

HISTORIC FLOOD ALONG TUG FORK RIVER

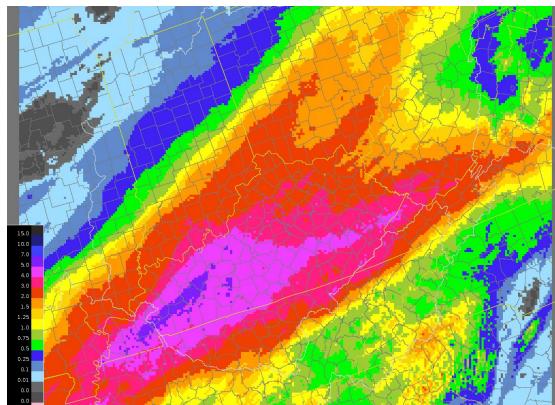


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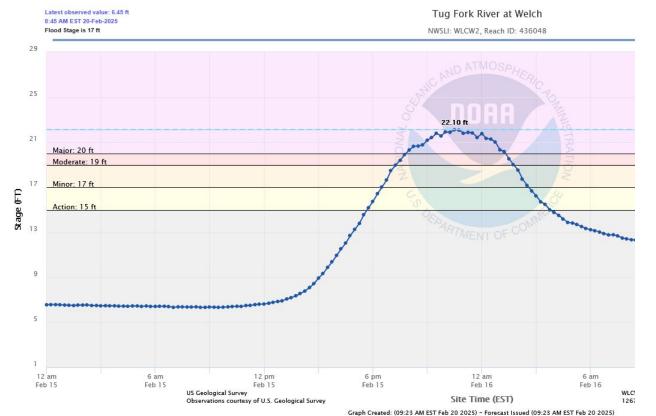


- Significant rainfall of 2 to 4 inches in a 6 to 12 hour period
 - Highest totals observed in the headwaters of the basin
 - Significant flash flooding occurred along Elkhorn Creek, Clear Fork, and Panther Creek in the upper basin



UNOFFICIAL RIVER CRESTS

Tug Fork River at Welch



- Unofficially tied record crest
 - o 2002 record crest was 22.1 ft
 - Awaiting USGS finalized data before becoming official
 - Much more "flashy" in nature in the headwaters than 1977 event which occurred over a 1-2 day period
 - Damage concentrated along business district
 - Notable damage to homes along Lake Drive and Riverside Drive south of town
 - 3 fatalities

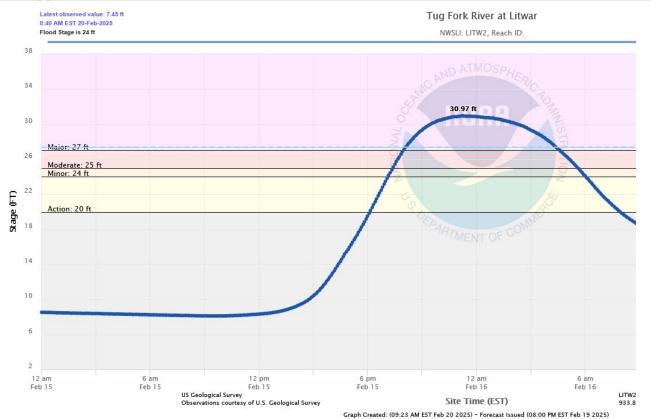


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UNOFFICIAL RIVER CRESTS

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Tug Fork River at Litwar



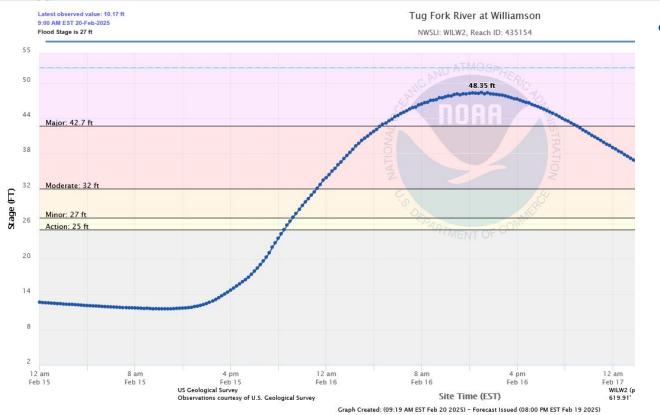
Unofficial record crest

- o 1977 crest was 27.4 ft
 - Awaiting USGS finalized data before becoming official
 - Much more "flashy" in nature in the headwaters than 1977 event which occurred over a 1-2 day period

UNOFFICIAL RIVER CRESTS

WEATHER STATES

Tug Fork River at Williamson



- Highest crest since 1977 flood
- 2nd highest crest on record (1977 crest of record)
 - Awaiting USGS finalized data before becoming official
 - Numerous structures
 affected, primarily
 residences on WV side
 outside of the flood wall

 Many businesses

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- affected on KY side
- High water marks ranged from 2 to as much as 12 ft
- USACE mitigation efforts in 1980s proved effective
 - Many escaped first floor damage

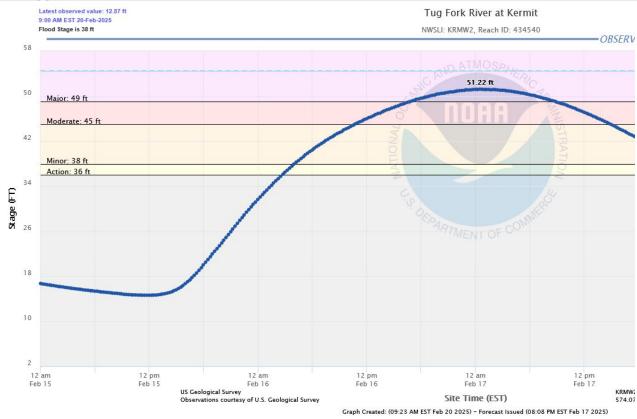


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UNOFFICIAL RIVER CRESTS

Tug Fork River at Kermit



- Highest crest since 1977 flood
- 2nd highest crest on record (1977 crest of record)
 - Awaiting USGS finalized data before becoming official
 - Numerous structures affected, primarily residences on WV side
 - High water marks ranged from 2 to 4 ft
 - Much higher on the KY side where several businesses were affected

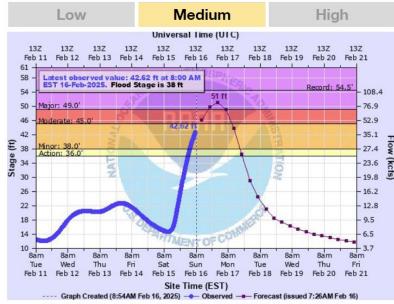


NWS Flood Inundation Mapping Services

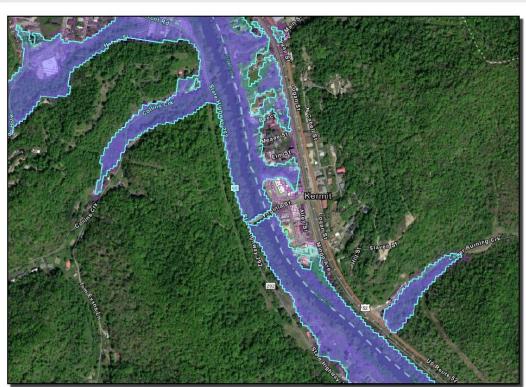
Tug Fork River - Kermit, WV (KRMW2)

- Forecast Crest Height: 51 Feet
- FIM Type: Stage-Based Categorical (Depth NOT Included)
- FIM Creation Time: 2/16/25 @ 9:30 am

Confidence:







Disclaimer: This map shows the flood extent based on a river crest of a Major Flood.

This is an approximate-based FIM which should be used more conservatively.





NWS RFC Forecast FIM







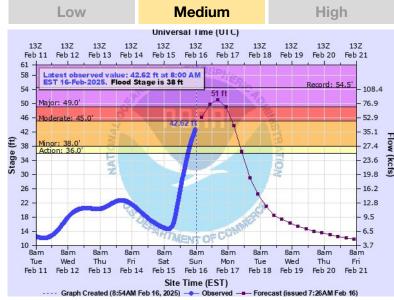


NWS Flood Inundation Mapping Services

Tug Fork River - East Kermit, WV (KRMW2)

- Forecast Crest Height: 51 Feet
- **FIM Type:** Stage-Based Categorical (Depth <u>NOT Included)</u>
- FIM Creation Time: 2/16/25 @ 9:30 am

Confidence:



Latest Observations/Forecasts: Tug Fork River at Kermit



Disclaimer: This map shows the flood extent based on a river crest of a Major Flood.

This is an approximate-based FIM which should be used more conservatively.





NWS RFC Forecast FIM







- Railyard and Route 52 (4th Ave)
 - Excellent inundation depiction







- Route 52 (4th Ave) at Sycamore Creek
 - Excellent depiction even with backwater flooding







- Route 119 at W 3rd Street
 - Excellent inundation depiction of railroad tracks
 - Time of photo around 48 ft







- Route 52 (4th Ave) at Peter Street
 - Excellent inundation depiction of backwater flooding







- Homes outside of ARH flood wall
 - Excellent inundation depiction of inundation outside the flood wall
 - Time of photo around 47.5 ft



