

2017 Lake Ontario High Water Level Impact Survey: *A Sample of Results*

January 24, 2018

Rebuilding After the 2017 Lake Ontario Flood:

A Primer for Code Enforcement Officers

Greece, NY

A Joint Program of • State University of New York • Cornell University • NOAA/US Department of Commerce

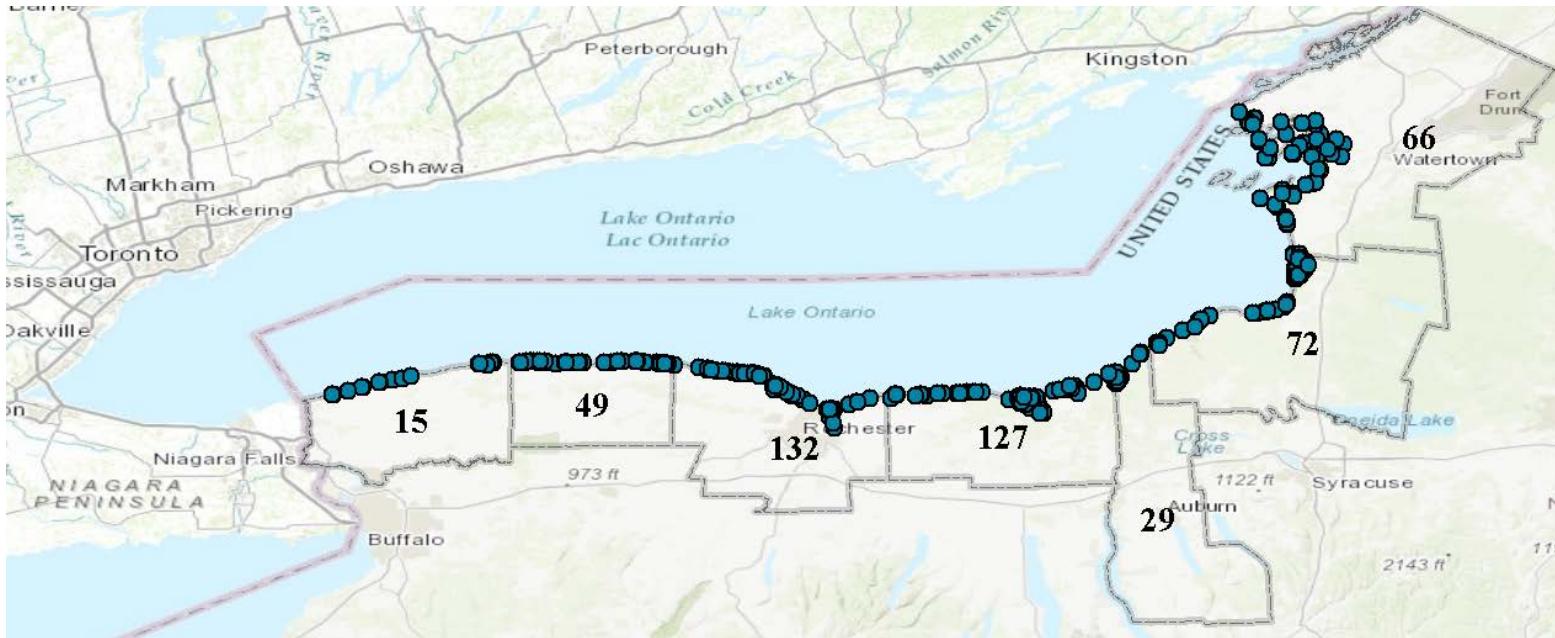
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New York Sea Grant



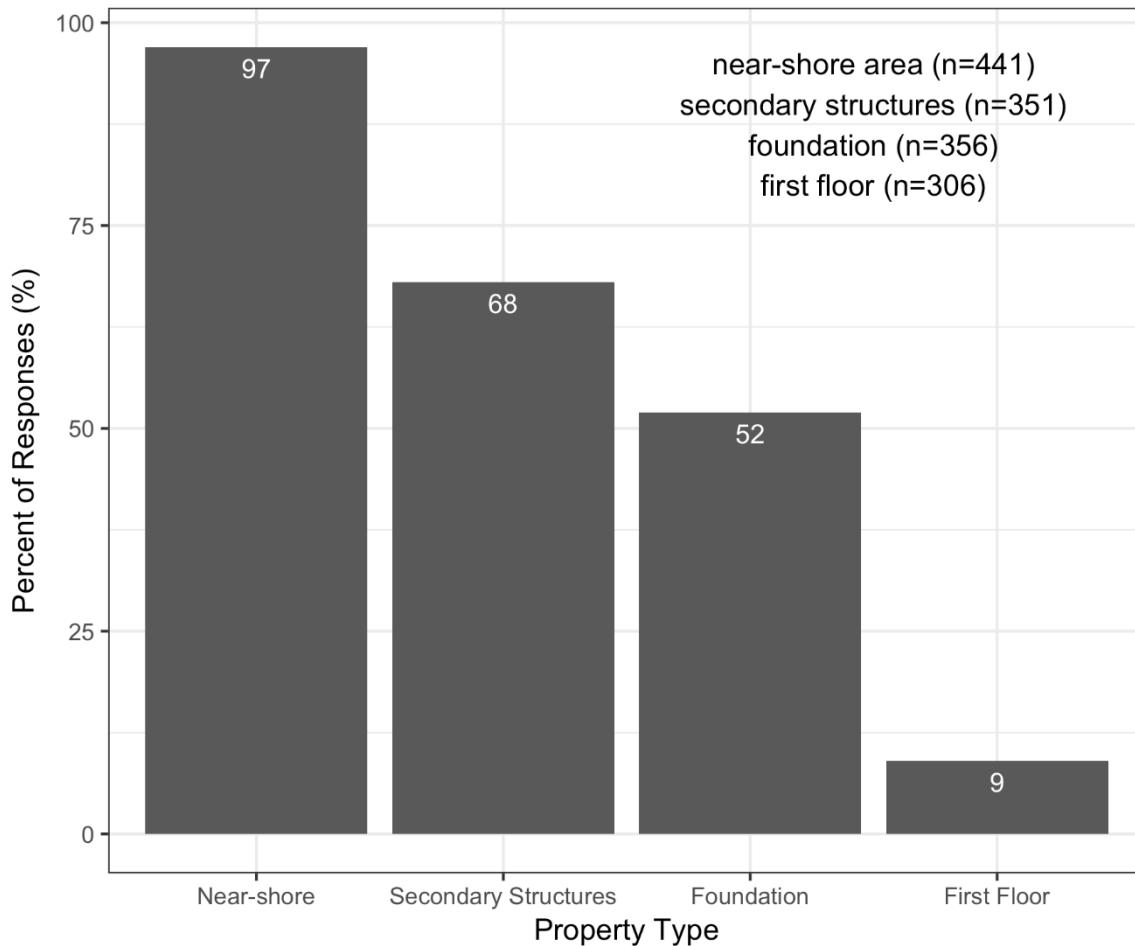
Survey Response Distribution Map



- 896 surveys were recorded in the Qualtrics Database. Of those:
 - 406 were screened out (not on Lake Ontario, incomplete, or duplicate)
- **We were left with 490 complete (or near complete) surveys**

Inundation of Property

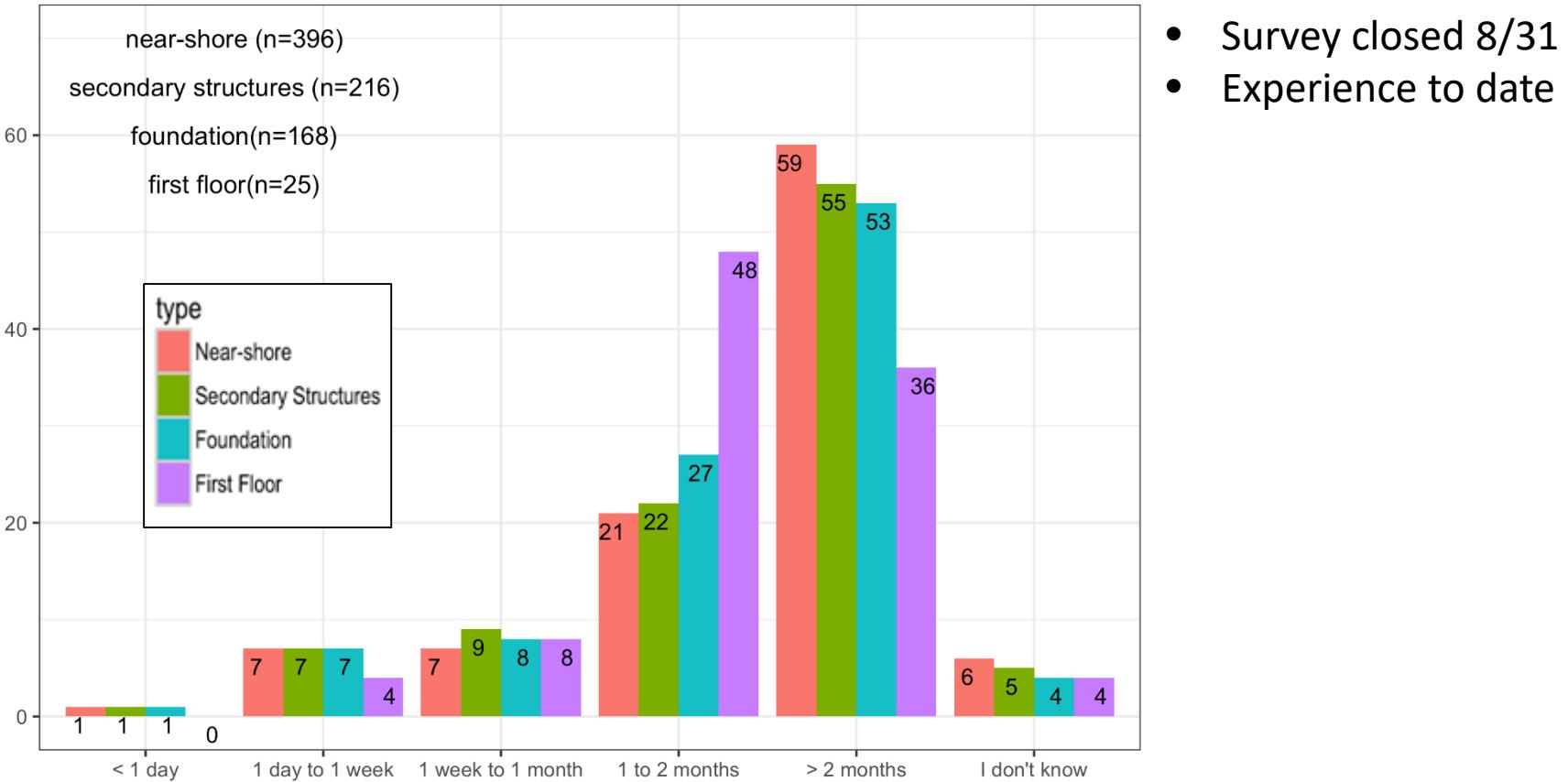
Percentage of responses that indicated the follow property types were inundated:



- **Near-Shore:** occurs if lawn OR dock OR landscaping is inundated
- **Secondary Structures:** occurs if outbuildings OR utility infrastructure is inundated
- **Foundation**
- **First floor**

Duration of Inundation

closed 8/31 (before flooding completely subsided)

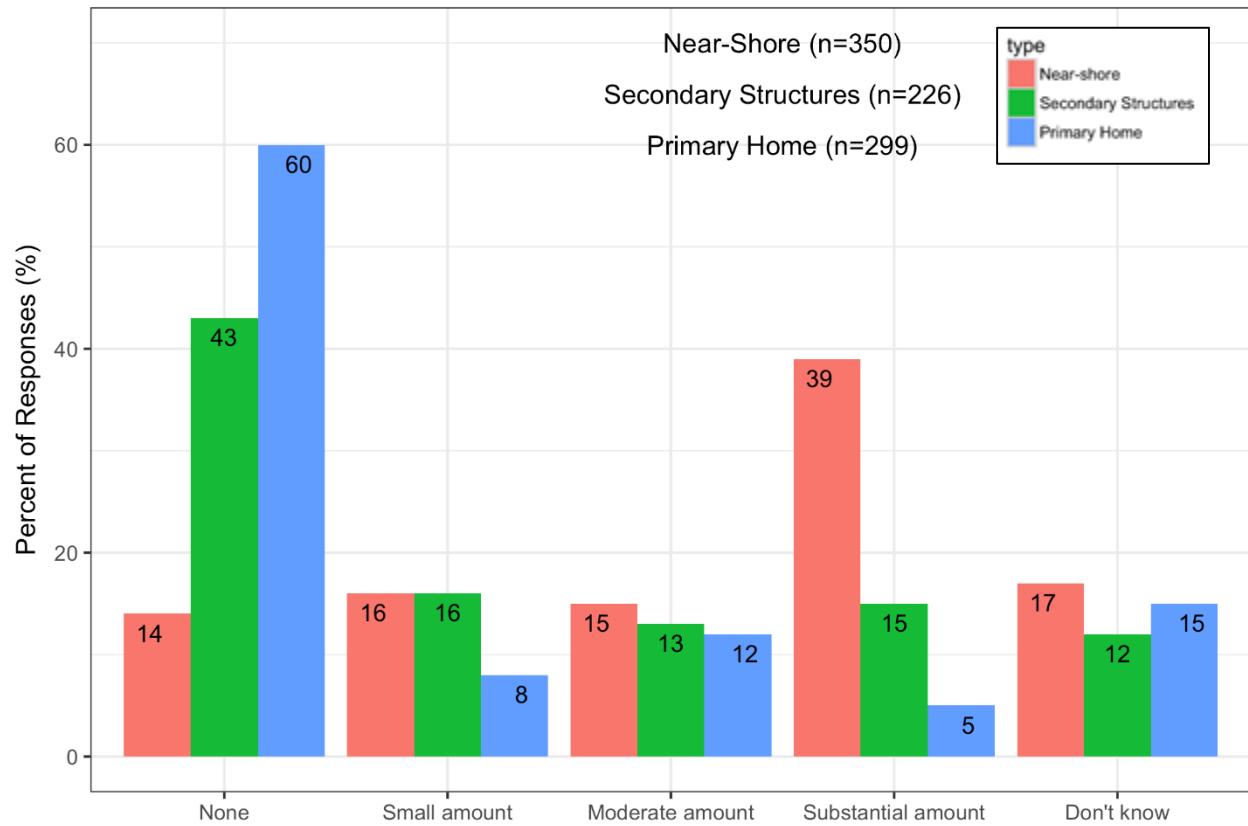


Inundation of Property: *Sodus Point (Wayne County)*



Erosion Damage to Property

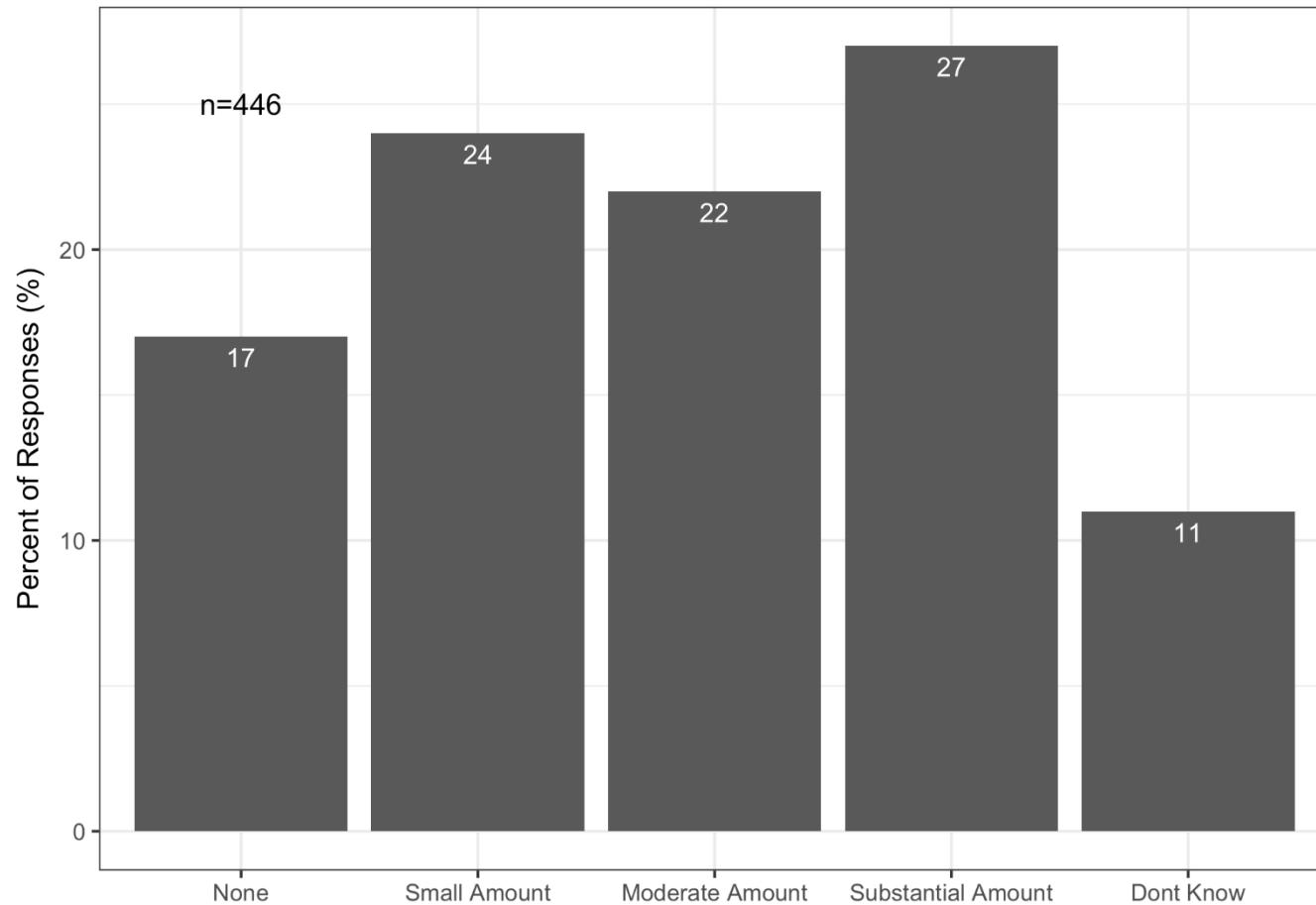
Percentage of responses that indicated no/small/moderate/severe impact from erosion on the following property types:



1. **Near-shore**
(dock/stairs/ramp/deck)
2. **Outbuilding**
3. **Main structure**

Land Lost to Erosion

Percentage of responses that indicated that no/small/moderate/severe amount of land was lost to erosion

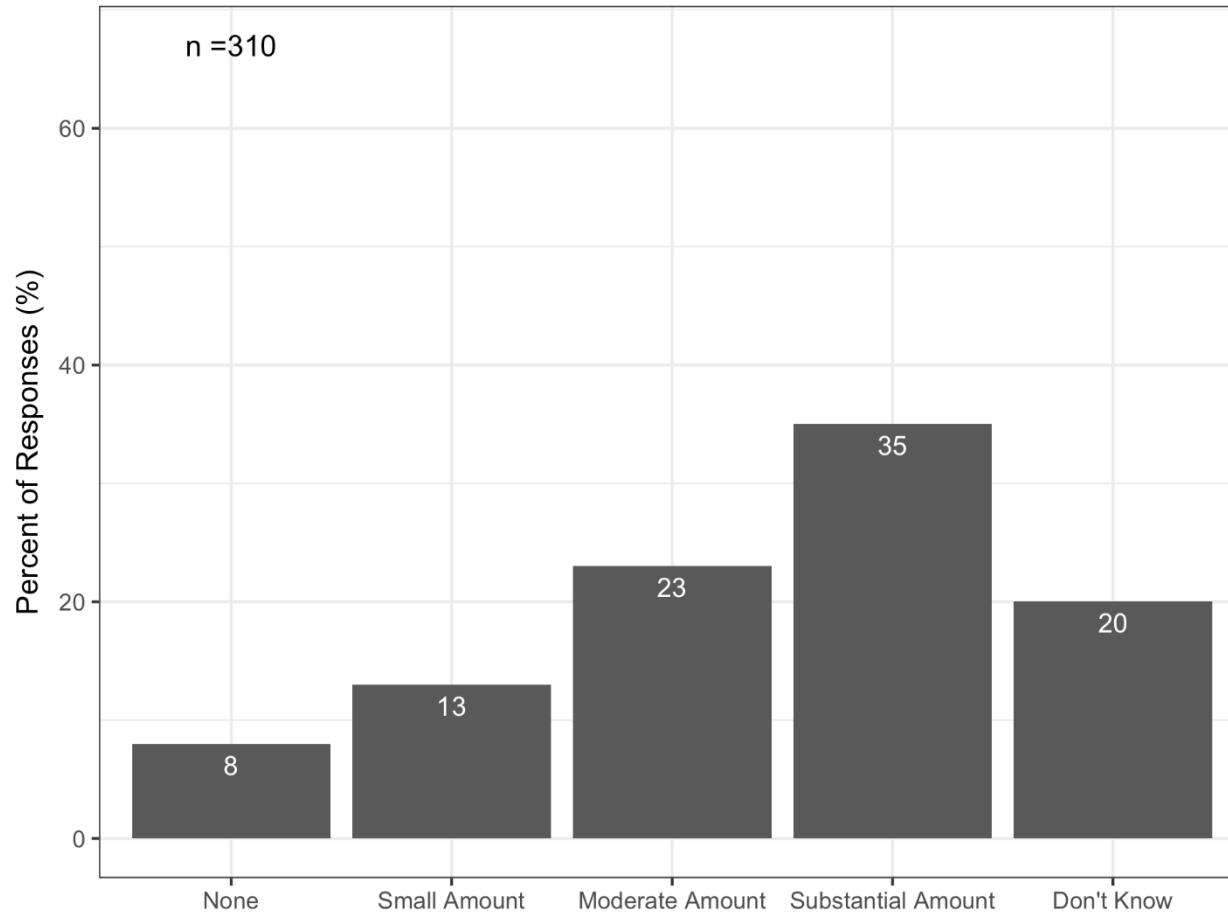


Land Lost to Erosion: *Hamlin, NY (Monroe County)*



Damage to Shoreline Protection

Percentage of responses that indicated that no/small/moderate/severe amount of damage occurred to **EITHER** vertical **OR** sloped shoreline protection.



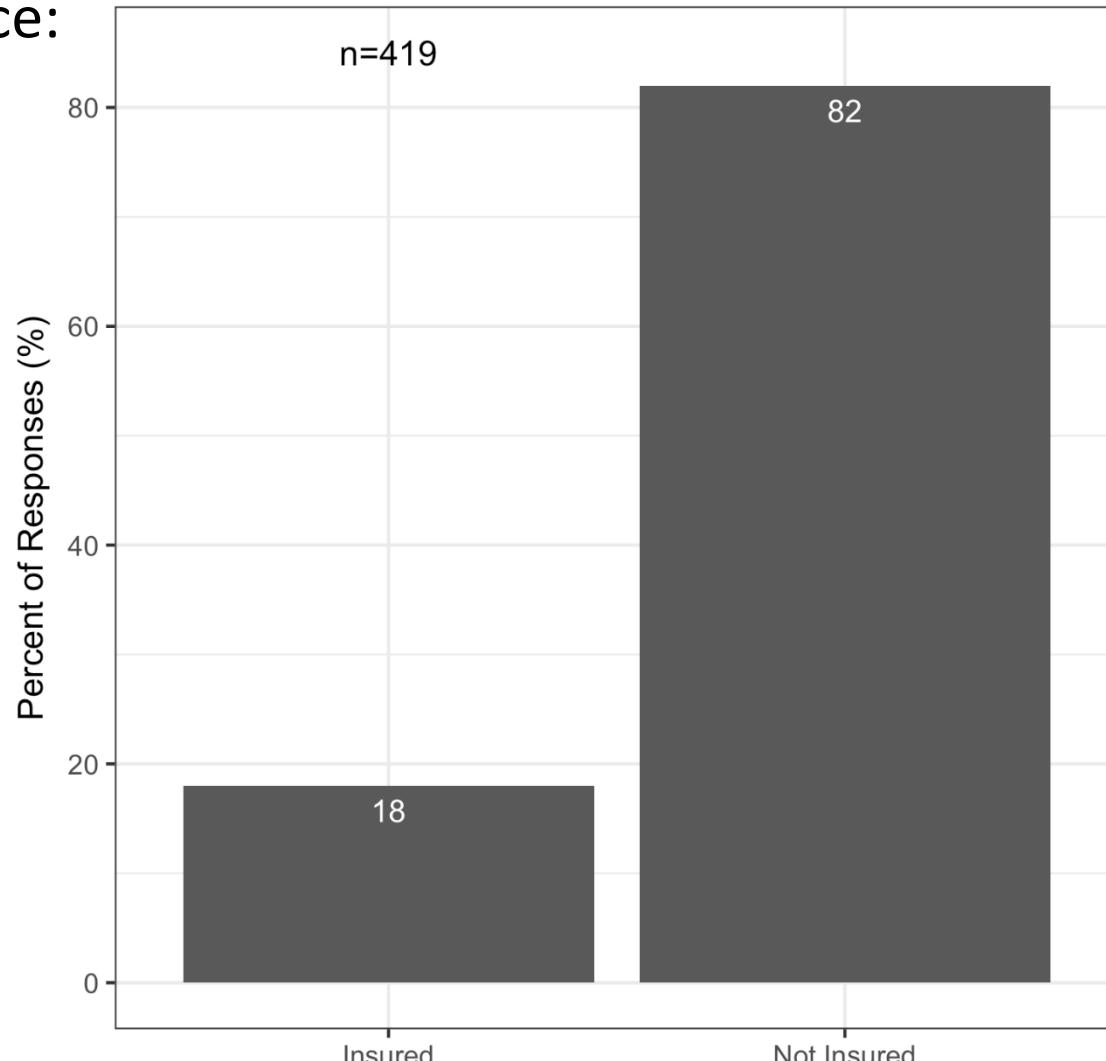
Damage to Shoreline Protection: *Olcott, NY (Niagara County)*



Retaining wall
collapse at Olcott
Yacht Club
September, 2017
Photo:
<http://www.wgrz.com>

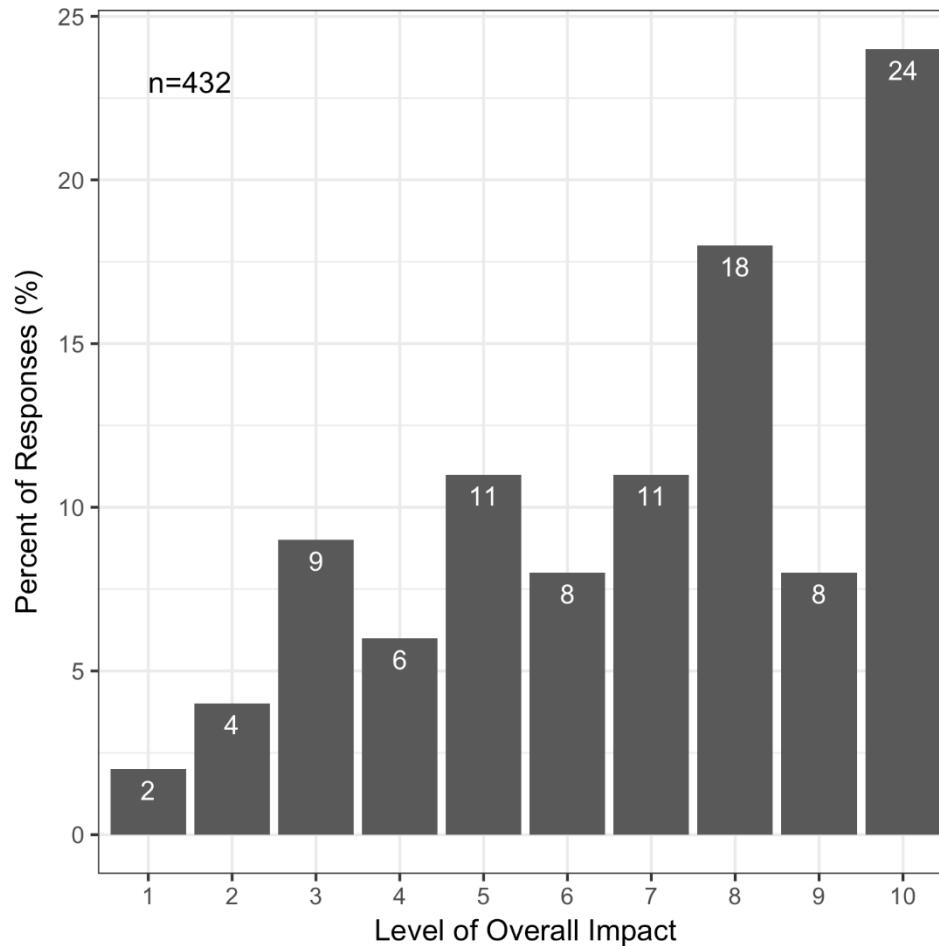
Flood Insurance

Percentage of responses that indicated whether or not they had flood insurance:



Overall Impact

percentage of respondents indicating their overall impact on a scale of 1-10 (1=no impact; 10=substantial impact).



Pictures

- Waterline on property
- Overall impact of water on property
- Existing flood-risk modeling work (2018 NYSG funded)
 - *Steinschneider & Steadman*
- Archiving
 - *Steinschneider & Austerman*
- This is only 4 of 466 responses



Kendall, NY (Orleans County) on 5/27/17



Hilton, NY (Monroe County) on 5/20/17



Williamson, NY (Wayne County) on 5/20/17



Pulaski, NY (Oswego County) on 5/4/17



Survey Results: *How can they be used?*

- Event documentation
- Lake-wide reporting
- Areas most vulnerable to coastal flooding identified
- Flood-risk model validation project (2018 NYSG funded)
- Assist in leveraging competitive funds



Thank you to all survey respondents!

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