitat for Humanity between 1993 and 2006, with an additional 200 (non-Habitat) foreclosed homes that were purchased and rehabilitated to "like-new" standards. The 2010 Census reported that 65.7% of the homes in Naples Manor were

³ < <https://www.zip-codes.com/zip-code/34113/zip-code-34113.asp> >

⁴ <https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=CF>

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owner-occupied, and 34.3% were renter occupied. 26.5% of the population was below poverty line. The 2015 update reported 1,120 households, with 53.7% of the population foreign born.

Table 1. Zip code data in the table below is from the 2010 Census⁵. Data on Naples Manor CDC is from the 2015 American Community Survey.⁶

Zip Code Or Community	Number of Respondents in the Zip Code or Community	Avg. Household Income	% Black Population	% Hispanic Population	Avg. House Value In 2010
34113	93	\$46,110	12.6%	18.3%	\$227,400
Naples Manor CDP	90	Median in 2015 dollars \$35,682	19.8%	71.9%	Median value of Owner Occupied Units \$106,000

Infrastructure Improvement in Naples Manor

Naples Manor's stormwater infrastructure was improved by three projects between 2013 and 2016. One of the projects was the Lely Area Stormwater Improvement Project, which improved the Naples Manor Outfall 3 and 4 ditches by reconstructing the ditch cross section, installing new culverts, and construction of a maintenance travel-way. A second project was the improvement of an existing stormwater ditch on the north perimeter of Naples Manor, called the Naples Manor North Canal. Improvements included reconstruction of the ditch cross section, installation of new culverts, construction of a maintenance travel-way, and construction of a slide-gate weir. A third project was improvement of the Naples Manor Ditch and the US-41 Ditch that convey stormwater out of Naples Manor.⁷ These projects are the likely reason that only 16% of residents reported flooding.

⁵ < <https://www.zip-codes.com/zip-code/34113/zip-code-34113.asp>>

⁶ < <https://www.census.gov/quickfacts/table/PST045214/1247650/accessible>>

⁷ USA. Collier County. Growth Management Division- Transportation Engineering Stormwater Capital Improvements Section. Web. file:///Users/janicetboohar/Downloads/CIPdescripfor20132016.pdf

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Resident Engagement

Nine Outreach Team members were trained to survey and educate their neighbors about how to stay safe and healthy as the climate changes. The team reached 93 households, with 90 of them in Naples Manor. Leadership was provided by two Community Leaders.

Languages Spoken in Surveyed Households

Surveying and education was conducted in English, Spanish, and Creole. Some households were surveyed in both English and Creole or in both English and Spanish.

Languages Spoken in Surveyed Households

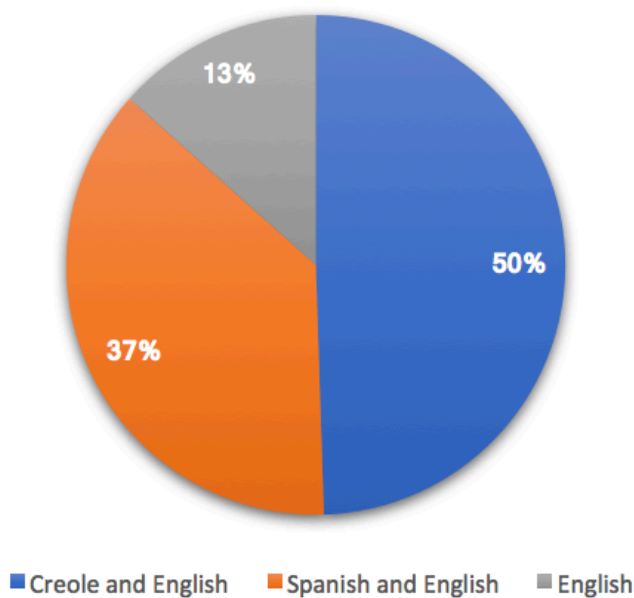


Figure 1 13% of residents were surveyed in English. The households surveyed in more than one language were 50% in English and Creole, and 37% in English and Spanish.

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Respondents' Self-Reported Familiarity with Sea Level Rise

Residents completed the survey prior to hearing information about the public health effects of climate change. The first survey question was, "How would you rate your existing knowledge about sea level rise?"

HOW WOULD YOU RATE YOUR EXISTING KNOWLEDGE ABOUT SEA LEVEL RISE?

■ Not at all familiar ■ somewhat familiar ■ very familiar ■ extremely familiar

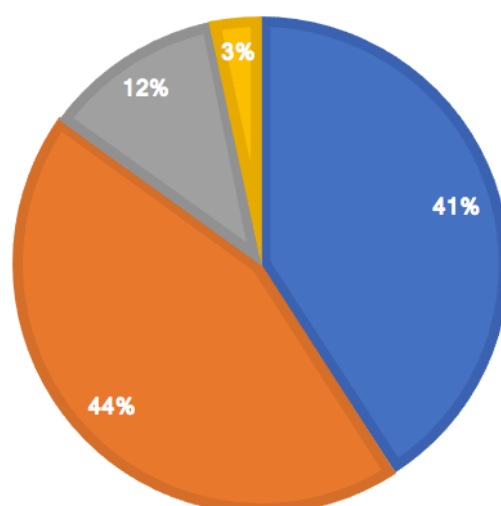


Figure 2. 12% reported that they were very familiar with sea level rise, and 44% of reported that they were somewhat familiar with sea level rise. Only 3% of respondents reported that they were extremely familiar with sea level rise. At the other extreme, 41% reported that they were not at all familiar with it, indicating a need for further outreach and education.

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How Many Feet do you Estimate Your Home to be Above Mean Sea Level?

Residents' responses to the question, "How many feet do you estimate your home to be above mean sea level?" were compared against the actual elevations of their homes. The actual elevations were obtained by entering the address into the Eyes on the Rise⁸. The percentage difference between the actual elevation and the elevation entered by the respondent was calculated. The responses were characterized as indicated in the table below.

Table 2. Characterization of responses

Widely underestimated	50% or more less than their actual elevation
Underestimated	Between 0 and 50% less than their actual elevation
Exact	Actual Elevation from Eyes On The Rise
Overestimated	Between 0 and 50% more than their actual elevation
Widely Overestimated	50% or more over their actual elevation

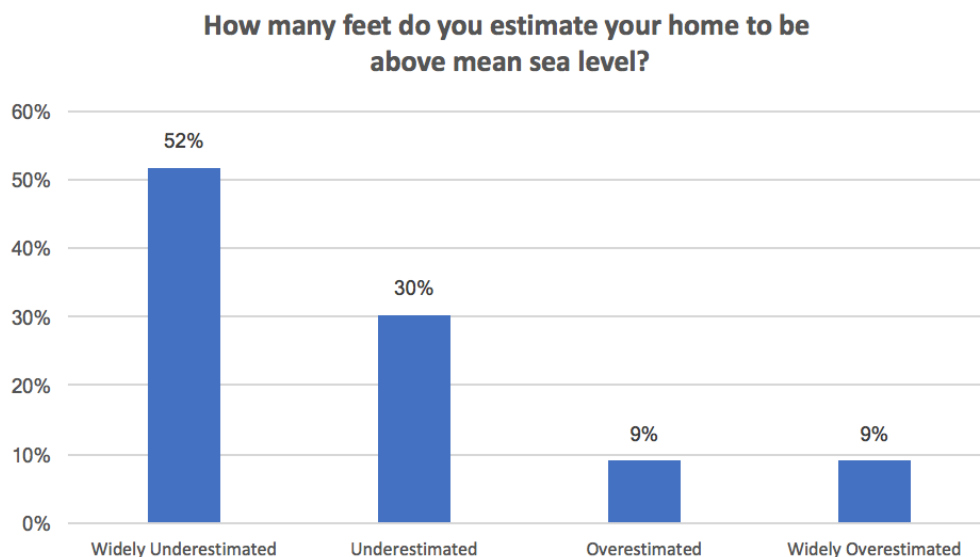


Figure 3. Most residents widely underestimated their elevation (52%), and 30% of respondents underestimated it. Only 9% of respondents overestimated their elevation, and 9% widely overestimated it. The range of reported estimates of elevation was from 10 ft below sea level to 1,000 ft above sea level. Education about sea level rise should therefore include basic information about local topography.

⁸ McGillicuddy, Dan. "Eyes on the Rise." *Citizen Eyes*. FIU GIS Center, n.d. Web. 02 Apr. 2017. <<http://citizeneyes.org/app/>>.

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Do you think that Sea Level Rise is Occurring in Sarasota County Today?

Canvassers were instructed to give the survey to residents prior to educating them about the health effects of sea level rise. Therefore, this result documents residents' perceptions prior to outreach education.

DO YOU THINK THAT SEA LEVEL RISE IS OCCURRING IN COLLIER COUNTY TODAY?

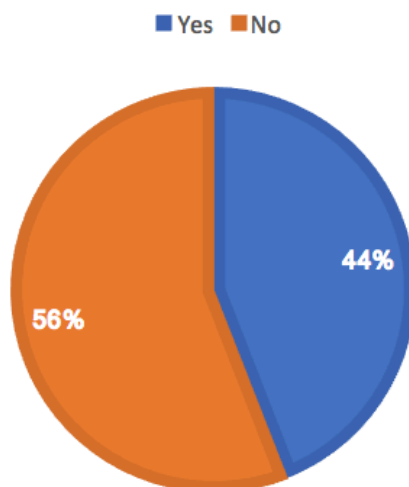


Figure 4. Slightly more than half of respondents (56%) surveyed stated they did not think that sea level rise is occurring in Collier County, with 44% stating that they did.

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What is Your Overall Level of Concern with the Future Impacts of Sea Level Rise for Collier County?

Respondents were asked to rate their overall level of concern with the future impacts of sea level rise in Collier County. They chose from the following responses: 1-None, 2-Low, 3-Medium, 4-High and 5-Very High.

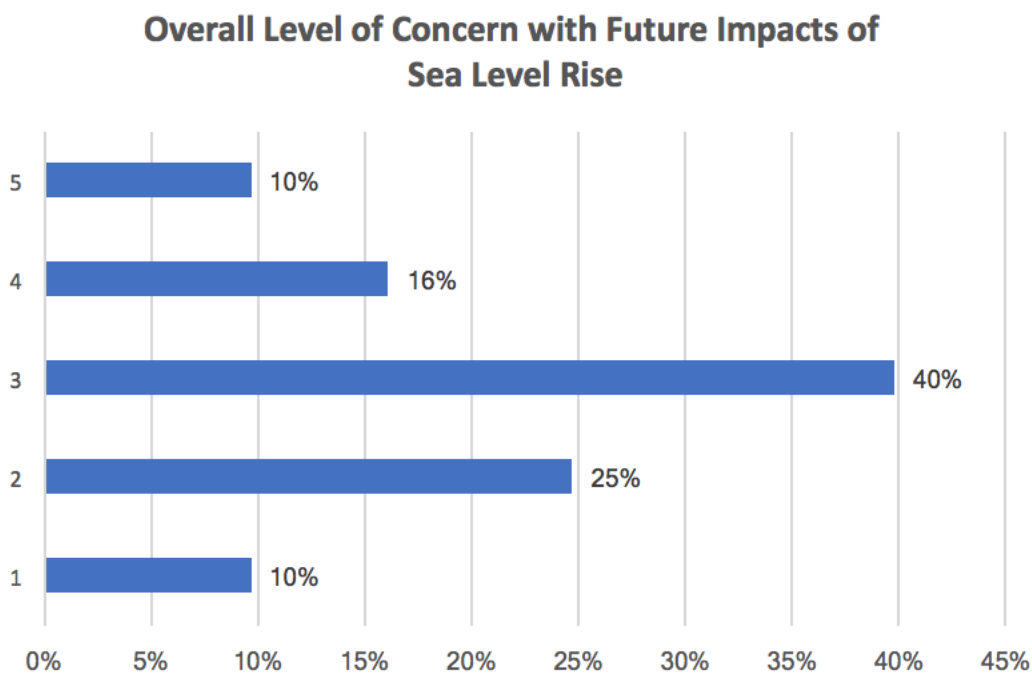


Figure 5. Most respondents surveyed had a medium level of concern with future impacts of sea level rise (40%), followed by 25% who had a low level of concern. 16% had a high level of concern. Only 10% of respondents had a very low level of concern. Likewise, at the other extreme, only 10% of respondents had a very high level of concern with future impacts of sea level rise in Collier County.

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What is Your Overall Level of Concern with Extreme Weather for Sarasota County?

Respondents were asked to rate their overall level of concern with extreme weather for Sarasota County. They chose from the following responses: 1-None, 2-Low, 3-Medium, 4-High and 5-Very High.

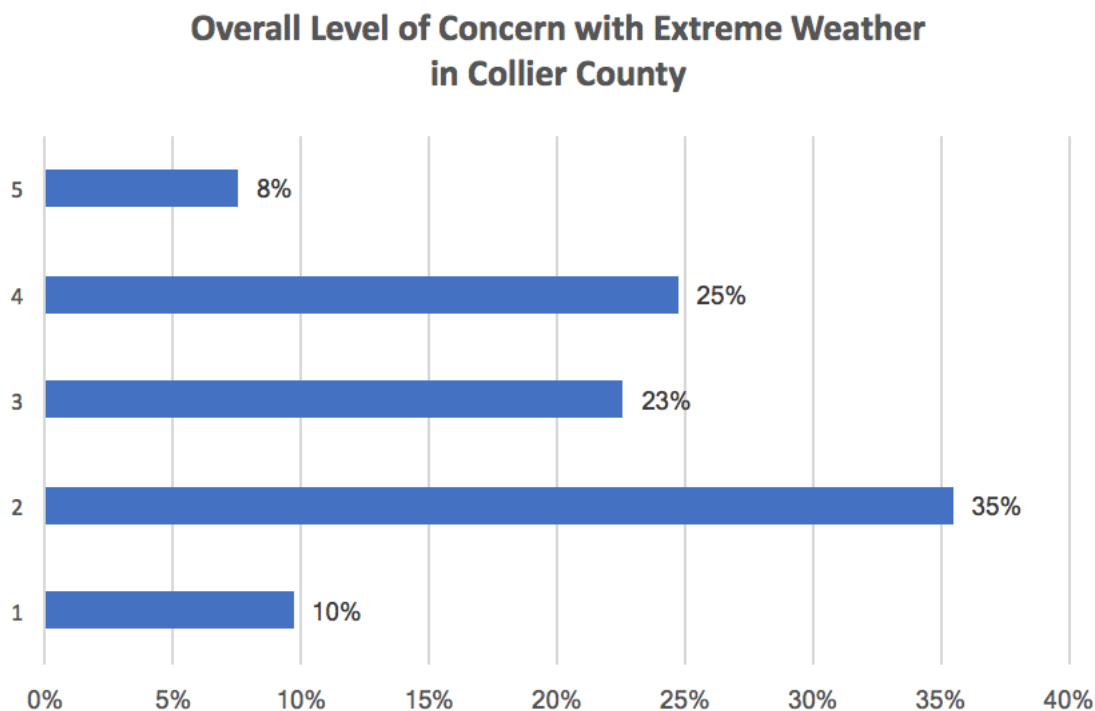


Figure 6. Only 8% of respondents reported a very high level of concern with extreme weather in Collier County, although 25% reported a high level of concern and 23% reported a medium level of concern. 35% of respondents expressed a low level of concern and 10% had no concern.

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Where you live, how many feet deep into the ground do you think that you would have to dig before you got to water (either freshwater or saltwater)?

The difference between the actual depth to groundwater and the depth to groundwater entered by the respondent was calculated. Responses with a depth to groundwater greater than their actual depth to groundwater were found to underestimate their risk.

Table 2. Criteria for characterizing residents' estimates

Widely underestimated	Twice the actual depth or more
Underestimated	From the actual depth to twice the actual depth
Exact	3.26 ft taken as the most recent USGS ⁹ measure on 22 Feb 2017 at the northeast corner of the intersection of Saint Andrews Boulevard and U.S. Highway 41
Overestimated	Half actual depth to actual depth
Widely Overestimated	Less than half of actual depth

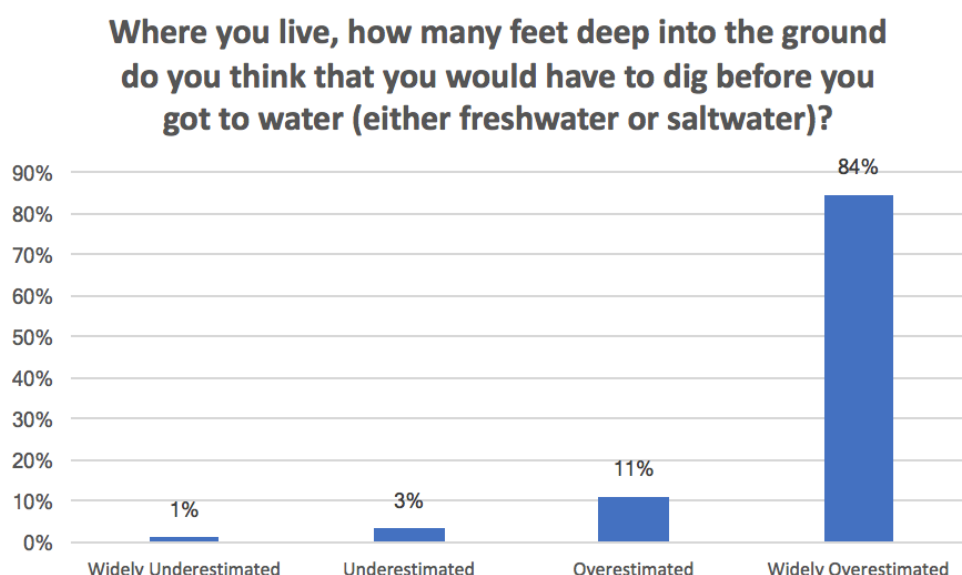


Figure 7. Fully 84% of respondents widely overestimated their depth to the water table, and 11% overestimated it. The depth that a resident would have to dig to reach water was widely underestimated by only 1% of respondents and underestimated by another 3%.

⁹ "USGS Groundwater for Florida: Water Levels -- 1 Sites." *USGS Groundwater for Florida: Water Levels -- 1 Sites*. USGS, n.d. Web. 30 Mar. 2017. <https://nwis.waterdata.usgs.gov/fl/nwis/gwlevels/?site_no=260549081441901&agency_cd=USGS&=>>

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Residents' Strongest Concern for Collier County

The Sea Level Rise Risk Perception Survey asked respondents to choose their strongest concern for Collier County from six multiple choice options: Water Quality, Insurance, Erosion, Property Value, Extreme Weather and Other, with a blank to record Other concerns. The percentages below reflect all selections of each concern as a percentage of the responses from all 93 residents.

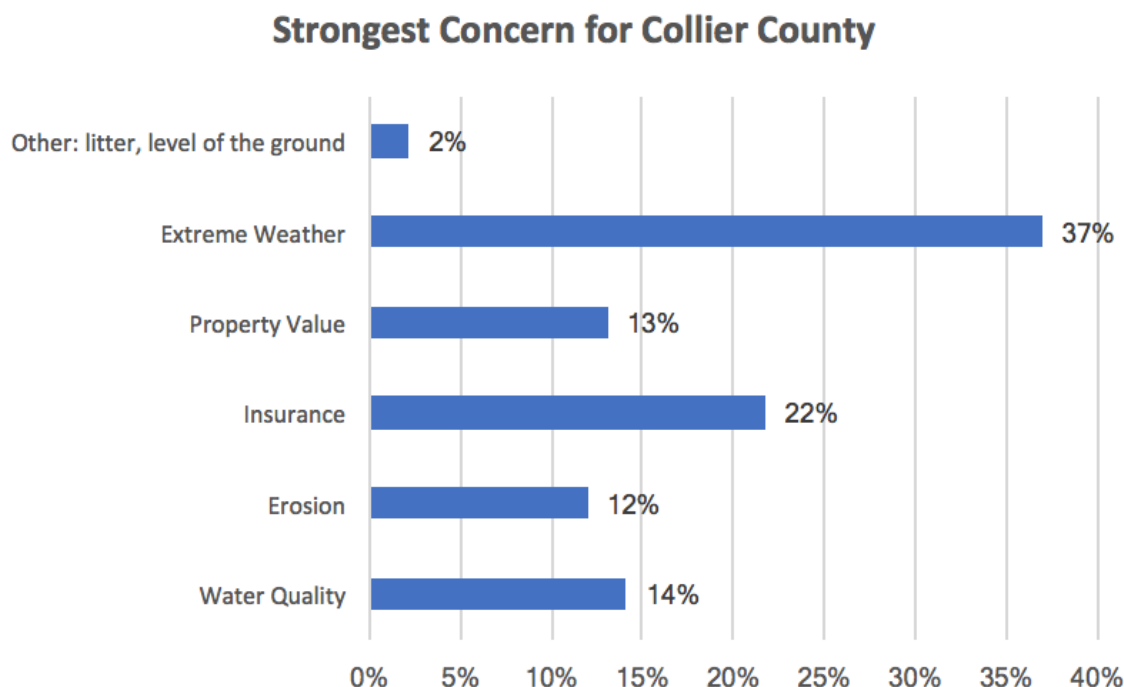


Figure 8. Extreme weather was identified by 37% of respondents as their strongest concern for Collier County, followed by Insurance (22%), Water Quality (14%), Property Value (13%) and Erosion (12%). An additional 2% of residents identified other concerns, which were litter, and the level of the ground.

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Comments Explaining Residents' Strongest Concerns

Water Quality Comments

Caldwell St.	because of growth and building
College Park Cir.	running out of water
Confederate Dr.	not being able to have drinking water
Flemming St.	Because the water may be contaminated I don't want to drink it
Georgia Ave.	water is valuable and it can get messy to keep clean
McCarty St.	The family drinks tap water sometimes

Extreme Weather Comments

Broward St.	because extreme weather may lead to death
Caldwell St.	when we have extreme weather it messes up our house
Carlton St.	tornado, earthquake and hurricane and other severe weather
Carlton St.	floods and fires
Carlton St.	flooding happens when it rains heavy
Dixie Dr.	at times there could be a tsunami, hurricanes, tornadoes, etc
Dixie Dr.	hurricanes that happen
Dixie Dr.	If the temperature is hot, it isn't good for your body
Holland St.	Times are changing and each storm is worse than the last
Jennings St.	not having proper protection for extreme weather
Martin St.	Naples is crazy and has bipolar weather
Martin St.	tornado
Martin St.	level 5 hurricanes could happen
McCarty St.	Florida is very close to the water and as the water is rising everything will change in Florida because it is so close to the water. One day Florida might be under water.
Texas Ave.	tornadoes, floods etc.

Property Value Comments

College Park Cir.	because it's expensive in Naples
Grantham Dr.	homes can get expensive
Confederate Dr.	My house is my only asset.
Hardee St.	It worries you, with moving and payments
Caldwell St.	not having enough money
Hardee St.	the purchase and sale of homes would be much different
Hardee St.	damage in property

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Insurance Comments

Carlton St.	having money problem to pay for insurance
Carlton St.	interest rate goes up each year
Floridan Ave.	People's houses will get damage, people will lose their property and they will have to pay for it.
Gilchrist St.	If there is a problem, insurance helps you -- if not then you're doomed
Gilchrist St.	the price's rise making it harder for people
Hardee St.	most families don't have flood insurance on their homes
Hardee Sr.	My concern about Collier County sea level and extreme weather is high but low because I don't really see anything happening but the weather change
Trammel St.	concerned about high price of flood insurance
Trammel St.	Over time the weather will be too extreme that we won't be able to step outside
Trammel St.	People don't have good insurance and it's wrong
Trammel St.	if something happens we need insurance
Trammel St.	If you don't have insurance, you lose everything and will have to start from scratch

Erosion Comments

Sholtz St.	too much building
Catts St.	because it's occurring right now

Other:

Georgia Ave.	Litter: I walk my dog every morning and notice huge amounts of litter everywhere
McCarty St.	level of the ground is slanted

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What flood related impacts have you experienced in your neighborhood?

Residents' Comments Regarding Flooding

Broward St.	no
Caldwell St.	None
Catts St.	no
College Park Cir.	hurricanes
Collins Rd.	None really - maybe minor flooding
Collins Rd.	street flooding
Collins Rd.	street flooding
Collins St.	high tide flooding
Confederate Dr.	flooding with no rain
Confederate Dr.	high tide flooding
Confederate Dr.	high tide flooding
Confederate Dr.	We have experienced high tide flooding in our neighborhood before
Confederate Dr.	high tide flooding
Confederate Dr.	high tide flooding
Dixie Drive	high tide flooding
Flemming St.	no
Georgia Ave.	erosion due to flooding may cause foundation problems. I notice cracks
Georgia Ave.	saltwater
Gilchrist St.	no
Hardee St.	no
Hardee St.	none
Hardee St.	flooding with rain
Holland St.	No actual flooding but heavy rain that could result in flooding
Jennings St.	flooding with no rain
McCarty St.	None
Sholtz St.	None.
Sierra Grande	None
Trammel St.	So far I have not experienced any flood-related impacts in my neighborhood that I am aware of
Trammel St.	None
Trammel St.	No
Trammel St.	No
Trammel St.	none

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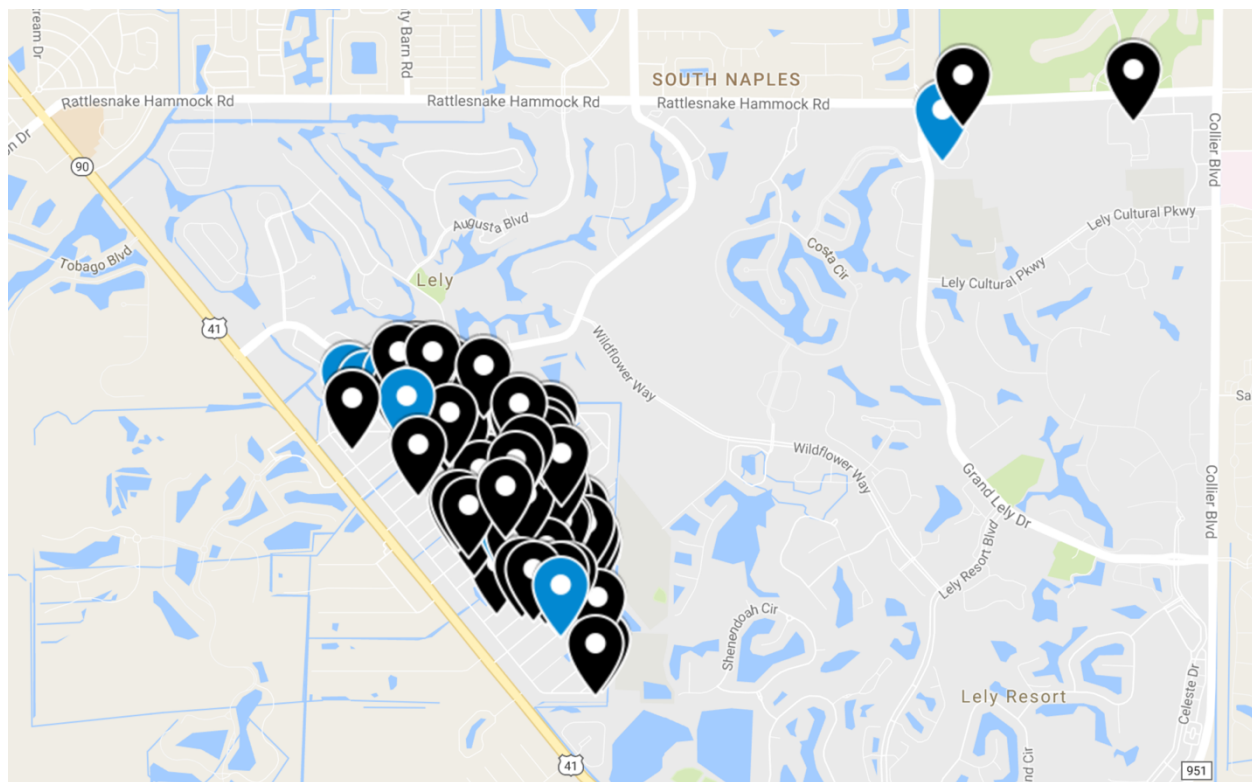
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Mapped Reports of Flooding

In response to the question, “What flood related impacts have you experienced in your neighborhood?” 45.5% of respondents indicated that they had experience with flooding. All households surveyed are mapped below. To obtain a link to the Google Map with all flooding comments from surveys, together with addresses, contact Janice T. Booher at JJLBooher@comcast.net. Comments regarding flooding are available by clicking the icons when the password is entered.



Legend

Black - Households that did not report experience with flooding

Blue - Households that reported experience with flooding

Icons with an X – households that mention drainage in their comments

Figure 9. The geographic locations of all respondents are shown in the map above. All but 3 of the responding households were located between Route 41 and Wildflower Way, south of St. Andrews Blvd.

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Detail Map of Naples Area Manor Respondents

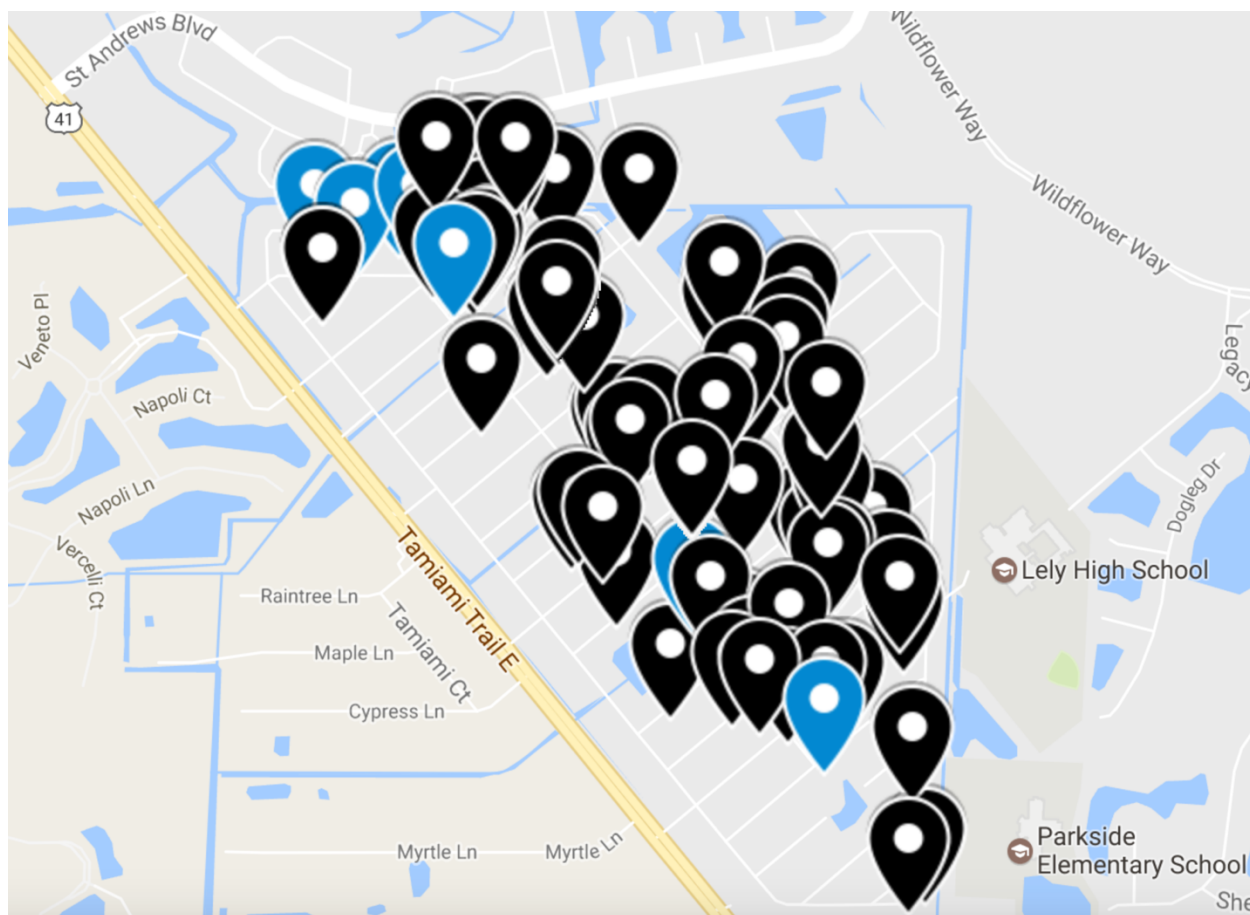


Figure 10. Only 16% of responding households reported experiencing flooding in their current home. Several of these homes, responding with the comment “high tide flooding” were concentrated on Confederate Drive (6.5%). There was a report of flooding with no rain on Jennings St. All comments are reported on page 16.

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Mold, Asthma and Water Contamination

Residents were asked, “Have you or anyone in your household experienced any of the following at your current address?” Respondents circled Yes or No in response to Mold, Asthma and Water Contamination.

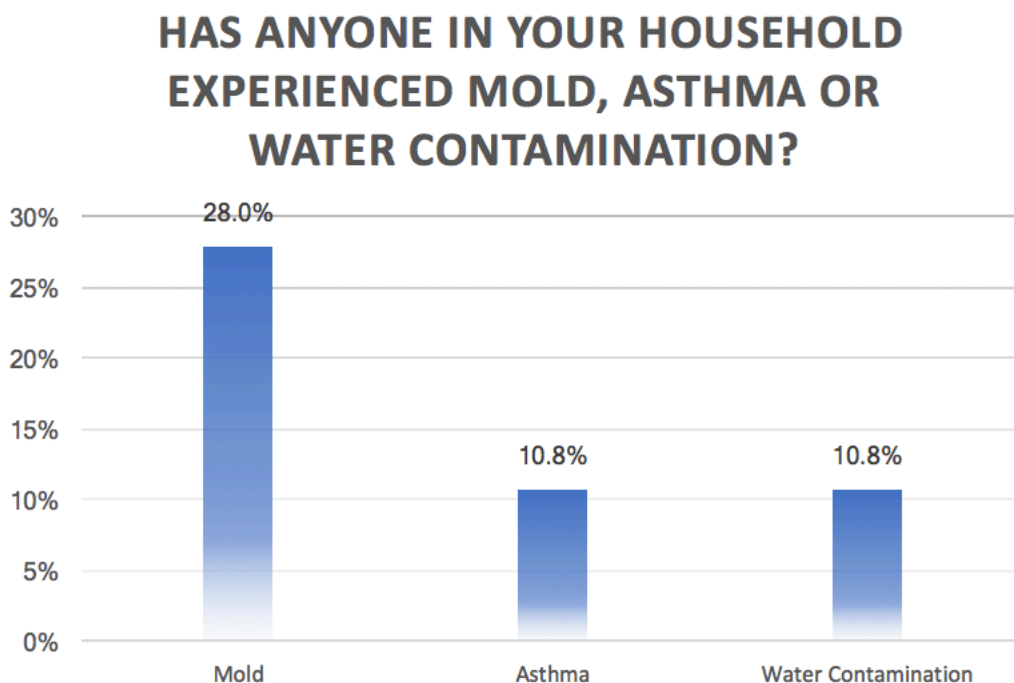


Figure 11. Slightly more than a third (34%) of residents surveyed reported experiencing mold at their current address. Asthma was experienced by 18% of responding households, and 13% of households reported experience with water contamination.

Florida CHARTS reports the Collier County adult asthma prevalence in 2013 was 3.2%.¹⁰ This means that the prevalence of asthma among residents responding to the survey (18%) is five times the 2013 county prevalence. It is therefore important that 34% of residents sampled also experienced mold, because mold is a common asthma trigger.¹¹

¹⁰ "FLHealthCHARTS BRFSS Indicators Dataview Page." Florida Department of Health, Division of Public Health Statistics & Performance Management., n.d. Web. 30 Mar. 2017 <http://www.flhealthcharts.com/charts/Brfss/DataViewer.aspx?bid=0020>

¹¹ "Common Asthma Triggers." *Centers for Disease Control and Prevention*. Centers for Disease Control and Prevention, 20 Aug. 2012. Web. 16 Feb. 2017. <https://www.cdc.gov/asthma/triggers.html>

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Naples Contributors to Project Success

Naples Manor Community Leaders

Pastor Jean R. Paul, Minister of the Naples New Haitian Church of the Nazarene

Angela Cisneros, Community Organizer

Unitarian Universalist Congregation of Greater Naples leaders

Barbara Glasgow

Phyllis Andrews

Paul Van Valkenberg

Outreach Team Members

Bertha Castro

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Christelle Garcon

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Bergeline Augustine

Angela Cisneros

Renisha Pavilus

Government officials

Donna Fiala, Collier County Commissioner, District One

County Growth Management Department

Howard Critchfield, Floodplain Coordinator

Caroline Cilek, Land Development Code Manager

Kamila M. Diddle, Senior Environmental Specialist

Special Thanks to

Rev. Lisa Lefkow, Executive Director of Development & Administration

Habitat for Humanity of Collier County

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Appendix A

Health and Climate Outreach Sheet (English) – p. 22
Health and Climate Outreach Sheet (Creole) – p. 24
Health and Climate Outreach Sheet (Spanish) – p. 26

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Rising Together: Temperature, Water, Health and Strength

2017

Developed by Dr. Ana Puszkín-Chevlín

Green Sanctuary Committee of UUFCGN

Developed under EPA Grant #EQ-00D35415-0

Greater Naples Contacts

Greater Naples Fire Rescue
Station 21 239-774-1700

Collier County Contacts

Collier County Sheriff's office 239 252-9400
East Naples Substation

Collier County Flood Information Hotline 239 252-2942

Collier County Road Maintenance 239 252-8924
for drainage system maintenance – to report a ditch or
culvert that needs to be cleaned

FPL Emergency Service Number 1-800-468-8243
to report hazardous conditions such as a downed power line

Report Mosquito Infestations to

Mosquito Control Division (239) 436-1000



Keeping citizens informed.

Sign Up for telephone alerts
<https://public.coderedweb.com/cne/en-US/BFB7CC4C6C0A>

State of Florida Contacts

Florida Emergency Information Line (800) 342 3557

Florida Department of Emergency Management
(850) 413-9969 Hearing Impaired (800) 226-4329

Florida Dept. of Public Health – (850) 245-4240
Public Beach Water Program

Florida Dept. of Health Zika Information Hotline 1-855-622-6735

Report ALGAE Blooms to Dept. Environmental Protection,
Bureau of Labs (850) 245-8077 or Dept. of Health,
Aquatic Toxins Program (850) 245-4250

This project is funded in part by the Unitarian Universalist Fund for Social Responsibility.
This project is funded in part by the Unitarian Universalist Fellowship of Boca Raton Endowment Fund.
Development of the ReACT Tool Kit was funded by EPA Grant EQ-00D35415-0 to the Green Sanctuary Committee of UUFBR.

Radio Stations with Emergency Information

The National Weather Service broadcasts continually over NOAA Weather Radio at 162.525 mHz.

Emergency updates can also be heard on **WGCU 90.1 FM**
on **Fox News**

92.5 FM, and other local radio and television stations.

Evacuation Zones and Routes

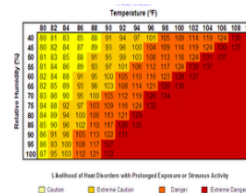


ReACT Tool Kit
www.ReACTToolKit.net

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Watch for Heat Index and Air Quality Alerts

- Information about the heat index can be found at www.nws.noaa.gov/om/heat/heat-illness.shtml
- Get air quality reports from www.airnow.gov.
- Be cautious if heat index is over 103°. Vulnerable populations are at risk with a heat index of 91°
- Remain indoors in air-conditioned places during heat waves and poor air quality days
- If outdoors, avoid strenuous activity, and stay hydrated.
- If you shelter in place, stock 1 gallon of water, per person, per day, 3-day supply, plus food.



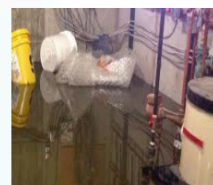
Be Safe During Storms and Floods

- Keep storm drains, canals and gutters clear of debris to prevent floods and water damage.
- Stay Informed. Create a plan with your family and have an emergency kit prepared.
- Communicate with family, friends and neighbors about your emergency plan.
- If you shelter in place, stock 1 gallon of water per person, per day; a 4-5 day supply, plus food.
- **STAY OUT** of floodwaters. 6" of moving water can sweep you off your feet. Water depth is difficult to gauge



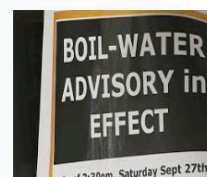
Assume Standing Floodwater is Contaminated

- Floodwaters are often contaminated with fuel, chemicals, sewage and bacteria.
- Avoid ALL contact with floodwaters, and avoid inhaling evaporating fumes.
- Clean all hard surfaces with a solution of 1.5 cup bleach to 1 gallon of water.
- Wear rubber boots and gloves and a mask during cleanup.
- Do not expose open wounds to flood waters.



Heed the Boil Water Alert Guidelines

- Don't use tap water to make ice, prepare food or brush teeth. Use bottled water if possible.
- Don't wash dishes, glasses, or cutlery in tap water. Use boiled water.
- Don't wash hands, expose open wounds or bathe babies in tap water.
- Bring water to a rolling boil for a minimum of 1 minute, or disinfect with 8 drops of unscented bleach per gallon of water, stir and let it stand for 30 minutes before you use it.
- After a boil water alert is finished, run the water from all faucets for 5 minutes and change filters of water and ice systems.



Minimize Mold Growth

- Molds are allergens; some produce toxins or release volatile compounds from materials.
- Active mold is black, green or pink. Inactive mold is powdery and often white, but will reactivate with moisture.
- To prevent mold, dry things as quickly as possible.
- Throw out items that have been wet for more than 48 hours. Freezing deactivates mold.
- Homeowners can clean moldy areas less than 10 square feet with a solution of 1 cup bleach per 1 gallon of water. Wear gloves and a mask. Professionals should address larger mold areas and clean air-conditioning systems.



Limit Exposure to Mosquitos and Algae

- Eliminate mosquito-breeding areas. Drain items that collect water outdoors including flower pots, bird baths, buckets, drums, child pools, etc.
- Minimize mosquito bites. Wear long sleeves, long pants and socks outdoors, especially around dawn and dusk
- Use insect repellent with DEET or oil of lemon eucalyptus. Limit DEET exposure in young children by washing it off before bed.
- Report algae blooms to Florida DEP, Bureau of Labs (850) 245-8077. Algae can be toxic and must be tested.



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Monte Ansanm: Tanperati, Dlo, Sante ak Fòs

Develope pa Dr. Ana Puszkun-Chevin

Green Sanctuary Committee of UUCGN

EPA Grant #EQ-00D35415-0

2017

Kontak Greater Naples

Greater Naples Ponpye ak Sekou
Station 21 239 774-1700

Kontak Konte Collier

Konte Collier Sheriff (239) 252-9400
East Naples Substation

Enfòmasyon Inondasyon Konte Collier Liy Dirèk
(239) 252-2942

Road Konte Collier Antretyen (239) 252-8924
pou antretyen sistèm drenaj - fè rapò yon twou oswa
kanivo ki bezwen yo dwe netwaye

Nimewo FPL Ijans Lapòs 1-800-468-8243
fè rapò kondisyon danjere tankou yon liy elektrik ki tonbe

Rapòte Enfeksyon Marengwen nan
Divizyon Kontwòl pou Marengwen (239) 436-1000

Siyou pou alèt telefon sou
CODE RED <https://public.codedredweb.com/cne/en-US/BFB7CC4C6C0A>
Keeping citizens informed.

Kontak Pou Eta Florid

Liy Enfòmasyon Ijans pou Florid (800) 342 3557

Depatman Jesyon Ijans pou Eta Florid (850) 413-9969
Moun ki mal pou tande (800) 226-4329

Depatman Sante Eta Florid - Pou teste dlo (850) 245-4240
Pwogram Dlo Piblik Beach

Rapòte alg kap fleri nan: Depatman pou Pwoteksyon
Anvironman, Biwo Laboratwa (850) 245-8159 oswa Depatman
Sante. Pwoqram Dlo Toksik (850) 245-4250

Pwojè sa a se finanse an pati pa unitèr univèrsalist Fon an pou Responsablite Sosyal.
Pwojè sa a se finanse an pati pa unitèr univèrsalist Fellowship nan nan Boca Raton
dotasyon fon.
te Devlopman nan Twous la reyaji Zouti finanse nan EPA Grant EQ-00D35415-0 bay
Komite a Tanp Green nan UUFBR.

Stasyon Radyo avèk Enfòmasyon Ijans

Sèvis Nasyonal Metewoloji emisyon toujou sou Radyo
Lameteyo NOAA a 162,535 megaèrts.

dènye Ijans kapab tou gen pou tande sou **WGCN 90,1 FM** sou **Fox News**

92,5 FM, ak lòt estasyon radyo ak televizyon lokal yo.

Wout ak Zòn Evakyasyon

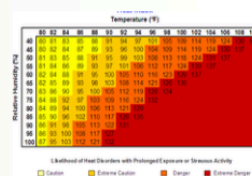


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Siveye pou endèks Chalè ak Kalite Lè ki avèti

- Nou ka jwenn enfòmasyon pou endèks chalè sou www.nws.noaa.gov/om/heat/heat-illness.shtml
- Resewwa rapò sou kalite lè sou www.airnow.gov,
- Rete andedan kay la nan ki gen èkondisyon kote pandan vag chalè ak pòv jou kalite lè
- Si devò. evite aktivite difisil. epi rete idrate.
- Si ou refij an plas, stock 1 galon dlo, pa moun pa jou, Ekipman pou 3 jou, plis manje.
- Endèks chalè ki depase 103°, Fè Atansyon! Popilasyon moun ki vilnerab yo gen gwo risk avèk yon endèks chalè ki rive 91°



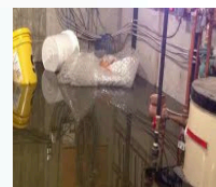
Rete an Sekirite Le gen Inondasyon

- Kenbe odtoki tanpèt, kanal ak goutyè klè san debri pou ka anpeche inondasyon ak domaj dlo
- Rete enfòme! Kreye yon plan ak fanmi ou e genyen yon bwat pou ijans, anvan emejensi a rive.
- Kominike ap fanmi ou, zanmi ou vwazen ou sou plan emejensi ou la.
- Si ou rete yon sèl plas, mete nan depo yon galon dlo pou chak jou pou chak moun ak manje.
- **RETE LWEN** dlo inondasyon. 6 pye dlo kap deplase ka koz ou pèdi pye. Li trè difisil pou konnen ki pwofondè dlo epi ka gen materyèl danje anba dlo a san ou pa konnen.



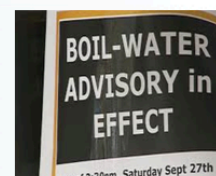
Sipoze tout dlo kanpe, se dlo ki kontamine

- Dlo inondasyon souvan kontamine ak gaz, pwodwi chimik, dechè toksik ak bakteria.
- Evite tout kontak ak dlo inondasyon, epi evite vale vapè kap soti nan dlo sa yo.
- Netoye tout sifas ak solisyon 1.5 gode klorox pou chak galon dlo.
- Mete bòt kawoutchou ak gan epi yon mask lè ou ap fè netwoyaj.
- Pa ekspozè okenn blese nan dlo inondasyon. Voye jete tout manje ki touche ak dlo inondasyon. Dezenfekte manje nan manmit.



Obeyi ak Gid Avètisman pou Bouyi Dlo

- Pa bwè, fè glas, prepare manje oswa bwose dan ak dlo tiyo. Itilize dlo nan boutèy si posib.
- Pa lave veso, vèsè tankou kiyè, kouto ak fouchèt. Itilize dlo ki bouyi.
- Pa lave men, ekspozè blesi, oswa benyen timoun nan dlo tiyo.
- Mete dlo a bouyi pou pi piti 1 minit, oswa dezenfekte li ak 8 gout klorox ki pa gen sant pou chak galon dlo.
- Apre yon avètisman pou bouyi dlo fini, ouvri tout fosèt ki nan kay ou e kite dlo a koule pou 5 minit epi chanje filtè dlo ou yo.



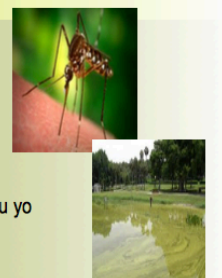
Diminye Limon kap Grandi

- Limon se alèrjen ke yo ye. Se toksen kèk pwodi ki melanje ansanm oswa pwodi konpoze kek materyèl.
- Limon ki aktif yo tou nwa, vèt, oswa roz. Sa ki pa aktif yo tankou poud, e yo kèkfwa blanch, men lè yo jween imidite, yo aktive ankò.
- Pou evite limon, seche tout bagay byen rapid.
- Jete tout bagay ki mouye pou plis pase 48 èd tan. Frizè ka deaktive limon.
- Moun ki gen kay ka netwaye kote ki gen limon ki mwen ke 10 pye kare ak solisyon 1 gode klorox pou yon galon dlo. Mete gan ak mask. Selman pwofesyonel sipoze netwaye kote ki pi gran ke 10 pye kare.



Limite Ekspozisyon ak Marengyen ak Alg

- Elimine zon kote marengyen ka repwodwi. Vite tout atik ki ka kenbe dlo tankou po flè, kote zwazo benyen, bokit, tanbou, ak pisine timoun. ect.
- Diminye kout dan marengyen. mete bagay manch long, pantalon long ak chosèt lè nou deyò espesyalman lè li pral fè nwa.
- Itilize pwodi pou repouse moustik avèk DEET oswa lwil sitron eucalyptus. Evite kite DEET sou timoun, lave l sou yo anvan yo al kouche.



with the Habitat for Humanity in Naples Manor.

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Elevándonos Todos Juntos: Temperatura, Agua, Salud y Fuerza

2017

Desarrollado por Dr. Ana Puzsikin-Chevin

Green Sanctuary Committee of UUCGN

EPA Grant # EQ-00D35415-0

Contactos Greater Naples

Estación de Bomberos Greater Naples
Estación 21 239-774-1700

Contactos en Condado de Collier

Sheriff del Condado de Collier (239) 252-9400
Subestación de East Naples

Línea directa de información sobre inundaciones del Condado de Collier (239) 252-2942

Mantenimiento del sistema de drenaje-para informar de una zanja o alcantarilla que necesita ser limpiada

Número de Servicio de Emergencia FPL 1-800-468-8243
Para reportar condiciones peligrosas como una línea de alimentación caída

Reportar Infestaciones de Mosquitos a la División de Control de Mosquitos (239) 436-1000



Regístrese para alertas telefónicas
<https://public.coderedweb.com/cne/en-US/BFB7CC4C6C0A>

Contactos en Estado de la Florida

Línea de Información de Emergencias Florida (800) 342 3557
Depto. de Gestión de Emergencias Florida (850) 413-9969
Discapacitados Auditivos y Sordos (800) 226-4329
Depto. de Salud Pública de la Florida – Análisis de agua (850) 245-4240

Informe de Infestación de Algas al Depto. de Protección Medioambiental, División de Laboratorios (850) 245-8159 ó
Depto. de Salud, Programa de Aguas Tóxicas (850) 245-4250 (850) 245-4250

Este proyecto es financiado en parte por el Fondo Unitario Universalista para la Responsabilidad Social.
Este proyecto es financiado en parte por la Unitarian Universalist Fellowship del Boca Raton Endowment Fund.
El desarrollo del kit de herramientas ReACT fue financiado por la EPA Grant EQ-00D35415-0 al Comité del Santuario Verde de UUFBR.

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Estaciones de Radio con Información de Emergencias

El Servicio Nacional del Tiempo transmite continuamente sobre NOAA Weather Radio a **162.525 MHz**.

Actualizaciones de emergencia también se pueden escuchar en **WGCN 90.1 FM en Fox News**

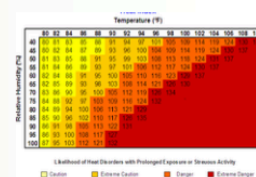
92.5 FM, y otras estaciones locales de radio y televisión.

Zonas y Rutas de Evacuación



Alertas sobre el Índice de Calor y Calidad del Aire

- Información sobre el índice de calor: www.nws.noaa.gov/om/heat/heat-illness.shtml
- Información sobre la calidad del aire de www.airnow.gov
- Tenga cuidado cuando el índice de calor supera los 103°. Las poblaciones vulnerables corren riesgo cuando el índice de calor llega 91°
- Permanecer bajo techo en ambientes con aire acondicionado durante olas de calor y días de pobre calidad del aire.
- Evitar la actividad extenuante estando al aire libre y mantenerse hidratado.



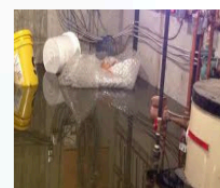
La Seguridad durante Tormentas e Inundaciones

- Mantener drenajes, canales y canalones libres de escombros para prevenir daño por agua de inundación.
- Manténgase informado. Tenga preparado un plan y equipo de emergencia.
- Comuníquese con familiares, amistades, y vecinos.
- Si permanece en su hogar, mantenga una reserva de 1 galón de agua por persona por día y para 4 – 5 días, y una reserva de alimentos no perecederos.



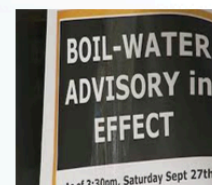
Asuma que Aguas de Inundación Estancadas estan Contaminadas

- Las aguas de inundación a menudo están contaminadas con combustibles, productos químicos, residuos cloacales, y bacterias.
- Evite todo tipo de contacto con aguas de inundación, y evite inhalar gases en estado de evaporación.
- Limpie superficies duras con una solución de 1,5 tazas de lavandina en un galón de agua.



Respete las Alertas Oficiales sobre Hervir el Agua

- No beber, hacer hielo, preparar alimentos, ni cepillarse los dientes con agua corriente. Use agua embotellada si es posible.
- No lavar platos, vasos, o cubiertos con agua corriente. Use agua hervida.
- No lavarse las manos, exponer heridas abiertas, ni bañar bebés con agua corriente.
- Hervir el agua durante un mínimo de 1 minuto, o desinfectarla con 8 gotas de lavandina por cada galón de agua, y aguardar 20 minutos antes de usar.
- Dejar correr el agua por la tubería durante 5 minutos una vez levantado el alerta de hervir el agua, y cambiar los filtros de agua y sistemas de hielo que se hayan contaminado.



Controle el Desarrollo del Moho

- El moho es alergénico, algunos mohos producen toxinas y pueden liberar componentes volátiles de materiales de construcción.
- El moho activo es de color negro, verde o rosado. El moho inerte tiene aspecto de polvo y a menudo es blanco, pero se reactiva cuando toma contacto con la humedad.
- Para evitar el desarrollo del moho, seque objetos inmediatamente después de usarlos.



Limite la Exposición a Mosquitos y Algas

- Eliminar áreas donde pueden reproducirse los mosquitos. Vacíe atefectos que recolectan agua afuera incluídas macetas, bebederos de aves, cubos, tambores, piscinas de niños, etc.
- Minimizar las picaduras de mosquitos. Use mangas largas, pantalones largos y medias cuando está afuera, especialmente al alba y al atardecer.
- Usar repelente para insectos con DEET o aceite de limón y eucalipto. Limitar la exposición al DEET de niños pequeños bañándolos antes de acostarlos.



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Appendix B

Sea Level Rise Risk Perception Survey (English) –	p. 28
Sea Level Rise Risk Perception Survey (Creole) –	p. 34
Sea Level Rise Risk Perception Survey (Spanish) –	p. 39

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Sea Level Rise Risk Perception in Collier County

Investigators: Barbara Glasgow and Jan Booher
This is a project of UU Justice Florida.

Thank you for your interest in taking this brief survey. It may take about 5 minutes to answer the questions below. Your participation in this survey is completely voluntary and your responses will remain confidential. The purpose of the survey is to measure perceived risk to sea level rise in Naples, FL, and to document residents' concerns and experiences related to extreme weather, flooding, mold, and asthma.

By completing the survey, you give consent to participate in this study.

If you have questions about the study, please contact: Barbara Glasgow barbaraglasgow43@gmail.com or Jan Booher JJLBooher@comcast.net

This Survey was developed by Dr. Keren Bolter - FAU Center for Environmental Studies kbolter@fau.edu, and modified for Naples by the UU Church of Greater Naples.

This is a project of UU Justice Florida.

This project is funded in part by the Unitarian Universalist Fund for Social Responsibility.

This project is funded in part by The Unitarian Universalist Fellowship of Boca Raton Endowment Fund.

* Required

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Section A - Background Information

*1) What is your zip-code **

*2) What city do you live in? **

3) What is the first line of your address?

(ex. 235 NW 5 St)

4) How would you rate your existing knowledge about sea level rise?

- ☐ Not at all familiar
- ☐ Somewhat familiar
- ☐ Very familiar
- ☐ Extremely familiar

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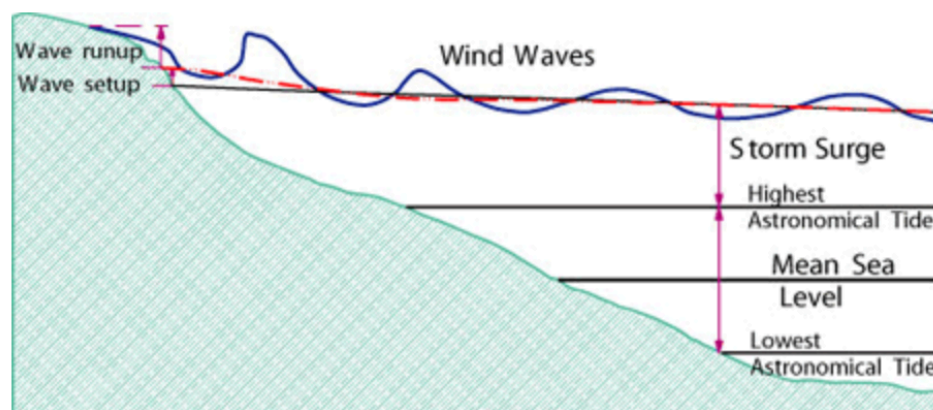
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Section B - Land Elevation, Water Levels, and Storms

Sea level rise is an increase in height of the sea's surface relative to land.

Mean Sea Level (MSL) is the average surface height of the ocean, about halfway between low and high tide. Land elevation is measured as a height above MSL.



*1) How many feet do you estimate your home to be above mean sea level? **

(If you don't know, please guess a number that seems reasonable to you.)

*2) Do you think that sea level rise is occurring in Collier County today? **

- ☐ Yes
- ☐ No

3) Where you live, how many feet deep into the ground do you think that you would have to dig before you got to water (either freshwater or saltwater)?

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Section C - Focusing on Risks Associated with Sea Level Rise and Extreme Weather

1) What is your overall level of concern with the future impacts of sea level rise for Collier County?

1 = none / 2 = low / 3 = medium / 4 = high / 5 = very high

1 2 3 4 5
none ○ ○ ○ ○ ○ very high

2) What is your overall level of extreme weather for Collier County?

1 = none / 2 = low / 3 = medium / 4 = high / 5 = very high

1 2 3 4 5
none ○ ○ ○ ○ ○ very high

3) Please choose your strongest concern for Collier County:

- ☐ Water Quality
- ☐ Erosion
- ☐ Insurance
- ☐ Property Value
- ☐ Extreme Weather
- ☐ Other:

4) Please briefly explain your chosen concern:

(optional)

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*5) What flood-related impacts have you experienced in your neighborhood? **

These may include high tide flooding, flooding with rain, or saltwater in retention ponds. (optional)

*6) Have you or anyone in your household experienced any of the following at your current address?**

Check those items that have been experienced in your household.

- ☐ Mold
- ☐ Asthma
- ☐ Water Contamination

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Lanmè Nivo Leve non Risk Pèsepsyon nan Lee County

Envestigatè: Barbara Glasgow ak Jan Booher

Sa a se yon pwojè nan UU Justice Florida

Mèsi pou enterè ou nan pran sondaj sa a kout. Li ka pran apeprè 5 minit reponn kesyon ki anba yo. Patisipasyon w nan sondaj sa a se konplètman volontè ak repons ou a ap rete konfidansyèl. Rezon ki fè sondaj la se ki mezire konnen risk nan nivo lanmè ogmantasyon nan Naples, FL, ak nan dokiman enkyetid ak eksperyans ki gen rapò ak move tan, inondasyon, mwazi, ak opresyon rezidan yo.

Lè ou konplete sondaj la, ou bay konsantman yo patisipe nan etid sa a.

Si ou gen kesyon sou etid la, tanpri kontakte: Barbara Glasgow

barbaraglasgow43@gmail.com oswa Janice Booher JJLBooher@comcast.net

Sa a te Sondaj devlope pa Dr. Keren Bolter - FAU Sant pou Etid anviwònman kbolter@fau.edu, ak modifye pou Naples pa Unitarian Universalist Church of Greater Naples.

Pwojè sa a se finanse an pati pa Unitarian Universalist Fund for Social Responsibility..

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Posyn A se enfomasyn pesonel ou.

*1) Kisa ki zip code ou? **

*2) Nan ki site ou rete? **

3) Kisa ki premye lign nan address ou?

(ex. 235 NW 5 St)

4) Kouman ou kalifiye nivo konesans ou sou nivo lanme?

- ☐ Ayen di tou
- ☐ Yon ti kras
- ☐ Mwen familye ave l'
- ☐ Mwen tre familye ave l'

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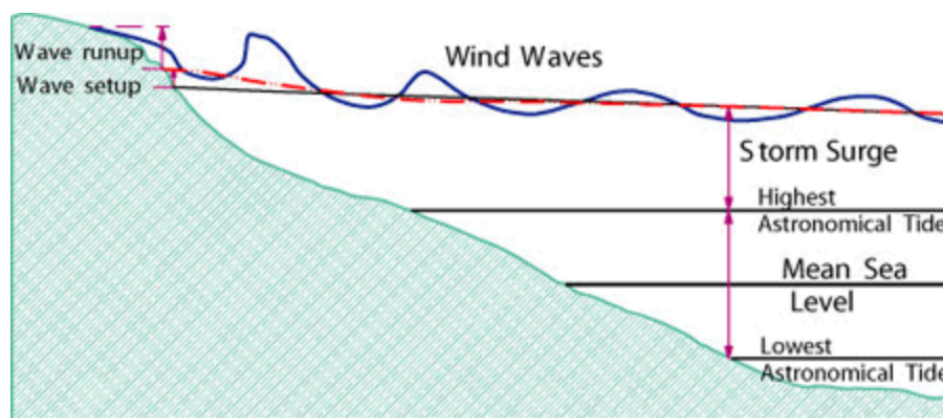
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Posyon B – Elevasyon te avek nivo dlo avek tampet

Le nivo lanme monte nan wote , li vin pi wo pase te a.

Vle di Lanmè Nivo (MSL) se wotè a sifas mwayèn nan oseyan an, sou mwaye chimen ant mare ba ak segondè. se elevasyon Tè mezire kòm yon wotè pi wo a MSL.



*1) Konbyen pye ou sipoze kay ou ye anwo nivo lanme le lanme a normal? **

(Si ou pa konnen, tanpri devine yon nimewo ki sanble rezonab ba ou.)

*2) Eske w kwe nivo lanme kap monte a ap fet nan Collier County jodi a? **

- ☐ Wi
- ☐ Non

*3) Kote w' rete a konbyen pye ou sipoze ou kapab fouye yon trou avan ou jwenn dlo? **

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Posyon C Focus nan dange asosye avek nivo lanme kap monte epi le tamperati a grave

1) Kisa ki pi preokipe w sou fiti konsekans nan nivo lanme kap monte nan Collier County?

1 = Ayen / 2 = Yon ti kras / 3 = Elis o mwen / 4 = Wo / 5 = Tre wo

1 2 3 4 5

Ayen ○ ○ ○ ○ ○ Tre wo

2) Kisa ki pi preokipe w sou fiti konsekans nan dange tampet nan Collier County?

1 = Ayen / 2 = Yon ti kras / 3 = Elis o mwen / 4 = Wo / 5 = Tre wo

1 2 3 4 5

Ayen ○ ○ ○ ○ ○ Tre wo

3) Tanpri shwazi sa ki pi fo, ki pi konsernew pou Collier County.

☐ Kalite dlo

☐ Ewozion

☐ Asirans

☐ Vale pwopriete

☐ Dange tamperati

☐ Lot bagay

☐ Other:

4) Tanpri, splike kisa w' shwazi ki pi konsernew"

(optional)

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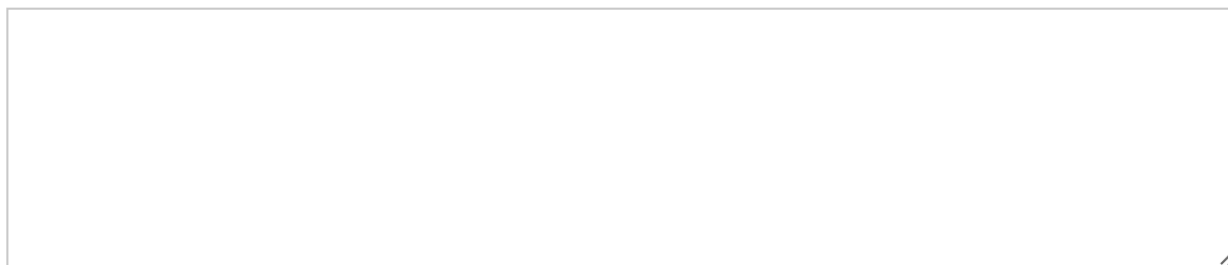
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5) *Ki domaj dlo desannn nan vwazinaj ou fe? **

Sa yo ka gen ladan segondè inondasyon mare, inondasyon ak lapli, oswa dlo sale nan etan retansyon. (Si ou vle)



6) *Eske ou menm oubyen moun lakay ou fe experians kek nan bagay sa yo:*

Tcheke sa yo ki atik ki te gen eksperyans nan lakay ou.

- ☐ Moul
- ☐ Opresyon
- ☐ Kontaminasyon dlo

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Encuesta de Percepción del Riesgo de Subida del Nivel del Mar en Collier County, FL

Investigadores: Barbara Glasgow y Jan Booher
Este es un proyecto de UU Justice Florida.

Gracias por su interés y participación en este estudio. Llevará aproximadamente 5 minutos contestar las preguntas abajo. Su participación en este estudio es completamente voluntaria y sus respuestas permanecerán confidenciales. El propósito de este estudio es medir el percibido riesgo aumento del nivel del mar en Collier County, FL y documentar las preocupaciones y experiencias de los residentes relacionadas con condiciones climáticas extremas, inundaciones, moho y asma.

Una vez completadas las preguntas, usted dio el su consentimiento para participar en este estudio.

Si usted tiene preguntas acerca de este estudio, por favor contacte a: Barbara Glasgow barbaraglasgow43@gmail.com
o Jan Booher JJLBooher@comcast.net

Esta Encuesta fue desarrollada por Dr. Keren Bolter - Center for Environmental Studies at FAU kbolter@fau.edu y modificada para Naples por Unitarian Universalist Church of Naples.

Este proyecto es financiado en parte por Unitarian Universalist Fund for Social Responsibility.

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Sección A - Información General

*1) Escriba su Código Postal **

*2) Ciudad de Residencia **

3) Calle de su Alojamiento Permanente

(ejemplo: 235 NW 5 St)

4) Como clasificaría su conocimiento acerca del incremento del nivel del mar.

- ☐ Completamente desfamiliarizado/a
- ☐ Un poco de conocimiento
- ☐ Muy familiarizado/a
- ☐ Extremadamente familiarizado/a

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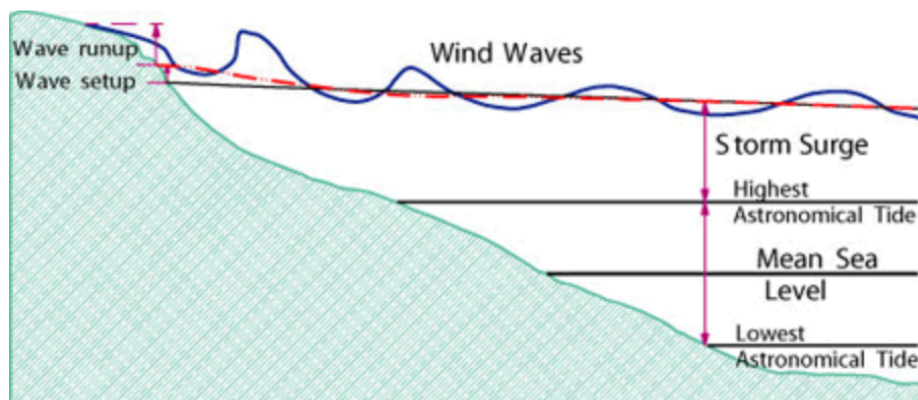
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Sección B - Elevación de la Tierra, Niveles de Agua, y Tempestades

Aumentos del nivel del mar es el incremento de la altura del mar con respecto a la tierra.

El nivel medio del mar (MSL) es la altura media de la superficie del océano, aproximadamente a mitad de camino entre la marea baja y la marea alta. La elevación de la tierra se mide como una altura por encima de MSL.



1) Cuantos pies usted estima que su casa está por arriba del promedio del nivel del mar? *

(Si no lo sabe, adivine un número que le parezca razonable.)

2) Usted piensa que en este momento hay un aumento del nivel del mar en Collier County? *

- ☐ Si
- ☐ No

3) En el área donde usted vive, cuantos pies de tierra tiene que escavar para encontrar agua (ya sea agua potable o agua salada)?

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Sección C- Concentrándose en los peligros asociados con el aumento del nivel del mar y climas extremos

1) En general, describa el grado de preocupación con respecto a los futuros impactos por los incrementos del nivel del mar en Collier County?

1 = none / 2 = low / 3 = medium / 4 = high / 5 = very high

1 2 3 4 5

Ninguno ○ ○ ○ ○ ○ Altísimo

2) En general, describa el grado de preocupación con respecto a los futuros impactos y los cambios de climas extremos en Collier County?

1 = none / 2 = low / 3 = medium / 4 = high / 5 = very high

1 2 3 4 5

Ninguno ○ ○ ○ ○ ○ Altísimo

3) Por favor elija su mayor preocupación para Collier County:

- ☐ Calidad de agua.
- ☐ Erosión.
- ☐ Seguros de propiedad
- ☐ Valor de la Propiedad.
- ☐ Cambios de clima extremos.
- ☐ Otros _____

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1) Por favor explique las razones de su preocupación?

(optional)

2) Qué impactos relacionados con las inundaciones has experimentado en tu vecindario?

(Estos pueden incluir inundaciones de marea alta, inundaciones sin lluvia, o agua salada en estanques de retención.)

3) ¿Usted o alguien en su hogar experimenta cualquiera de lo siguiente en su dirección actual?

Marque los elementos que se han experimentado en su hogar.

- ☐ Molde
- ☐ Asma
- ☐ Contaminación del agua

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