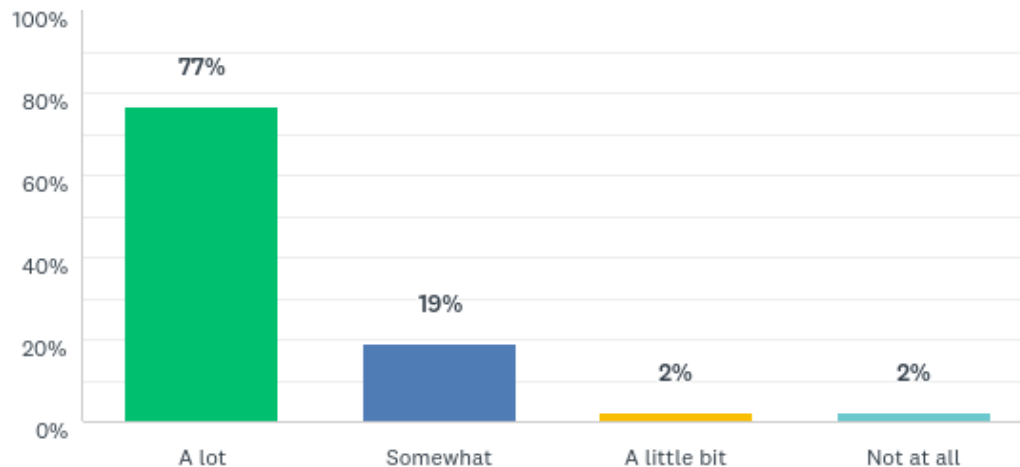


New Castle Resilient Community Partnership Workshop Comment Responses

DNREC Delaware Coastal Programs

How concerned are you about flooding in the City (within the City Limits of New Castle)?

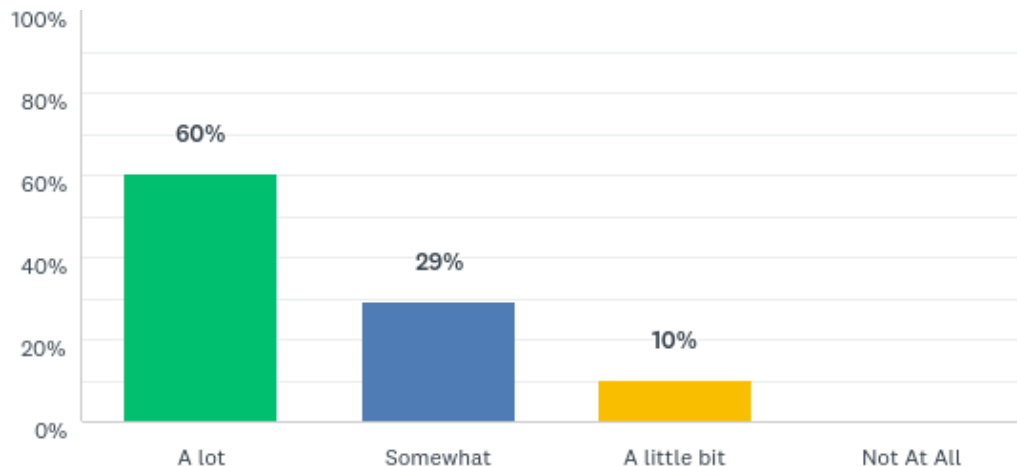
Answered: 47 Skipped: 1



ANSWER CHOICES	RESPONSES	
A lot	77%	36
Somewhat	19%	9
A little bit	2%	1
Not at all	2%	1
TOTAL		47

How concerned are you about flooding specifically in your neighborhood or area of town (or streets/area directly around your home)?

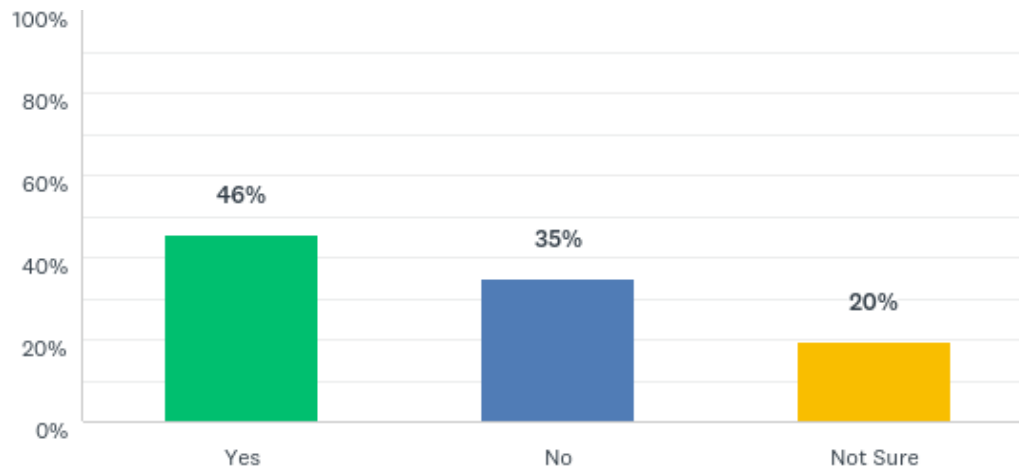
Answered: 48 Skipped: 0



ANSWER CHOICES	RESPONSES	
A lot	60%	29
Somewhat	29%	14
A little bit	10%	5
Not At All	0%	0
TOTAL		48

Is your neighborhood or area of town already prone to recurring flooding? (check one)

Answered: 46 Skipped: 2

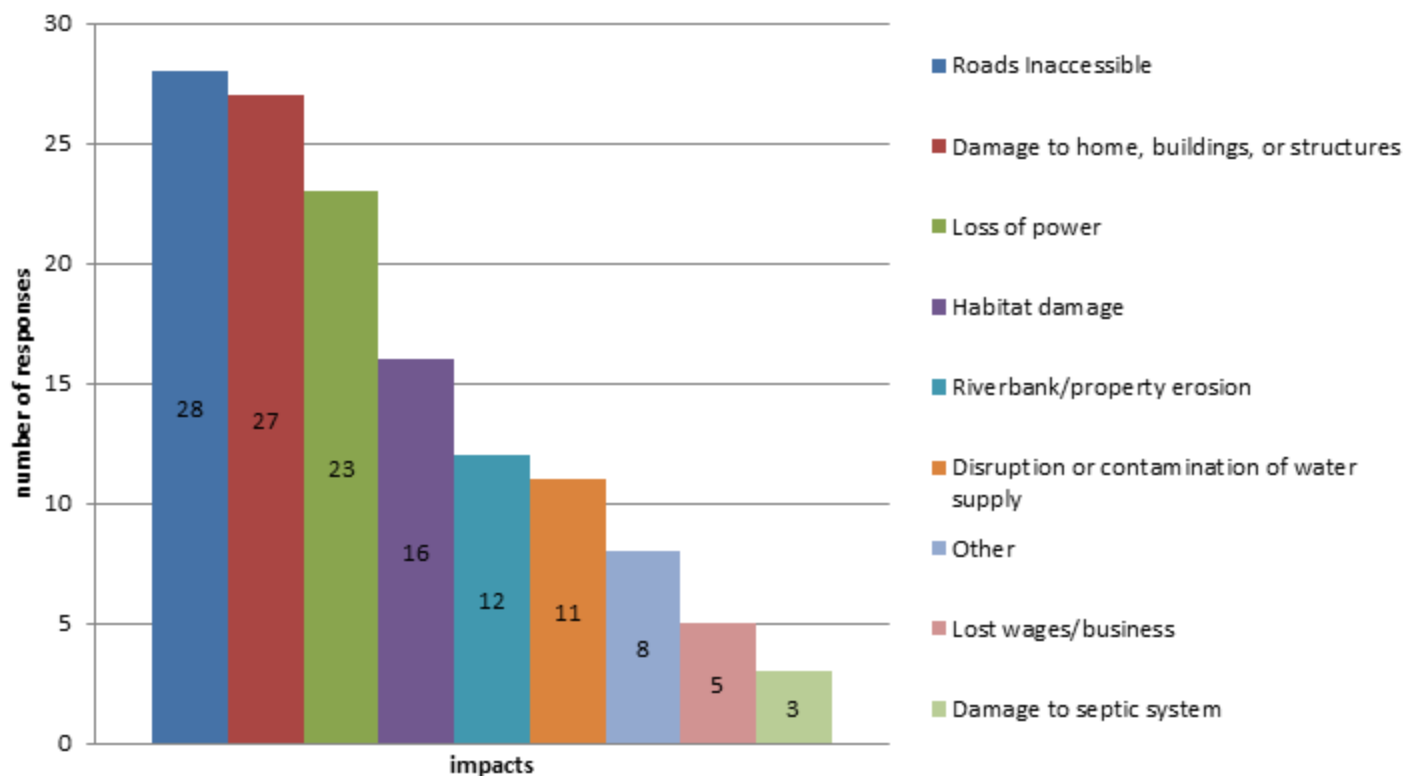


ANSWER CHOICES	RESPONSES	
Yes	46%	21
No	35%	16
Not Sure	20%	9
TOTAL		46

If yes or not sure, how often does flooding occur, how long does it last, and under what conditions?

Respondents	Responses
1	a lot of rain, comes from corner of Rt. 9 & Ferry cut off
2	Sandy forced water near to my residence.
3	Not really flooding but water in the basement
4	We flooded badly in Sandy, losing utilities and all possessions in basement. Water within 1" of back door. No dike protection in our area.
5	basement took water during Sandy
6	My house (#15) is dry so far. Others on the street flood.
7	In our home, once since 2011 - during Hurricane Sandy
8	-Intense rain events - snow fall over 6" - Normally takes 2-3 hours until drainage system catches up.
	Major storms
9	Several Days
10	1981 - 17 inches on park. Several years ago 4-5" 40 inches
11	Street can handle heavy rain, moves to sewers but they don't handle volume of water.
12	The streets flood in heavy rain. Water comes up over the curbs onto the sidewalk against house.
13	Goes away quickly when rain stops
14	~ 5 years
15	Basements "flood" regularly with any storms >1.5" - 2"
16	Yard floods every few years due to nor'easter or hurricane. Recedes as soon as tide goes down (low tide).
16	Storm surge; tidal flooding. Avg. 1x/year

How does flooding affect you in the City of New Castle?



Damage to home, buildings or structures Comments:

- Basement flooding
 - flooding of basements - HVAC, furniture, etc.
 - Water in our basement - not substandard
 - Slight water in basement
 - so far, minimal yard damage
-

Riverbank/property erosion Comments:

- potential for major loss of soil
 - we have been fortunate, however feel badly for others who experience flooding in N.C.
-

Loss of Power Comments:

- hurricane preparation, water, batteries, etc.
- rarely, but sump pump is ESSENTIAL

Lost Wages Comments:

- Cleanup
-

Habitat Damage Comments

- soil toxic from river - flotsam destroyed yard
- flooding of lawns and meadows destroys natural sites

Roads Inaccessible Comments

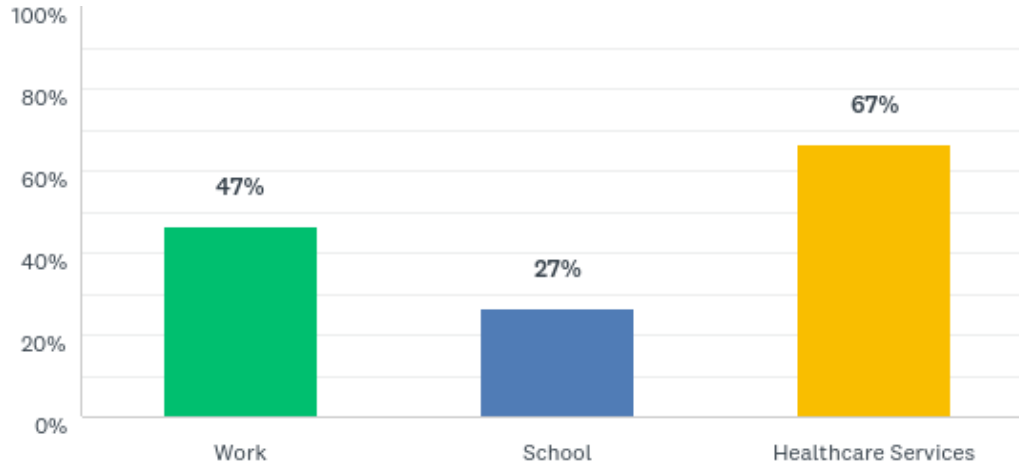
- possible street flooding relocated for Sandy
 - 3rd St. floods - wake hits historic homes
 - exits from town are low-lying
 - Rt. 9 south of town becomes unusable
-

Other Impacts (please explain)

- could not take Rt. 9 to Wilmington
 - none have happened to us so far. We are not in the flood zone!
 - Toxins from water enter house
 - Value of home
 - Have not lived here during flooding
 - Water seepage into properties
 - Although our house site hasn't flooded we care greatly about everyone who calls New Castle home.
 - water in basement
 - access to supplies
 - not yet
 - Cost of flood insurance
-

If roads are inaccessible, do you have difficulty accessing:

Answered: 15 Skipped: 33



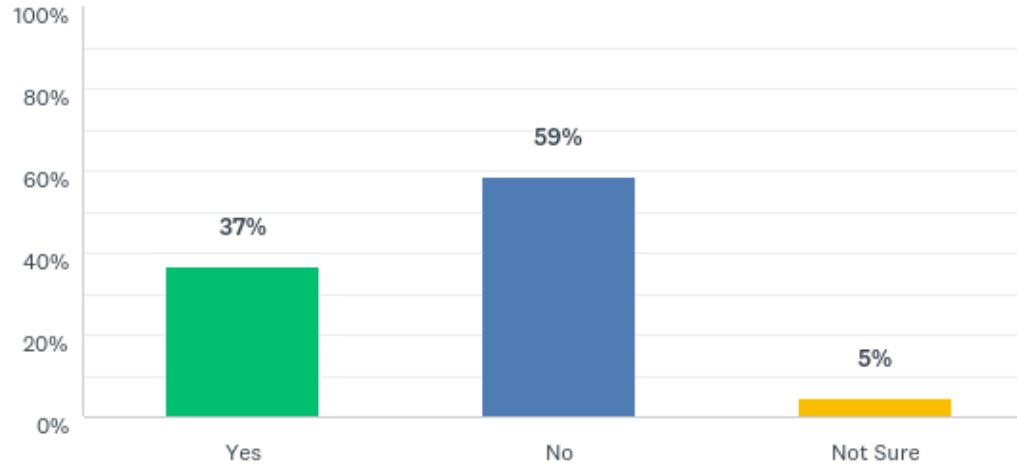
ANSWER CHOICES	RESPONSES	
Work	47%	7
School	27%	4
Healthcare Services	67%	10
Total Respondents: 15		

Comments:

- leaving
- Dr. Appt Meds
- If can't drive - can't get there
- any needed emergency services
- I am almost 84
- 7th & Washington, part of South can't handle heavy rain, drains back up with convey drains
- I did & would
- need to help take care of grandkids

Have you made changes to your own property to prepare for or respond to flooding?

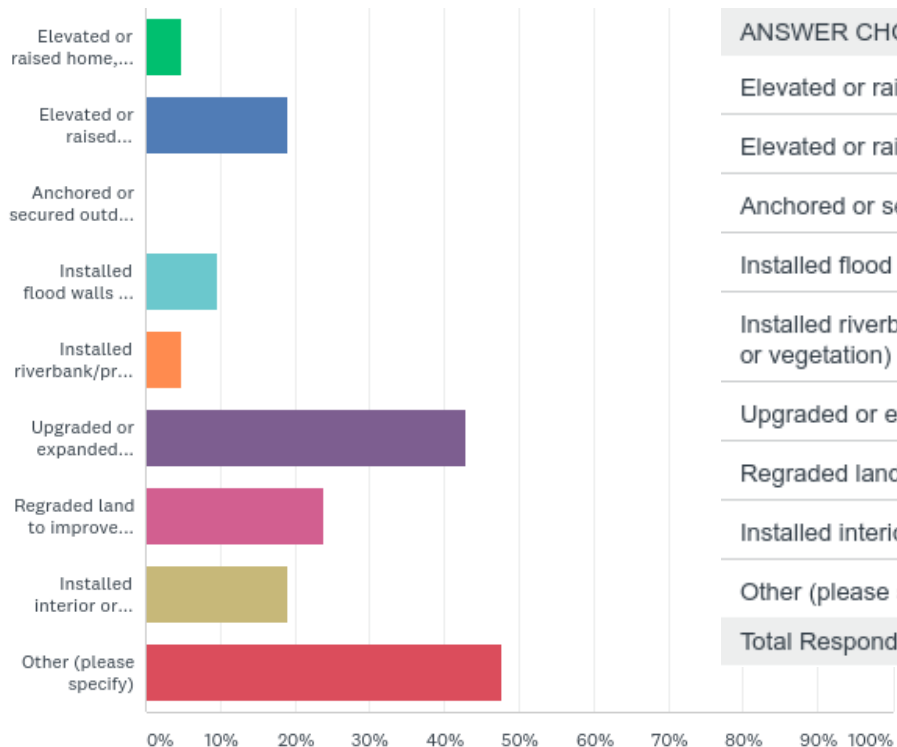
Answered: 41 Skipped: 7



ANSWER CHOICES	RESPONSES	
Yes	37%	15
No	59%	24
Not Sure	5%	2
Total Respondents: 41		

If Yes or Not Sure, have you taken any of these measures at your own property to prepare for flooding?

Answered: 21 Skipped: 27



ANSWER CHOICES	RESPONSES
Elevated or raised home, buildings, or structures	4.76% 1
Elevated or raised utilities (such as air conditioners)	19.05% 4
Anchored or secured outdoor propane tanks or other "loose" utilities	0.00% 0
Installed flood walls or gates around property or utilities	9.52% 2
Installed riverbank/property erosion controls (such as rip-rap, hardened shoreline, or vegetation)	4.76% 1
Upgraded or expanded drainage systems (gutters/french drain system)	42.86% 9
Regraded land to improve drainage or runoff	23.81% 5
Installed interior or exterior backflow valve	19.05% 4
Other (please specify)	47.62% 10
Total Respondents: 21	

If Yes or Not Sure, have you taken any of these measures at your own property to prepare for flooding? Other, please specify

- sealed basement windows, stored sandbags on property
 - Swale, battery back up for sump pump
 - removed basement window, but duplex, and neighbors still have theirs
 - concrete floor in basement
 - have flood insurance
 - Have flood insurance
 - sump pump and french drain
 - Window sealing at basement level
 - extended rain gutters to reach outflow 10 feet from house
 - Installed back-up sump pump that works on water pressure rather than electric.
-

Please leave any additional comments or concerns that you have for the City of New Castle Resilient Community Partnership team about flooding, or coastal and climate hazards in general:

- I am just generally concerned about floods in the future
 - The berm along the east side of the Strand (built by property owners) needs to be extended from the Battery to Bull Hill to protect the city and historic nature of the city. Regardless of ownership considerations!
 - If water level occurs and rises, will the city take steps to divert the water such as bulkheads?
 - Cost of the annual increase to FEMA Flood ins. min 11% annually.
 - Commercial district & Battery Park not protected by dikes. Have been suggesting for many years to raise river walk to tie into existing bluff and also act as a dike. Other cities use this very effectively.
 - Flood protection is important but also needs to consider mandatory historic character of Old New Castle; in particular 1 access to riverfront. Consider building levee offshore, so that current homeowners do not lose property. This may actually be less expensive, s.... access from the river may be easier than trucking in equipment and earth.
 - We need a levee on the Strand. (yes I know it blocks my views). Do not assume that building a levee situated 10-20' off shore is more expensive than building it on what is currently dry ground. A levee is not always a pile of dirt. There are other types of structures/walls that work. I think only 2 houses (#13 & #15) own riparian rights to the riverbed. The other owners cannot stop progress since such a levee will not be on their land. (I will type up something more legible when I am not writing on my lap!)
-

General Comments Continued...

- Had hoped to see mapping of streams. (River -> marsh -> streams) High water table in our City. Good explanation of maps. Thanks!
 - -Drainage systems need improvement - Regular sewer maintenance programs -Stop over developing and cutting down trees in the process - Encourage residents to know their flow (sewer drain habits and observations)
 - more drainage is needed on Harmony St. - Fourth St. courses around the corner and down Harmony St. also - joining the downhill flow.
 - concerns because of changing weather patterns.
 - Please suggest to our council and council president that they think twice before paving any more of our green space. And before allowing more housing and roads in the St. Rt. 9 area.
 - Assisting residents to evacuate hazard areas - too much traffic on preferred roads out of town.
 - Great concern regarding passage of resolution #510, paving over ground is unwise
 - More concerned about historic area - it must be protected. :)
 - - Drainage is becoming an issue. Recently storm drains on Delaware St. (between 5th and 7th) were overflowing after a very strong downpour. - Any new dike changes must include better mechanisms for water to escape when the storm subsides.
-

General Comments Continued...

- While I do not live in the city, I am in the 19720 zip code. At some point while we had a mortgage, our loan holder forced us to buy flood insurance, not sure how many years we paid this ins., but it was expensive. Then at some point we were not in flood zone and stopped paying the flood ins. Now my neighbor is trying to sell her home and she has a small portion of her house in the flood plain and no one wants to buy the house with the flood insurance attached - FRUSTRATING!
 - We already have water in our basement when we have moderate to heavy rain. We have been told that the main sewer drain pipe on W. 4th St. sags and it occasionally causes backups in our house. If there was heavy flooding from the river in a major storm this could be a significant problem. Repair of our aging sewer lines needs to be part of this planning.
-

For questions, please contact:

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