

Flatrock River

Flood Impacts (see also Appendix E-6)

- River crossings at County Road 900 North, County Road 550 North, County Road 400 North, Indianapolis Road, and US 31 are closed due to flooding. The crossing at 800 North is open.
- Flood waters over-top Flatrock Drive in the Noblitt Falls Neighborhood (Area 18) resulting in severe flooding of numerous structures, Flatrock Drive over-topping begins with Flatrock River gage at approximately 19 feet (per USGS preliminary inundation mapping).
- Washington Street neighborhoods (Area 17) experience severe flooding, possibly affecting up to 200 structures. Washington, Franklin, and other neighborhood streets are closed due to flooding.
- Indianapolis Road area (Area 16) experiences severe flooding, including loss of access to 20 structures, and severe flooding of 25 structures. Flooding in this area could extend as far north as the Princeton Park neighborhood, which may experience some street flooding.
- Brown, Lindsey, and 11th Street area (Area 14) experiences street flooding. This flooding could affect structures in the area including Fire Station 1 and the Cummins Corporate Office Building (where flood water could infiltrate the loading dock area).
- Long Road area (Area 22) experiences severe street flooding and the flooding of some structures.
- Commerce Park area (Area 21) experiences street flooding and potentially the minor flooding of some structures.
- Flooding closes Riverside Drive south (Area 19) and north (Area 45) segments, with access potentially limited to some structures along the north segment.
- Mill Race Park is flooded.

Response Considerations*

Priority 1:

- Noblitt Falls (Area 18)
- Linton Avenue and other Washington Street neighborhoods (Area 17)
- Indianapolis Road area (Area 16)
- Long Road (Area 22)

Travel:

Notify INDOT of US 31 closure. Consider prohibition of all non-emergency/non-essential travel. Vehicle crossing of the Flatrock River is not possible (with the limited exception of County Road 800 North, if access routes to this bridge are not also flooded by other streams).

Priority 2:

- Brown, Lindsey, and 11th Street area (Area 14)
- Commerce Park (Area 21)

Prepare alternative routes to address closure of Washington and Franklin Streets north of downtown Columbus.

Priority 3:

- Riverside Drive neighborhoods (Areas 19 and 45)

Prepare alternate routes to address closure of Brown and Lindsey Streets in downtown Columbus.

Other Notes:

The extent of the threat to human life at Noblitt Falls (Area 18) should be thoroughly assessed. Floodwater will quickly inundate at least the lower levels of all lagoon facing homes.

Haw Creek

Flood Impacts (see also Appendix E-7)

- Severe flooding occurs in the Iowa and Bemice Street neighborhood (Area 33). Severe street flooding and minor to severe flooding of approximately 170 homes is likely. The adjacent portions of Central Avenue, 10th Street, and 8th Street are likely closed due to flooding.
- Severe flooding occurs in the Cummins Tech Center/Pleasant Grove area (Area 32). Cummins Tech Center is floodwall protected but severe flooding is likely in the adjacent neighborhood. The Cummins Child Care Center building itself may experience minor flooding.
- Eastbrook Shopping Center (Area 38) is flooded, including the parking area and shopping center building.
- Everroad Park West (Area 38) is flooded, including severe street flooding and the potential for minor flooding of numerous neighborhood homes. US 31 is closed in this area by flooding obstructing all access to the neighborhood.
- Everroad Park East (Area 37) experiences flooding, including minor to severe flooding of homes. The businesses along 25th Street in this area are also flooded.
- Candlelight Village (Area 41) experiences extensive street flooding with minor to severe flooding of homes.
- Northbrook (Area 41) experiences widespread street flooding and minor flooding of homes.
- Windsor Place and Hillcrest neighborhoods (Area 40) experience widespread street flooding and an additional 60 homes experiencing minor flooding. Access may only be available through the Greenbriar Neighborhood to the east.
- 17th Street and Keller Neighborhood (Area 34) experiences street flooding and minor flooding of some homes.
- Marlah Foods and the Reo Street area (Area 30) experiences flooding that affects both the Marlah facility and neighborhood homes (about 30 affected structures, total).
- Midway Street area (Area 36) experiences flooding of area streets. Severe flooding of 10 structures, and minor flooding of an additional 20 structures occurs. The nursing home and Montessori school in this area will likely experience flooding.
- Sycamore Bend and Arrowood neighborhoods (Area 42) experience street flooding with flooding of structures in Arrowood and at the Willowood Apartments likely.
- Access to Griffin Industries is cut-off and severe flooding of the facility itself will occur.
- The Cummins Engine Plant/2nd Street area (Area 31) is flooded. The Cummins facility itself is protected by floodwalls, but the parking lot will flood. Central Avenue, 2nd Street, and 3rd are closed due to flooding. Business in the 2nd and 3rd Street area experience flooding.
- Stream crossings at State Street, 7th Street, 8th/10th Street, 25th Street, US 31, Rocky Ford Road, Marr Road, and County Road 450 North are closed due to flooding. Cross-town travel is only available via 17th Street. 25th Street may be water-covered, but passable.
- Columbus Regional Hospital (Area 35) is floodwall protected, but parking areas outside of the floodwall may experience flooding and access to the facility may become an issue.

Response Considerations*

Priority 1:

- Cummins Child Care Center and Pleasant Grove area homes (Area 32)
- Iowa/Bemice Street neighborhood (Area 33)
- Griffin Industries (Area 40)
- Everroad Park West (Area 38)
- Everroad Park East (Area 37)
- Candlelight Village (Area 41)
- 17th and Keller (Area 34)
- Eastbrook Shopping Center (Area 38)
- Northbrook (Area 41)
- Windsor Place and Hillcrest (Area 40)
- Marlah Foods and Reo Street Neighborhood (Area 30)
- Midway Street area (Area 36) (specifically including the nursing home and Montessori school)
- Sycamore Bend and Arrowood area (Area 42)

Travel:

Haw Creek stream crossings will be limited to 17th Street- all other crossings will be closed or limited due to flooding. This will result in significant travel and emergency response issues. Consider restricting travel to emergency personnel only.

Notify INDOT of US 31, and SR 46 (2nd Street and 3rd Street) closures.

Other Notes: Haw Creek is subject to flash flooding - conditions may vary and can change quickly. Careful monitoring of up-stream gages and local conditions is necessary to determine if further action is needed.

Priority 2:

- Businesses in the 2nd / 3rd Street area (Area 31)

Priority 3:

- Columbus Regional Hospital area (Area 35)

Driftwood River

Flood Impacts (see also Appendix E-4)

- I-65/ SR 46 interchange is closed. SR 46 is closed between I-65 and Downtown Columbus. The Lowell Road bridge is closed due to flooding. West side of Columbus (Tipton Lakes, Woodside, etc.) is likely effectively cut off from the rest of the City due to White River flooding of Jonesville Road and other southern access routes.
- Front Door East/ Jonathan Moore Pike area (Area 10) is severely impacted by both street flooding and at least minor flooding of area businesses. Flooding may reach as far south as the Charwood Corporate Suites facility.
- Front Door West/ Westhill area (Area 11) is severely impacted primarily by street flooding and at least minor flooding of area businesses. Southwest Bartholomew Water Company offices on Carlos Folger Road may also experience flooding.
- Tellman Camp Road area (Area 15) is severely flooded.
- Mill Race Park is flooded.

Response Considerations*

Priority 1:

- Hotels and other businesses at I-65/SR 46 interchange (Areas 10 and 11)
- Tellman Camp area (Area 15)

Travel:

Notify INDOT of expected SR 46 flooding. Announce and prepare for heavy traffic on alternate cross-town travel routes: I-65 at SR 58 to I-65 at US 31, US 31/National Road and CR 800 North to Marr Road. However, if 500 year flooding is also occurring on the Flatrock River alternate routes may also be unavailable. In the event of community-wide flooding consider prohibition of all non-emergency/non-essential travel.

Other Notes: Review northwestern Columbus (Tipton Lakes area) accessibility and the availability of emergency medical resources, water rescue equipment, etc. to the area.

Sloan Branch

Flood Impacts (see also Appendix E-9)

- Eastridge Manor (Area 27) experiences severe flooding with 25 structures having minor flooding and 5 additional structures having severe flooding. Elizabeth Street is closed due to flooding.
- Madison and Grant Park neighborhoods and Flintwood Addition (Area 26) experience severe street flooding that may limit access to 250 structures. Approximately 65 structures experience minor flooding, with potentially severe flooding of 2 additional structures. Flooding may also affect nearby businesses along the north side of 25th Street.
- Talley Road is closed in several locations due to flooding. Flooding along Talley Road may also result in minor flooding of 5 structures and severe flooding of 2 additional structures.
- 25th Street may be affected by flooding both west of Talley Road and at the Sloan Branch bridge.

Response Considerations*

Priority 1:

- Affected areas of Eastridge Manor (Area 27)
- Talley Road homes

Travel:

Talley Road will be closed in several locations. Prairie Streams neighborhood may be isolated.

25th Street is likely closed. An alternate route from Talley Road to the area west of the flooding may be available through the McCullough's Run neighborhood.

Priority 2:

- Madison and Grant Park neighborhoods and Flintwood Addition area (Area 26)

Denios Creek

Flood Impacts (see also Appendix E-3)

- Bethel Village (Area 4) experiences severe flooding including most neighborhood streets and over 100 structures.
- The Dawson Street and State Road 11 areas (Area 5) experience flooding that affects streets and structures in most of the Dawson Street neighborhood and structures fronting on State Road 11 south of Blessing Road.
- Shadow Creek Farms (Area 6) experiences street flooding with access limitations due to County Road 150 West flooding.
- Access between the Tipton Lakes area and the I-65/State Road 58 interchange could be cut off by flooding of County Road 400 West, County Road 225 West, and Crossing Lane. In a community-wide flood event this could further isolate this portion of the City. Closure of Car Hill Road and Goeller Road west of Tipton Lakes is also possible.

Response Considerations*

Priority 1:

- Bethel Village (Area 4)
- Dawson Street and State Road 11 affected areas (Area 5)

Travel:

Crossing Lane, County Road 400 West and County Road 225 West are likely closed due to flooding. If the I-65/ SR 46 interchange is flooded, these roads provide the only access from the Tipton Lakes area to the I-65/ State Road 58 interchange - the only other possible connection with the rest of the City.

Other Notes: Review northwestern Columbus (Tipton Lakes area) accessibility and the availability of emergency medical resources, water rescue equipment, etc. to the area. Community-wide flooding could result in the isolation of these neighborhoods.

East Fork White River

Flood Impacts (see also Appendix E-5)

- Jonesville Road (SR 11), Gladstone Avenue, Southern Crossing, and County Road 800 South all closed due to flooding.
- Garden City area (Area 9) experiences severe flooding affecting over 100 structures and the access to additional structures.
- Potentially severe flooding in Bethel Village (Area 4) affecting approximately 90 structures resulting from White River flood waters backing up into Denios Creek.
- State Road 11 South area (Area 5) is likely to experience flooding of structures on the east side of State Road 11, south of Blessing Road. Dawson Street neighborhood may also experience severe flooding resulting from flood waters backing up Denios Creek.
- Huffman Drive area (Area 8), including the Columbus West Water Treatment Plant may experience access limitations and minor flooding of some structures.
- Homes at the intersection of County Road 450 South and State Road 11 (Area 2) likely experience flooding.
- The Marlah Foods/Reo Street area (Area 30) may experience severe flooding of both the Marlah Foods facility and homes to the east.
- Griffin Industries (Area 46) experiences access restrictions and potentially damaging flooding (Water Street (Area 29) and Griffin access road closed due to flooding).

Response Considerations*

Priority 1:

- Griffin Industries (Area 46)
- Garden City area (Area 9)
- SR 11 South and Dawson St. (Area 5)
- Marlah Foods and Reo Street neighborhood (Area 30)
- Bethel Village (Area 4)

Travel:

Notify INDOT of State Road 11 flooding. Announce and prepare for heavy traffic on alternate cross-town travel routes: I-65 at SR 58 to I-65 at US 31, US 31/National Road and CR 800 North to Marr Road. However, if 500 year flooding is also occurring on the Flatrock River, alternate routes may also be unavailable. In the event of community-wide flooding consider prohibition of all non-emergency/non-essential travel.

Other Notes:

Flooding conditions at the Columbus Waste Water Treatment Plant should be carefully assessed.

Clifty Creek

Flood Impacts (see also Appendix E-2)

- Gladstone Avenue is closed due to flooding.
- Wheimeier Addition/ Columbus East High School (Area 24) is severely impacted by flooding. Over 100 Wheimeier Addition homes and nearby businesses are flooded. Flooding threatens and may impact the Columbus Township Fire Station and Red Cross offices on Repp Court. Flood protection at Columbus East High School may be overtopped. McKinley Avenue is flooded east of Marr Road limiting access to the apartment complexes on the north side of the street.
- Sandy Hook/ Clifty Crossing area (Area 25) experiences significant street flooding and possible minor flooding of some structures. The Sandy Hook United Methodist Church Child Care facility may be affected. Access to Four Seasons Retirement Facility may be affected.
- Regency Drive area (Area 28) experiences some street flooding, with minor flooding of some homes also possible.
- Flooding is possible, including the potential flooding of structures on the south side of 25th Street, east of Bonnell Road.
- Clifty Park is flooded.

Response Considerations*

Priority 1:

- Wheimeier Addition and Columbus East High School (Area 24)
- Sandy Hook United Methodist Church child care facility (Area 22)

Travel:

Gladstone Avenue closing may increase traffic on State Road 11 (if not flooded), US 31, and State Road 46.

Alert INDOT of possible US 31 closure in the Clifty Crossing area. The US 31 bridge over Clifty Creek may remain open, but is only accessible from 17th Street.

Priority 2:

- Sandy Hook/ Clifty Crossing area (Area 25)

Priority 3:

- Repp Court area (Area 24)
- Regency Drive area (Area 28)

* This map summarizes and analyzes likely flood events. Actual flood events and impacts will vary based on rainfall locations and amounts, ground saturation, etc. This map is to be used as a guide with specific responses to specific floods determined by the FRP coordinators on a case-by-case basis.

Sources of Data: 1. Depth Gages and Flooding Extent created from 2011 and 2016 IndianaMap LIDAR 2. Critical Facilities adapted from 2016 Bartholomew County MIMP 3. US Bureau of the Census TIGER files, 2019

DISCLAIMER Flood extents/depths shown on this map were determined based on Flood Insurance Study models, (CHRE), hydraulic models (Sloan Branch, Airport Tributary, Haw Creek, and Driftwood River LIDAR), and USGS modeling (East Fork White River and Flatrock River Flood Map Inundation Libraries). These models assume the flow paths and bridge openings remain unobstructed and do not fail. Average or standardized rainfall amounts and distributions are also assumed. Because these models cannot take every localized feature and all possible rainfall distributions into account, estimated flood elevations may be slightly different than actual flood elevations. In addition, the flood extent and depth were based on available LIDAR data for topography. While this data is much more accurate than previous large scale mapping efforts, elevation may be up to a foot too high or too low with most locations' elevation being within a half of a foot. In addition, the topographic information does not show features, such as back flow prevention devices, that may keep areas shown as flooded on this map flood free for this frequency flood.

Therefore, the information on this map provides a guide for flood fight decisions but must be combined with actual observations for additional guidance. Additional flood impacts and overtopped roads are not shown but may occur. Areas where flood depth mapping was not developed as part of this Plan, or on minor roads such as private drives or unnamed roads.

Potential Red Cross Shelter Site Status* Legend: Green circle = Flood Safe, Yellow circle = Questionable, Red circle = Compromised. Note: Mt. Healthy School is also a flood-safe shelter (not on map).

500-year Flood Stream Gage Readings Table: 22.0 ft East Fork White River @ Columbus 2nd Street Bridge, 19.4 ft Driftwood River @ Edinburgh, 19.9 ft Flatrock River @ Columbus US 31 Bridge, 19.8 ft Haw Creek @ East Columbus, 15.3 ft Haw Creek @ Clifford, 23.1 ft Clifty Creek @ Columbus SR 46 Bridge

Likely Flood Response Priorities Legend: Priority 1 Areas (red border), Priority 2 Areas (yellow border), Priority 3 Areas (blue border). Descriptions of likely inundation levels and response actions for each priority.

500-year Flood Impacts Footer: Includes legend for transportation routes, critical facilities, stream gages, and neighborhood reference numbers. Includes project information for City of Columbus - Bartholomew County Planning Department, prepared by Christopher R. Burke Engineering, LLC. Project: Flood Response Evacuation Plan, Area Impacted by the 500-Year Annual Chance Flood.