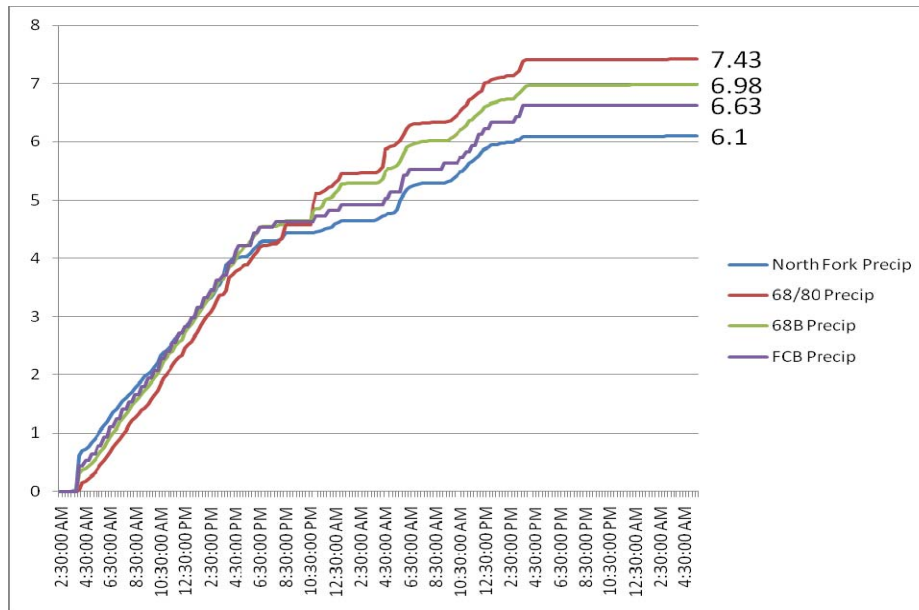


Rain and Flood Gage Readings

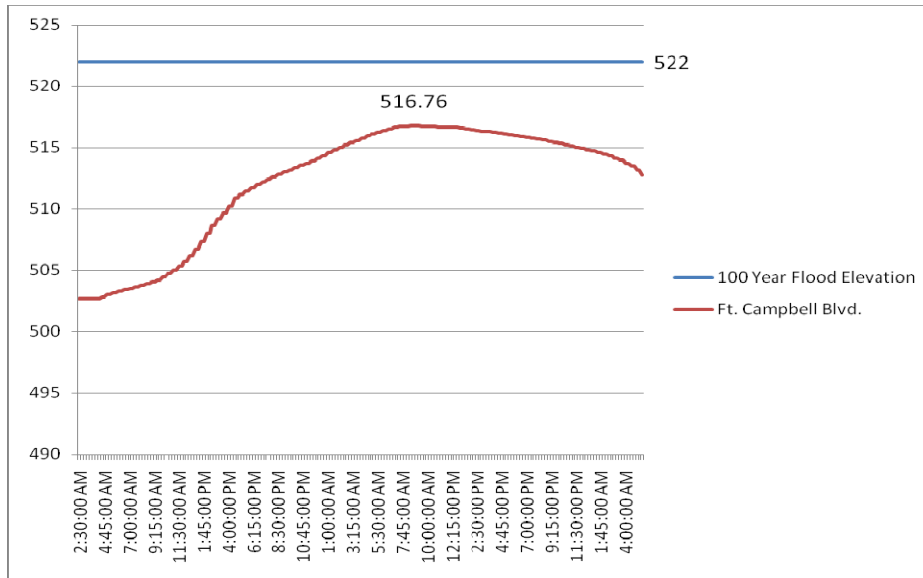
Rain Gages

Rainfall amounts for the period Saturday, May 1 to Sunday, May 2 varied between 7.43 inches at our electronic streamflow gage on US 68/80 East (Moseley Bridge), to 6.1 inches at our streamflow gage on the North Fork at Jeffers Bend. From 4:30 AM and Saturday to 4:30 AM on Sunday, the gage at Moseley Bridge logged 5.73 inches of rain. A 100-year, 24-hour storm event is equal to 6.8 inches or rain in a 24-hour period.



South Fork of the Little River

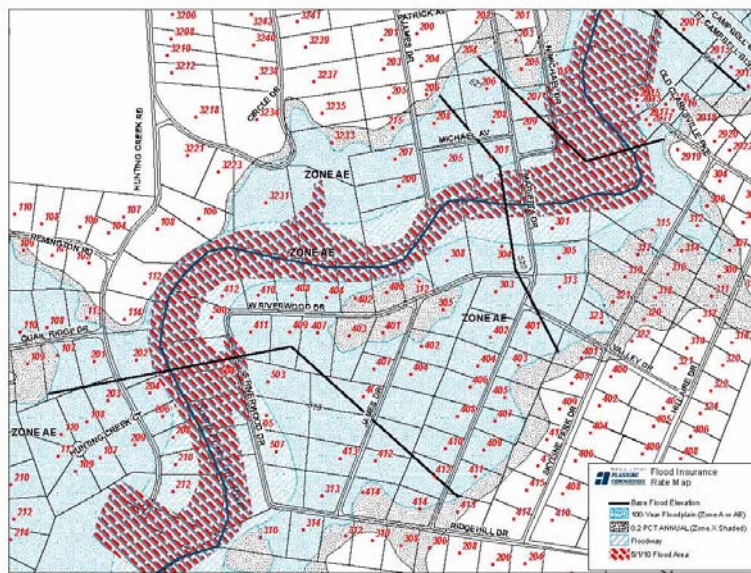
The South Fork of the Little River crested at Ft. Campbell Blvd. at approximately 9:15 on Sunday morning after 5.63 inches of rain, even though it continued to rain into the afternoon, totaling 6.63 inches by 3:30 Sunday afternoon. There were multiple crests at Moseley's Bridge on 68 East. The largest crest came at 7:15 Saturday evening, with smaller crests occurring at 2:00 and 8:00 on Sunday morning, and the final crest coming at 2:30 on Sunday afternoon.



Affected Properties

The duplex at 2915 Old Clarksville Pike was surrounded by rising water by 9 AM on Sunday morning. The home at 504 South Riverwood Drive was completely surrounded. It did not appear that water had entered the first flood at either location; however the foundations were completely submerged.

Across the river, water neared the foundation of 212 Hunting Creek Road, and completely surrounded the mailbox with at least 2.5' water, preventing mail delivery. Other homes experienced some shallow flooding and minor sinkhole flooding, particularly around the sinkhole between Remington Road and Quail Ridge Drive.



Downstream at Eagle's Cove, the only property casualties appeared to be backyard plastic playscapes that were located right near the river, and were either filled with sediment-laden water or washed away. Rollerdome was the only commercial property where floodwaters were observed to impact the foundation.

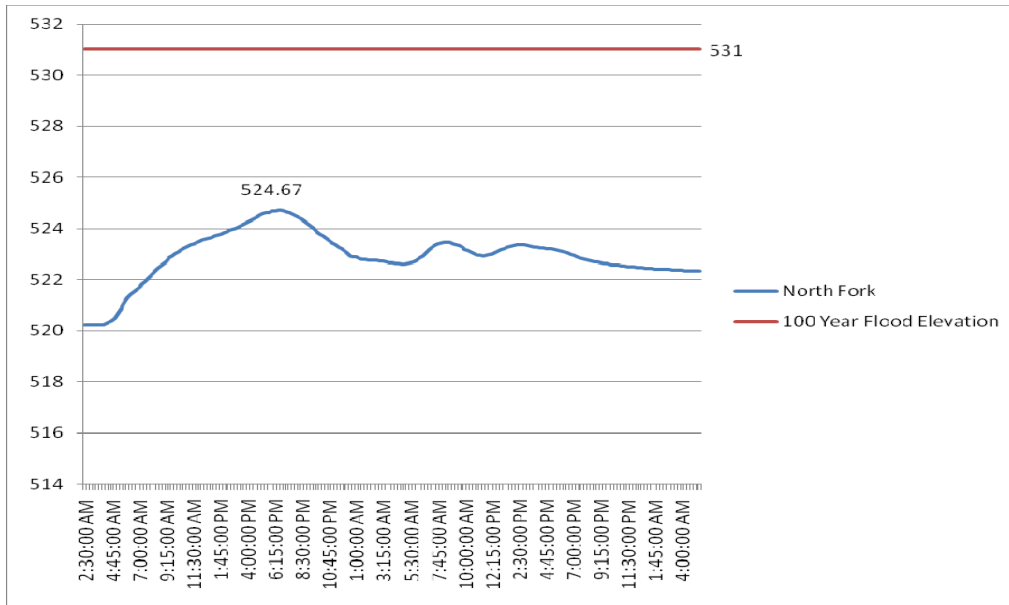
Road Closures

County personnel responded late Monday night and closed several roads along the South Fork including Little River Church Road, and L. Thompson Road. Early Sunday morning, lower portions of Woodmill Road, Christian Quarry Road, and Old Clarksville Pike Road behind Walgreens were covered in floodwaters. This flooding was closely followed by the inundation of Marietta Bridge, S. Riverwood Drive, and portions of N. Michael Drive. Across the river, Hunting Creek Court was also covered in water, yet passable.



North Fork of the Little River

For the most part, the North Fork of the Little River stayed within its banks and crested much earlier than the South Fork. However, the actual crest time was unable to be determined because Planning Commission personnel were not notified early enough to begin monitoring activities.



Affected Properties

Water levels in the river were high enough to cause some sinkhole flooding which inundated some sheds and carports, and flooded a driveway and a home foundation on Hurst Drive.

Watershed Lakes

The four watershed lakes, Lake Blythe, Lake Morris, Lake Tandy, and Lake Boxley were all full and were discharging large amounts of water into the North Fork. However, their stormwater runoff storage capacity may have helped keep water levels down along the North Fork.

Surface and Sinkhole Drainage

Surface and Sinkhole Drainage were monitored both Saturday and Sunday. There were several street closures and points where water was crossing streets in these areas, due both sinkhole (Hurst Drive), and surface drainage (Westwood).

South Sunset Circle

The basin constructed on the Shelton property is a success story. At no point during the event did rain waters surround foundations of homes or substantially inundate yards. The water elevation of the basin reached the emergency spillway at 524’.



Bahama Drive

The Sinkholes both on the north and south sides of Bahama Drive appear to drain well, with no road closures necessary.

Westwood/Boxwood

There was a road closure necessary on Westwood Drive, though it did not appear that any foundations were substantially affected by rain waters.



Cardinal Drive

Water crossed Cardinal Drive in two places, however the roads remained passable and no closures were necessary. No principal structures were affected by rain waters.

Braden Street/Means Avenue

Again, water crossed Braden Street as well as Means Avenue, however the roads remained passable and no closures were necessary.

Pardue Lane

Water crossed Pardue Lane, however the roads remained passable and no closures were necessary. The rainwater approached the foundation of 106 Pardue Lane.

North Sunset

Water crossed Pardue Lane, however the roads remained passable and no closures were necessary. No principal structures were affected by rain waters.

Mable Avenue

Water did not cross Mable Avenue.

Hurst Drive

Rain Waters necessitated a closure of Hurst Drive, and reached the foundation of 912 Hurst Drive.



Damage

Only minor damage to property was observed in Hopkinsville, mostly limited to accessory structures, attached garages and utilities.

Actual damage reports and/or claims are unknown. It is extremely helpful for future flood response planning purposes and flood buyout/floodproofing programs to know the actual extent of any damage.

Problems and Recommendations

For a flooding event of this kind, several problems as well as successes were encountered regarding notification, response team area coverage, data collection, inter-agency coordination, stormwater infrastructure performance, and barricade effectiveness.

Notification

The Christian County Road Department was notified of flooding on the South Fork of the Little River impacting several roads in the county. Responding to the notice issued by the Emergency Communications Center (ECC), several roads were barricaded, including the bridge at Little River Church which was already inundated by several feet. If the Little River Church Road bridge is heavily inundated, then flood gage monitoring needs to begin early along the South Fork in town.

Data Collection

Data collection was continually updated throughout the event. The stream flow gages at various points in the City and County provided critical information with respect to water elevation and precipitation.

cc: Steve Bourne
Peter Wood
Stormwater Utility Board Members