HURRICANE HELENE FLOOD RECOVERY AND COMMUNITY RESOURCES UPDATE WAYNESVILLE TOWN COUNCIL

OCTOBER 8, 2024

Presenters:

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COMMUNITY RESOURCES

Haywood County

Haywood County Emergency Operations Center

https://readyhaywood.com/

Coordinates with State, Federal, and Municipal organizations locally

Distribution Centers

Nonprofits and Churches

United Way of Haywood County: https://readyhaywood.com/

Coordinated Assistance of multiple churches and organizations at FUMC and Woodland Baptist.

COMMUNITY RESOURCES

FEMA:

Disaster loans available for businesses and residents in declared disaster areas to help communities recover and rebuild. Apply online or in-person:

https://sba.gov/hurricane-Helene; 800-659-2955 for businesses

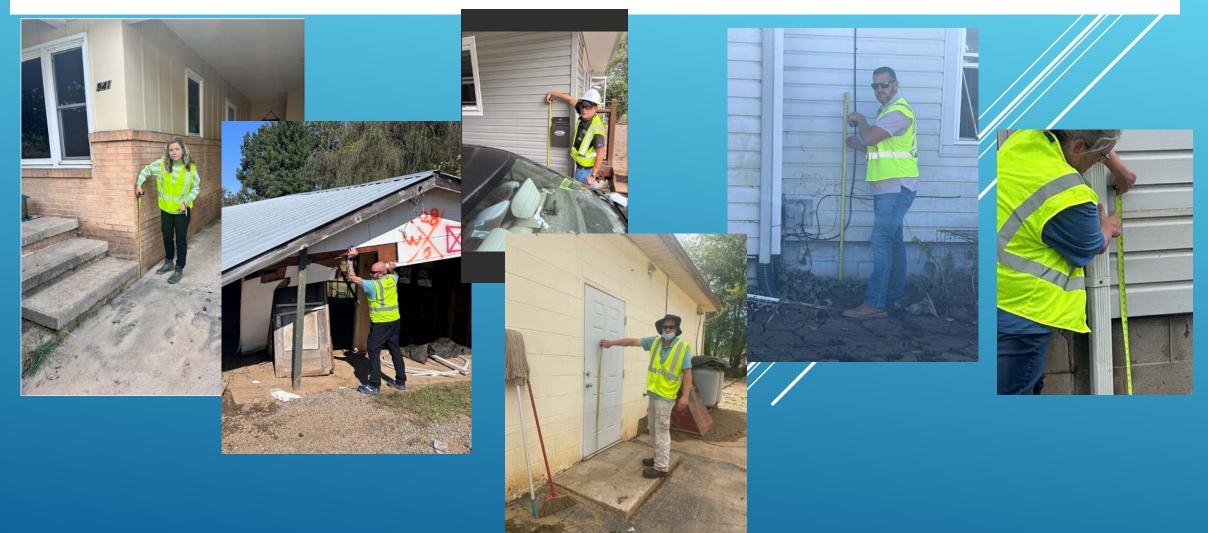
DisasterAssistance.gov; 800-621-3362 for others

or email disastercustomerservice@sba.gov

- 1) Take photos of your damages home and belongings.
- 2) Make a list of damages
- 3) If you have insurance, you must file a claim with your insurance company.
- 4) Apply to FEMA through the FEMA app, website, or phone #







Between September 30 (Monday) and October 7 (Monday):

- 137 affected structures were assessed for damages (still in progress)
- Areas prioritized in flood-affected areas based on observations during storm.
- Other areas of Town driven to verify damage/ no damage.
- 4 teams in the field initially with each team includes a building inspector, then we split up as needed.













WHY DO WE DO ASSESSEMENTS

- Share community resources information
- Translate and convey information to Spanish-speaking residents
- Expedite permitting and occupancy / Identification of unsafe structures
- Create record of flood damage
 - ✓ Can be utilized by property owner / insurance representatives to process claims.
 - ✓ Can be used in FEMA applications.
- Provide on-the-ground documentation of flood elevations to identify
 - ✓ Areas of FIRM map consistencies/inconsistencies
 - ✓ Areas of concern and potential mitigation efforts

WHY DO WE DO ASSESSEMENTS

- **Requirement** for communities participating in the federally administered National Flood Insurance Program (NFIP). Local officials, usually building department officials or floodplain managers, are responsible for making this determination (FEMA.gov).
- Ensure that substantially damaged **structures are properly repaired** in compliance with floodplain regulations to safeguard both the properties and safety of individuals.

DAMAGE ASSESSMENT FORMS

| SDE Residential Worksheet Community Identification Number (CID) Inspector Name Team # Photo # Date | Depreciation Rating: | 1 - Very Poor Conditior 2 - Requires Extensive 3 - Requires Some Rep | Repairs |
|---------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------|--------------------------------------|
| Team # Photo # Date | | ○ 4 - Average Condition | 1 |
| Latitude: Longitude: | | ○ 5 - Above Average Co | |
| Longitude. | | ○ 6 - Excellent Condition | n |
| Street Address | Infor | mation Exclusively for Sub | stantial Damage Estimate Assessments |
| City, State, Zip | Year of Construction: | | |
| County | Date Damage Occurred: | / / | |
| STRUCTURE ATTRIBUTES | | Fire | Duration of Flood: |
| Residence Type: Single Family Residence Town or Row House Manufactured House | Ŏ | Flood | Days |
| | | Flood and Wind Seismic | Depth of Flood Above Ground: |
| Story: One Story Two or more stories | Ŏ | Wind | |
| July. One story of wood intole stories | 0 | Other | Depth of Flood Above 1st Floor: |
| | ELEMENT PERCENTAGES | | |
| Foundation: Continuous Wall w/Slab Basement Crawlspace | | | |
| ○ Piles ○ Slab-on-grade ○ Piers and Posts | Foundation | % | Floor Finish% |
| | Superstructure | % | Plumbing% |
| | Roof Covering | % | Electrical% |
| Superstructure: Wood-Framed Steel-framed Common Brick Masonry Insulated Concrete Forms (ICF) | Exterior Finish | % | Appliances% |
| Roof Covering: Shingles – Asphalt, Wood Metal (Standing Seam) Clay Tile Slate | Doors and Windows | % | Interior Finish% |
| Exterior Finish: Siding or Stucco Brick Veneer Exterior Insulated Finishing System (EIFS) None – common brick | Cabinets & Countertops | % | HVAC% |
| HVAC System: None Heating and Cooling | | | |
| | DIAGRAM w/ MEASUREME | ENTS and NUMBER OF Storie | <u>es</u> |
| Quality: | | Number of Discrete of Taxabler of Stories | Number of Stories Stories |
| | J | FT | Number of Stories |

Forms were provided by the NC Department of Public Safety, Division of Emergency Management

DAMAGE ASSESSMENT FORMS

Basic Flooding Model Assumptions:

- 1) Medium height freshwater flooding; limited duration. No high-velocity action; no wave action.
- 2) A 1-story house (without a basement) is used for this example house to establish the Categories of Work percentages of total costs.

| | | Damage Threshold | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| oundation | • | 0-25% | 25-50% | 50-75% | Over 75% | |
| Continuous perimeter foundations, footings, and piers for internal beams and floor loads. Footing depth averages between 30 inches and 42 inches below ground level. Materials include unreinforced cast-in-place concrete, unreinforced masonry or concrete masonry units (CMUs), concrete slab on grade, or raised slab construction. | IIS | Water level does not rise to the level of the bottom of the first floor of the structure. | Water level rises just above first floor level. | Water level is 4-7 feet against the outside of the building. | Water level is 7 feet or higher against the outside of the building. | |
| | Marke | No scouring at the footings. | Limited scouring at the footings. | Limited scouring at the footings. | Limited scouring at the footings. | |
| | Threshold Markers | | | Soils are saturated and unstable | Foundation is notably cracked and/or displaced. Structure has been knocked off its foundation. | |
| | | Some undermining but no visible cracking at concrete slab. | Soils are saturated. | Cracks noted on or along the foundation walls. | Portions of the foundation are damaged or missing | |
| Description | | | Undermining of the concrete slab, especially at corners - hairline cracks only. | Significant undermining of the concrete slab – significant cracking is visible. | Significant undermining of the concrete slab - major cracking and separation of the concrete slab. | |
| | Common Damage | Short-term inundation to limited heights. Limited scouring and erosion - low flow and low velocity floodwaters. No noticeable cracking of the masonry or displacement of the foundation walls. | Short-term inundation - Foundation is inundated with flood waters but for a limited duration. Limited scouring or undermining of the foundation or footings is found. Minor cracking from some settlement but no displacement, heaving or discontinuities of the structural support systems. | Floodwaters extend over the top of the foundation system - significant inundation for over 12 hours. Some cracking of the masonry/concrete foundation walls. Some damage to the foundation wall from debris or settlement noted. | Settlement noted at the footings, due to erosion or unstable soils. Foundation wall damage – sections of the walls are cracking, displaced, and missing, causing an inherent instability to the support for the house. Use caution when approaching or entering the house. | |
| Special Considerations for Coastal/High Velocity Floods | | resist this scouring action. | 200 Sec. 141 141 | supports - the foundation syste | | |

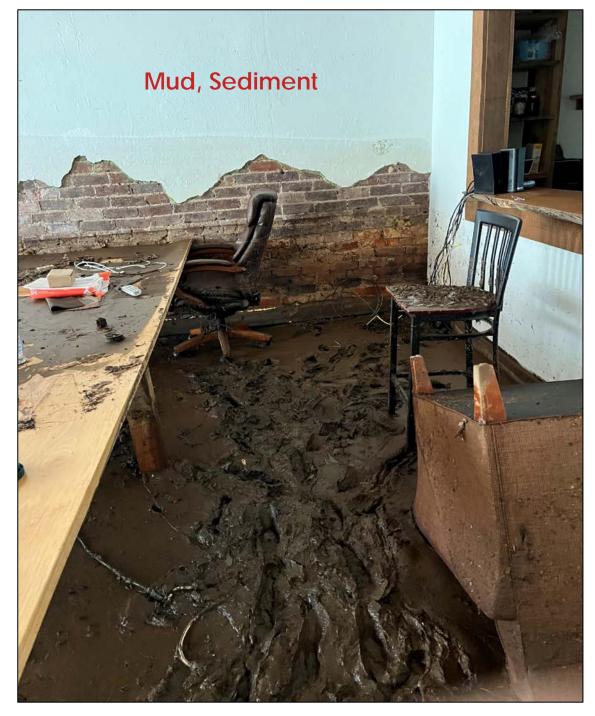
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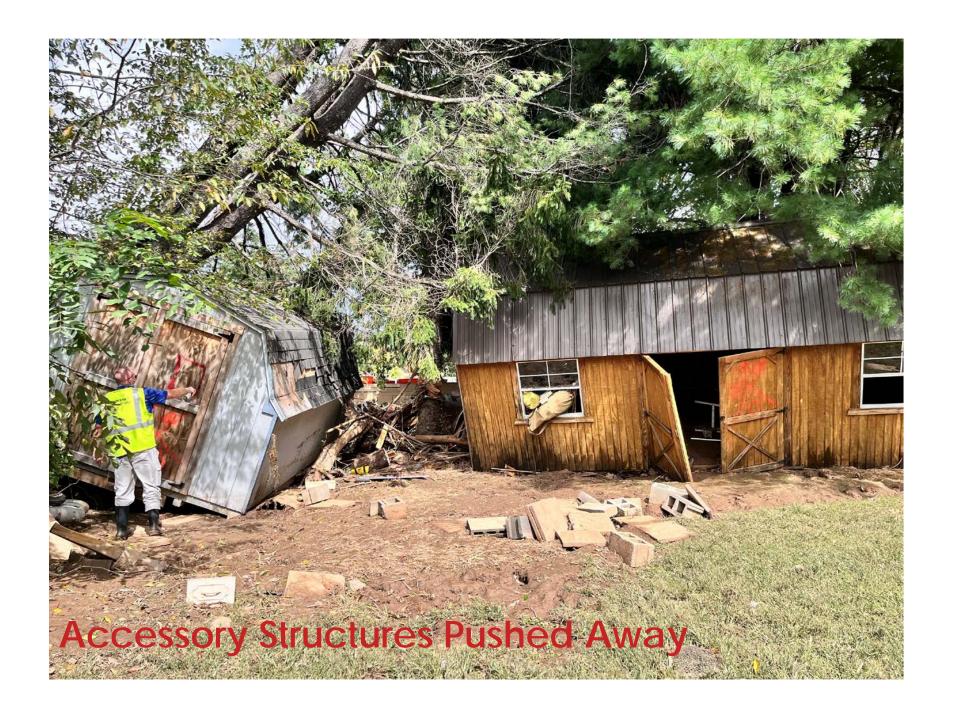










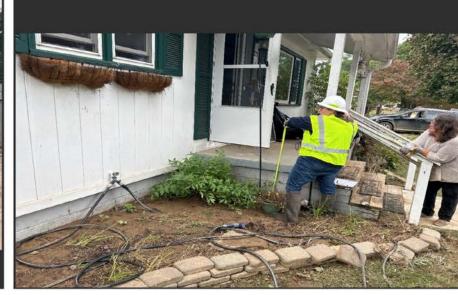
















So far, the assessments took place in the following areas:

- Dellwood City area
- Smathers and Sulphur Springs areas
- Oakdale Rd
- Frog Level
- Waynesville Plaza

This week our teams are doing assessments in Hazelwood and Westwood Circle. Next are South Main and Waynesville Country Club areas. Then Camp Branch and Lickstone.

Out of the 137 assessed structures so far:

- 103 structures were residential, and 34 were non-residential.
- 12 structures (8.8%) were determined to be substantially damaged (50% or more of the market value) and will need to comply with floodplain requirements during reconstruction (such as elevate the buildings).
- 18 structures (13%) sustained damage ranging from 40% to just under 50%.
- 16 structures (11.7%) sustained damage ranging from 30% to just under 40%.

Data indicates that:

- 46 structures (33.5%) of those assessed experienced damage of at least 30%.
- 58 structures (42%) had water marks of 3 ft and higher
- Two highest watermarks were 6' (Rebe St.) & 5.5' (Harris St.)
- Properties built to BFE + 1' in accordance with floodplain regulations suffered less damage.
- Pre-Floodplain map and regulations structures (built prior to 1983) had most damage.

Out of 137 assessed structures:

- 131 (95.6%) were in the regulatory 100year floodplain
- 6 (4.4%) structures were outside of the regulatory 100-year floodplain

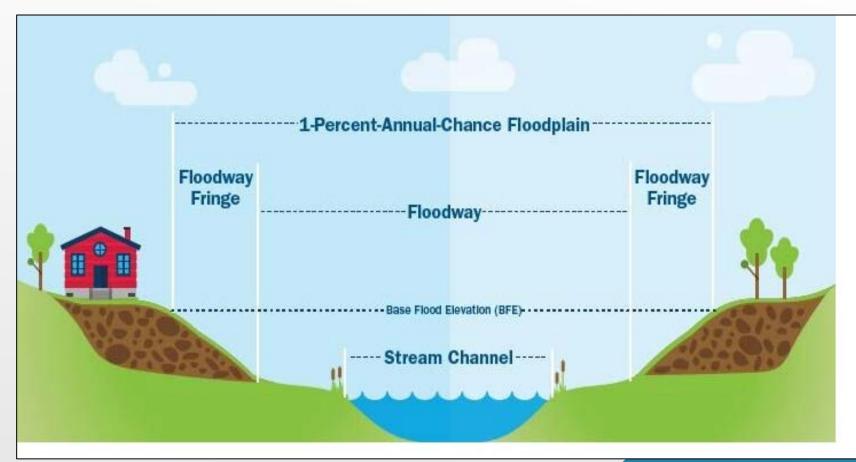
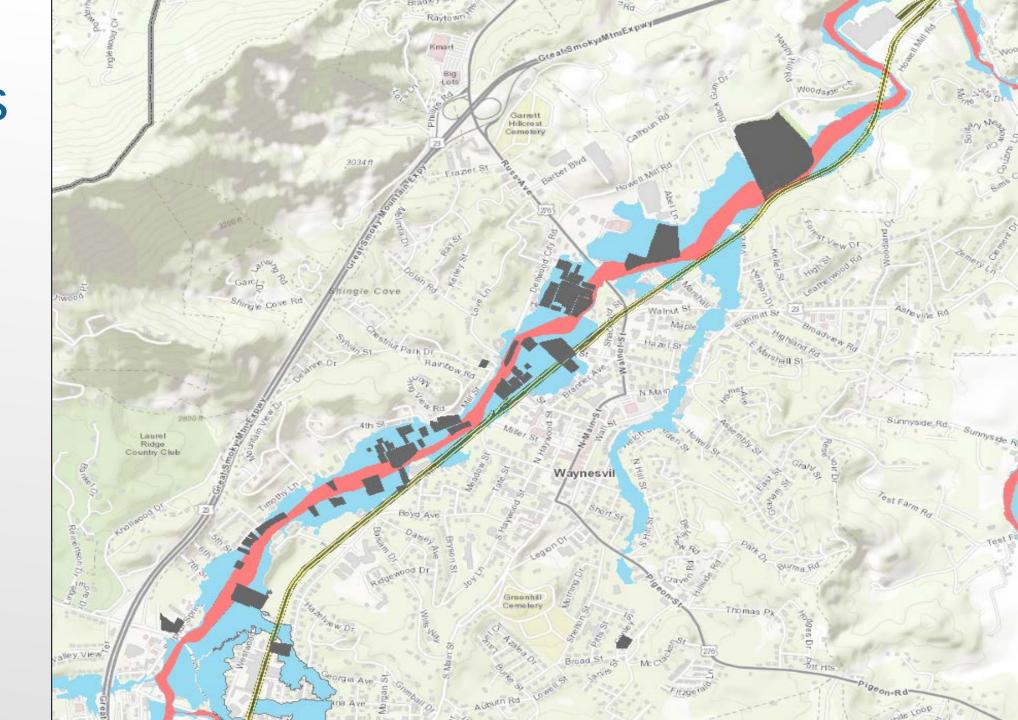
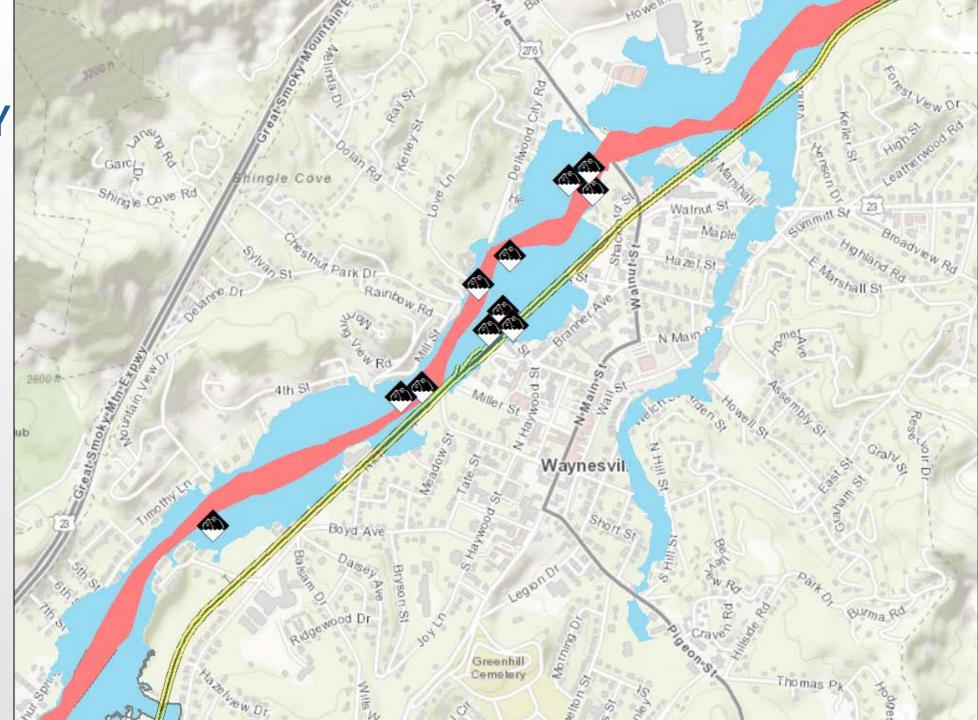


Image by Tulsa Engineering and Planning

STRUCTURES
THAT
SUSTAINED
FLOOD
DAMAGE



SUBSTANTIALLY DAMAGED STRUCTURES



SUBSTANTIALLY DAMAGED STRUCTURES

- All 12 Substantially Damaged structures were in the 100-year floodplain, and 4 of them in the floodway.
- Substantially damaged structures had water marks ranging from 1 to 5 ft.
- Substantially damaged structures must be brought into compliance with flood elevations or with flood proofing.

RECOMMENDATIONS

- Increase the freeboard from 1 ft above the base flood elevation to 3 ft {Freeboard means the building height added to the Base Flood Elevation (BFE) from the ground (Example: elevated slab, crawlspace, or garage on the first level).}
- Temporary policy to allow people with damaged homes to temporarily use FEMA trailers, campers, travel trailers or RVs, while their homes are being repaired.
- Pursue opportunities to improve historic buildings as part of repair.