



National Weather Service  
Wilmington NC

# *River Flood Assessment*

for northeast SC and southeast NC

Friday October 7, 2016  
155 PM EDT



*Prepared By:*

Rick Neuherz

Richard.Neuherz@noaa.gov



<http://weather.gov/ilm>



US National Weather Service Wilmington NC



@NWSWilmingtonNC



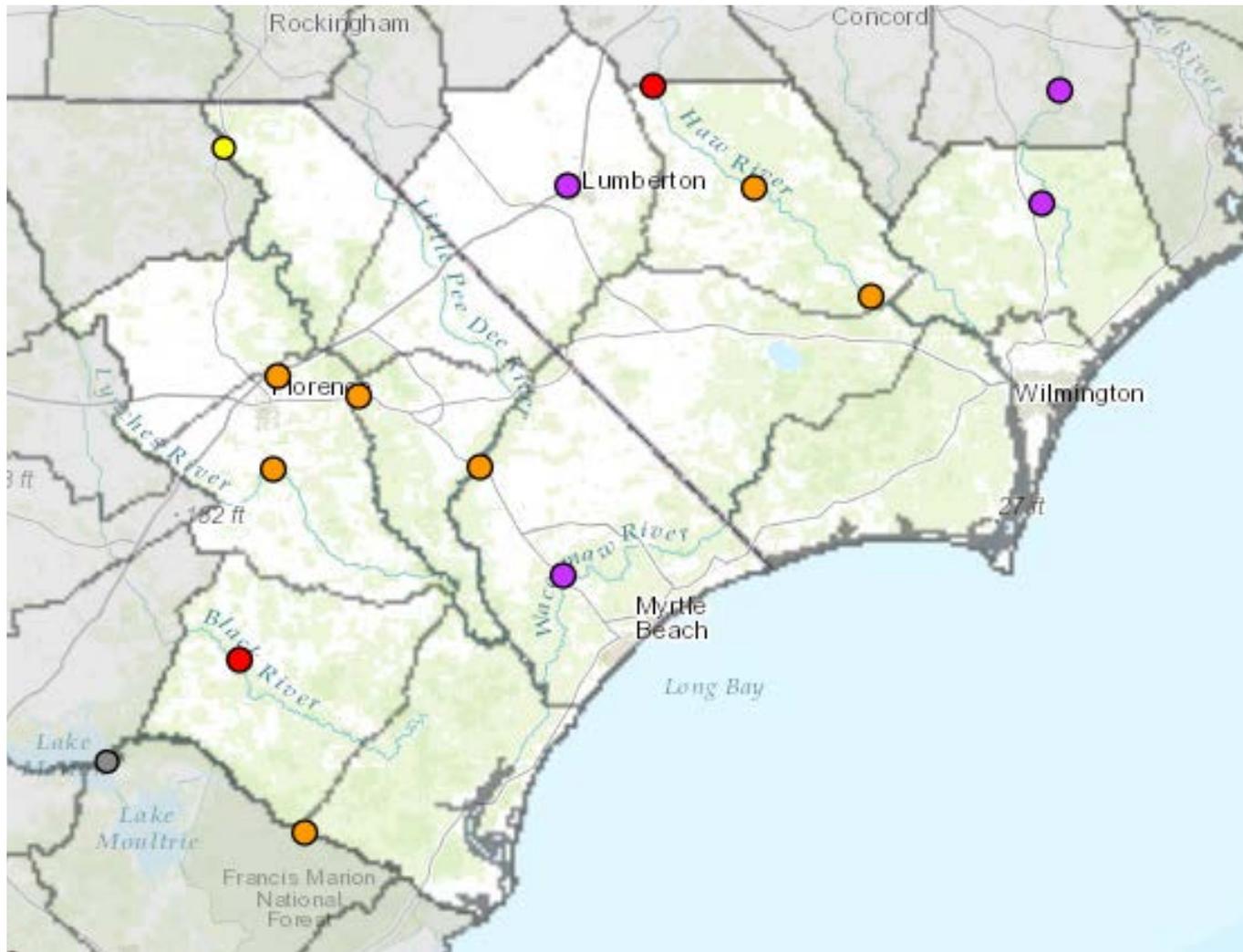
## Highlights

- *Three rivers forecast to reach MAJOR flood:*
  - Waccamaw River near Conway, SC
  - NE Cape Fear River near Burgaw
  - Lumber River at Lumberon
- *Two rivers forecast to reach MODERATE flood:*
  - Cape Fear River at William O Huske Lock and Dam
  - Black River at Kingstree
- The remainder of the rivers forecast to reach *MINOR* flood or lower
- Most rivers are currently at or below flood stage but will rise through the weekend and all forecast points may be above flood stage by Sunday or Monday.



# River Forecast (ft)

As of 1:00 PM Oct 7th, 2016



□	Forecast available
○	Probability and forecasts available
◇	Observations only available
Major Flooding	
Moderate Flooding	
Minor Flooding	
Near Flood Stage	
No Flooding	
Observations Are Not Current	
Out of Service	
Flood Category Not Defined	
At or Below Low Water Threshold	

Map denotes maximum flood category through 8 AM Oct 12, 2015.

*This forecast contains observed rainfall through 8 AM today and forecast rainfall from 8 AM today through 8 AM Sunday*

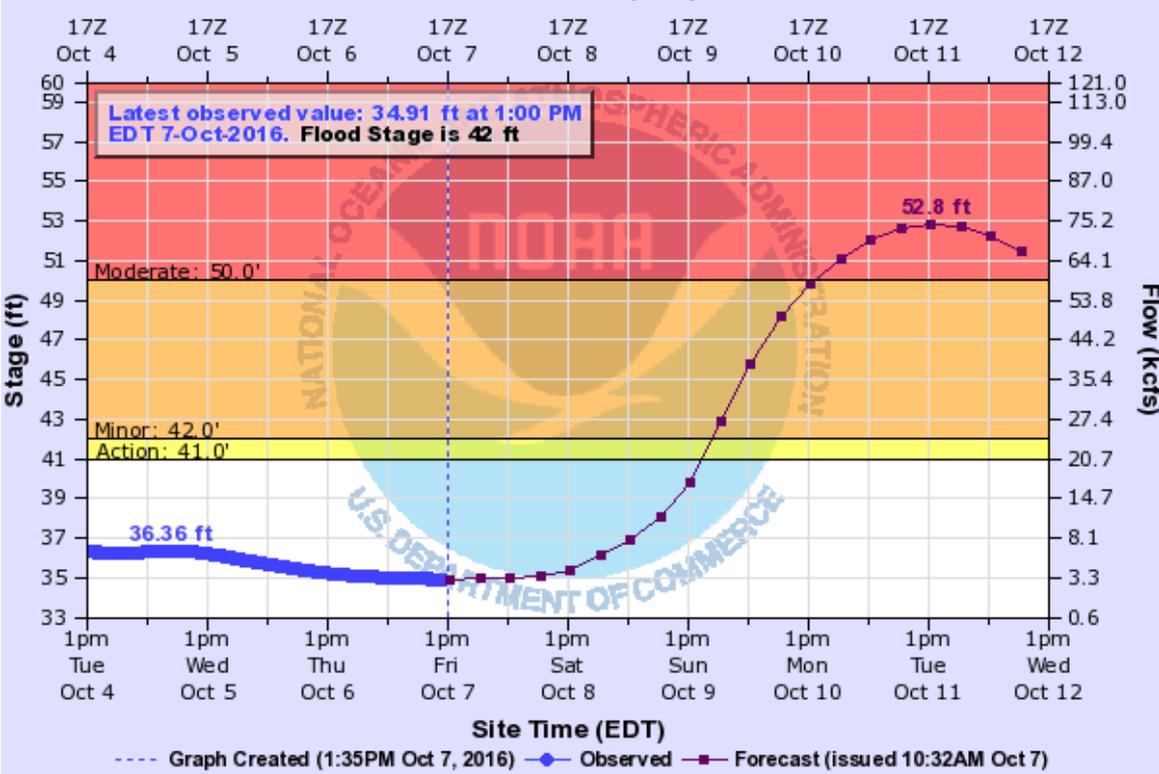
# River Forecast (ft)

As of 1:00 PM Oct 7th, 2016



## CAPE FEAR RIVER AT W.O. HUSKE LOCK

Universal Time (UTC)



STPN7(plotting HGIRG) "Gage 0" Datum: -3.12' Observations courtesy of US Geological Survey

## River Flood Impacts vs Stage

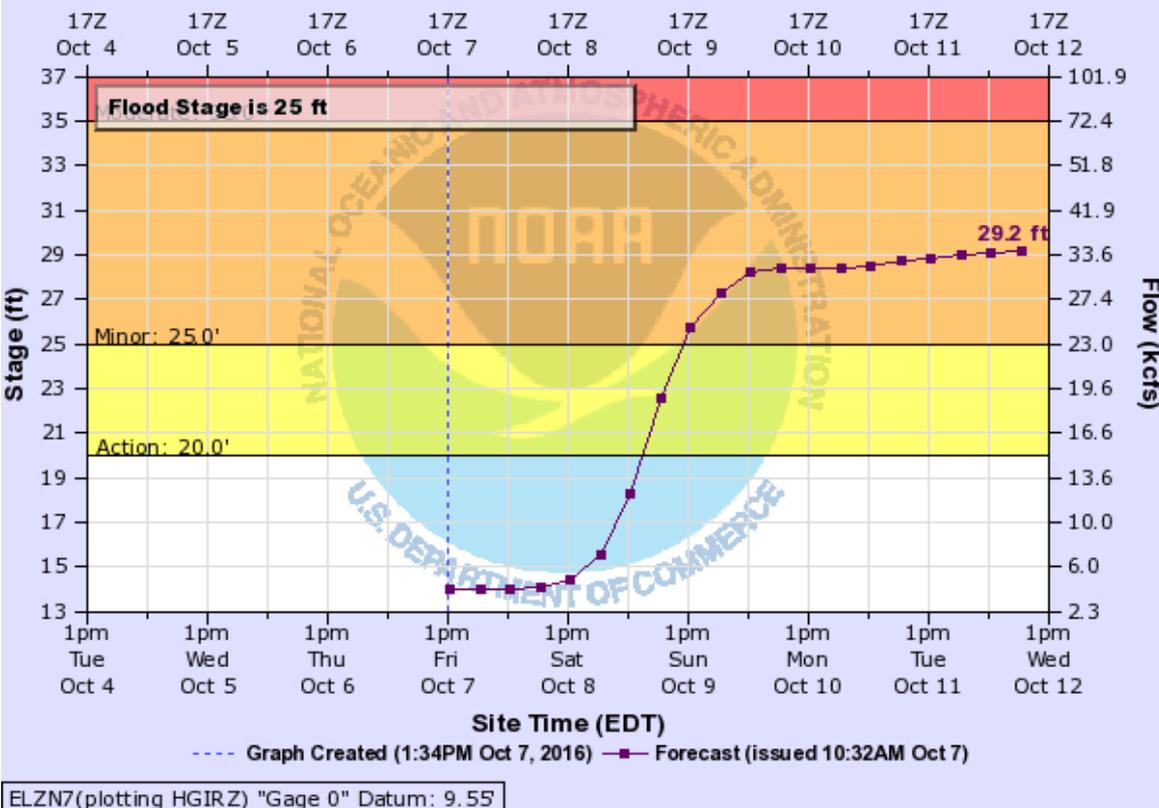
- 79.3 Water will reach the elevation of the instrument shelter in the USGS well house. Extensive flooding will occur along the all reaches of the river.
- 76.5 Water will reach the floor in the USGS well house. Extensive flooding will continue along both banks of the river.
- 75.5 Flood waters will reach within eight inches of the floor in the lockmasters residence. Extensive flooding can be expected along both banks of the river.
- 65 Water will approach the road in front of the lockmasters residence. Extensive lowland flooding will occur along the left bank with minor flooding along the right bank.
- 52 Extensive flooding will occur along the left bank of the river. Water levels will reach the door sill of the USGS well house.
- 50 Extensive lowland flooding will occur along the left bank of the river.
- 45 Flood waters will affect areas along the left bank of the river with some minor overflow along the right bank.
- 42 Water levels will top the navigational lock. Operations stop and the equipment must be removed. Minor flooding will occur on land adjacent to the left bank of the river.

The river is expected to reach flood stage by midday Sunday and moderate flood stage Monday.



## CAPE FEAR RIVER AT ELIZABETHTOWN

Universal Time (UTC)



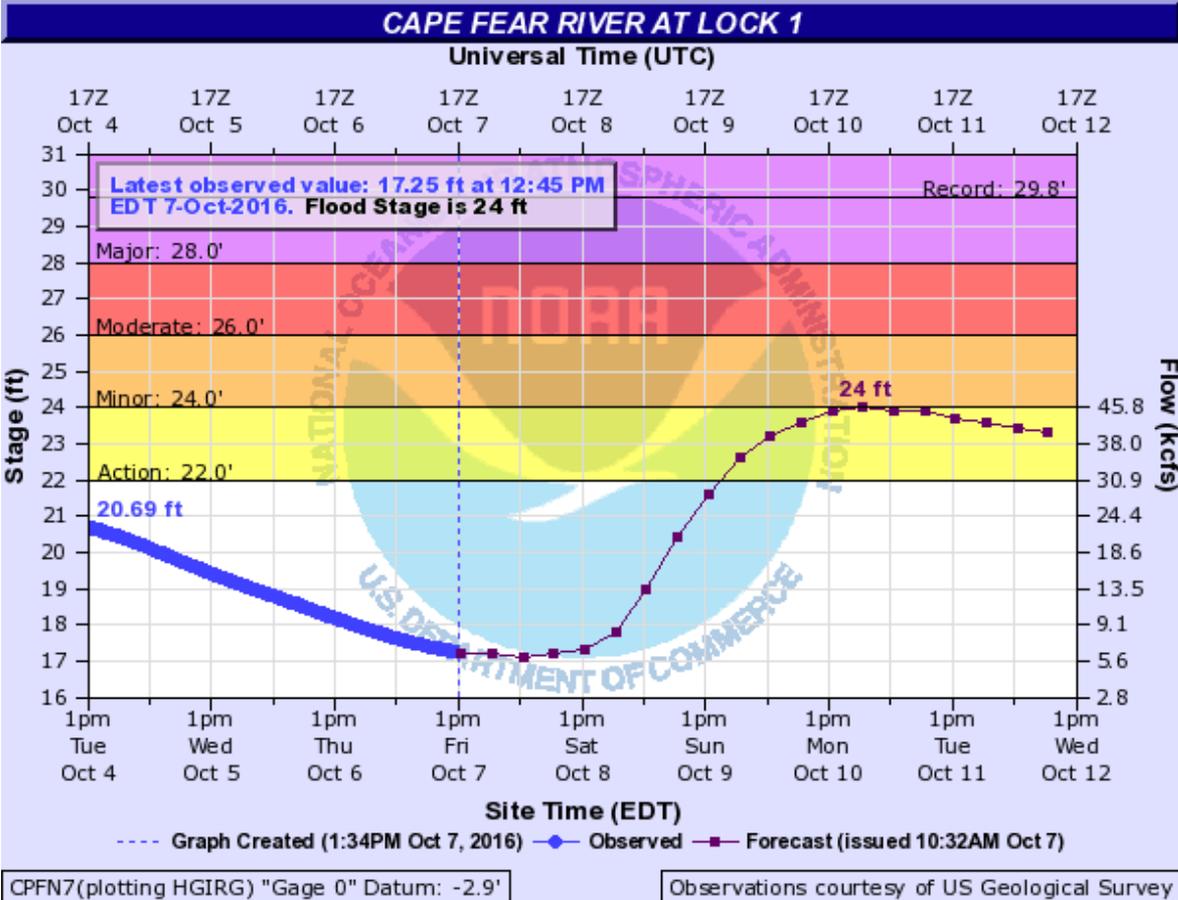
## River Flood Impacts vs Stage

- 47 Flood waters will remain below the bridge on Highway 242 but lower roads along the left bank will of the river experience high water.
- 43 Considerable flooding will occur along the entire length of the river as well as near the city of Elizabethtown.
- 38 Flood waters will enter the first floor of the lockmasters residence.
- 35 Flood waters will reach the home of the lockmaster and will affect low grounds along the length of the river.
- 30 Flood waters will affect low grounds along the right bank of the river.
- 27 Floodwaters will affect farmers' fields adjacent to the river requiring the movement of farm equipment to higher ground.
- 25 Flood waters will reach the top of the navigational lock.
- 23 River will spread further into low grounds on the left bank.

The river is expected to reach flood stage by midday Sunday.

# River Forecast (ft)

As of 1:00 PM Oct 7th, 2016



## River Flood Impacts vs Stage

- 50 Water levels will reach the height of the bluff on which the lockmasters residence is located.
- 28 Flood waters will near the flood of record. At 30 feet, this is above the flood of record and flood waters reach the instrument shelter.
- 26 Moderate flooding of swamps and low lands. Flooding similar to that reached with the remnants of Hurricane Hilda in 1964.
- 24 Lowland flooding will occur along the riverbed.

The river may reach flood stage Monday

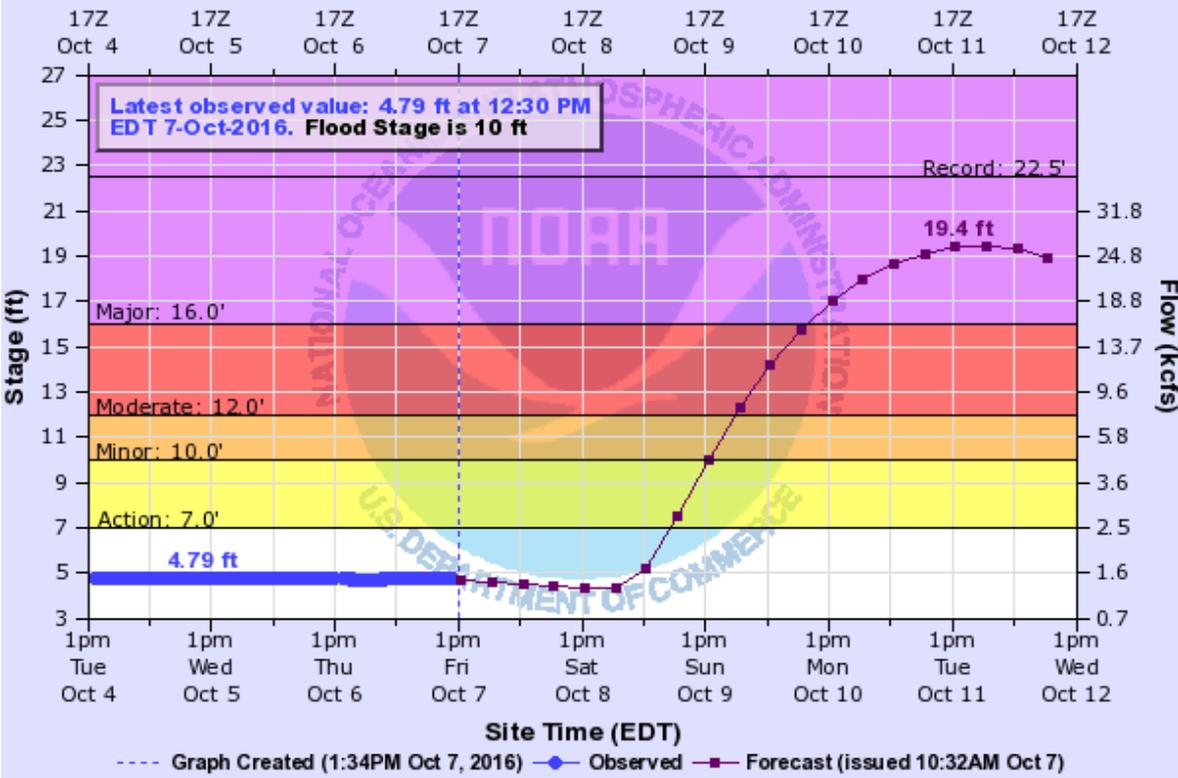
# River Forecast (ft)

As of 1:00 PM Oct 7th, 2016



## N.E. CAPE FEAR RIVER NEAR BURGAW

Universal Time (UTC)



## River Flood Impacts vs Stage

13.5 Floodwaters begin to affect Highway 53, Highway 210, White Stocking Road, Shaw Highway and Holly Shelter Road. Roads are passable but have water on them.

12.5 Floodwaters cause roads to become impassable in the River Bend, River Birch and Alligator Lake subdivisions off Highway 53. These areas become isolated due to the floodwaters and some evacuations may be needed. In the Holly Shelter Estates subdivision, half of the area has water on the roads due to floodwaters. Approximately 12 homes on Old Maple Hill Road off Shaw Highway become isolated.

12 Flooding worsens in the River Bend, River Birch and Alligator Lake subdivisions off Highway 53 on the east bank of the river. Floodwaters continue to rise on Croomsbridge Road and Old Maple Hill Road. Holly Shelter Estates and the Sandy Bend subdivision begin to be affected.

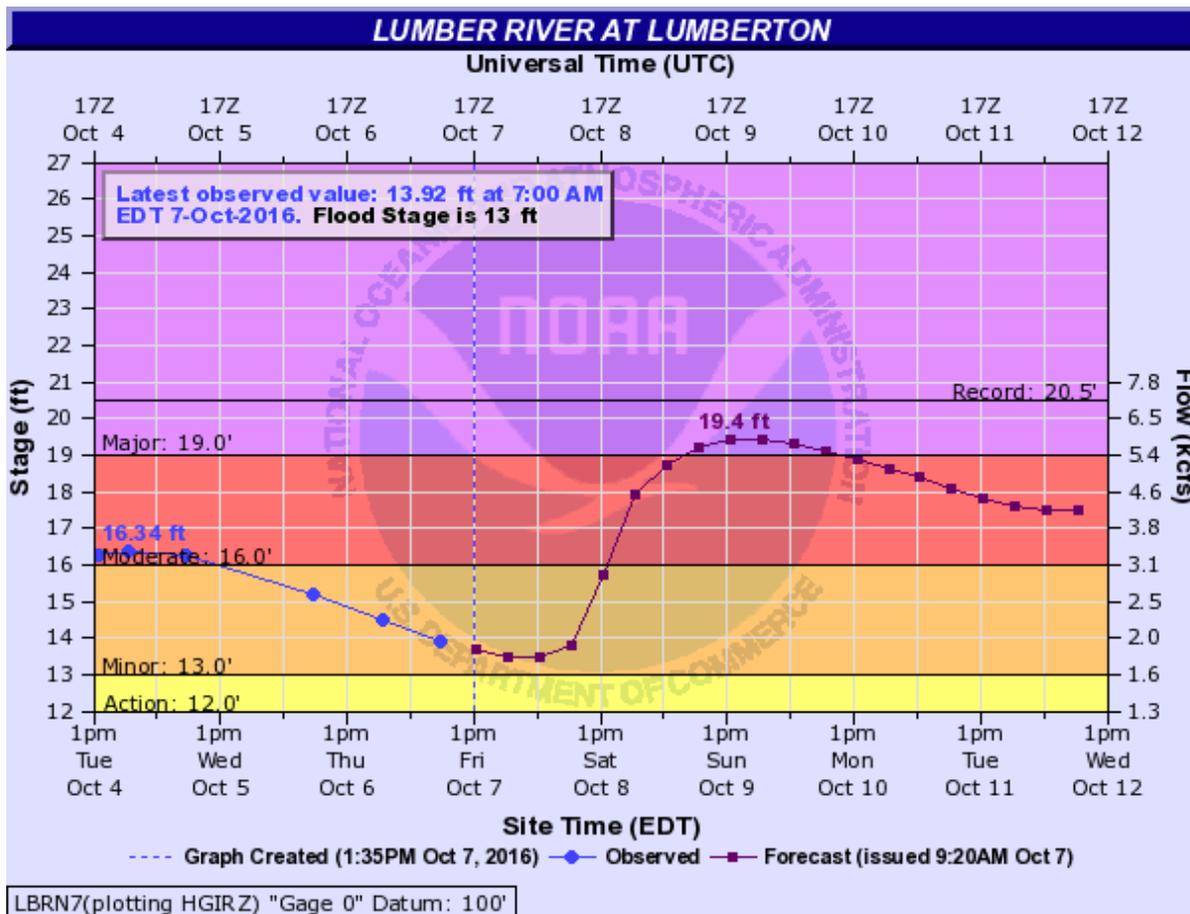
11.5 Floodwaters begin to affect roads in Alligator Lake subdivision. Flooding worsens in the River Bend and River Birch subdivisions and along Croomsbridge Road and Old Maple Hill Road.

11 Floodwaters continue to rise and affect roads in the River Bend and River Birch subdivisions off Highway 53 along the east bank of the river. Portions of Croomsbridge Road and Old Maple Hill Road become impassable.

10.5 Flood waters cause minor flooding of Croomsbridge Road and Old Maple Hill Road. Some roads in River Bend and River Birch subdivisions become impassable.

10 Minor flooding of roads in the River Bend and River Birch subdivisions. Flooding of Croomsbridge Road begins west of the bridge over the river.

8 Water affects the lowest portions of River Bend Road and River Birch Road.



## River Flood Impacts vs Stage

- 16 Flooding worsens in the Pines and Coxs Pond areas as well as along River Road. Flooding also worsens between the Pepsi plant and the river on the east side of town. In addition, Chickenfoot Road, Hestertown Road and Noir Street will have flood waters on them.
- 15 Flood waters will affect yards in the Pines area, Coxs Pond area, and along River Road. Additional residential property will be affected between the Pepsi plant and the river on the east side of Lumberton.
- 13 Low land flooding will occur along the river. The flood waters may affect some residential property as water backs up into the drainage ditches in the city.
- 11 Low land flooding will occur along the river.

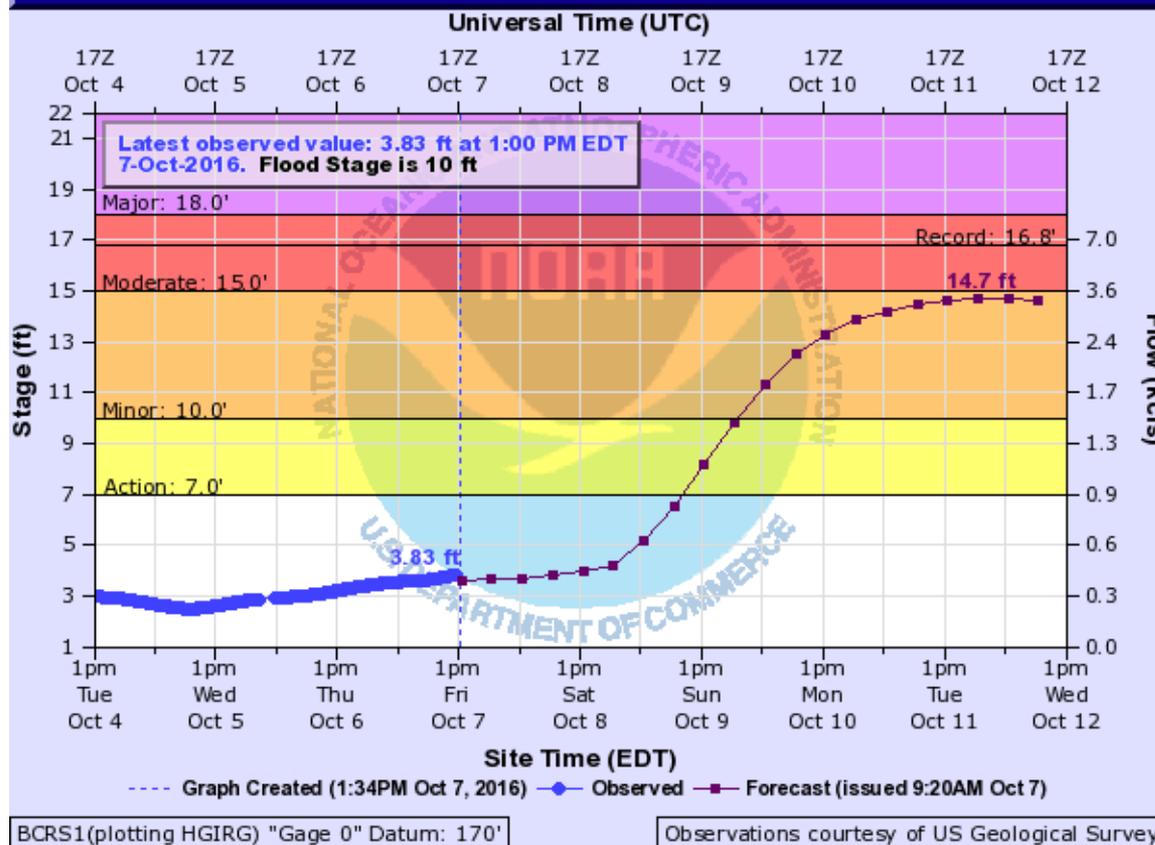
The Lumber River at Lumberton is in minor flood and is forecast to reach major flood stage on Sunday.

# River Forecast (ft)

As of 1:00 PM Oct 7th, 2016



## BLACK CREEK (SC) NEAR QUINBY

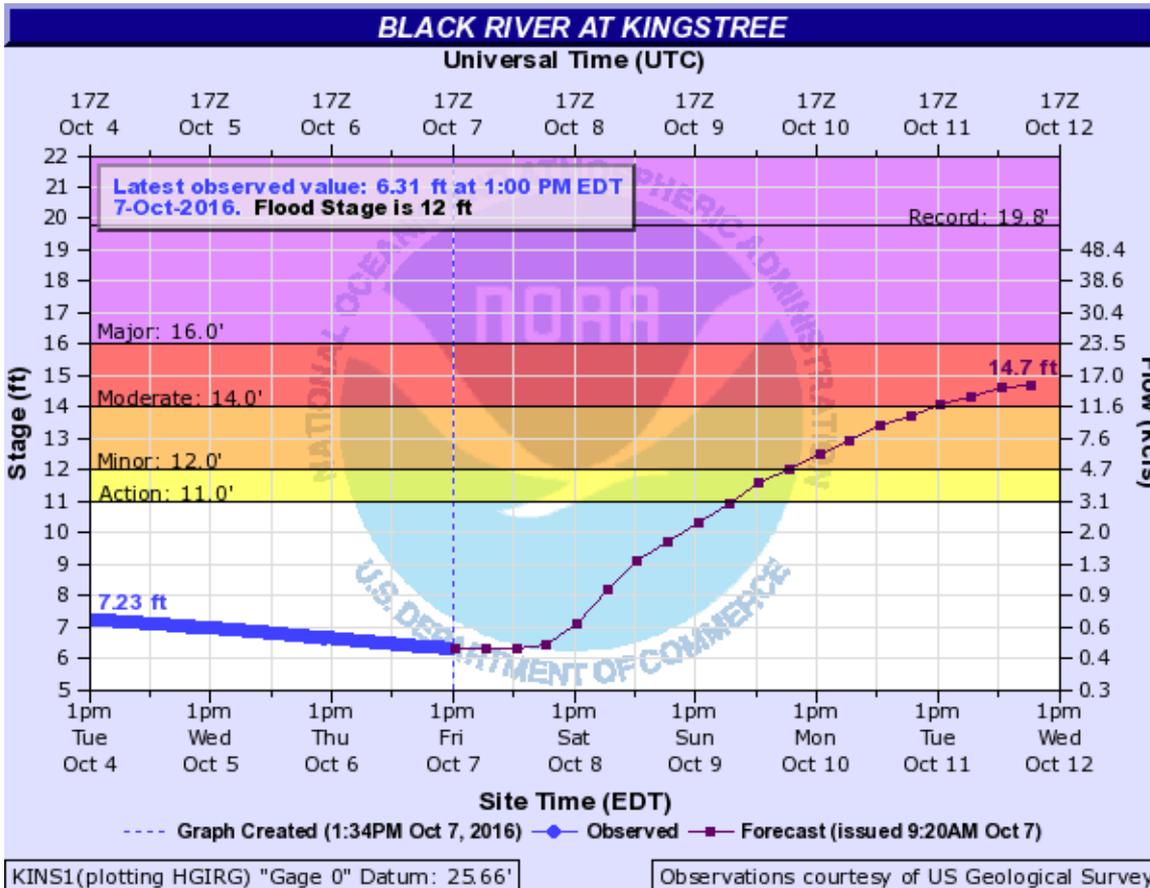


## River Flood Impacts vs Stage

- 18 Water several feet deep in numerous homes on Creekside Drive, East Black Creek Road, and Crooked Creek Drive.
- 16 Floodwaters deepen on Creekside Drive, East Black Creek Road, and Crooked Creek Drive. Flood waters spread onto Cyprus Bend Road into the Country Club of South Carolina.
- 15 Floodwaters enter numerous homes on Creekside Drive, East Black Creek Road and Crooked Creek Drive.
- 14 Floodwaters surround the majority of homes on East Black Creek Road, Creekside Drive and Crooked Creek Drive and all residents are isolated due to the floodwaters. Water is lapping at the foundations of all ground level homes in these areas.
- 13.5 Floodwaters begin to affect one mobile home on Creekside Drive and continue to rise in yards.
- 13 Floodwaters spill over into all yards of residences on Creekside Drive, Crooked Creek Drive and East Black Creek Road. The creek spills over its banks off Highway 327 in the Country Club of South Carolina. Floodwaters affect some yards of residences in the Country Club of South Carolina.
- 12.5 Floodwaters continue to rise on Creekside Drive and East Black Creek Road with water nearing a few homes. Homes along East Black Creek Road become isolated and residents must use boats to exit the neighborhood.
- 11.5 Floodwaters spill over into yards of all residences on Creekside Drive.
- 11 Floodwaters affect Creekside Drive in Quinby. Water begins to get into residents' yards on Creekside Drive and East Black Creek Road.

- 10.5 Floodwaters begin to affect portions of East Black Creek Road.
- 10 Flood stage. Creek coming out of its banks.

The creek is forecast to reach flood stage Sunday.



## River Flood Impacts vs Stage

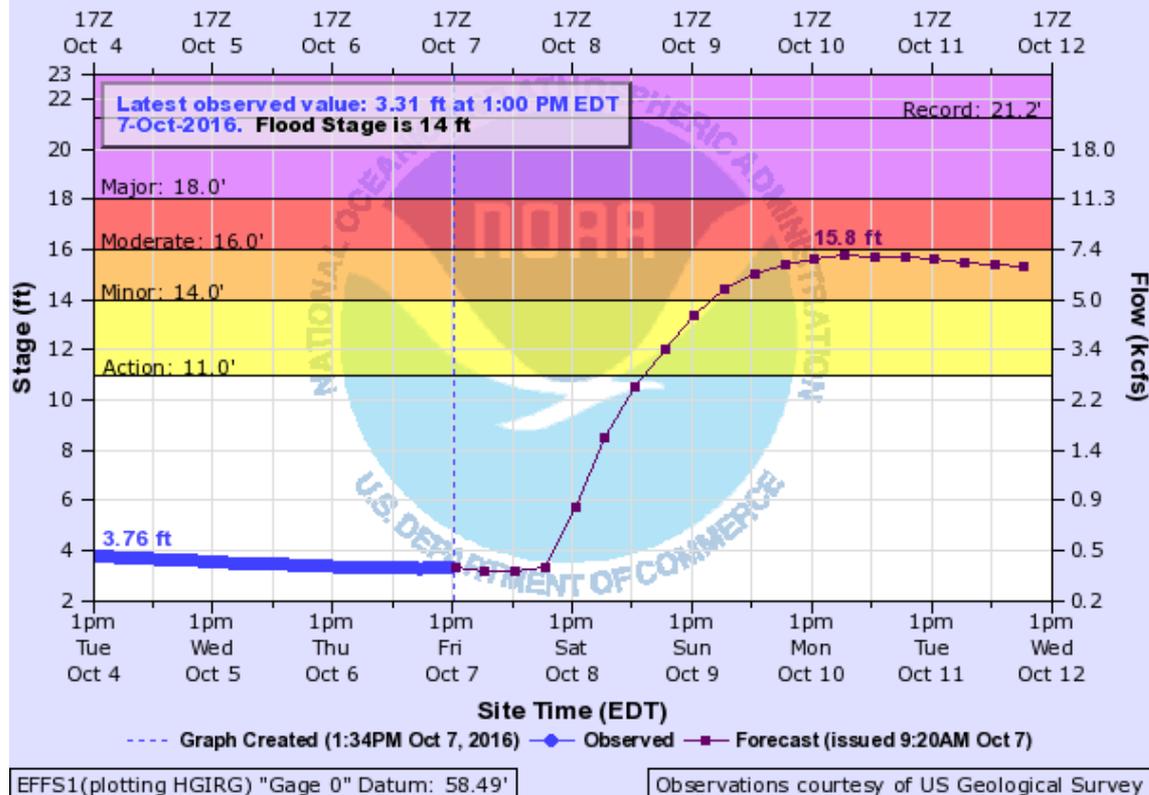
- 19.7 Flood waters will affect residential streets in Kingstree including Singleton, Scriven, McFarlin, and Cedar. Overflow from a canal on East Main Street near the railroad crossing may damage some stores in the area. Highway 52 and 261 closed.
- 18 Flood waters will begin to overflow Highways 52 and 261 causing some closures. Some evacuations may become necessary in the Kingstree area.
- 16 Flood waters will flow into some homes in the Kingstree area. Extensive flooding will occur along the remainder of the river.
- 14 Flood waters will continue to affect immediate areas along the river bed. Rising water levels will also reach Highway 41 at Andrews at 14.5 feet.
- 12 Flood waters will affect low lying areas along the river especially upstream from the Highway 52 bridge.

The river is forecast to reach flood stage Monday and moderate flood stage Tuesday.



## LYNCHES RIVER AT EFFINGHAM

Universal Time (UTC)



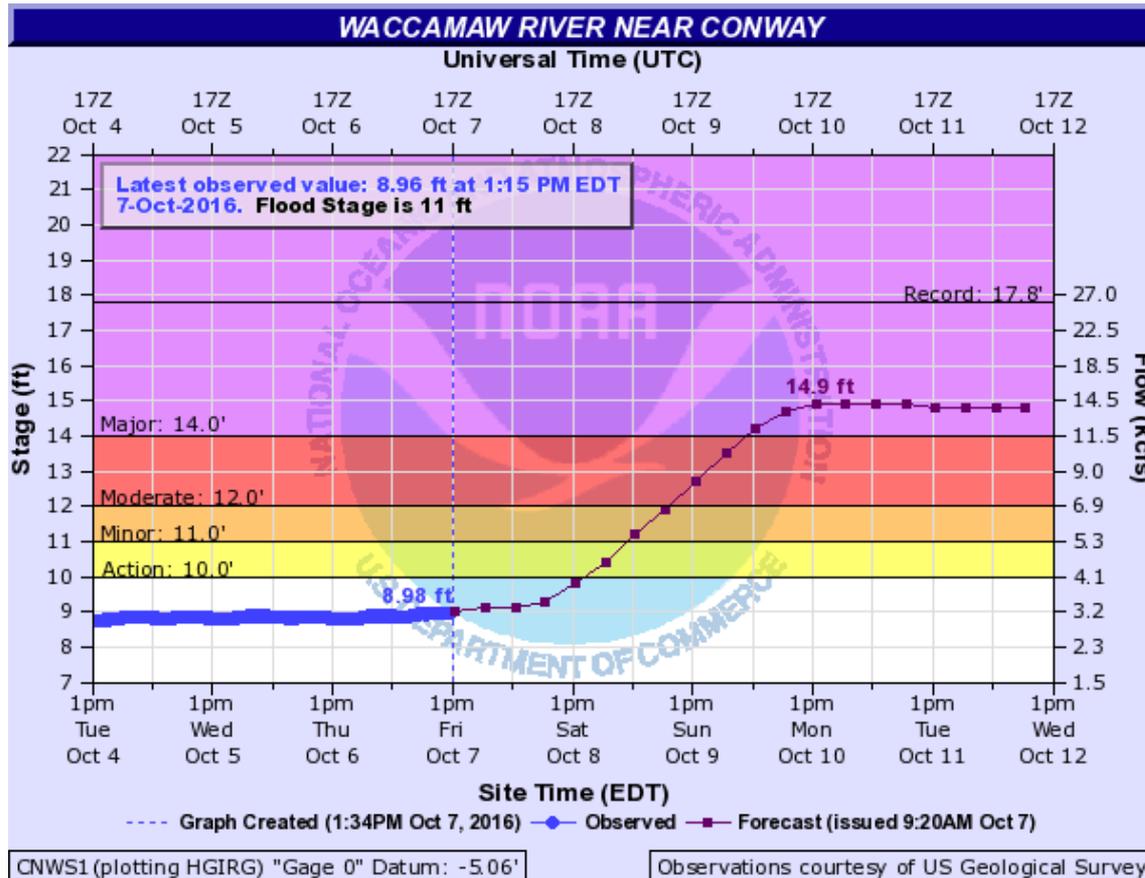
## River Flood Impacts vs Stage

- 21 Near record flooding will occur.
- 18 Extensive flooding will occur.
- 17.5 Extensive flooding will occur along the river. In addition, flood waters will affect some residential areas up stream near the Sumter County line.
- 16.5 Water will enter some homes along Roundtree Road. Several homes will be isolated along North Old Georgetown, Roundtree, and Bengause Roads near Effingham and New Hope.
- 16 Flood waters will affect several homes along the river and isolate those residents without boats.
- 15.5 Flood waters will affect portions of North Old Georgetown, Roundtree and Bengause Roads near Effingham and New Hope. The roads will be impassable in places.
- 15 Flood waters will affect roads near Effingham and New Hope. North Old Georgetown, Roundtree and Bengause Roads will flood in low lying areas near the river.
- 14 Flooding will affect low lying areas along the river.

The river is expected to reach flood stage Sunday.

# River Forecast (ft)

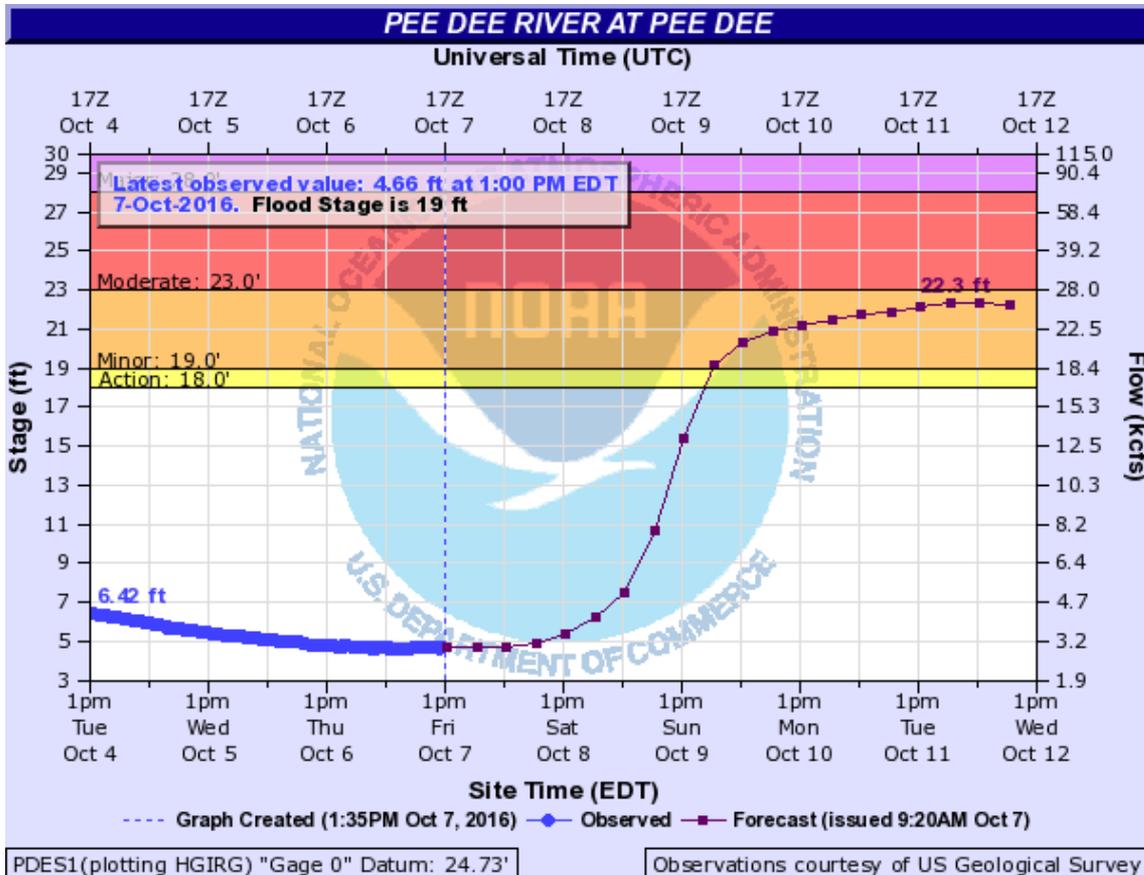
As of 1:00 PM Oct 7th, 2016



## River Flood Impacts vs Stage

- 15 Residential flooding will continue to worsen. The Conway Marina will be flooded. Railroad trestles in downtown Conway will flood at 15.9 feet.
- 14 Flood waters will worsen and affect several residential properties and roads at Riverfront South, Lees Landing, Savannah Bluff, Pitch Landing, Jackson Bluff and Bucksville.
- 13 Flooding will occur in residential areas off Business 501, Highway 905 and Highway 90. Water levels one foot deep will surround approximately 20 homes in the Savannah Bluff area. Flood waters will also surround homes in the Lees Landing, Pitch Landing and Riverfront South communities. Flooding will occur near a few homes on Oak Street as well as at Punch Bowl and Pitch Landing.
- 12 Flooding will worsen in the Lees Landing, Riverfront South, Pitch Landing and Savannah Bluff communities. Flood waters will begin to affect homes north of Conway on Riverside Drive. Swamps will be heavily flooded.
- 11 Water will begin to cause minor flooding of yards and a few roads in the Lees Landing, Pitch Landing, Savannah Bluff, and Riverfront South communities. Overflow of vast uninhabited swamp and natural boat landings will occur.

The river is forecast to reach flood stage early Sunday and major flood stage early Monday.



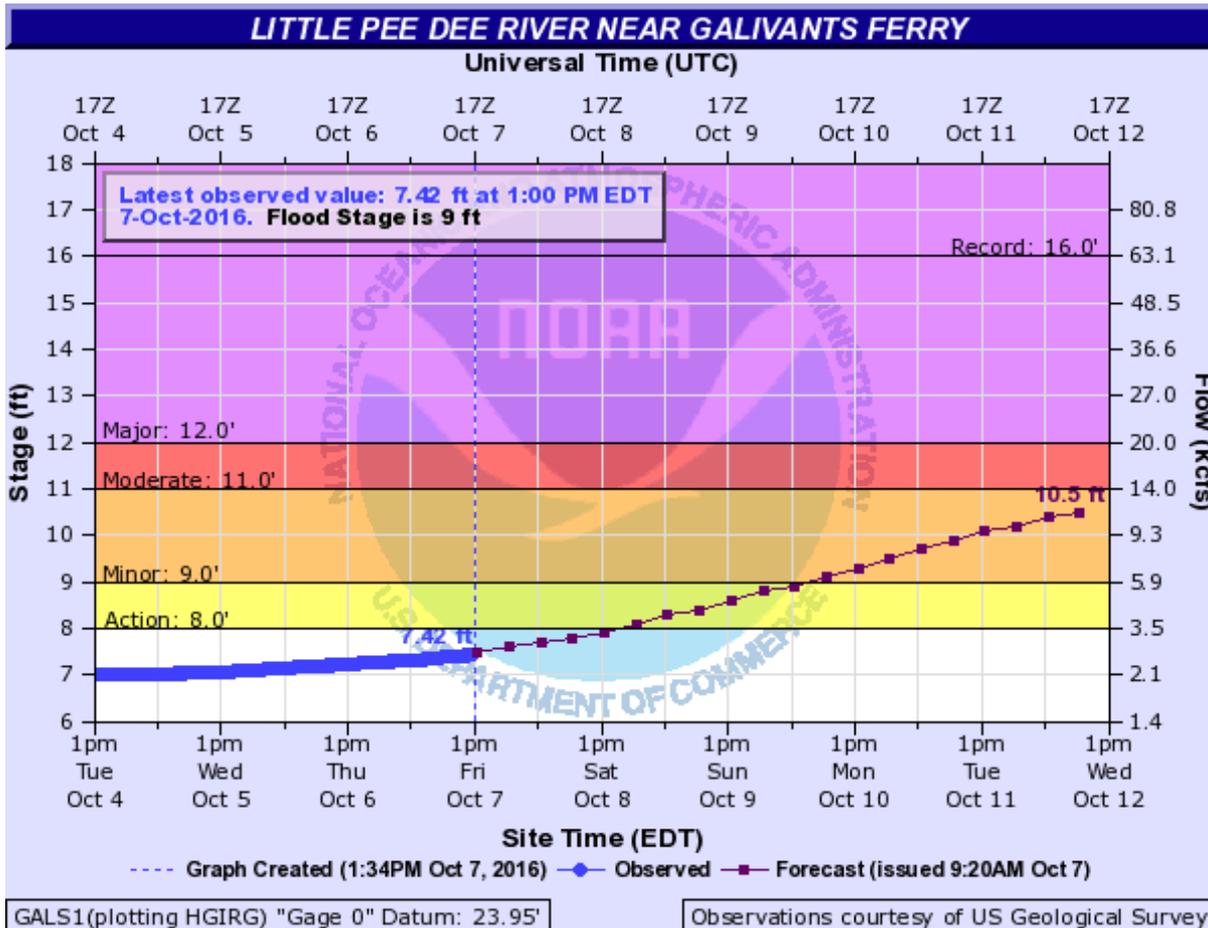
## River Flood Impacts vs Stage

- 28 There will be extensive flooding of timber land and farm land along the river. Access roads may be damaged by the flood waters and operations at industrial plants along the river will be affected.
- 25 Flood waters will continue to affect logging operations upstream and downstream from Pee Dee. Flooding of farmlands adjacent to the river will worsen.
- 23 Flooding will affect swamp and timberlands while also disrupting logging operations. Operations will likely cease and equipment not previously moved will remain trapped. Some farmland will have minor flooding especially around Britton Neck.
- 20 Flood waters will affect swamplands and logging interests. Flood waters will affect timberland as far downstream as Yauhannah two weeks after the crest passes Pee Dee. Logging equipment needs to be moved.
- 19 Flood waters will affect swamplands adjacent to the river.

The river is forecast to reach flood stage Sunday

# River Forecast (ft)

As of 1:00 PM Oct 7th, 2016



## River Flood Impacts vs Stage

- 12 Flood waters will affect 30 to 40 homes in the Fork Retch community near Nichols.
- 11 Flood waters will continue to rise in the Fork Retch community located near Nichols. Flood waters will begin to affect some homes at Fork Retch. Swampland flooding will increase.
- 9 Flood waters will begin to affect residential yards in the Fork Retch community upstream of Galivant's Ferry near the town of Nichols. Swampland flooding becomes noticeable and natural boat landings will be flooded.
- 8 The river is at bank-full. Some minor flooding will occur in low lying areas.

The river is forecast to reach flood stage early Monday.

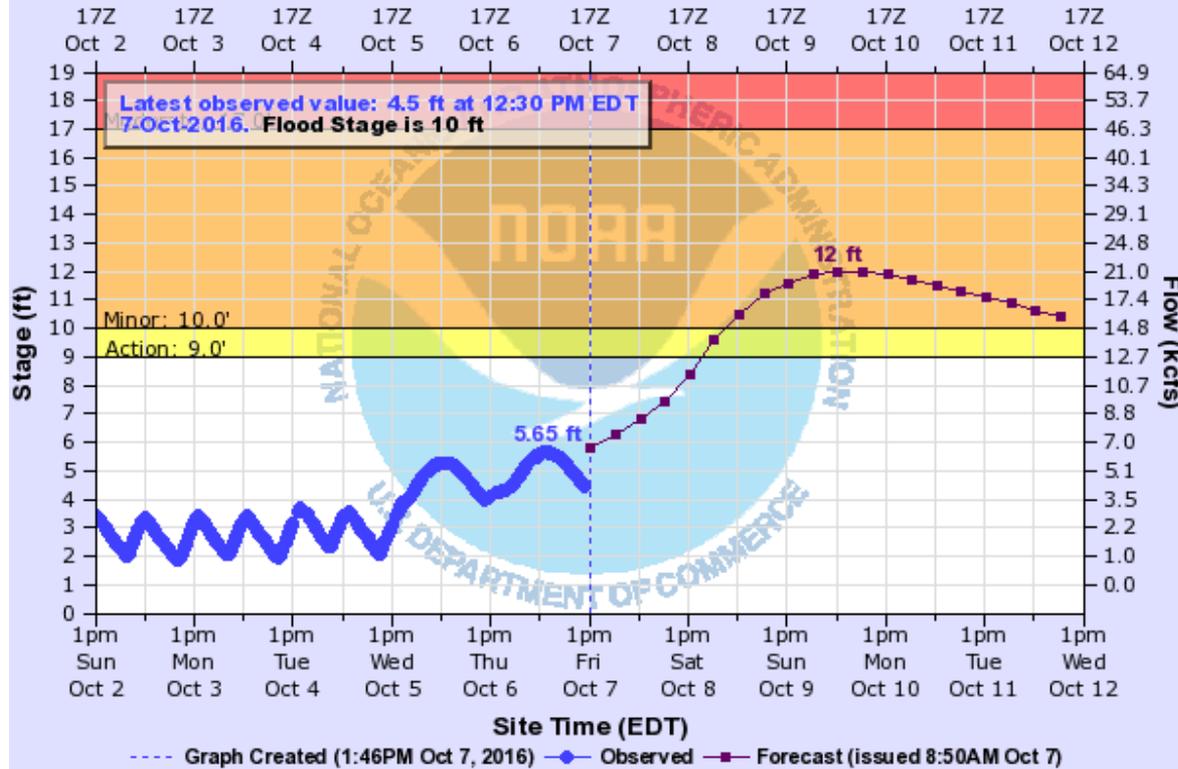
# River Forecast (ft)

As of 1:00 PM Oct 7th, 2016



## SANTEE RIVER NEAR JAMESTOWN

Universal Time (UTC)



## River Flood Impacts vs Stage

- 24 water will start to enter the lower level of the home at the end of Lawton Farm Lane.
- 22 water will surround the residence at the end of Crow Hill Drive and portions of the road will be covered with water due to backwater effects.
- 19 The lower quarter mile of Lawton Farm Lane is impassable.
- 18 The boat landing at the end of Santee Landing Road will be inaccessible. The lower half mile of Corner Loop Road will be impassable due to backwater effects from Pole Branch Creek. Water covers the lower quarter mile of Lawton Farm Lane.
- 17 The lower half mile of Harris Landing Road is flooded and impassable and the residence at the end of the road is flooded. Lenuds Ferry boat landing at Highway 41 is inaccessible and the parking lot is flooded.
- 16 water surrounds the house at the end of Harris Landing Road and the adjacent boat ramp is no longer accessible.
- 12 several dirt logging roads become impassable.
- 10 water covers numerous logging roads and inundates timber land adjacent to the river. Most access points to Wee Tee State Forest are cut off.