

40 Years of Flooding, and Counting:

Experiences and Impacts on a Lifelong Resident

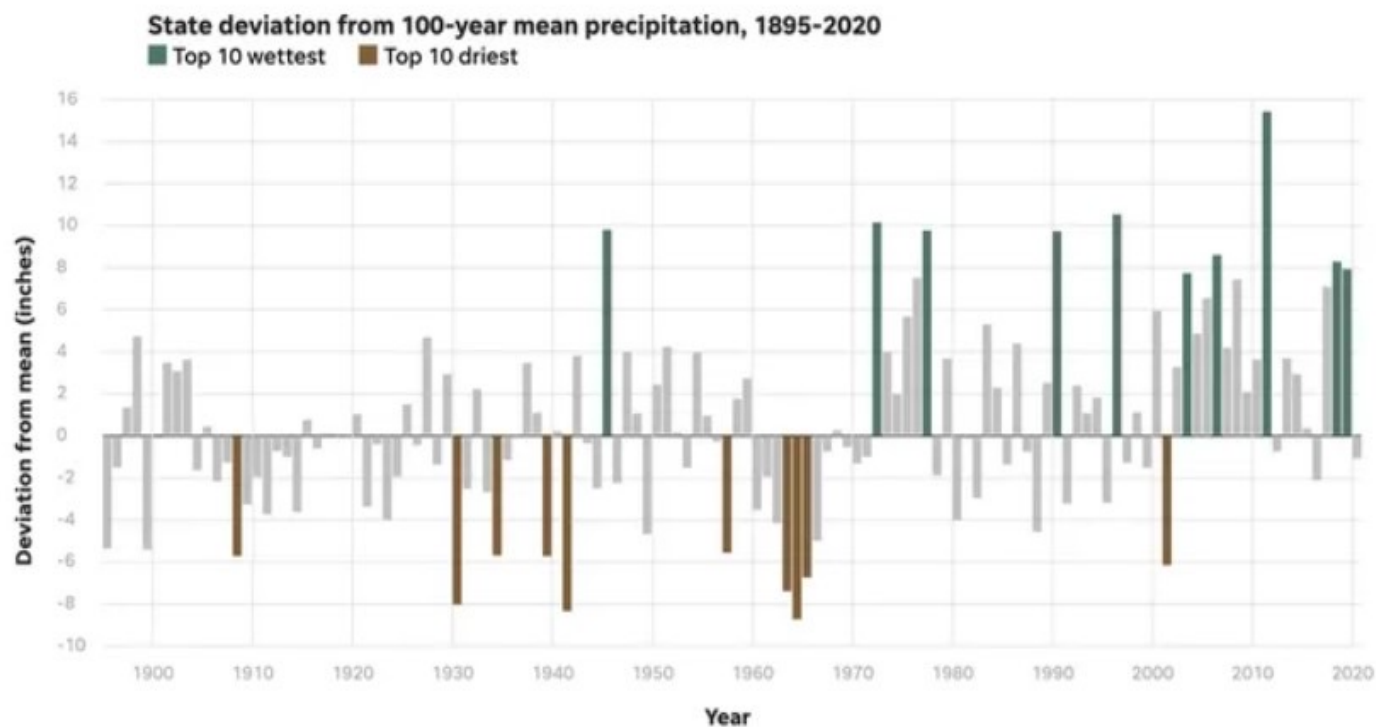


Do you Know Your Vulnerability?

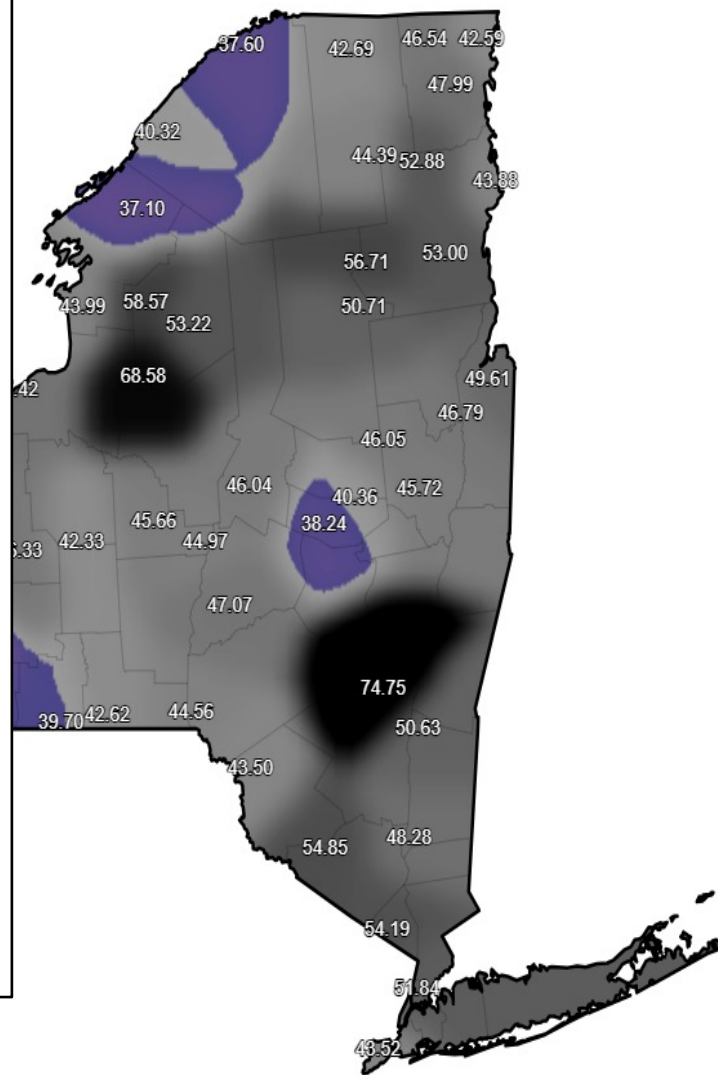
- How many of you moved to / lived in the region since 2020?
- How many between 2010-2020?
- Pre-2010; Pre- 2000?
- Who lives in a floodplain?
- Who lives on a road that has one of these words in its name: “Hollow”, “Clove”, “Valley”
- What about a road with “Kill”, “River”, “Creek”, or “Brook”

It is up to YOU to learn about it, to understand it, and be ready to do something about it

ONE GRAPHIC SHOWS THE PROBLEM: From USA TODAY's gripping project called Downpour, this single chart shows how much our state has seen above-normal precipitation since 1895:

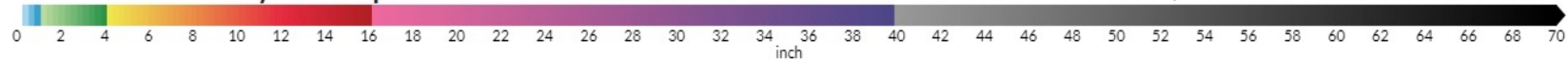


Precipitation for New York State is shown since 1895 as deviation from the 100-year mean. In the last three decades leading up to 2020, the deviation chart shows how much higher precipitation has been. The Top 10 wettest years in the whole 125-year period are shown in green. *USA TODAY / Downpour Project*



365-day Precipitation

Jul 17, 2023 10:30 AM EDT



| 2011 | NFIP Claims \$ | FEMA Public Assistance (PA) \$ |
|-----------------------------|-----------------------|---------------------------------------|
| All of Ulster County | \$17,228,147 | \$21,719,569 |
| Shandaken, Olive, Woodstock | \$6,487,581 | > \$10M |

| Community Name (Number) | County | Total Losses | Total Dollars Paid |
|------------------------------------|------------------|--------------|--------------------|
| ANDES, TOWN OF (360188) | DELAWARE COUNTY | 10 | \$ 123,688 |
| ANDES, VILLAGE OF (360189) | DELAWARE COUNTY | 16 | \$ 109,729 |
| DAVENPORT, TOWN OF (360192) | DELAWARE COUNTY | 20 | \$ 122,395 |
| DELHI, TOWN OF (360193) | DELAWARE COUNTY | 10 | \$ 119,231 |
| DELHI, VILLAGE OF (361572) | DELAWARE COUNTY | 23 | \$ 107,040 |
| FLEISCHMANN'S, VILLAGE OF (360197) | DELAWARE COUNTY | 29 | \$ 747,358 |
| HAMDEN, TOWN OF (360200) | DELAWARE COUNTY | 10 | \$ 76,008 |
| MARGARETVILLE, VILLAGE OF (360208) | DELAWARE COUNTY | 126 | \$ 4,940,992 |
| MIDDLETOWN, TOWN OF (360209) | DELAWARE COUNTY | 64 | \$ 1,292,564 |
| ROXBURY, TOWN OF (361036) | DELAWARE COUNTY | 14 | \$ 88,678 |
| STAMFORD, TOWN OF (360212) | DELAWARE COUNTY | 1 | \$ 12,232 |
| STAMFORD, VILLAGE OF (360213) | DELAWARE COUNTY | 1 | \$ 1,213 |
| WALTON, TOWN OF (360215) | DELAWARE COUNTY | 38 | \$ 979,354 |
| WALTON, VILLAGE OF (360216) | DELAWARE COUNTY | 183 | \$ 7,291,857 |
| ASHLAND, TOWN OF (360284) | GREENE COUNTY | 11 | \$ 345,412 |
| HUNTER, TOWN OF (360292) | GREENE COUNTY | 21 | \$ 230,307 |
| HUNTER, VILLAGE OF (360293) | GREENE COUNTY | 25 | \$ 285,872 |
| JEWETT, TOWN OF (361114) | GREENE COUNTY | 28 | \$ 365,020 |
| LEXINGTON, TOWN OF (360294) | GREENE COUNTY | 45 | \$ 1,062,650 |
| MIDDLETOWN, TOWN OF (360209) | GREENE COUNTY | 1 | \$ 50,269 |
| PRATTSVILLE, TOWN OF (360296) | GREENE COUNTY | 95 | \$ 4,283,154 |
| TANNERSVILLE, VILLAGE OF (360297) | GREENE COUNTY | 18 | \$ 220,578 |
| WINDHAM, TOWN OF (361401) | GREENE COUNTY | 47 | \$ 2,737,659 |
| CONESVILLE, TOWN OF (361606) | SCHOHARIE COUNTY | 4 | \$ 55,015 |
| GILBOA, TOWN OF (361433) | SCHOHARIE COUNTY | 8 | \$ 101,031 |
| NEVERSINK, TOWN OF (360828) | SULLIVAN COUNTY | 16 | \$ 366,320 |
| OLIVE, TOWN OF (360860) | ULSTER COUNTY | 36 | \$ 1,836,527 |
| SHANDAKEN, TOWN OF (360864) | ULSTER COUNTY | 257 | \$ 5,648,211 |
| WAWARSING, TOWN OF (360867) | ULSTER COUNTY | 89 | \$ 2,272,232 |
| WOODSTOCK, TOWN OF (360868) | ULSTER COUNTY | 69 | \$ 450,950 |



March 22, 1980

approximately a 25-year event at Allaben gage



Bridge St – Phoenicia – 4/4/87



Lost Clove Bridge after April 4, 1987 Flood

April 4, 1987

approximately a 25-year event at Allaben gage



*Esopus Creek downstream McKenley
Hollow Bridge - April 1987*

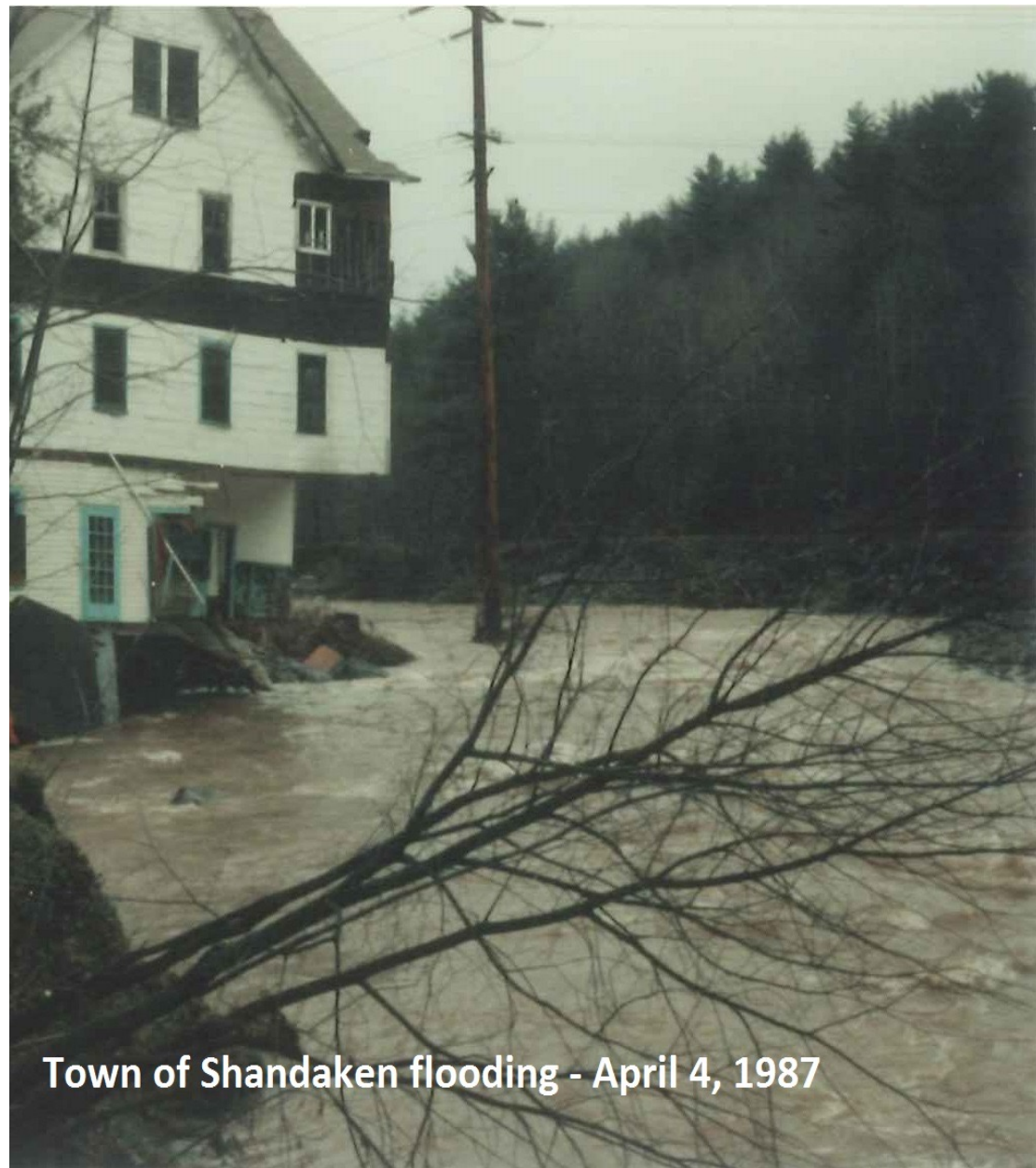








Shandaken flood damage - 4/4/87



Town of Shandaken flooding - April 4, 1987



Flooding in Oliveria - April 1987



January 20, 1996

approximately a 25-year event at Allaben gage



April 2, 2005

approximately a 50-year event at Allaben gage







My culvert – October 2010



Main St Bridge – Phoenicia – 12/1/10

October 1 and December 1, 2010

approximately a 10-year followed by a 5-year event



Main Street, Phoenicia



Route 28 in Mt Tremper

August 28, 2011

approximately a 150-year event (upper Esopus), 70-year @ Boiceville



**Main Street Margaretville
August 28, 2011 11:00am**

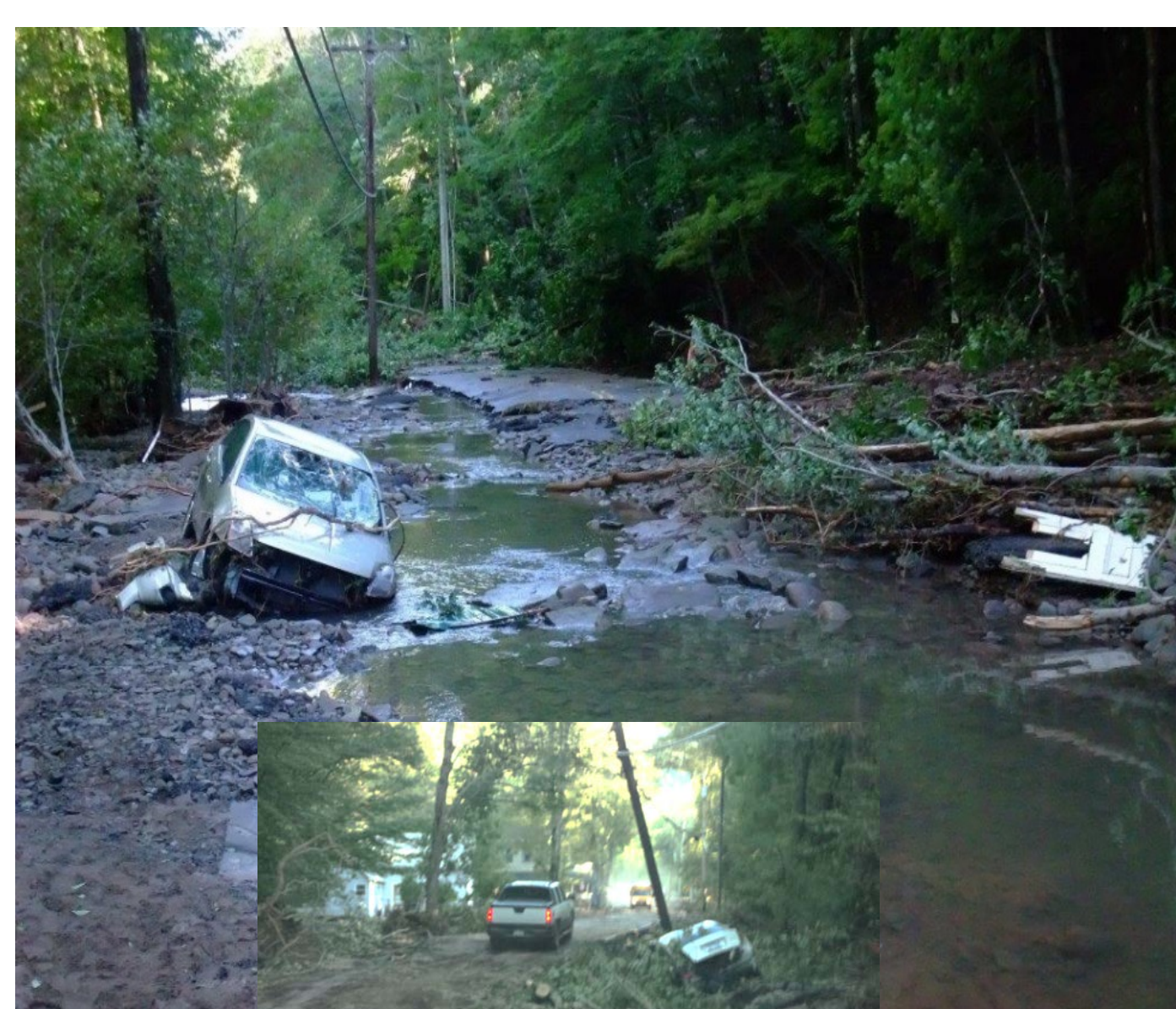




















December 25, 2020

approximately a 7-year event at Allaben gage

Maben Hollow bridge – October 30, 2017



10/26/21





**Streams are dynamic
(they move)**

**And sometimes houses
will need to as well**

Esopus Creek flooding: Peak Flows....

- 3/22/80 – [after sunset]
- 4/4/87 – 8:30pm [after sunset]
- 1/20/96 – 5:45pm [after sunset]
- 4/2/05 – 11pm [after sunset]
- 10/1/10 – 5:15am [before sunrise]
- 12/1/10 – 5:15pm [after sunset]
- 8/28/11 – 9:15am
- 9/18/12 – 7pm [sunset]
- 12/25/2020 – 4am [before sunrise]



- YOU live HERE now. YOU have to be smart, pro-active and YOU have to stay informed.
 - Much easier now w/prediction centers, the AWSMP, etc.
- YOU have to know your Valley, Clove, Hollow.
 - How many and where are the road/stream crossings?
 - Is there a place where the stream seems like it moves closer to road each year?
 - What are potential detours if washed out or tree is down?
- The Catskills are a large region and one-size (forecast) doesn't fit all.
 - April 2005 (Esopus – 50yr) & June 2006 (EB & WB Delaware in Margaretville & Walton >100yr)
- Don't wait until its too late. Putting first responders at risk is plain stupid and reckless.
 - Don't jeopardize their families b/c of your actions

- If you are going to do flood mitigation measures on your home or business, don't only do the minimum. Over time your investment WILL pay off (cheaper insurance, fewer damages).
- Get flood insurance – even if you are not required to have it.
- Stay tuned in to local funding programs through the AWSMP or the CWC.

I can promise you - the next big flood is always getting one day closer

It is up to YOU to learn, understand, and then take actions pre-flood, during the event, and post-flood that not only benefit your family, but your community neighbors as well.

