

# **HURRICANE FLOYD HIGH WATER MARKS AND INUNDATION MAPPING**

for  
Eastern North Carolina

May 2000

Prepared for:

**Federal Emergency Management Agency  
District IV  
Atlanta, GA**



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## **BACKGROUND**

On the afternoon of September 7<sup>th</sup>, 1999, the broad center of Tropical Depression No. 8 was detected by the National Hurricane Center nearly 1000 miles west of the Lesser Antilles. Within 12 hours the depression gained strength, became a tropical storm, and was named Floyd. As it neared the Virgin Islands on the afternoon of September 10<sup>th</sup>, Floyd became a hurricane. Hurricane Floyd rapidly intensified and by the evening of September 12<sup>th</sup> was classified as a category 4 hurricane. At its peak on the morning of September 13th, Hurricane Floyd's winds were 155 mph and the central pressure was 921 mb. At that time, Floyd was 525 miles east-southeast of Miami and moving west at 14 mph. Hurricane Floyd soon made the expected turn to the north and took aim on eastern North Carolina.

By the early evening of September 14<sup>th</sup> the entire North Carolina coast was under a hurricane watch and at midnight up-graded to a hurricane warning. That same night the first outer rainbands began affecting eastern North Carolina and in turn, reports of flooding began. Hurricane Floyd made landfall on the morning of September 16<sup>th</sup> near North Topsail Beach, NC as a category 2 hurricane. In advance of Floyd, approximately 2.6 million people evacuated their homes in Florida, Georgia, and the Carolinas--the largest peacetime evacuation in US history.

Hurricane Floyd brought flooding rains, high winds and rough seas along the Atlantic seaboard from Florida to Maine. The most devastating effects of Hurricane Floyd were seen in eastern North Carolina. Initially Hurricane Floyd, with wind gusts around 90 mph caused widespread downed trees and power outages. In Brunswick County, power was out to 95% of the county. Brunswick County experienced storm surges of 7 to 9 feet on the east side of the county and 3 to 6 feet on the western part of the county. The maximum storm surge was estimated to be 10.3 feet on Masonboro Island in New Hanover County, NC. In Pender County, a 7 to 9 foot storm surge was recorded, while storm surges of about 4 to 6 feet were experienced along beaches in Onslow, Carteret, and Hyde Counties.

However, it was the heavy rains associated with Hurricane Floyd that caused the devastating flooding in eastern North Carolina. A record 14.84 inches of rainfall fell in a 24-hour period at the Wilmington International Airport, while the storm total was 19.06 inches. Rainfall gauging stations recorded rainfall storm totals of greater than 10 inches in New Hanover, Bladen, Brunswick, Nash, Edgecombe, Pitt, and Halifax Counties. These rainfall amount fell on saturated ground and flowed into rivers already carrying the runoff of Hurricane Dennis who stalled off the North Carolina Outer Banks from August 30<sup>th</sup> to September 3<sup>rd</sup>. The total monthly rainfall for September was greater than 35 inches for many gauging stations in eastern North Carolina. For comparison, the average annual rainfall for eastern North Carolina is approximately 50 inches.

The extreme rainfall of Hurricane Floyd caused catastrophic damage across many counties in eastern North Carolina. Many of these counties reported their worst flooding ever. The Tar River in Greenville and the Neuse River in Kinston were nearly 15 feet above their flood stages. The Tar River remained above flood stage for nearly two weeks while the Neuse River remained above flood stage for over a month. The Northeast Cape Fear River in Chinquapin was 8 to 10 feet above the flood stage of 13 feet. Unofficially, the flooding from Hurricane Floyd has been compared to a 500-year flood event.

## **PURPOSE**

As a result of this storm, The Wilmington District of the Corps of Engineers (USACOE) was tasked by the Federal Emergency Management Agency (FEMA) to locate high water marks along riverine and coastal area impacted by the storm and produce inundation mapping based on these high water marks. The purpose of this report is to present the high water mark data and the inundation maps produced using this data.

## **HIGH WATER MARKS**

High water mark data was collected following the hurricane at various locations along the coastal and riverine areas of eastern North Carolina impacted by the surge and riverine flooding of Hurricane Floyd. The data was collected by personnel from three organizations. Dames & Moore - NC, an engineering and environmental consulting firm under contract to USACE, mobilized 5 crews to the affected areas beginning September 30<sup>th</sup>. The crews delineating and recording 390 high water mark data points over a 2-week period. The Dames & Moore – NC crews recorded high water mark data in the following 34 counties: Beaufort, Bertie, Bladen, Brunswick, Camden, Columbus, Craven, Currituck, Dare, Duplin, Edgecombe, Franklin, Greene, Halifax, Hertford, Hyde, Johnston, Jones, Lenior, Martin, Nash, Onslow, Pamlico, Pasquotank, Pender, Perquimans, Pitt, Robeson, Sampson, Tyrell, Washington, Wayne, and Wilson.

The USACE also collected high water mark data. USACE personnel initially accompanied the Dames & Moore – NC crews into the affected areas to direct and supervise the high water mark data collection effort. USACE personnel also collected high water mark data along the heavily damaged beach communities of Brunswick and New Hanover Counties. USACE personnel collected their high water mark data on September 28<sup>th</sup>, 29<sup>th</sup> and October 7<sup>th</sup>. The USACE collected high water mark data at 85 locations.

The U.S. Geological Survey (USGS) also collected high water mark data along rivers and streams within the Tar and Neuse River Basins. The USGS collected high water mark data in two basins in the following 18 counties: Beaufort, Craven, Edgecombe, Franklin, Granville, Greene, Halifax, Johnston, Jones, Lenior, Nash, Person, Pitt, Vance, Wake, Warren, Wayne, and Wilson. USGS personnel collected high water mark data at 365 locations over a 4-week period beginning September 23<sup>rd</sup> and ending October 22<sup>nd</sup>.

## **Method of Data Collection**

High water data was collected based on visual observations by personnel familiar with the collection of high water mark data. The high water marks were identified in the field and the location along with other pertinent information was described on data forms. A picture of the high water mark was taken at each location. High water marks were identified in the field by studying the evidence of the highest water level reached at the point of concern. Evidence used in determining the high water level include water stains and mud lines on vertical surfaces (walls, trees, utility poles, etc.) and debris lines on sloping ground areas, such as bridge approaches.

The following information was recorded in the field for each high water mark (HWM) on a pre-printed data form:

HWM number,  
agency/crew,  
latitude/longitude,  
HWM type (i.e. water stain, mud line, debris line, etc.),  
nearest town,  
nearest road,  
USGS 7.5-minute quadrangle,  
stream name,  
location, and  
remarks.

The remarks section was utilized to provide a description of the high water marks relative position to a fixed object. Usually, the high water mark was referenced as a distance above the fixed object's elevation. The remark section was also utilized to describe the relative accuracy of the high water mark. High water marks that are accurate to within 0.05 feet were described as "excellent", those accurate to within 0.1 feet were described as "good", those accurate to within 0.25 feet were described as "fair", and those with accuracy greater than 0.25 feet were described as "poor".

In addition to describing the physical location of the high water mark, the geographic location was recorded on the field data sheets in latitude and longitude. The latitude and longitude of the high water marks were determined in the field using commercially available Geographic Positioning System (GPS) equipment. Hand held GPS units were used by all crews to determine the latitude and longitude of the high water marks. The latitude and longitude were recorded on the field data sheets and later verified in the office with the use of topographic maps.

## **Method of Elevation Determination**

Elevation of the high water marks were determined by survey data collected by East Coast Surveyors (East Coast) of Charlotte, NC. East Coast utilized two survey techniques in developing the elevation data necessary to determine the elevation of the high water marks in the National Geodetic Vertical Datum of 1929 (NGVD 29). First, in areas where the relative high density of high water marks warranted it, geographical positioning system (GPS) networks were established. East Coast, using Trimble 4700 dual frequency receivers and a 35-watt radio modem, established a series of calibrated networks using real-time kinematic (RTK) procedures to link existing National Geodetic Survey (NGS), U.S. Geological Survey (USGS) and North Carolina Geological Survey (NCGS) monuments to the high water mark elevations. In areas where vertical bench marks were relatively close to the high water marks, East Coast conducted conventional leveling procedures with two 2-person field crews. The surveying effort of the Hurricane Floyd high water mark study was conducted over a 3-month period from November 1999 to February 2000.

The 795 high water mark data points collected by the various agencies are shown in Table 1 below.

**TABLE 1**  
**Hurricane Floyd High Water Marks**

<b>HWM Number</b>	<b>Outside or Inside</b>	<b>HWM Type</b>	<b>USGS 7.5 minute Quad Sheet</b>	<b>Latitude (Decimal Degree)</b>	<b>Longitude (Decimal Degree)</b>	<b>HWM Elevation (ft, msl)</b>
<b>BEAUFORT COUNTY, NC</b>						
1DM033	Outside	Debris Line	Bath, NC	35.43833	76.79817	NS
1DM034	Outside	Water Line	Bath, NC	35.47150	76.81417	NS
1DM035	Outside	Mud Line	Bath, NC	35.47383	76.78383	NS
1DM036	Outside	Debris Line	Bath, NC	35.48383	76.82000	NS
1DM037	Outside	Debris Line	Bath, NC	35.46233	76.85417	NS
1DM038	Outside	Mud Line	Bath, NC	35.45300	76.85467	NS
1DM039	Outside	Debris Line	Blounts Bay, NC	35.46150	76.88367	NS
1DM040	Outside	Debris Line	Blounts Bay, NC	35.48417	76.90450	NS
1DM041	Outside	Mud Line	Blounts Bay, NC	35.47967	76.93150	NS
1DM042	Outside	Water Line	Blounts Bay, NC	35.49267	76.96050	NS
1DM043	Outside	Mud Line	Blounts Bay, NC	35.49167	76.98550	NS
1DM044	Outside	Debris Line	Washington, NC	35.53567	77.03817	NS
1DM045	Outside	Debris Line	Washington, NC	35.54500	77.02417	NS
1DM046	Outside	Sand Line	Washington, NC	35.54117	77.05683	8.80
1DM047	Outside	Wash Line	Washington, NC	35.56217	77.08583	7.84
1DM048	Outside	Orange Flagged Stake	Washington, NC	35.58533	77.06783	NS
1DM049	Outside	Marked By Owner	South Creek, NC	35.33667	76.69250	6.54
1DM056	Outside	Debris Line	Edward, NC	35.33900	76.96067	NS
1DM057	Outside	Debris Line	Blounts Bay, NC	35.43317	76.97000	NS
1DM058	Outside	Debris Line	Hackney, NC	35.44350	77.06117	22.74
1DM059	Outside	Debris Line	Hackney, NC	35.46133	77.06867	17.15
1DM060	Outside	Debris Line	Washington, NC	35.50183	77.08100	10.83
2DM063	Outside	Water Line	Belhaven, NC	35.57217	76.50383	6.58
2DM064	Outside	Water Line	Belhaven, NC	35.53833	76.62100	NS
2DM065	Outside	Water Line	Bunyan, NC	35.50200	76.96233	NS
2DM066	Outside	Debris Line	Pinetown, NC	35.52317	76.80833	NS

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**Hurricane Floyd High Water Marks**

HWM Number	Outside or Inside	HWM Type	USGS 7.5 minute Quad Sheet	Latitude (Decimal Degree)	Longitude (Decimal Degree)	HWM Elevation (ft, msl)
2DM067	Inside	Water line	Old Ford, NC	35.63433	77.06400	NS
2DM068	Outside	Water Line	Leggetts Cross Roads, NC	35.67567	77.17200	NS
3DM065	Outside	Seed Line	Grimesland, NC	35.53317	77.13417	15.93
BE01A	Outside	Seed Line	Leggetts Cross Roads, NC	35.67669	77.15895	NS
BE02A	Outside	Seed Line	Grimesland, NC	35.61094	77.13294	NS
BE02B	Outside	Mud Line	Grimesland, NC	35.60754	77.13363	NS
BE03A	Outside	Seed Line	Washington, NC	35.57039	77.07859	7.66
BE03B	Inside and Outside	Seed Line/Mud Line	Washington, NC	35.57117	77.08131	8.94
BE04A	Outside	Seed Line/Mud Line	Washington, NC	35.56302	77.08612	8.50
BE05A	Inside	Seed Line	Washington, NC	35.54100	77.06308	NS
BE06A	Outside	Seed Line	Grimesland, NC	35.50881	77.16463	NS
BE06B	Outside	Seed Line	Wilmar, NC	35.49869	77.16925	NS
BE07A	Inside	Seed Line/Mud Line	Washington, NC	35.50151	77.07937	11.08
BE07B	Inside	Seed Line	Washington, NC	35.50151	77.07937	NS
BE09A	Outside	Seed Line	Hackney, NC	35.46798	77.09016	NS
BE10	Outside	Seed Line	Hackney, NC	35.45961	77.06961	17.97
<b>BERTIE COUNTY, NC</b>						
4DM055	Outside	Mud Line	Merry Hill, NC	36.03667	76.76417	NS
4DM057	Outside	Mud Line	Windsor South, NC	35.96050	76.89150	7.30
4DM058	Outside	Mud Line	Woodard, NC	35.91717	76.81983	NS
4DM059	Outside	Mud Line	Windsor South, NC	35.99000	76.93617	13.40
4DM060	Outside	Mud Line	Windsor South, NC	35.94483	76.93033	13.60
4DM061	Outside	Mud Line	Quitsna, NC	35.94400	77.04250	NS
4DM062	Outside	Mud Line	Quitsna, NC	35.98400	77.00333	28.40
4DM063	Outside	Mud Line	Windsor South, NC	35.99767	76.95000	13.90
4DM064	Outside	Mud Line	Windsor North, NC	36.01683	76.95417	16.70
4DM065	Outside	Mud Line	Windsor North, NC	36.02433	76.95083	14.30
4DM066	Outside	Mud Line	Windsor North, NC	36.02733	76.95267	17.00
4DM067	Outside	Mud Line	Windsor North, NC	36.04367	76.98933	20.70

**TABLE 1**  
**Hurricane Floyd High Water Marks**

HWM Number	Outside or Inside	HWM Type	USGS 7.5 minute Quad Sheet	Latitude (Decimal Degree)	Longitude (Decimal Degree)	HWM Elevation (ft, msl)
4DM068	Outside	Debris Line	Powellsville, NC	36.19000	76.98817	NS
4DM069	Outside	Mud Line	Powellsville, NC	36.19600	76.95350	NS
5DM053	Outside	Debris Line	Republican, NC	36.09567	77.06750	NS
5DM054	Outside	Wash Line	Aulander, NC	36.18133	77.10550	NS
5DM055	Outside	Debris Line	Kelford, NC	36.14367	77.16550	NS
<b>BLADEN COUNTY, NC</b>						
5DM013	Outside	Debris Line	Elizabethtown North, NC	34.63183	78.60400	41.90
5DM014	Outside	Debris Line	Kelly, NC	34.40450	78.29500	43.60
<b>BRUNSWICK COUNTY, NC</b>						
2DM001	Outside	Sand Line	Wilmington, NC	34.13667	77.98833	6.20
2DM002	Outside	Mud Line	Wilmington, NC	34.13583	77.98833	9.10
2DM003	Outside	Debris Line	Winnabow, NC	34.15600	78.09133	14.90
2DM004	Outside	Water Line	Winnabow, NC	34.15783	78.09267	15.50
2DM005	Outside	Water Line	Freeland, NC	34.09517	78.54067	NS
2DM012	Outside	Water Line	Pireway, NC	34.01483	78.63117	27.90
BR11F	Outside	Trash Line	Holden Beach, NC	33.91250	78.33767	NS
BR12F	Outside	Trash Line	Holden Beach, NC	33.90783	78.33367	14.40
BR13F	Outside	Trash Line	Holden Beach, NC	33.90817	78.33383	10.30
BR14F	Outside	Trash Line	Holden Beach, NC	33.90783	78.32867	4.50
BR15F	Outside	Trash Line/Sand Line	Holden Beach, NC	33.90917	78.32350	8.70
BR16F	Outside	Trash Line	Holden Beach, NC	33.91367	78.32350	4.60
BR17F	Inside	Water Line/Debris Line	Holden Beach, NC	33.91483	78.25567	NS
BR18F	Inside	Mud Line/Water Line	Holden Beach, NC	33.91467	78.25583	NS
BR19F	Outside	Trash Line	Lockwoods Folly, NC	33.91433	78.24717	NS
BR20F	Inside	Water/Debris Line	Lockwoods Folly, NC	33.91433	78.21067	10.60
BR21F	Inside	Wash Line	Lockwoods Folly, NC	33.91433	78.21067	10.50
BR22F	Inside	Mud/Wash Line	Lockwoods Folly, NC	33.91467	78.18083	11.20
BR24F	Inside	Water Line	Lockwoods Folly, NC	33.91467	78.16967	10.90
BR25F	Outside	Wash/Trash Line	Lockwoods Folly, NC	33.91467	78.16967	10.40

**TABLE 1**  
**Hurricane Floyd High Water Marks**

<b>HWM Number</b>	<b>Outside or Inside</b>	<b>HWM Type</b>	<b>USGS 7.5 minute Quad Sheet</b>	<b>Latitude (Decimal Degree)</b>	<b>Longitude (Decimal Degree)</b>	<b>HWM Elevation (ft, msl)</b>
BR26F	Outside	Water/Mud Line	Lockwoods Folly, NC	33.91450	78.15867	8.80
BR27F	NA	Wash/Mud Line	Lockwoods Folly, NC	33.91167	78.13167	10.10
BR28F	NA	Trash Line	Southport, NC	33.90383	78.07367	9.80
BR30F	NA	Water Line	Southport, NC	33.91050	78.11483	NS
BR31F	NA	Water/Mud Line	Lockwoods Folly, NC	33.91583	78.16150	9.70
<b>CAMDEN COUNTY, NC</b>						
5DM046	Outside	Debris Line	Shiloh, NC	36.34917	76.07333	2.59
5DM047	Inside	Debris Line	Wade Point, NC	36.21217	76.04083	5.59
<b>COLUMBUS COUNTY, NC</b>						
2DM006	Outside	Water Line	Old Dock, NC	34.15467	78.53133	39.20
2DM007	Outside	Mud/Water Line	Old Dock, NC	34.18783	78.55733	41.80
2DM008	Inside	Water Mark	Old Dock, NC	34.19000	78.55717	41.60
2DM009	Outside	Water Line	Old Dock, NC	34.15967	78.57067	39.10
2DM010	Outside	Water Line	Old Dock, NC	34.15917	78.57050	38.90
2DM011	Outside	Water Line	Freeland, NC	34.05183	78.57933	30.70
2DM013	Outside	Water Line	Lake Waccamaw West, NC	34.31400	78.54217	NS
2DM014	Outside	Water Line	Lake Waccamaw West, NC	34.29950	78.55083	NS
2DM015	Outside	Water Line	Lake Waccamaw West, NC	34.27250	78.53500	NS
2DM016	Outside	Water Line	Whiteville, NC	34.32383	78.70883	NS
2DM017	Inside	Water Line	Whiteville, NC	34.32000	78.70550	NS
2DM018	Outside	Water Mark	Whiteville, NC	34.32000	78.70367	NS
2DM019	Outside	Water Line	Evergreen, NC	34.38917	78.97733	80.40
2DM020	Outside	Mud Line	Fair Bluff, NC	34.31400	79.03750	64.10
2DM021	Outside	Water Mark	Fair Bluff, NC	34.31350	79.03817	64.40
<b>CRAVEN COUNTY, NC</b>						
1DM013	Outside	Mud Line	Fort Barnwell, NC	35.30683	77.30950	22.20
1DM014	Outside	Mud Line	Fort Barnwell, NC	35.27033	77.27733	19.80
1DM015	Outside	Mud Line	Jasper, NC	35.23517	77.20367	23.50
1DM016	Outside	Mud Line	Jasper, NC	35.21850	77.14850	13.00

**TABLE 1**  
**Hurricane Floyd High Water Marks**

<b>HWM Number</b>	<b>Outside or Inside</b>	<b>HWM Type</b>	<b>USGS 7.5 minute Quad Sheet</b>	<b>Latitude (Decimal Degree)</b>	<b>Longitude (Decimal Degree)</b>	<b>HWM Elevation (ft, msl)</b>
1DM017	Outside	Mud Line	Askin, NC	35.21517	77.12100	12.50
1DM018	Inside	Water Line	Jasper, NC	35.24467	77.16467	14.60
1DM019	Outside	Water Line	Vanceboro, NC	35.26050	77.20800	17.70
1DM020	Outside	Mud Line	Fort Barnwell, NC	35.33850	77.33550	23.80
1DM055	Outside	Debris Line	Edward, NC	35.27383	76.96983	NS
3DM054	Outside	Worker's Documentation	Cherry Point, NC	34.93733	76.81117	8.01
3DM057	Outside	Seed Line	New Bern, NC	35.10650	77.03533	NS
3DM058	Outside	Wash Line	Havelock, NC	34.97017	76.92950	NS
3DM059		Mud Line	Reelsboro, NC	35.13900	76.97733	NS
3DM060	Outside	Debris Line	Askin, NC	35.14283	77.06583	NS
3DM061	Outside	Seed Line	Askin, NC	35.21517	77.12133	11.70
CR01	Inside	Mud Line	Askin, NC	35.21526	77.12176	NS
<b>CURRITUCK COUNTY, NC</b>						
5DM045	Outside	Debris Line	Coinjock, NC	36.34767	75.94900	3.32
<b>DARE COUNTY, NC</b>						
2DM056	Inside	Water Line	Engelhard Northeast, NC	35.69800	75.77300	5.47
<b>DUPLIN COUNTY, NC</b>						
3DM008	Outside	Seed Line	Wallace East, NC	34.71850	77.98050	33.90
3DM009	Outside	Seed Line	Chinquapin, NC	34.78417	77.83833	33.70
3DM010	Outside	Mud Line	Beulaville, NC	34.90750	77.83767	NS
3DM011	Outside	Mud Line	Wallace West, NC	34.72917	78.04733	NS
3DM012	Outside	Mud Line	Beulaville, NC	34.93700	77.85950	50.40
3DM013	Outside	Wash Line	Beulaville, NC	34.92767	77.79733	56.00
3DM014	Outside	Seed Line	Beulaville, NC	34.98117	77.87300	49.10
3DM015	Outside	Mud Line	Albertson, NC	35.03267	77.84900	64.80
3DM016	Outside	Mud Line	Albertson, NC	35.10050	77.83133	78.20
3DM017	Outside	Debris/Trash Line	Seven Springs, NC	35.12800	77.85650	85.00
4DM008	Outside	Mud Line	Wallace East, NC	34.72350	77.98183	33.60
4DM009	Outside	Mud Line	Chinquapin, NC	34.83333	77.82767	41.40

**TABLE 1**  
**Hurricane Floyd High Water Marks**

<b>HWM Number</b>	<b>Outside or Inside</b>	<b>HWM Type</b>	<b>USGS 7.5 minute Quad Sheet</b>	<b>Latitude (Decimal Degree)</b>	<b>Longitude (Decimal Degree)</b>	<b>HWM Elevation (ft, msl)</b>
4DM010	Outside	Mud Line	Charity, NC	34.78767	77.89467	36.10
4DM011	Outside	Mud Line	Wallace West, NC	34.73000	78.00450	NS
4DM012	Outside	Mud Line	Warsaw North, NC	35.12300	78.09333	105.10
4DM013	Outside	Mud Line	Summerlins Crossroads, NC	35.05333	77.94700	80.60
4DM014	Outside	Mud Line	Albertson, NC	35.05367	77.83583	69.20
<b>EDGECOMBE COUNTY, NC</b>						
1DM024	Outside	Debris Line	Pinetops, NC	35.80183	77.70767	74.30
1DM025	Outside	Mud Line/Debris Line	Pinetops, NC	35.81233	77.70083	71.10
1DM026	Outside	Mud Line/Debris Line	Pinetops, NC	35.82667	77.65817	63.90
1DM027	Outside	Water Line	Pinetops, NC	35.81783	77.63967	61.30
1DM028	Outside	Mud Line	Hartsease, NC	35.94750	77.65650	61.20
1DM029	Outside	Mud Line	Hartsease, NC	35.96533	77.67733	67.50
1DM030	Outside	Water Line	Hartsease, NC	35.97667	77.74300	78.30
1DM031	Outside	Mud Line	Hartsease, NC	35.97367	77.71500	72.80
1DM032	Outside	Mud Line	Hartsease, NC	35.96500	77.68567	67.60
2DM033	Outside	Water Line	Tarboro, NC	35.89717	77.53467	51.80
2DM034	Inside	Water Line	Tarboro, NC	35.89100	77.52650	51.80
2DM035	Outside	Water Mark	Tarboro, NC	35.89100	77.52650	51.80
2DM036	Inside	Water Mark	Tarboro, NC	35.89083	77.52617	51.60
2DM037	Outside	Water Line	Tarboro, NC	35.89317	77.51883	NS
2DM038	Outside	Mud Line	Tarboro, NC	35.89750	77.50617	52.50
2DM039	Inside	Water Line	Speed, NC	35.90567	77.49400	52.20
2DM040	Outside	Water Line	Speed, NC	35.95333	77.45683	58.20
2DM041	Outside	Water Line	Speed, NC	35.96950	77.44667	59.70
2DM042	Inside	Water Line	Speed, NC	35.96867	77.44300	NS
2DM043	Outside	Water Line	Tarboro, NC	35.89367	77.51533	52.40
2DM044	Outside	Water Line	Tarboro, NC	35.89117	77.52217	52.00
2DM045	Outside	Water Line	Tarboro, NC	35.88683	77.51533	51.90
2DM046	Outside	Mud Line	Tarboro, NC	35.88383	77.52117	49.90

**TABLE 1**  
**Hurricane Floyd High Water Marks**

<b>HWM Number</b>	<b>Outside or Inside</b>	<b>HWM Type</b>	<b>USGS 7.5 minute Quad Sheet</b>	<b>Latitude (Decimal Degree)</b>	<b>Longitude (Decimal Degree)</b>	<b>HWM Elevation (ft, msl)</b>
2DM047	Outside	Water Mark	Tarboro, NC	35.87950	77.52683	50.00
2DM048	Outside	Water Mark	Tarboro, NC	35.89417	77.53417	51.90
2DM049	Outside	Water Mark	Tarboro, NC	35.89800	77.54067	51.70
2DM050	Inside	Water Line	Tarboro, NC	35.93617	77.55283	55.10
2DM051	Outside	Mud Line	Tarboro, NC	35.95900	77.56800	57.30
2DM052	Outside	Water Line	Tarboro, NC	35.93333	77.52633	53.70
2DM053	Outside	Water Line	Tarboro, NC	35.93283	77.52500	54.10
2DM054	Outside	Mud Line	Tarboro, NC	35.92000	77.51467	52.70
2DM055	Outside	Water Line	Tarboro, NC	35.90467	77.52533	52.60
3DM070	Outside	Seed Line	Draughn, NC	36.00850	77.52667	58.90
3DM071	Outside	Mud Line	Draughn, NC	36.09900	77.55133	79.01
3DM072	Outside	Mud Line	Whitakers, NC	36.08667	77.64700	91.40
3DM073	Outside	Mud Line	Whitakers, NC	36.05917	77.68267	81.50
3DM074	Outside	Mud Line	Draughn, NC	36.00417	77.61983	62.00
3DM075	Outside	Mud Line	Whitakers, NC	36.00083	77.64250	69.90
3DM076	Outside	Mud Line	Whitakers, NC	36.01383	77.72933	85.30
4DM034	Outside	Mud Line	Falkland, NC	35.72600	77.59800	59.98
4DM035	Outside	Mud Line	Old Sparta, NC	35.78883	77.55433	46.30
4DM036	Outside	Mud Line	Old Sparta, NC	35.79500	77.61567	56.80
4DM037	Outside	Mud Line	Old Sparta, NC	35.85167	77.53000	49.40
4DM038	Outside	Mud Line	Old Sparta, NC	35.82650	77.53700	47.80
4DM039	Outside	Mud Line	Old Sparta, NC	35.80583	77.54000	46.90
4DM040	Outside	Mud Line	Old Sparta, NC	35.76417	77.51767	43.00
4DM044	Outside	Mud Line	Conetoe, NC	35.83900	77.38000	51.40
4DM045	Outside	Mud Line	Conetoe, NC	35.86467	77.44417	52.10
4DM046	Outside	Mud Line	Conetoe, NC	35.81900	77.45717	48.60
4DM047	Outside	Mud Line	Conetoe, NC	35.84833	77.49233	NS
4DM048	Outside	Mud Line	Old Sparta, NC	35.86667	77.50667	49.60
4DM049	Outside	Mud Line	Old Sparta, NC	35.79783	77.59117	54.10

**TABLE 1**  
**Hurricane Floyd High Water Marks**

<b>HWM Number</b>	<b>Outside or Inside</b>	<b>HWM Type</b>	<b>USGS 7.5 minute Quad Sheet</b>	<b>Latitude (Decimal Degree)</b>	<b>Longitude (Decimal Degree)</b>	<b>HWM Elevation (ft, msl)</b>
5DM056	Inside	Debris Line	Rocky Mount, NC	35.95417	77.78900	86.40
5DM065	Outside	Debris Line	Rocky Mount, NC	35.88900	77.75767	NS
ED01	Outside	Mud Line	Tarboro, NC	35.93128	77.52772	53.90
ED02	Inside	Mud Line	Tarboro, NC	35.92492	77.54786	55.20
ED03	Outside	Debris Line	Tarboro, NC	35.92461	77.62135	67.30
ED04	Inside	Seed Line/Mud Line	Tarboro, NC	35.88983	77.55217	51.70
ED05	Inside	Mud Line	Tarboro, NC	35.90917	77.55800	65.30
ED06	Outside	Seed Line/Mud Line	Tarboro, NC	35.89167	77.55000	NS
ED10	Outside	Mud Line	Tarboro, NC	35.90893	77.52193	51.20
ED101	Inside	Seed Line	Rocky Mount, NC	35.95473	77.78723	86.30
ED102	Outside	Mud Line	Rocky Mount, NC	35.95511	77.78630	NS
ED103	Outside	Mud Line	Rocky Mount, NC	35.97831	77.75634	80.00
ED11	Outside	Debris Line	Hartsease, NC	35.99458	77.71949	75.90
ED12	Outside	Mud Line	Hartsease, NC	35.98285	77.71528	72.90
ED13	Outside	Mud Line	Hartsease, NC	35.98565	77.72046	74.80
ED14	Outside	Mud Line	Hartsease, NC	35.96509	77.67699	66.00
ED15	Outside	Seed Line	Hartsease, NC	35.94434	77.65511	63.40
ED16	Outside	Mud Line	Tarboro, NC	35.88051	77.52663	51.40
ED17	Outside	Seed Line	Tarboro, NC	35.88483	77.50217	52.30
ED18	Inside	Mud Line	Speed, NC	35.90317	77.48983	52.40
ED19	Inside	Seed Line/Mud Line	Speed, NC	35.96900	77.43967	60.10
ED20	Outside and Inside	Seed Line/Mud Line	Tarboro, NC	35.95367	77.55000	54.00
ED201	Outside	Debris Line/Wash Line	Draughn, NC	36.09831	77.55137	67.88
ED202a	Outside	Water Level	Tarboro, NC	35.88701	77.53682	51.60
ED202b	Outside	Water Level	Tarboro, NC	35.88663	77.53711	51.20
ED203a/b	Outside and Inside	Seed Line	Old Sparta, NC	35.79536	77.53715	46.00
ED204	Outside	Seed Line	Conetoe, NC	35.80600	77.44322	46.50
ED205	Outside	Seed Line	Pinetops, NC	35.76747	77.64100	66.40
ED207	Inside	Grease Line in Garage	Pinetops, NC	35.82139	77.63589	62.30

**TABLE 1**  
**Hurricane Floyd High Water Marks**

<b>HWM Number</b>	<b>Outside or Inside</b>	<b>HWM Type</b>	<b>USGS 7.5 minute Quad Sheet</b>	<b>Latitude (Decimal Degree)</b>	<b>Longitude (Decimal Degree)</b>	<b>HWM Elevation (ft, msl)</b>
ED21	Outside	Debris Line	Hartsease, NC	35.99928	77.64276	68.40
ED22	Outside	Debris Line/Wash Line	Draughn, NC	36.00575	77.61749	NS
ED23	Outside	Debris Line/Wash Line	Draughn, NC	36.00465	77.61908	67.60
ED24	Outside	Mud Line	Draughn, NC	36.00483	77.52183	58.80
ED25	Inside	Mud Line	Draughn, NC	36.00383	77.54083	56.80
ED26	Outside	Debris Line/Mud Line	Tarboro, NC	35.96900	77.54050	53.90
ED27	Inside	Mud Line	Tarboro, NC	35.95967	77.58467	58.70
ED28a	Outside	Debris Line	Drake, NC	36.03312	77.75067	93.30
ED28b	Outside	Debris Line	Drake, NC	36.03291	77.75054	93.20
ED28c	Outside	Debris Line	Drake, NC	36.03421	77.75015	NS
ED29a	Outside	Debris Line/Mud Line	Whitakers, NC	36.05677	77.68809	81.10
ED29b	Outside	Debris Line/Mud Line	Whitakers, NC	36.05648	77.68826	81.00
ED29c	Outside	Debris Line/Mud Line	Whitakers, NC	36.05784	77.68335	81.40
ED29d	Outside	Debris Line/Mud Line	Whitakers, NC	36.05779	77.68292	79.50
ED29e	Outside	Debris Line/Mud Line	Whitakers, NC	36.05879	77.68043	81.30
ED29f	Outside	Debris Line/Mud Line	Whitakers, NC	36.05898	77.67945	79.50
ED30a	Outside	NA	Whitakers, NC	36.09509	77.67552	NS
ED30b	Outside	NA	Whitakers, NC	36.09492	77.67549	NS
ED30c	Outside	NA	Whitakers, NC	36.09505	77.67533	NS
ED31c	Outside	Debris Line	Draughn, NC	36.04178	77.56747	67.30
ED32	Inside and Outside	Seed Line	Rocky Mount, NC	35.88934	77.75737	90.20
ED33	Inside	Seed Line	Hartsease, NC	35.89999	77.73991	86.40
ED34	Outside	Debris Line	Hartsease, NC	35.88957	77.70211	79.10
ED35/36	Outside	Debris Line/Mud Line	Pinetops, NC	35.86446	77.66036	68.40
ED37	Outside	Debris Line	Pinetops, NC	35.82648	77.70963	71.90
ED38	Outside	Seed Line	Pinetops, NC	35.80058	77.71893	69.40
ED39	Outside	Seed Line	Pinetops, NC	35.82162	77.65889	64.60
ED40	Outside	Mud Line	Pinetops, NC	35.83383	77.65319	64.40
ED41	Outside and Inside	Mud Line/Seed Line	Old Sparta, NC	35.78877	77.55489	46.40

**TABLE 1**  
**Hurricane Floyd High Water Marks**

<b>HWM Number</b>	<b>Outside or Inside</b>	<b>HWM Type</b>	<b>USGS 7.5 minute Quad Sheet</b>	<b>Latitude (Decimal Degree)</b>	<b>Longitude (Decimal Degree)</b>	<b>HWM Elevation (ft, msl)</b>
ED42	Outside and inside	Mud Line/Seed Line	Old Sparta, NC	35.79773	77.61311	55.90
ED7&8	Outside	Mud Line	Tarboro, NC	35.88967	77.53700	51.80
ED9	Outside	Mud Line	Tarboro, NC	35.89622	77.53184	52.00
<b>FRANKLIN COUNTY, NC</b>						
1DM073	Outside	Wash Line	Bunn East, NC	35.94117	78.20467	173.50
1DM074	Outside	Wash Line	Bunn East, NC	35.96617	78.22183	179.80
1DM075	Outside	Mud Line	Justice, NC	36.00417	78.24400	188.00
1DM076	Outside	Debris Line	Louisburg, NC	36.03167	78.25867	192.00
1DM077	Outside	Debris Line	Ingleside, NC	36.14217	78.37233	216.10
FC01	Outside	Mud Line	Ingleside, NC	36.14188	78.37188	NS
FC02	Outside	Mud Line	Ingleside, NC	36.14172	78.37217	NS
FC03	Outside	Mud Line	Louisburg, NC	36.09721	78.30206	202.90
FC04	Outside	Mud Line	Louisburg, NC	36.09783	78.30119	NS
FC05	Outside	Mud Line	Louisburg, NC	36.09466	78.29726	203.00
FC06	Outside	Mud Line		36.09503	78.29781	203.58
FC07	Outside	Mud Line	Justice, NC	36.00327	78.24340	NS
FC08	Outside	Mud Line	Woodville, NC	36.00205	78.24324	188.20
FC09	Outside	Mud Line	Bunn East, NC	35.96670	78.22029	NS
FC10	Outside	Mud Line	Bunn East, NC	35.96633	78.22133	178.00
FC11	Outside	Mud Line	Bunn East, NC	35.96604	78.22158	NS
FC12	Outside	Mud Line	Bunn East, NC	35.96646	78.22145	NS
FC13	Outside	Mud Line	Bunn East, NC	35.93701	78.20761	174.10
FC14	Outside	Mud Line	Bunn East, NC	35.93805	78.20817	173.30
FC15	Outside	Mud Line	Bunn East, NC	35.93686	78.20711	175.00
FC16	Outside	Mud Line	Bunn East, NC	35.93887	78.20982	174.30
FC17	Outside	Mud Line	Bunn East, NC	35.94085	78.19969	174.20
FC18	Outside	Mud Line	Bunn East, NC	35.94123	78.21791	173.70
FC19	Outside	Mud Line	Bunn East, NC	35.94136	78.20467	173.50
FC20	Outside	Mud Line	Bunn East, NC	35.94103	78.20481	170.30

**TABLE 1**  
**Hurricane Floyd High Water Marks**

HWM Number	Outside or Inside	HWM Type	USGS 7.5 minute Quad Sheet	Latitude (Decimal Degree)	Longitude (Decimal Degree)	HWM Elevation (ft, msl)
FC21	Outside	Mud Line	Louisburg, NC	36.03555	78.30068	199.70
FC22	Outside	Mud Line	Louisburg, NC	36.03618	78.30038	NS
FC23	Outside	Mud Line	Louisburg, NC	36.03743	78.30051	NS
FC24	Outside	Mud Line	Louisburg, NC	36.03728	78.30073	NS
FC25	Outside	Mud Line	Louisburg, NC	36.03900	78.30100	196.70
FC26	Outside	Mud Line	Louisburg, NC	36.03873	78.30072	NS
FC27	Outside	Mud Line	Bunn West, NC	35.95891	78.27001	198.00
FC28	Outside	Mud Line	Bunn West, NC	35.95890	78.27103	NS
FC29	Outside	Mud Line	Bunn West, NC	35.96645	78.27138	197.60
FC30	Outside	Mud Line/Seed Line	Justice, NC	36.03459	78.24331	189.60
FC31	Outside		Justice, NC	36.00125	78.24331	188.50
FC32	Outside	Debris Line/Mud Line	Franklin, NC	36.07172	78.41397	NS
FC33	Outside	Debris Line/Mud Line	Franklin, NC	36.07172	78.41397	NS
FC34	Outside	Debris Line/Mud Line	Franklin, NC	36.07172	78.41397	NS
FC35	Outside	Mud Line	Ingleside, NC	36.14444	78.37167	NS
FC36	Outside	Debris Line	Ingleside, NC	36.14444	78.37167	NS
FC37	Outside	Mud Line	Ingleside, NC	36.14444	78.37167	NS
FC38	Outside	Debris Line	Ingleside, NC	36.14444	78.37167	NS
FC39	Outside	Debris Line	Louisburg, NC	36.09710	78.30208	205.60
FC40	Outside	Mud Line	Louisburg, NC	36.09783	78.30119	205.20
<b>GRANVILLE COUNTY, NC</b>						
GR01	Outside	Debris Line	Wilton, NC	36.19494	78.58343	NS
GR02	Outside	Debris Line	Wilton, NC	36.19494	78.58343	NS
GR03	Outside	Debris Line	Wilton, NC	36.19494	78.58343	NS
GR04	Outside	Debris Line	Stem, NC	36.22078	78.62706	NS
GR05	Outside	Debris Line	Stem, NC	36.22047	78.62783	NS
GR06	Outside	Debris Line	Stem, NC	36.22186	78.62636	NS
GR07	Outside	Debris Line	Stem, NC	36.23316	78.65052	NS
GR08	Outside	Debris Line	Stem, NC	36.23235	78.64949	NS

**TABLE 1**  
**Hurricane Floyd High Water Marks**

<b>HWM Number</b>	<b>Outside or Inside</b>	<b>HWM Type</b>	<b>USGS 7.5 minute Quad Sheet</b>	<b>Latitude (Decimal Degree)</b>	<b>Longitude (Decimal Degree)</b>	<b>HWM Elevation (ft, msl)</b>
GR09	Outside	Debris Line	Stem, NC	36.23175	78.65014	NS
GR10	Outside	Debris Line	Berea, NC	36.29477	78.73078	NS
GR11	Outside	Debris Line	Berea, NC	36.29581	78.73112	NS
GR12	Outside	Debris Line	Berea, NC	36.29338	78.70653	NS
GR13	Outside	Debris Line	Berea, NC	36.29353	78.70709	NS
GR14	Outside	Debris Line	Berea, NC	36.27452	78.69243	NS
GR15	Outside	Debris Line	Berea, NC	36.27464	78.69132	NS
GR16	Outside	Debris Line	Berea, NC	36.25028	78.67139	NS
GR17	Outside	Debris Line	Berea, NC	36.25028	78.67139	NS
GR18	Outside	Wash Line	Wilton, NC	36.22306	78.57583	NS
GR19	Outside	Wash Line	Wilton, NC	36.22306	78.57583	NS
GR1A	Outside	Debris Line	Moriah, NC	36.35009	78.78946	NS
GR20	Outside	Debris Line	Wilton, NC	36.19083	78.55833	NS
GR21	Outside	Debris Line	Wilton, NC	36.19083	78.55833	NS
GR22	Outside	Debris Line	Wilton, NC	36.19083	78.55833	NS
GR2A	Outside	Debris Line	Moriah, NC	36.35009	78.78946	NS
GR3A	Outside	Debris Line	Moriah, NC	36.33389	78.76861	NS
GR4A	Outside	Debris Line	Moriah, NC	36.33389	78.76861	NS
GR5A	Outside	Debris Line	Moriah, NC	36.30936	78.75032	NS
GR6A	Outside	Debris Line	Moriah, NC	36.30936	78.75032	NS
<b>GREENE COUNTY, NC</b>						
4DM021	Outside	Mud Line	Stantonsburg, NC	35.50500	77.77400	NS
4DM022	Outside	Mud Line	Walstonburg, NC	35.50483	77.73100	59.20
4DM023	Outside	Mud Line	Snow Hill, NC	35.45817	77.69850	53.20
4DM024	Outside	Wash Line	Snow Hill, NC	35.45550	77.66900	52.00
4DM025	Outside	Mud Line	Hookerton, NC	35.42567	77.59000	44.10
4DM026	Outside	Mud Line	Hookerton, NC	35.40950	77.56033	42.00
4DM027	Outside	Mud Line	Hookerton, NC	35.41083	77.53717	37.00
4DM030	Outside	Mud Line	Ayden, NC	35.45717	77.48600	38.60

**TABLE 1**  
**Hurricane Floyd High Water Marks**

<b>HWM Number</b>	<b>Outside or Inside</b>	<b>HWM Type</b>	<b>USGS 7.5 minute Quad Sheet</b>	<b>Latitude (Decimal Degree)</b>	<b>Longitude (Decimal Degree)</b>	<b>HWM Elevation (ft, msl)</b>
4DM031	Outside	Seed/Mud Line	Farmville, NC	35.52633	77.51767	47.50
GR1	Inside and Outside	Mud Line	Ayden, NC	35.41859	77.49709	37.80
GR2	Inside and Outside	Mud Line/Seed Line	Snow Hill, NC	35.45472	77.66946	51.50
GR3	Inside	Mud Line	Walstonburg, NC	35.50491	77.73068	59.30
GR4	Inside and Outside	Mud Line/Seed Line	Stantonsburg, NC	35.55293	77.77183	63.10
<b>HALIFAX COUNTY, NC</b>						
3DM068	Outside	Mud line	Hobgood, NC	36.02817	77.43300	NS
3DM069	Outside	Mud line	Hobgood, NC	36.05667	77.44067	NS
HA01	Outside	Debris Line	Essex, NC	36.19341	77.96457	NS
HA03	Outside	Debris Line	Essex, NC	36.16966	77.92233	NS
HA04	Outside	Debris Line	Ringwood, NC	36.15008	77.80447	123.90
HA05	Outside	Debris Line/Mud Line	Ringwood, NC	36.14656	77.78479	NS
HA06	Outside	Mud Line	Ringwood, NC	36.14691	77.78428	117.20
HA07	Outside	Debris Line	Enfield, NC	36.15555	77.74002	NS
HA08	Outside	Debris Line	Enfield, NC	36.15550	77.74043	NS
HA09	Outside	Seed Line	Whitakers, NC	36.11365	77.62721	79.80
<b>HERTFORD COUNTY, NC</b>						
4DM070	Outside	Mud Line	Ahoskie, NC	36.25250	76.95033	27.48
4DM071	Outside	Mud Line	Ahoskie, NC	36.26217	76.98183	30.51
4DM072	Outside	Seed Line	Windsor North, NC	36.02917	76.95650	NS
<b>HYDE COUNTY, NC</b>						
2DM057	Outside	Water Line	Engelhard East, NC	35.50833	75.98967	4.54
2DM058	Outside	Water Line	Engelhard West, NC	35.50850	75.99980	5.37
2DM059	Outside	Debris Line	Fairfield, NC	35.53283	76.21183	NS
2DM060	Inside	Water Line	Swan Quarters, NC	35.40600	76.32883	6.58
2DM061	Inside	Water Line	Scranton, NC	35.46350	76.42250	6.85
2DM062	Outside	Water Line	Ponzer, NC	35.55767	76.43983	6.78
<b>JOHNSTON COUNTY, NC</b>						
5DM026	Outside	Wash Line	Kenly West, NC	35.58333	78.15883	143.16

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**Hurricane Floyd High Water Marks**

<b>HWM Number</b>	<b>Outside or Inside</b>	<b>HWM Type</b>	<b>USGS 7.5 minute Quad Sheet</b>	<b>Latitude (Decimal Degree)</b>	<b>Longitude (Decimal Degree)</b>	<b>HWM Elevation (ft, msl)</b>
5DM027	Outside	Mud/Debris Line	Kenly West, NC	35.60933	78.21033	149.23
5DM028	Outside	Debris Line	Selma, NC	35.60850	78.25850	167.31
5DM029	Outside	Debris/Mud Line	Selma, NC	35.60690	78.33917	131.44
5DM030	Outside	Debris Line	Selma, NC	35.51200	78.34950	118.52
5DM031	Outside	Debris Line	Four Oaks Northeast, NC	35.47833	78.33617	NS
5DM032	Outside	Debris Line	Grantham, NC	35.37430	78.19600	NS
5DM033	Outside	Debris Line	Grantham, NC	35.34150	78.21583	NS
5DM036	Outside	Debris Line	Kenly West, NC	35.54533	78.16700	127.29
5DM037	Outside	Debris Line	Powhatan, NC	35.54267	78.39633	132.14
5DM038	Outside	Debris Line	Powhatan, NC	35.50833	78.40183	118.36
5DM039	Outside	Debris Line	Four Oaks, NC	35.46917	78.45683	NS
JC100A	Outside	Mud Line	Clayton, NC	35.67481	78.43655	NS
JC100B	Outside	Mud Line	Clayton, NC	35.67476	78.43658	NS
JC101A	Outside	Mud Line	Selma, NC	35.60690	78.33860	NS
JC101B	Outside	Mud Line	Selma, NC	35.60629	78.33849	NS
JC101C	Outside	Mud Line	Selma, NC	35.60685	78.33508	NS
JC102A	Outside	Mud Line	Selma, NC	35.55667	78.32500	NS
JC102B	Outside	Mud Line	Selma, NC	35.55667	78.32500	NS
JC103A	Outside	Mud Line	Four Oaks Northeast, NC	35.48266	78.36921	NS
JC103B	Outside	Mud Line	Bunn West, NC	35.93204	78.36851	NS
JC104	Inside	Seed Line	Grantham, NC	35.37166	78.19660	NS
<b>JONES COUNTY, NC</b>						
1DM001	Outside	Water Line	Pollocksville, NC	35.00917	77.21983	16.40
1DM002	Outside	Mud Line	Trenton, NC	35.03350	77.26350	21.10
1DM003	Outside	Mud Line	Trenton, NC	35.06000	77.35617	27.70
1DM004	Inside	NA	Trenton, NC	35.06050	77.35383	28.40
1DM005	Outside	Mud Line	Phillips Crossroads, NC	35.10417	77.41267	34.10
1DM006	Outside	Wash Line	Phillips Crossroads, NC	35.07833	77.41967	37.20
1DM007	Outside	Mud Line	Phillips Crossroads, NC	35.05817	77.46450	41.80

**TABLE 1**  
**Hurricane Floyd High Water Marks**

<b>HWM Number</b>	<b>Outside or Inside</b>	<b>HWM Type</b>	<b>USGS 7.5 minute Quad Sheet</b>	<b>Latitude (Decimal Degree)</b>	<b>Longitude (Decimal Degree)</b>	<b>HWM Elevation (ft, msl)</b>
1DM008	Outside	Mud Line	Comfort, NC	35.05383	77.57100	60.20
JO01	Outside	Mud Line	Trenton, NC	35.03212	77.27049	20.70
JO02	Inside	Mud Line	Trenton, NC	35.06469	77.35227	28.30
JO03	Outside	Mud Line	Phillips Crossroads, NC	35.10414	77.41299	34.20
JO04	Outside	Debris Line	Phillips Crossroads, NC	35.07895	77.41815	36.80
JO05	Inside/Outside	Mud Line	Comfort, NC	35.05314	77.57092	60.20
JO06	Outside	Seed Line	Comfort, NC	35.06766	77.59004	65.60
<b>LENOIR COUNTY, NC</b>						
1DM009	Outside	Wash Line	Pink Hill, NC	35.09617	77.63767	NS
1DM010	Outside	Debris Line	Pink Hill, NC	35.11917	77.69100	NS
1DM011	Outside	Debris Line	Pink Hill, NC	35.10783	77.72267	NS
1DM012	Outside	Water Line	Grifton, NC	35.29433	77.48433	29.77
1DM022	Outside	Mud Line	Grifton, NC	35.35017	77.43983	28.41
2DM024	Outside	Water Line	Kinston, NC	35.29633	77.50367	31.57
2DM025	Outside	Mud/Debris Line	Kinston, NC	35.25950	77.58667	36.19
2DM026	Outside	Water Line	Kinston, NC	35.25833	77.60967	39.32
2DM027	Outside	Water Line	Seven Springs, NC	35.22917	77.76483	NS
2DM028	Outside	Water Line	Rivermont, NC	35.24150	77.62083	40.59
2DM029	Outside	Water Line	Rivermont, NC	35.24333	77.58717	38.86
2DM030	Outside	Water Line	Rivermont, NC	35.24067	77.57683	37.43
2DM031	Outside	Water Line	Rivermont, NC	35.24667	77.53067	37.56
2DM032	Outside	Water Mark	Falling Creek, NC	35.27450	77.64533	52.40
3DM027	Outside	Seed Line	Seven Springs, NC	35.23400	77.82683	NS
3DM028	Outside	Debris Line	Seven Springs, NC	35.24917	77.78433	NS
3DM029	Outside	Mud Line	Seven Springs, NC	35.22817	77.76650	NS
3DM030	Outside	Trash Line	La Grange, NC	35.27467	77.79483	NS
LN01	Outside	Debris Line	Pink Hill, NC	35.09687	77.63861	NS
LN02	Inside/Outside	Mud Line	Grifton, NC	35.29267	77.48544	NS
LN04	Inside/Outside	Mud Line	Kinston, NC	35.25933	77.61574	NS

**TABLE 1**  
**Hurricane Floyd High Water Marks**

HWM Number	Outside or Inside	HWM Type	USGS 7.5 minute Quad Sheet	Latitude (Decimal Degree)	Longitude (Decimal Degree)	HWM Elevation (ft, msl)
LN05	Inside	Mud Line	Seven Springs, NC	35.22856	77.76645	NS
<b>MARTIN COUNTY, NC</b>						
2DM069	Outside	Water Mark	Robersonville East, NC	35.76450	77.23133	38.10
2DM070	Outside	Water Line	Robersonville East, NC	35.77617	77.20717	38.20
2DM071	Outside	Water Line	Robersonville East, NC	35.86183	77.24500	54.63
2DM072	Outside	Water Line	Robersonville East, NC	35.83950	77.21133	45.05
2DM073	Outside	Water Line	Oak City, NC	35.91950	77.26983	NS
2DM074	Outside	Water Line	Oak City, NC	35.94817	77.26233	NS
4DM054	Outside	Marker By Citizen	Jamesville, NC	35.81350	76.89333	6.24
<b>NASH COUNTY, NC</b>						
1DM065	Outside	Debris Line	Winstead Crossroads, NC	35.82183	77.99633	NS
1DM066	Outside	Mud Line	Winstead Crossroads, NC	35.84883	77.96633	136.10
1DM067	Outside	Seed Line	Winstead Crossroads, NC	35.84883	77.93417	132.70
1DM068	Outside	Mud Line	Winstead Crossroads, NC	35.85683	77.90950	130.70
1DM069	Outside	Mud Line	Winstead Crossroads, NC	35.86717	77.89500	130.80
1DM070	Outside	Mud Line	Bunn East, NC	35.92767	78.14900	168.10
1DM071	Outside	Wash Line	Bunn East, NC	35.94083	78.14950	170.90
1DM072	Outside	Wash Line	Bunn East, NC	35.93867	78.18183	173.90
3DM077	Outside	Mud/Seed Line	Rocky Mount, NC	35.99950	77.78800	90.30
3DM078	Outside	Seed Line	Rocky Mount, NC	35.99000	77.80900	98.70
4DM073	Outside	Mud Line	Drake, NC	36.07383	77.86983	NS
4DM074	Outside	Debris Line	Red Oak, NC	36.10667	77.99317	170.80
4DM075	Outside	Seed Line	Spring Hope, NC	35.98667	78.01100	NS
4DM076	Outside	USGS Marker	Castalia, NC	36.00233	78.03883	NS
4DM077	Outside	USGS Marker	Castalia, NC	36.03233	78.08267	193.00
4DM078	Outside	Mud Line	Castalia, NC	36.04867	78.09533	200.70
4DM079	Outside	Seed Line	Spring Hope, NC	35.89550	78.04500	200.90
4DM080	Outside	Mud Line	Bailey, NC	35.86383	78.01100	NS
4DM081	Outside	Mud Line	Spring Hope, NC	35.88150	78.08967	158.40

**TABLE 1**  
**Hurricane Floyd High Water Marks**

<b>HWM Number</b>	<b>Outside or Inside</b>	<b>HWM Type</b>	<b>USGS 7.5 minute Quad Sheet</b>	<b>Latitude (Decimal Degree)</b>	<b>Longitude (Decimal Degree)</b>	<b>HWM Elevation (ft, msl)</b>
4DM082	Outside	Mud Line	Spring Hope, NC	35.90667	78.11250	164.10
4DM083	Outside	Mud Line	Bailey, NC	35.80983	78.04883	172.80
5DM041	Outside	Debris Line	Rocky Mount, NC	35.92417	77.83167	108.79
5DM042	Outside	Home Owner	Rocky Mount, NC	35.92517	77.83117	101.85
5DM043	Outside	Debris Line	Rocky Mount, NC	35.95583	77.83367	102.00
5DM057	Outside	Debris Line	Rocky Mount, NC	35.96300	77.82550	96.30
5DM058	Outside	Debris Line	Rocky Mount, NC	35.97450	77.85067	115.40
5DM059	Outside	Debris Line	Nashville, NC	35.98467	77.90183	132.40
5DM060	Outside	Debris Line	Nashville, NC	35.97650	77.97083	152.00
5DM061	Outside	Debris Line	Nashville, NC	35.99733	77.96050	143.20
5DM062	Outside	Debris Line	Nashville, NC	35.93233	77.93433	144.00
5DM063	Outside	Debris Line	Nashville, NC	35.88567	77.91350	128.00
5DM064	Outside	Wash Line	Rocky Mount, NC	35.88633	77.80183	NS
NA10	Outside	Mud Line	Bunn East, NC	35.93778	78.14861	NS
NA11	Outside	Mud Line	Bunn East, NC	35.93825	78.14861	169.80
NA12	Outside	Mud Line	Bunn East, NC	35.95542	78.14370	170.70
NA13	Outside	Mud Line	Bunn East, NC	35.95527	78.14332	171.10
NA14	Outside	Mud Line	Bunn East, NC	35.95524	78.14368	NS
NA15	NA	NA	Quitsna, NC	35.88100	77.08975	159.70
NA16	Outside	Mud Line	Spring Hope, NC	35.88100	78.08919	NS
NA17	Outside	Mud Line	Spring Hope, NC	35.88361	78.09028	NS
NA18	Outside	Wash Line	Bailey, NC	35.86553	78.00883	145.80
NA19	Outside	Wash Line	Bailey, NC	35.86611	78.00889	NS
NA20	Outside	Mud Line	Bailey, NC	35.86522	78.00892	NS
NA200	NA	NA	Albertson, NC	36.06852	77.81428	118.23
NA200A	Outside	Mud Line	Drake, NC	36.06852	77.81428	NS
NA200B	Outside	Mud Line	Drake, NC	36.06902	77.81301	NS
NA200C	Outside	Mud Line	Drake, NC	36.07017	77.81337	NS
NA201	Outside	Debris Line	Centerville, NC	36.19964	78.00532	NS

**TABLE 1**  
**Hurricane Floyd High Water Marks**

<b>HWM Number</b>	<b>Outside or Inside</b>	<b>HWM Type</b>	<b>USGS 7.5 minute Quad Sheet</b>	<b>Latitude (Decimal Degree)</b>	<b>Longitude (Decimal Degree)</b>	<b>HWM Elevation (ft, msl)</b>
NA202	Outside	Debris Line	Centerville, NC	36.19964	78.00532	NS
NA203	Outside	Debris Line	Essex, NC	36.18738	77.98769	NS
NA204	Outside	Debris Line	Essex, NC	36.18773	77.98797	NS
NA205	Outside	Debris Line	Essex, NC	36.19064	77.96464	NS
NA206	Outside	Debris Line	Essex, NC	36.14943	77.89417	NS
NA207	Outside	Debris Line	Ringwood, NC	36.14424	77.84138	NS
NA208	Outside	Debris Line/Mud Line	Ringwood, NC	36.14060	77.78845	NS
NA209	Outside	Debris Line	Whitakers, NC	36.07855	77.74834	NS
NA21	Outside	Mud Line	Winstead Crossroads, NC	35.84889	77.96556	NS
NA22	Outside	Mud Line	Winstead Crossroads, NC	35.84889	77.96556	136.20
NA23	Outside	Mud Line	Winstead Crossroads, NC	35.84600	77.96319	134.90
NA24	Outside	Wash Line	Winstead Crossroads, NC	35.84563	77.96220	NS
NA25a/b	Outside	Mud Line	Nashville, NC	35.97754	77.97566	152.50
NA26	Outside	Mud Line	Nashville, NC	35.97625	77.97053	151.80
NA27a/b	Outside	Mud Line	Nashville, NC	35.98083	77.94889	140.60
NA28	Inside	Mud Line	Nashville, NC	35.93308	77.93431	144.00
NA29	Outside	Mud Line	Nashville, NC	35.90222	77.93528	137.10
NA30	Outside	Mud Line	Nashville, NC	35.90189	77.93450	136.80
NA301	Outside	Mud Line	Bunn East, NC	35.94138	78.14931	NS
NA302	Outside	Mud Line	Bunn East, NC	35.94091	78.15017	NS
NA303	Outside	Mud Line	Bunn East, NC	35.94057	78.15043	170.00
NA304	Outside	Mud Line	Bunn East, NC	35.92538	78.14600	167.90
NA305	Outside	Mud Line	Bunn East, NC	35.92763	78.14891	167.80
NA306	Outside	Mud Line	Bunn East, NC	35.93183	78.14613	NS
NA307	Outside	Mud Line	Bunn East, NC	35.93170	78.14641	NS
NA308	Outside	Mud Line	Spring Hope, NC	35.90414	78.11320	NS
NA309	Outside	Mud Line	Spring Hope, NC	35.90629	78.11262	162.30
NA31	Outside	Debris Line	Nashville, NC	35.88442	77.91256	NS
NA32	Outside	Mud Line	Nashville, NC	35.88461	77.91242	132.90

**TABLE 1**  
**Hurricane Floyd High Water Marks**

<b>HWM Number</b>	<b>Outside or Inside</b>	<b>HWM Type</b>	<b>USGS 7.5 minute Quad Sheet</b>	<b>Latitude (Decimal Degree)</b>	<b>Longitude (Decimal Degree)</b>	<b>HWM Elevation (ft, msl)</b>
NA33	Outside	Mud Line	Nashville, NC	35.88528	77.91306	133.30
NA34a/b/c	Inside/Outside	Mud Line	Rocky Mount, NC	35.96917	77.84861	115.10
NA35a/b/c	Outside	Mud Line	Rocky Mount, NC	35.96156	77.82142	NS
NA36	Outside	Mud Line	Rocky Mount, NC	35.96172	77.82367	NS
NA37	NA	Debris Line	Rocky Mount, NC	35.95969	77.80322	92.30
NA38	Outside	Debris Line	Rocky Mount, NC	35.95944	77.80111	NS
NA41	Inside	Mud line/Seed line	Rocky Mount, NC	35.95507	77.79146	87.20
NA42	Outside	Seed Line	Rocky Mount, NC	35.92307	77.82998	NS
NA43	Outside	Seed Line	Rocky Mount, NC	35.92715	77.83176	NS
NA44	Outside	Mud Line	Rocky Mount, NC	35.96458	77.82783	NS
NA45	Outside	Mud Line	Rocky Mount, NC	35.95168	77.81856	NS
NA46	Outside	Debris Line	Rocky Mount, NC	35.95753	77.80431	98.10
NA47	Outside	Seed Line/Debris Line	Rocky Mount, NC	35.89884	77.86499	NS
NA48	Outside	Mud Line	Rocky Mount, NC	35.89928	77.86469	NS
NA49	Inside	Seed Line/Mud Line	Rocky Mount, NC	35.89911	77.86672	NS
NA50	Inside & Outside	Seed Line/Mud Line	Winstead Crossroads, NC	35.84932	77.93480	132.70
NA51	Outside	Seed Line/Debris Line	Nashville, NC	35.88263	77.89602	130.70
NA53	Inside & Outside	Seed Line	Spring Hope, NC	35.98683	78.01103	NS
NA54	Inside & Outside	Seed Line	Spring Hope, NC	35.98668	78.01074	NS
NA55	Outside	Debris Line	Castalia, NC	36.00312	78.03878	183.30
NA56	Outside	Mud Line	Castalia, NC	36.03158	78.07597	193.30
NA57	Outside	Wash Line	Castalia, NC	36.03211	78.07583	NS
NA58	Outside	Seed Line	Spring Hope, NC	35.92507	78.04703	NS
NA59	Outside	Seed Line	Nashville, NC	35.90213	77.99646	NS
NA60	Outside	Seed Line	Nashville, NC	35.90691	77.99572	162.50
NA61	Outside	Seed Line	Red Oak, NC	36.00326	77.98211	158.20
NA62	Inside & Outside	Seed Line	Red Oak, NC	36.11797	77.93181	NS
NA63	Outside	Mud Line	Drake, NC	36.07335	77.87003	NS
NA64	Outside	Mud Line/Seed Line	Bunn East, NC	35.92548	78.14605	168.00

**TABLE 1**  
**Hurricane Floyd High Water Marks**

<b>HWM Number</b>	<b>Outside or Inside</b>	<b>HWM Type</b>	<b>USGS 7.5 minute Quad Sheet</b>	<b>Latitude (Decimal Degree)</b>	<b>Longitude (Decimal Degree)</b>	<b>HWM Elevation (ft, msl)</b>
NA65	Outside	Seed Line	Nashville, NC	35.98459	77.90171	132.50
<b>NEW HANOVER COUNTY, NC</b>						
2026F	Inside	Water/Debris Line	Carolina Beach, NC	34.05814	77.88227	10.20
NH-120CB	Inside	Water Line/Debris Line	Carolina Beach, NC	34.03568	77.89208	9.10
NH-121CB	Inside	Water Line/Debris Line	Carolina Beach, NC	34.03582	77.89225	9.00
NH-132-WB	Outside	Water Line/Debris Line	Wrightsville Beach, NC	34.19019	77.80971	9.20
NH-15F	Inside	Water Line/Debris Line	Carolina Beach, NC	34.04104	77.89006	9.20
NH-17E	Inside	Mud Line	Carolina Beach, NC	34.05669	77.88241	9.70
NH-2F	Outside	Mud Line	Kure Beach, NC	33.96420	77.92148	10.00
NH-40-KB	Inside	Mud Line	Kure Beach, NC	33.97612	77.91252	14.40
NH-41-KB	Inside	Mud Line	Kure Beach, NC	33.97612	77.91252	14.40
NH-57-WI	Inside	Water Line/Mud Line	Wilmington, NC	34.02466	77.89660	9.00
NH-60-KB	Inside	Mud Line	Kure Beach, NC	33.97387	77.91468	15.00
NH-63-KB	Inside	Mud Line	Carolina Beach, NC	34.04921	77.89214	9.00
NH-64-KB	Outside	Mud Line	Kure Beach, NC	33.97387	77.89214	14.00
NH-65-KB	Outside	Water Line/Debris Line	Carolina Beach, NC	34.05118	77.88457	9.10
NH-66CB	Inside	Water Line/Debris Line	Carolina Beach, NC	34.05198	77.88460	8.20
NH-69-NH	Outside	Water Line/Mud Line	Wilmington, NC	34.21355	77.83187	9.70
NH-70-NH	Inside	Debris Line	Wilmington, NC	34.15621	77.85624	10.30
NH-77-WB	Outside	Mud Line	Wrightsville Beach, NC	34.20778	77.80275	9.00
NH-78-WB	Inside	Sand Line/Water Line	Wrightsville Beach, NC	34.21545	77.79017	9.00
NH-80-WB	Inside	Water Line	Wrightsville Beach, NC	34.20243	77.79988	9.50
NH-81-WB	Inside	Sand Line/Water Line	Wrightsville Beach, NC	34.21618	77.78940	9.10
NH-82-MS		Mud Line	Scotts Hill, NC	34.25837	77.77975	9.10
NH-82-WB		Mud Line	Wrightsville Beach, NC	34.21477	77.79230	9.10
NH-83-WB		Mud Line	Wrightsville Beach, NC	34.21780	77.81368	9.00
NH-85-WB		Water Line	Scotts Hill, NC	34.26537	77.77312	9.00
<b>ONSLOW COUNTY, NC</b>						
4DM015	Inside	Mud Line	Richlands, NC	34.87617	77.55017	30.30

**TABLE 1**  
**Hurricane Floyd High Water Marks**

<b>HWM Number</b>	<b>Outside or Inside</b>	<b>HWM Type</b>	<b>USGS 7.5 minute Quad Sheet</b>	<b>Latitude (Decimal Degree)</b>	<b>Longitude (Decimal Degree)</b>	<b>HWM Elevation (ft, msl)</b>
4DM016	Outside	Mud Line	Richlands, NC	34.89133	77.58467	39.70
4DM017	Outside	Mud/Debris Line	Catherine Lake, NC	34.84900	77.51767	25.50
4DM018	Outside	Mud Line	Catherine Lake, NC	34.84300	77.50283	20.70
<b>PAMLICO COUNTY, NC</b>						
1DM050	Outside	Water Line	Lowland, NC	35.29883	76.56383	NS
1DM051	Outside	Water Line/Mud Line	Jones Bay, NC	35.24533	76.56267	NS
1DM052	Outside	Debris Line	Vandemere, NC	35.18083	76.66500	7.20
1DM053	Outside	Wash Line	Aurora, NC	35.30417	76.77967	NS
1DM054		Seed Line	South Creek, NC	35.36217	76.69783	NS
3DM046	Outside	Wash Line	Vandemere, NC	35.13900	76.74483	NS
3DM047	Outside	Homeowner	Vandemere, NC	35.15567	76.63467	7.60
3DM048	Outside	Homeowner	Oriental, NC	35.08817	76.63517	5.00
3DM049	Outside	Owner	Oriental, NC	35.02417	76.69517	NS
3DM050	Outside	Owner	Oriental, NC	35.02417	76.69500	NS
3DM051	Outside	Owner	Merrimon, NC	34.99533	76.74367	NS
3DM052	Outside	Neighbor Documentation	Merrimon, NC	34.99520	76.74320	NS
3DM056	Outside	Resident Documentation	Upper Broad Creek, NC	35.02367	76.89017	NS
<b>PASQUATANK COUNTY, NC</b>						
5DM044	Outside	Debris Line	Elizabeth City, NC	36.29533	76.21483	6.09
5DM048	Outside	Debris Line	Weeksville, NC	36.20933	76.17383	2.25
<b>PENDER COUNTY, NC</b>						
3DM002	Outside	Mud Line	Mooretown, NC	34.44600	77.82950	12.50
3DM003	Outside	Mud Line	Stag Park, NC	34.50667	77.81500	NS
3DM004	Outside	Seed Line	Stag Park, NC	34.55683	77.81233	NS
3DM005	Inside	Mud Line	Stag Park, NC	34.61083	77.83633	21.50
3DM006	Outside	Homeowner	Burgaw, NC	34.56683	77.91633	NS
3DM007	Inside	Seed Line	Burgaw, NC	34.57483	77.90750	NS
4DM001	Inside	Mud Line	Mooretown, NC	34.44250	77.83617	12.30
4DM002	Outside	Mud Line	Stag Park, NC	34.51100	77.82617	NS

**TABLE 1**  
**Hurricane Floyd High Water Marks**

<b>HWM Number</b>	<b>Outside or Inside</b>	<b>HWM Type</b>	<b>USGS 7.5 minute Quad Sheet</b>	<b>Latitude (Decimal Degree)</b>	<b>Longitude (Decimal Degree)</b>	<b>HWM Elevation (ft, msl)</b>
4DM003	Outside	Mud Line	Stag Park, NC	34.61217	77.80583	21.30
4DM005	Inside	Mud Line	Burgaw, NC	34.59700	77.87533	22.70
4DM006	Outside	Debris Line	Burgaw, NC	34.55417	77.93567	NS
4DM007	Outside	Debris Line	Wallace East, NC	34.64450	77.89250	NS
5DM002	Outside	Wash Line	Currie, NC	34.45383	78.11717	15.90
5DM003	Outside	Wash Line	Currie, NC	34.45400	78.11717	15.40
5DM004	Outside	Trash Line	Point Caswell, NC	34.43183	78.14383	NS
5DM005	Outside	Wash Line	Point Caswell, NC	34.43183	78.14517	NS
5DM006	Outside	Debris Line	Point Caswell, NC	34.47483	78.20067	20.00
5DM007	Outside	Debris Line	Rowan, NC	34.55217	78.25417	NS
<b>PERQUIMANS COUNTY, NC</b>						
4DM056	Outside	Mud Line	Edenton, NC	36.08883	76.50667	56.80
5DM049	Outside	Debris Line	Nixonton, NC	36.24200	76.32533	NS
5DM050	Outside	Debris Line	Hertford, NC	36.19983	76.46317	NS
5DM051	Outside	Debris Line	Hobbsville, NC	36.26767	76.54500	NS
5DM052	Outside	Debris Line	Center Hill, NC	36.20033	76.54217	NS
<b>PERSON COUNTY, NC</b>						
PE01	Outside	Debris Line	Moriah, NC	36.37079	78.84278	NS
PE02	Outside	Debris Line	Moriah, NC	36.37028	78.84278	NS
PE03	Outside	Seed Line	Moriah, NC	36.36033	78.80966	NS
PE04	Outside	Seed Line	Moriah, NC	36.35949	78.80918	NS
<b>PITT COUNTY, NC</b>						
1DM021	Outside	Mud Line	Grifton, NC	35.35800	77.38200	NS
2DM075	Inside	Water Line	Conetoe, NC	35.80017	77.41617	NS
3DM032	Outside	Mud Line	Greenville Northwest, NC	35.70050	77.48117	NS
3DM033	Outside	Mud Line	Greenville Northwest, NC	35.71550	77.48783	NS
3DM034	Outside	Mud Line	Greenville Northwest, NC	35.64717	77.40750	NS
3DM035	Outside	Mud Line	Greenville Northwest, NC	35.65700	77.40450	NS
3DM036	Outside	Mud Line	Greenville Northeast, NC	35.65733	77.26767	NS

**TABLE 1**  
**Hurricane Floyd High Water Marks**

<b>HWM Number</b>	<b>Outside or Inside</b>	<b>HWM Type</b>	<b>USGS 7.5 minute Quad Sheet</b>	<b>Latitude (Decimal Degree)</b>	<b>Longitude (Decimal Degree)</b>	<b>HWM Elevation (ft, msl)</b>
3DM037	Outside	Mud Line	Greenville Northeast, NC	35.62800	77.35470	26.70
3DM038	Outside	Mud Line	Greenville Southeast, NC	35.60517	77.34117	24.20
3DM039	Outside	Mud Line	Greenville Southeast, NC	35.61283	77.35583	26.90
3DM040	Outside	Mud/Wash Line	Greenville Southeast, NC	35.61683	77.37333	NS
3DM041	Outside	Mud/Seed Line	Greenville Southeast, NC	35.62400	77.37333	27.50
3DM042	Outside	Mud Line	Greenville Northwest, NC	35.63367	77.37867	28.30
3DM043	Outside	Mud Line	Greenville Southeast, NC	35.62133	77.26833	NS
3DM044	Outside	Mud Line	Greenville Southeast, NC	35.59550	77.32350	21.60
3DM045	Outside	Mud Line	Greenville Southeast, NC	35.59733	77.31517	23.00
3DM062	Outside	Mud Line	Gardnerville, NC	35.40000	77.33367	NS
3DM063	Outside	Mud Line	Grimesland, NC	35.54650	77.21000	NS
3DM064	Outside	Mud Line	Grimesland, NC	35.57600	77.17433	11.25
3DM066	Outside	Seed Line	Grimesland, NC	35.57917	77.21467	NS
3DM067	Outside	Wash Line	Grimesland, NC	35.61450	77.21250	15.30
4DM028	Outside	Mud Line	Ayden, NC	35.38667	77.44683	33.40
4DM029	Outside	Mud Line	Ayden, NC	35.48067	77.40300	47.90
4DM032	Outside	Mud Line	Falkland, NC	35.66667	77.51967	NS
4DM033	Outside	Mud Line	Falkland, NC	35.72117	77.53017	NS
4DM041	Outside	Debris Line	Conetoe, NC	35.77383	77.46267	NS
4DM042	Outside	Mud Line	Conetoe, NC	35.80183	77.42433	NS
4DM043	Outside	Mud Line	Conetoe, NC	35.76317	77.49467	NS
LN03	Inside/Outside	Seed Line/Mud Line	Ayden, NC	35.38702	77.44677	33.50
PT02A	Outside	Mud Line	Falkland, NC	35.70684	77.56881	NS
PT02B	Outside	Mud Line	Falkland, NC	35.70780	77.56969	NS
PT03A	Outside	Mud Line	Falkland, NC	35.71837	77.53354	NS
PT03B	Outside	Mud Line	Falkland, NC	35.71826	77.53260	NS
PT04A	Outside	Mud Line	Falkland, NC	35.72463	77.53087	NS
PT04B	Outside	Mud Line	Falkland, NC	35.72459	77.53064	NS
PT04C	Outside	Mud Line	Falkland, NC	35.72142	77.52924	NS

**TABLE 1**  
**Hurricane Floyd High Water Marks**

HWM Number	Outside or Inside	HWM Type	USGS 7.5 minute Quad Sheet	Latitude (Decimal Degree)	Longitude (Decimal Degree)	HWM Elevation (ft, msl)
PT05A	Outside	Mud Line	Old Sparta, NC	35.76269	77.51604	NS
PT05B	Outside	Mud Line	Old Sparta, NC	35.76115	77.51504	NS
PT06A	Outside	Mud Line	Conetoe, NC	35.76572	77.49444	NS
PT06B	Outside	Mud Line	Conetoe, NC	35.76661	77.47637	NS
PT07A	Outside	Mud Line	Conetoe, NC	35.76329	77.47836	NS
PT07B	Outside	Mud Line	Conetoe, NC	35.76136	77.47734	NS
PT08A	Outside	Debris Line/Mud Line	Conetoe, NC	35.77446	77.46411	NS
PT08B	Outside	Debris Line/Mud Line	Conetoe, NC	35.77451	77.46365	NS
PT09A	Outside	NA	Greenville NW, NC	35.72007	77.47547	NS
PT09B	Outside	NA	Greenville NW, NC	35.72344	77.47697	NS
PT10A	Outside	NA	Greenville NW, NC	35.71473	77.48528	NS
PT10B	Outside	NA	Greenville NW, NC	35.71355	77.48192	NS
PT11A	Outside	NA	Greenville NW, NC	35.69509	77.49305	NS
PT11B	Outside	NA	Greenville NW, NC	35.70074	77.47964	NS
PT12	Outside	NA	Greenville NW, NC	35.69143	77.49731	NS
PT13A	Outside	Mud Line	Falkland, NC	35.68673	77.50467	NS
PT13B	Outside	Mud Line	Falkland, NC	35.68760	77.50576	NS
PT14A	Outside	NA	Falkland, NC	35.66733	77.52019	NS
PT14B	Outside	NA	Falkland, NC	35.66691	77.51953	NS
PT15A	Outside	NA	Falkland, NC	35.65796	77.55082	NS
PT15B	Outside	NA	Falkland, NC	35.65842	77.55026	NS
PT16	Outside	Debris Line	Greenville NW, NC	35.74745	77.38481	NS
PT17	Outside	Debris Line	Greenville NW, NC	35.72980	77.37480	NS
PT18	Inside	Mud Line	Greenville NW, NC	35.70874	77.36630	NS
PT19	Outside	Seed Line	Greenville NW, NC	35.69732	77.34597	NS
PT20	Outside	Seed Line	Greenville NW, NC	35.68889	77.31987	33.50
PT200	Inside	Seed Line	Leggetts Cross Roads, NC	35.69286	77.20581	NS
PT201	Outside	Seed Line/Mud Line	Grimesland, NC	35.57506	77.17929	NS
PT21	Outside	Seed Line	Leggetts Cross Roads, NC	35.62528	77.22148	19.10

**TABLE 1**  
**Hurricane Floyd High Water Marks**

HWM Number	Outside or Inside	HWM Type	USGS 7.5 minute Quad Sheet	Latitude (Decimal Degree)	Longitude (Decimal Degree)	HWM Elevation (ft, msl)
PT22	Outside	Seed Line	Grimesland, NC	35.59176	77.16429	NS
PT23	Outside	Mud Line	Robersonville East, NC	35.76067	77.23150	NS
PT24	Outside	Seed Line/Mud Line	Leggetts Cross Roads, NC	35.72756	77.17236	NS
PT25	Inside	Seed Line/Mud Line	Leggetts Cross Roads, NC	35.67592	77.17222	NS
PT26	Outside	Seed Line/Mud Line	Grimesland, NC	35.60276	77.14533	NS
PT29	Outside	Debris Line	Grimesland, NC	35.53017	77.17943	NS
PT30	Outside	Seed Line	Grimesland, NC	35.53375	77.18793	NS
PT300	Outside	Debris Line/Mud Line	Greenville NW, NC	35.64419	77.34478	25.10
PT301	Inside	Mud Line	Greenville NW, NC	35.64671	77.40668	NS
PT302	Outside	Seed Line	Greenville NW, NC	35.65301	77.41196	NS
PT31	Outside	Seed Line	Grimesland, NC	35.54548	77.21085	NS
PT32	Outside	Seed Line	Grimesland, NC	35.56023	77.23261	NS
PT33	Outside	seed/mud	Grimesland, NC	35.58173	77.21925	NS
PT35	Outside	Mud Line	Greenville NW, NC	35.64684	77.42284	NS
PT36	Inside	Seed Line/Mud Line	Greenville SW, NC	35.62188	77.40880	29.10
PT36A	Outside	Debris Line	Greenville SW, NC	35.62323	77.41916	NS
PT36B	NA	Debris Line/Mud Line	Greenville SW, NC	35.62323	77.41916	32.80
PT37A	NA	NA	Greenville SW, NC	35.61908	77.38941	28.50
PT37B	NA	NA	Greenville SW, NC	35.61750	77.39694	28.70
PT38	NA	NA	Greenville SE, NC	35.62369	77.37391	27.60
PT39	NA	NA	Greenville SE, NC	35.60266	77.35318	24.90
PT40	Inside	Seed Line/Mud Line	Greenville SE, NC	35.62048	77.32757	33.50
PT42A	Outside	Debris Line	Greenville NW, NC	35.65678	77.40808	NS
PT42B	Outside	Mud Line	Greenville NW, NC	35.65682	77.40788	NS
PT43	Outside	Debris Line/Mud Line	Greenville NE, NC	35.65843	77.36331	27.30
PT44			Greenville NE, NC	35.63457	77.36558	26.90
PT45	Inside	Seed Line/Mud Line	Greenville SE, NC	35.62363	77.29945	NS
PT46	Inside & Outside	Seed Line/Mud Line	Greenville NE, NC	35.62536	77.27964	NS
<b>ROBESON COUNTY, NC</b>						

**TABLE 1**  
**Hurricane Floyd High Water Marks**

<b>HWM Number</b>	<b>Outside or Inside</b>	<b>HWM Type</b>	<b>USGS 7.5 minute Quad Sheet</b>	<b>Latitude (Decimal Degree)</b>	<b>Longitude (Decimal Degree)</b>	<b>HWM Elevation (ft, msl)</b>
2DM022	Outside	Water Mark	Fair Bluff, NC	34.31350	79.03817	64.70
<b>SAMPSON COUNTY, NC</b>						
5DM008	Outside	Resident Measured	Tomahawk, NC	34.64133	78.31067	32.80
5DM009	Outside	Debris Line	Tomahawk, NC	34.64050	78.31100	34.30
5DM010	Outside	Debris Line	Tomahawk, NC	34.71317	78.27233	43.90
5DM011	Outside	Debris Line	Tomahawk, NC	34.69483	78.36800	45.10
5DM012	Outside	Debris Line	Tomahawk, NC	34.69450	78.36800	55.40
5DM015	Outside	Wash Line	Ingold, NC	34.75567	78.28900	51.70
5DM016	Outside	Debris Line	Ingold, NC	34.79267	78.31217	50.70
5DM017	Outside	Debris Line	Ingold, NC	34.78750	78.32250	53.50
5DM018	Outside	Debris Line	Delway, NC	34.85200	78.24483	NS
5DM019	Outside	Debris Line	Turkey, NC	34.92200	78.21450	79.50
5DM020	Outside	Debris Line	Turkey, NC	34.98800	78.23400	94.40
5DM021	Outside	Stain Line	Bonnetsville, NC	34.99450	78.37617	92.80
5DM022	Outside	Debris Line	Bonnetsville, NC	34.91883	78.38917	NS
5DM023	Outside	Debris Line	Bonnetsville, NC	34.92667	78.46650	NS
5DM024	Outside	Debris Line	Roseboro, NC	34.91583	78.55267	NS
5DM025	Outside	Debris Line	Garland, NC	34.83683	78.48450	NS
5DM040	Outside	Debris Line	Autryville, NC	34.99917	78.64633	NS
<b>TYRELL COUNTY, NC</b>						
4DM050	Outside	Debris Line	Columbia West, NC	35.91633	76.25433	3.92
<b>VANCE COUNTY, NC</b>						
VA01	Outside	Mud Line	Kittrell, NC	36.17472	78.49631	NS
VA02	Outside	Debris Line/Mud Line	Kittrell, NC	36.21970	78.48043	NS
VA03	Outside	Debris Line/Mud Line	Kittrell, NC	36.21958	78.48028	NS
VA04	Outside	Debris Line/Mud Line	Kittrell, NC	36.18281	78.45536	NS
VA05	Outside	Debris Line/Mud Line	Kittrell, NC	36.16810	78.45049	NS
VA06	Outside	Debris Line/Mud Line	Kittrell, NC	36.16795	78.44996	NS
VA07	Outside	Debris Line/Mud Line	Kittrell, NC	36.17806	78.42192	NS

**TABLE 1**  
**Hurricane Floyd High Water Marks**

<b>HWM Number</b>	<b>Outside or Inside</b>	<b>HWM Type</b>	<b>USGS 7.5 minute Quad Sheet</b>	<b>Latitude (Decimal Degree)</b>	<b>Longitude (Decimal Degree)</b>	<b>HWM Elevation (ft, msl)</b>
VA08	Outside	Debris Line/Mud Line	Kittrell, NC	36.17803	78.42192	NS
VA09	Outside	Debris Line	Vicksboro, NC	36.29040	78.32100	NS
VA10	Outside	Debris Line	Vicksboro, NC	36.29006	78.32042	NS
VA11	Outside	Debris Line/Mud Line	Vicksboro, NC	36.28997	78.29140	NS
VA12	Outside	Debris Line/Mud Line	Vicksboro, NC	36.28997	78.29140	NS
<b>WAKE COUNTY, NC</b>						
WC100A	Outside	Mud Line	Clayton, NC	35.70176	78.47817	NS
WC100B	Outside	Mud Line	Clayton, NC	35.70184	78.47850	NS
<b>WARREN COUNTY, NC</b>						
WR01	Outside	Mud Line	Afton, NC	36.28799	78.18543	NS
WR02	Outside	Debris Line	Centerville, NC	36.21042	78.10271	NS
WR03	Outside	Debris Line	Warrenton, NC	36.40000	78.23585	NS
WR04	Outside	Debris Line	Warrenton, NC	36.40069	78.23577	NS
WR05	Outside	Mud Line	Warrenton, NC	36.39371	78.19869	NS
WR06	Outside	Mud Line	Warrenton, NC	36.39358	78.19847	NS
WR07	Outside	Debris Line/Mud Line	Warrenton, NC	36.38368	78.18159	NS
WR08	Outside	Debris Line/Mud Line	Warrenton, NC	36.38331	78.18206	NS
WR09	Outside	Debris Line/Mud Line	Warrenton, NC	36.37524	78.16851	NS
WR10	Outside	Debris Line/Mud Line	Warrenton, NC	36.37526	78.16864	NS
WR11	Outside	Mud Line	Afton, NC	36.35783	78.14511	NS
WR12	Outside	Mud Line	Afton, NC	36.33943	78.12902	NS
WR13	Outside	Debris Line/Mud Line	Macon, NC	36.40286	78.02926	NS
WR14	Outside	Debris Line	Hollister, NC	36.36583	77.94250	NS
WR15	Outside	Debris Line	Hollister, NC	36.37077	77.98379	NS
WR16	Outside	Mud Line	Inez, NC	36.30507	78.05721	NS
WR17	Outside	Mud Line	Inez, NC	36.30519	78.05739	NS
WR18	Outside	Debris Line/Mud Line	Centerville, NC	36.24084	78.02478	NS
<b>WASHINGTON COUNTY, NC</b>						
4DM051	Outside	Mud line	Creswell, NC	35.85133	76.42117	3.66

**TABLE 1**  
**Hurricane Floyd High Water Marks**

HWM Number	Outside or Inside	HWM Type	USGS 7.5 minute Quad Sheet	Latitude (Decimal Degree)	Longitude (Decimal Degree)	HWM Elevation (ft, msl)
4DM052	Outside	Mud line	Westover, NC	35.88533	76.62517	5.08
4DM053	Outside	Mud line	Plymouth East, NC	35.86917	76.74900	3.73
<b>WAYNE COUNTY, NC</b>						
3DM018	Outside	Debris Line	Northwest Goldsboro, NC	35.39283	78.02733	NS
3DM019	Outside	Mud Line	Northwest Goldsboro, NC	35.38583	78.09317	NS
3DM020	Outside	Mud Line	Southwest Goldsboro, NC	35.36100	78.07683	NS
3DM021	Outside	Mud Line	Southwest Goldsboro, NC	35.35017	78.03033	73.90
3DM022	Outside	Seed Line	Southeast Goldsboro, NC	35.33667	77.99833	72.20
3DM023	Outside	Mud Line	Southeast Goldsboro, NC	35.31400	77.94533	NS
3DM024	Outside	Mud Line	Southeast Goldsboro, NC	35.27417	77.91033	62.80
3DM025	Outside	Wash Line	La Grange, NC	35.28200	77.87017	NS
3DM026	Outside	Mud Line	Seven Springs, NC	35.22833	77.84600	55.40
3DM031	Outside	Seed Line	Southeast Goldsboro, NC	35.34817	77.97950	75.40
5DM034	Outside	Resident's Mark	Grantham, NC	35.34950	78.14500	NS
5DM035	Outside	Resident's Mark	Grantham, NC	35.34950	78.14500	NS
WY100	Outside	Mud Line	Seven Springs, NC	35.22763	77.84508	56.00
WY101	Outside	Mud Line	SE Goldsboro, NC	35.26436	77.91075	63.70
WY102	Outside	Mud Line	SE Goldsboro, NC	35.33862	77.99259	76.50
WY103	Outside	Seed Line/Mud Line	SW Goldsboro, NC	35.36163	78.07562	NS
<b>WILSON COUNTY, NC</b>						
1DM023	Outside	Water Mark	Elm City, NC	35.78867	77.78117	NS
1DM061	Outside	Mud Line	Winstead Crossroads, NC	35.75233	77.91283	106.60
1DM062	Outside	Debris Line	Winstead Crossroads, NC	35.78833	77.92000	NS
1DM063	Outside	Debris Line	Winstead Crossroads, NC	35.80200	77.94917	NS
1DM064	Outside	Mud Line	Winstead Crossroads, NC	35.80133	77.94800	NS
2DM076	Outside	Water Line	Saratoga, NC	35.68867	77.80850	84.00
2DM077	Outside	Mud Line	Saratoga, NC	35.65717	77.82217	NS
2DM078	Outside	Water Line	Wilson, NC	35.73517	77.89117	99.01
2DM079	Outside	Water Line	Wilson, NC	35.73033	77.89067	98.27

**TABLE 1**  
**Hurricane Floyd High Water Marks**

HWM Number	Outside or Inside	HWM Type	USGS 7.5 minute Quad Sheet	Latitude (Decimal Degree)	Longitude (Decimal Degree)	HWM Elevation (ft, msl)
2DM080	Outside	Water Line	Wilson, NC	35.73583	77.89717	NS
2DM081	Outside	Water Line	Wilson, NC	35.74467	77.90367	105.80
2DM082	Outside	Water Line	Wilson, NC	35.74417	77.90683	105.70
2DM083	Outside	Mud Line	Wilson, NC	35.69350	77.90417	92.12
2DM084	Outside	Water Line	Wilson, NC	35.66970	77.90917	85.42
2DM085	Outside	Mud Line	Wilson, NC	35.64183	77.89317	73.46
2DM086	Outside	Mud Line	Wilson, NC	35.66167	77.97500	112.30
2DM087	Outside	Debris Line	Wilson, NC	35.68600	77.94517	98.50
2DM088	Outside	Water Line	Wilson, NC	35.70217	77.94917	102.45
2DM089	Outside	Mud Line	Wilson, NC	35.70583	77.99267	105.50
2DM090	Outside	Mud Line	Lucama, NC	35.69233	78.02950	NS
2DM091	Outside	Water Line	Lucama, NC	35.69767	78.06117	127.90
4DM019	Outside	Mud Line	Stantonsburg, NC	35.60283	77.83083	NS
4DM020	Outside	Mud Line	Fremont, NC	35.60900	77.95150	84.62
4DM084	Outside	Mud Line	Bailey, NC	35.77717	78.01900	NS
WI100A	Outside	Seed Line/Mud Line	Old Ford, NC	35.69788	77.06049	128.71
WI100B	Outside	Seed Line/Mud Line	Old Ford, NC	35.69856	77.06223	127.31
WI101	Outside	Debris Line	Wilson, NC	35.71171	77.99568	108.91
WI103	Outside	Seed Line/Mud Line	Wilson, NC	35.68728	77.94839	101.70
WI104A	Outside	Debris Line/Mud Line	Wilson, NC	35.64325	77.89083	79.09
WI104B	Outside	Debris Line/Mud Line	Wilson, NC	35.64284	77.89055	79.16
WI105	Outside	Seed Line/Mud Line	Stantonsburg, NC	35.57852	77.81075	64.97

## **HIGH WATER MARK AND INUNDATION MAPPING**

Storm inundation mapping was accomplished using the ArcView Ver. 3.2 Geographic Information System (GIS) software (Environmental Systems Research Institute, Inc.) and constructed GIS datasets. Scanned and digitally rectified USGS 7.5-minute quadrangles (scale: 1:24000) were utilized as basemaps for inundation mapping. The basemaps were obtained from a commercial electronic mapping vendor in digital raster graphics (DRG) format.

The inundation line for the storm was developed utilizing original USGS 7.5-minute quadrangle sheets. First, the high water marks were located on the quadrangle sheet and their surveyed elevation was denoted. From the high water mark elevations, the limit of inundation was delineated by comparing the high water mark elevation and the contour lines in the area of the high water mark. Interpolation and extrapolation were used as necessary to make continuous inundation lines. In areas where the inundation line is not adjacent to known high water mark elevation data, the inundation line is shown as an approximation.

The 191 USGS Quadrangle maps use to display the high water mark and inundation mapping are included in Table 2 below.

**TABLE 2**  
**USGS Quadrangle Sheets Utilized**

Afton, NC	Enfield, NC	Kittrell, NC	Scotts Hill, NC
Ahoskie, NC	Engelhard East, NC	Kure Beach, NC	Scranton, NC
Albertson, NC	Engelhard Northeast, NC	La Grange, NC	Selma, NC
Askin, NC	Ernul, NC	Lake Waccamaw West, NC	Seven Springs, NC
Aulander, NC	Essex, NC	Leggetts Crossroads, NC	Shiloh, NC
Aurora, NC	Evergreen, NC	Lockwoods Folly, NC	Snow Hill, NC
Autryville, NC	Fair Bluff, NC	Louisburg, NC	South Creek, NC
Ayden, NC	Fairfield, NC	Lowland, NC	Southeast Goldsboro, NC
Bailey, NC	Fairmont, NC	Lucama, NC	Southport, NC
Bath, NC	Falkland, NC	Macon, NC	Southwest Goldsboro, NC
Belhaven, NC	Falling Creek, NC	Merrimon, NC	Speed, NC
Berea, NC	Farmville, NC	Merry Hill, NC	Spring Hope, NC
Beulaville, NC	Fort Barnwell, NC	Mooretown, NC	Stag Park, NC
Blounts Bay, NC	Four Oaks Northeast, NC	Moriah, NC	Stantonsburg, NC
Bonnetsville, NC	Four Oaks, NC	Mount Olive, NC	Stem, NC
Bunn East, NC	Franklinton, NC	Nashville, NC	Summerlins Crossroads, NC
Bunn West, NC	Freeland, NC	New Bern, NC	Swan Quarters, NC
Bunyan, NC	Fremont, NC	Nixonton, NC	Tarboro, NC
Burgaw, NC	Gardnerville, NC	Northwest Goldsboro, NC	Tomahawk, NC
Carolina Beach, NC	Garland, NC	Oak City, NC	Trenton, NC
Castalia, NC	Grantham, NC	Old Dock, NC	Turkey, NC
Catherine Lake, NC	Greenville Northeast, NC	Old Ford, NC	Upper Broad Creek, NC
Center Hill, NC	Greenville Northwest, NC	Old Sparta, NC	Vanceboro, NC
Centerville, NC	Greenville Southeast, NC	Oriental, NC	Vandemere, NC
Cerro Gordo, NC	Greenville Southwest, NC	Phillips Crossroads, NC	Vicksboro, NC
Charity, NC	Grifton, NC	Pin Hook, NC	Wade Point, NC
Cherry Point, NC	Grimesland, NC	Pinetops, NC	Wallace East, NC
Chinquapin, NC	Hackney, NC	Pinetown, NC	Wallace West, NC
Clayton, NC	Hartsease, NC	Pink Hill, NC	Walstonburg, NC
Clinton South, NC	Havelock, NC	Pireway, NC	Warrenton, NC
Coinjock, NC	Hertford, NC	Plymouth East, NC	Warsaw North, NC
Columbia East, NC	Hobbsville, NC	Point Caswell, NC	Washington, NC
Columbia West, NC	Hobgood, NC	Pollocksville, NC	Weeksville, NC
Comfort, NC	Holden Beach, NC	Ponzer, NC	Westover, NC
Conetoe, NC	Hollister, NC	Powellsboro, NC	Whitakers, NC
Cove City, NC	Hookerton, NC	Powhatan, NC	Whiteville, NC
Creswell, NC	Inez, NC	Quitsna, NC	Williams, NC
Currie, NC	Ingleside, NC	Red Oak, NC	Wilmar, NC
Dawson Crossroads, NC	Ingold, NC	Reelsboro, NC	Wilmington, NC
Deep Run, NC	Jamesville, NC	Republican, NC	Wilson, NC
Delway, NC	Jasper, NC	Richlands, NC	Wilton, NC
Drake, NC	Jones Bay, NC	Ringwood, NC	Windsor North, NC
Draughn, NC	Justice, NC	Rivermont, NC	Windsor South, NC
Edenton, NC	Kelford, NC	Robersonville East, NC	Winnabow, NC
Edward, NC	Kelly, NC	Rocky Mount, NC	Winstead Crossroads, NC
Elizabeth City, NC	Kenansville, NC	Roseboro, NC	Woodard, NC
Elizabethtown North, NC	Kenly West, NC	Rowan, NC	Wrightsville Beach, NC
Elm City, NC	Kinston, NC	Saratoga, NC	

## STORM SURGE

### Tide Gages

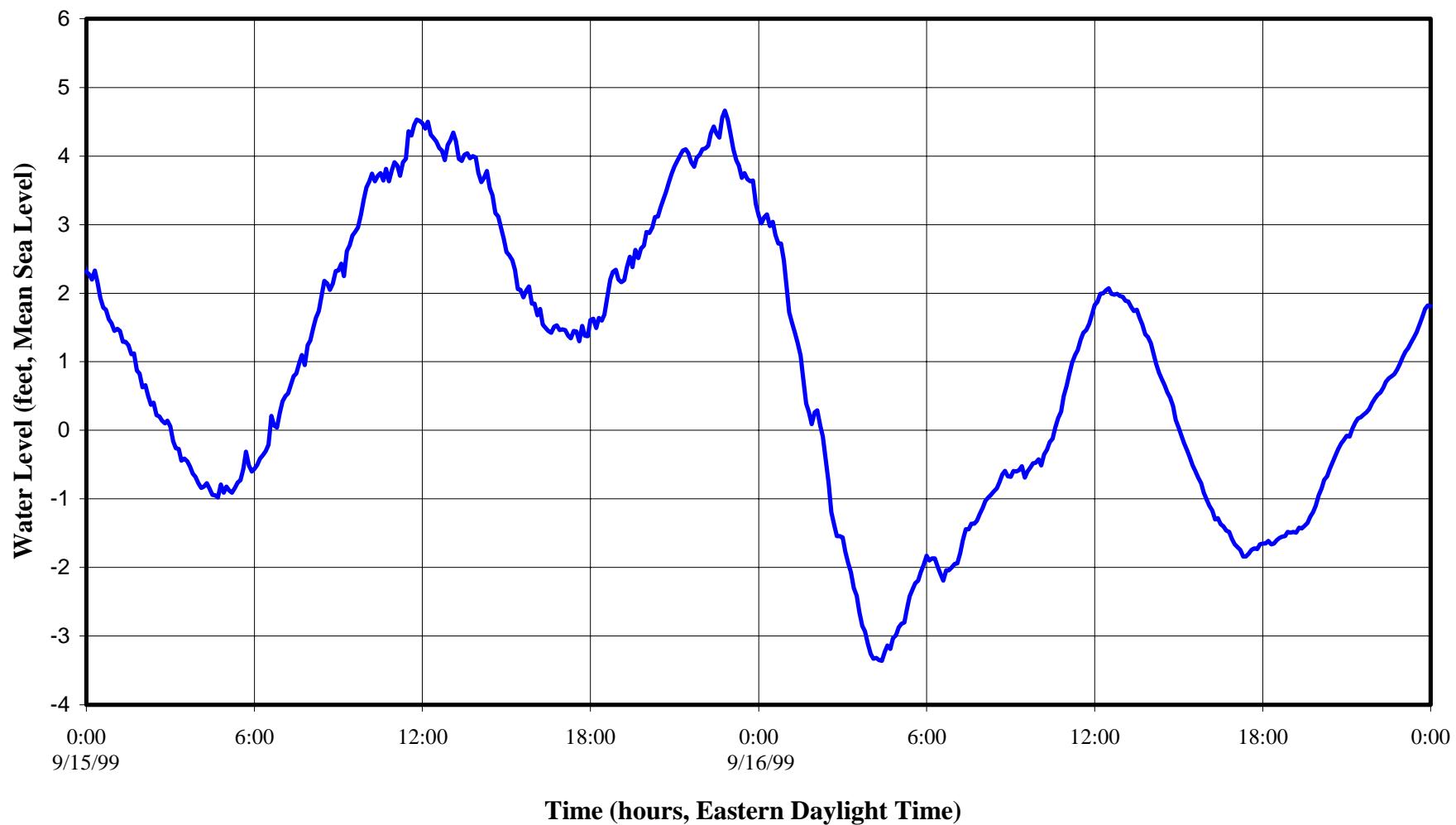
Tide levels along the North Carolina and South Carolina Coast for the time period during the storm were available at five locations. Location information on the five gages is listed in Table 2 below, the gages are arranged from south to north.

**TABLE 3**  
**Tide Gage Data**

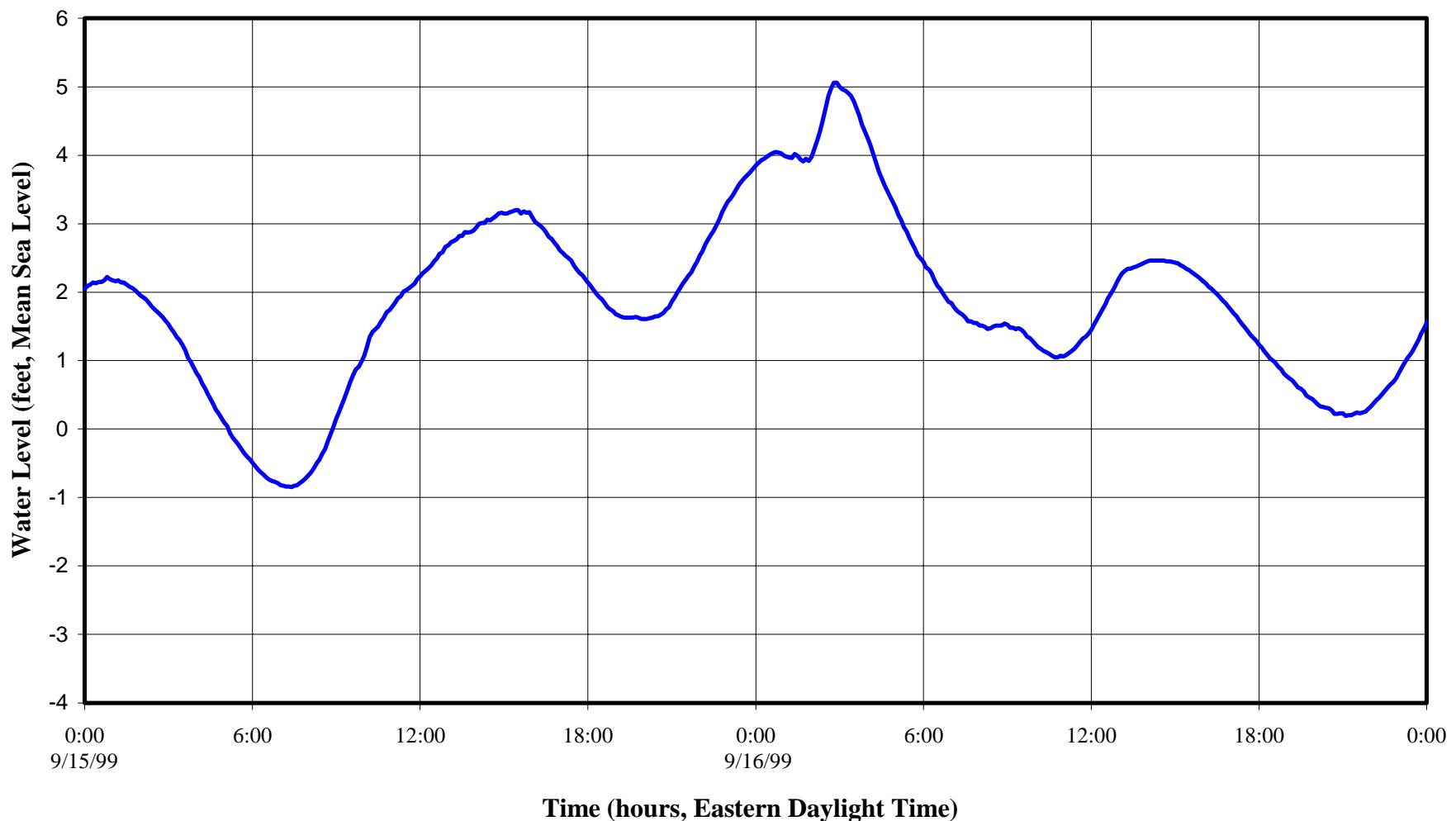
Gage Name	Gage Locality	Position		Mean Tide Level (ft, msl)	Peak During Floyd (ft, msl)
		Lat.	Long.		
Myrtle Beach, Springmaid Pier	Surfside Beach, SC south of Myrtle Beach, SC	33°39.3'	78°51.1'	2.73	4.66
Wilmington, NC	Cape Fear River at Wilmington, NC	34°13.6'	77°57.2'	2.20	5.06
Atlantic Beach Triple S Pier	Triple S Fishing Pier at Atlantic Beach, NC	34°41.6'	76°42.7'		4.94
Beaufort, Duke Marine Lab	Duke Marine Lab, Beaufort, NC	34°43.2'	76°40.2'	1.60	5.02
Cape Hatteras Fishing Pier	Fishing Pier at Cape Hatteras, NC	35°13.4'	75°38.1'		3.04
Oregon Inlet Marina	Marina at Oregon Inlet, NC	35°47.8'	75°33.0'		5.4
Duck, FRF Pier	Fishing Pier at Duck, NC	36°11.0'	75°44.8'		3.17

The tide range for the period at each gage is shown graphically in Figures 1 through 7.

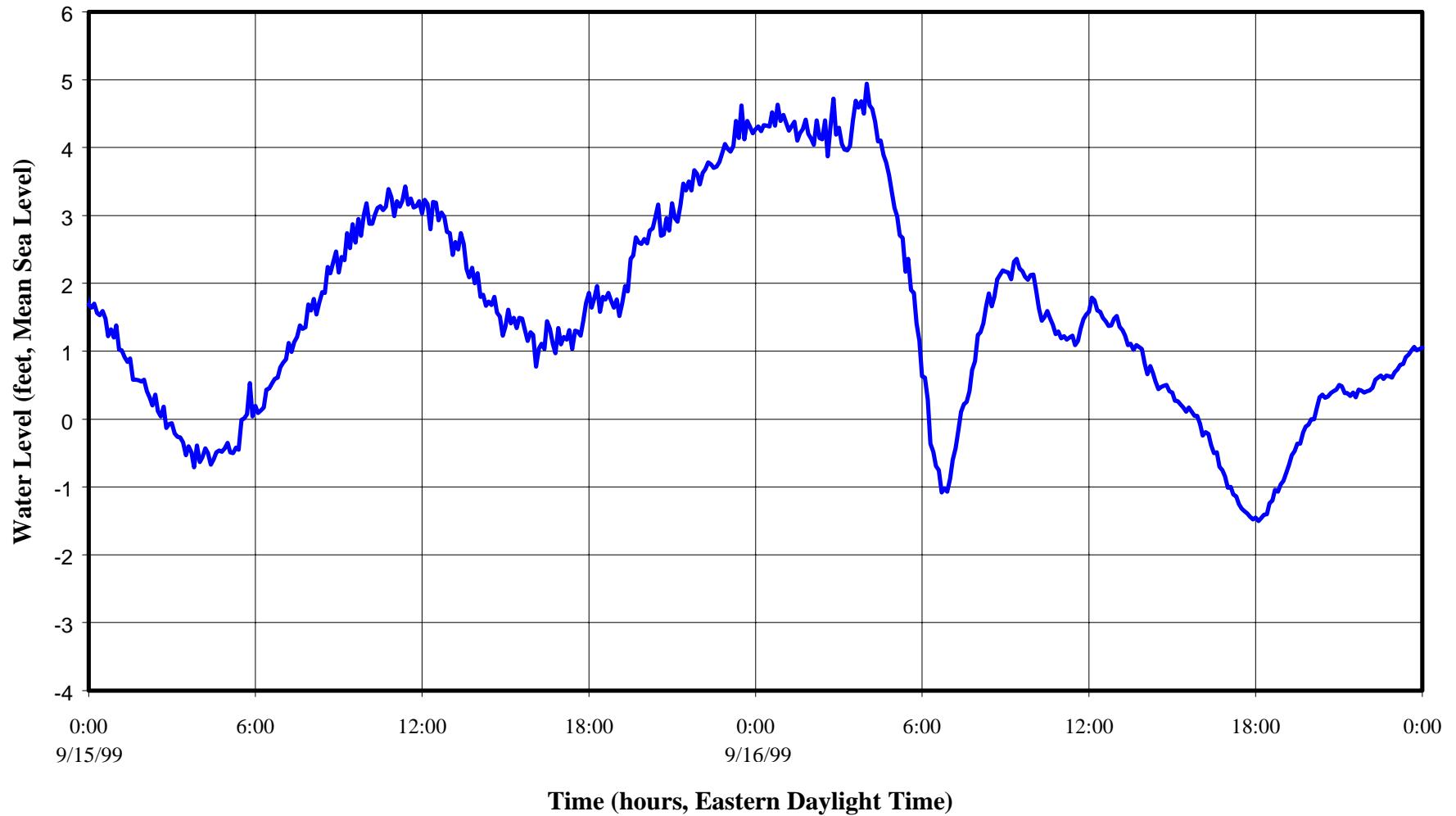
**FIGURE 1**  
**Water Level at Myrtle Beach, SC (Springmaid Peir)**  
Hurricane Floyd  
September 15 - 16, 1999



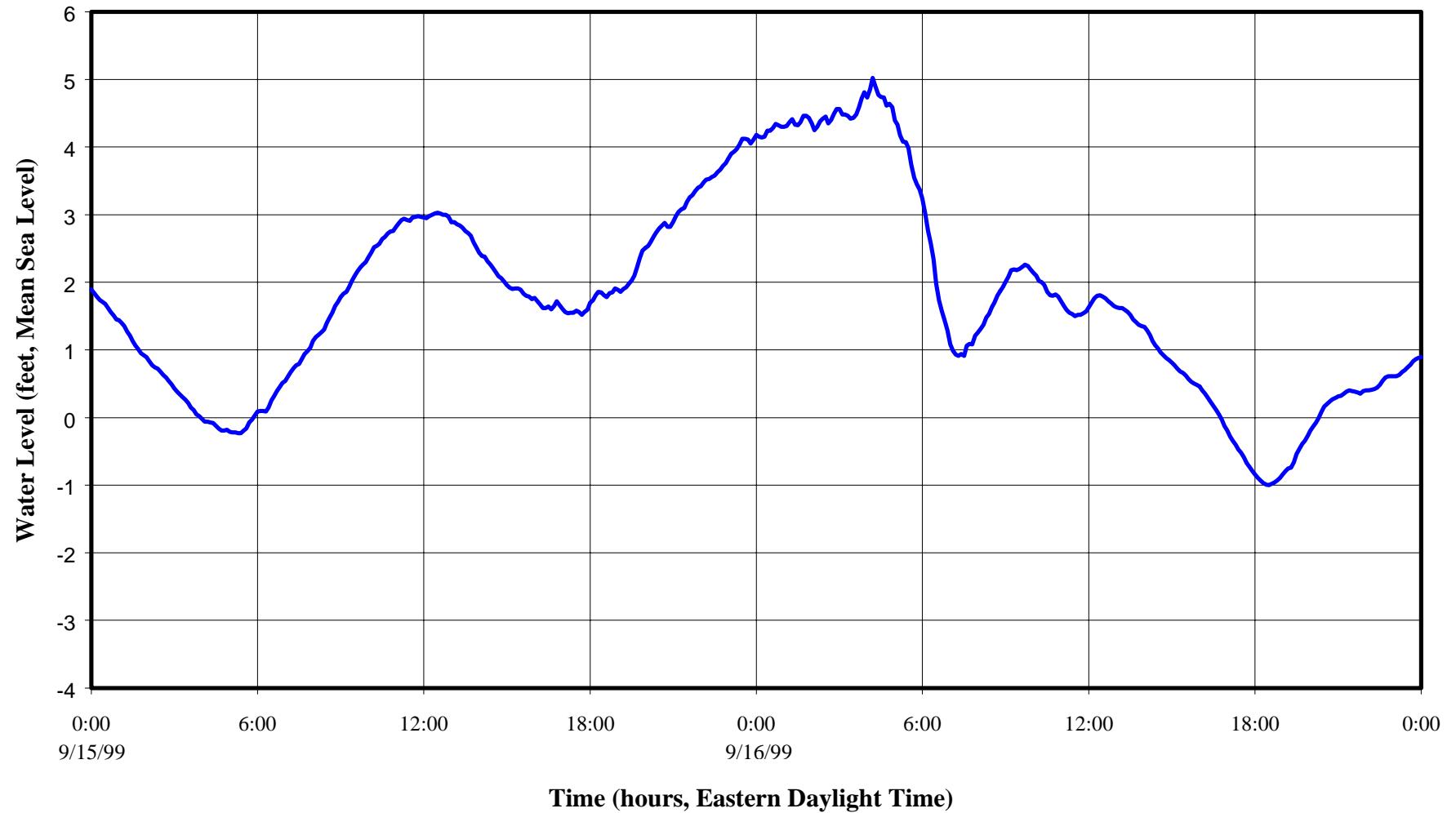
**FIGURE 2**  
**Water Level at Wilmington, NC**  
Hurricane Floyd  
September 15 - 16, 1999



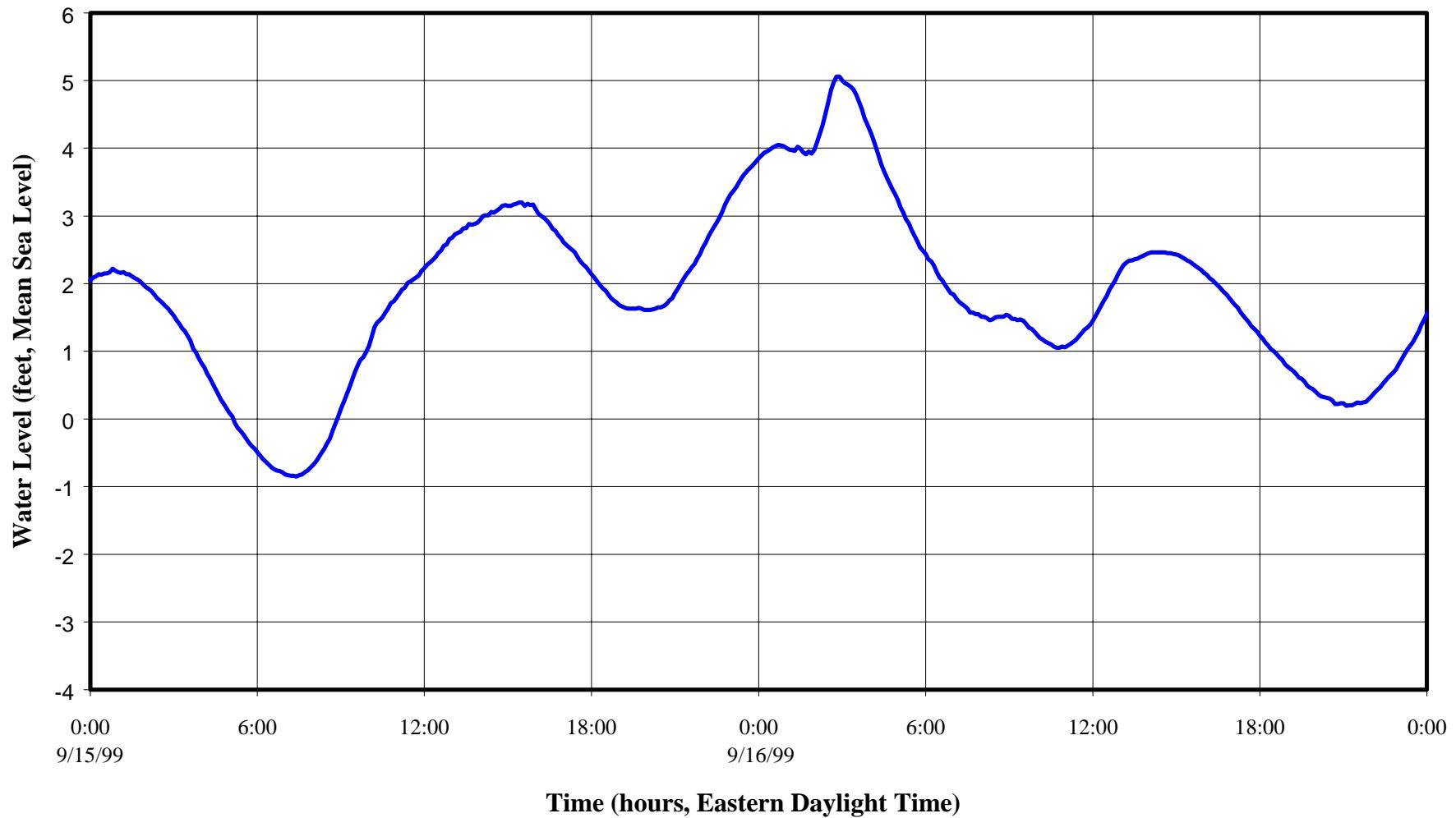
**FIGURE 3**  
**Water Level at Atlantic Beach, NC (Triple S Pier)**  
Hurricane Floyd  
September 15 - 16, 1999



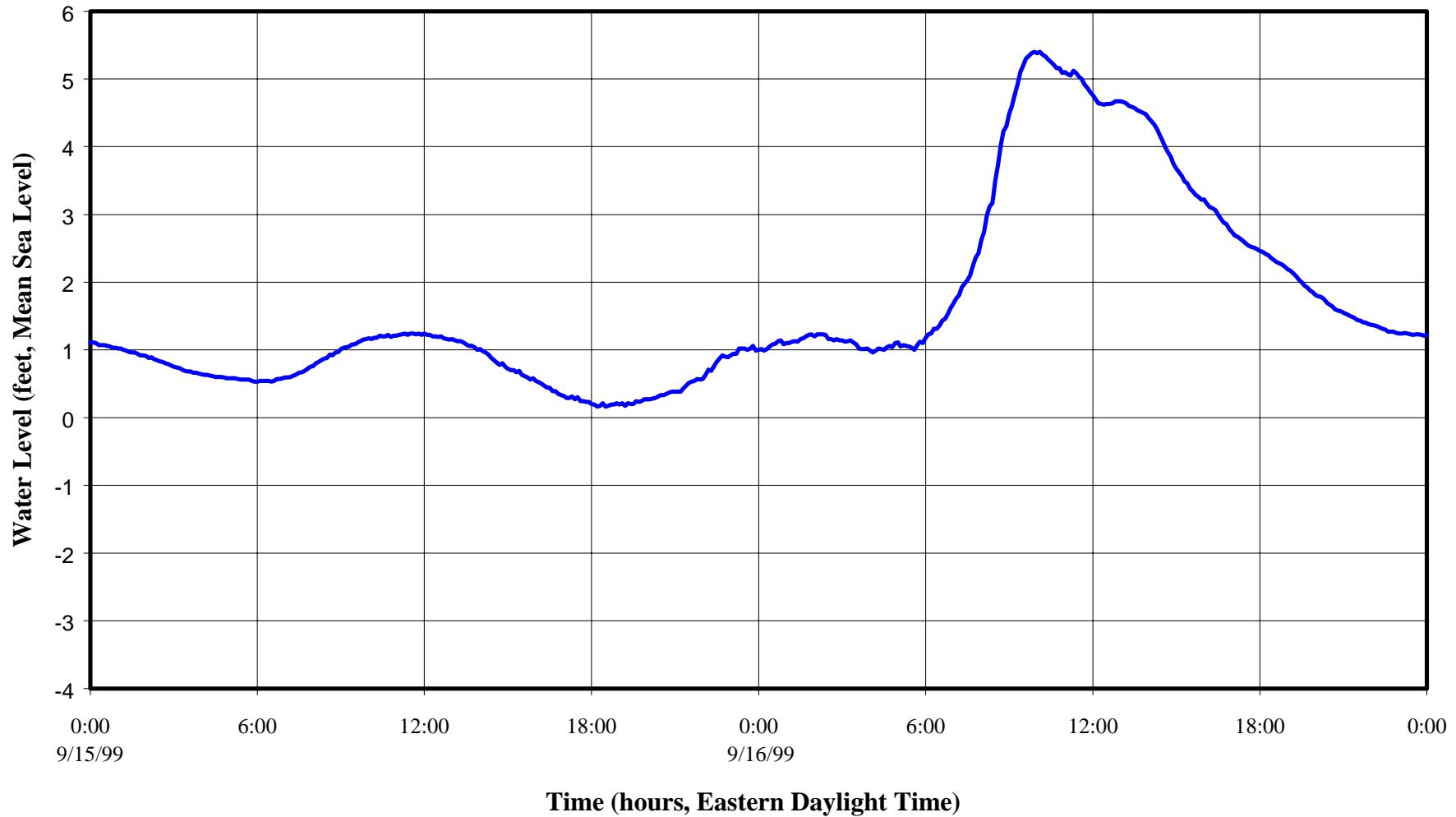
**FIGURE 4**  
**Water Level at Beaufort, NC (Duke Maine Lab)**  
Hurricane Floyd  
September 15 - 16, 1999



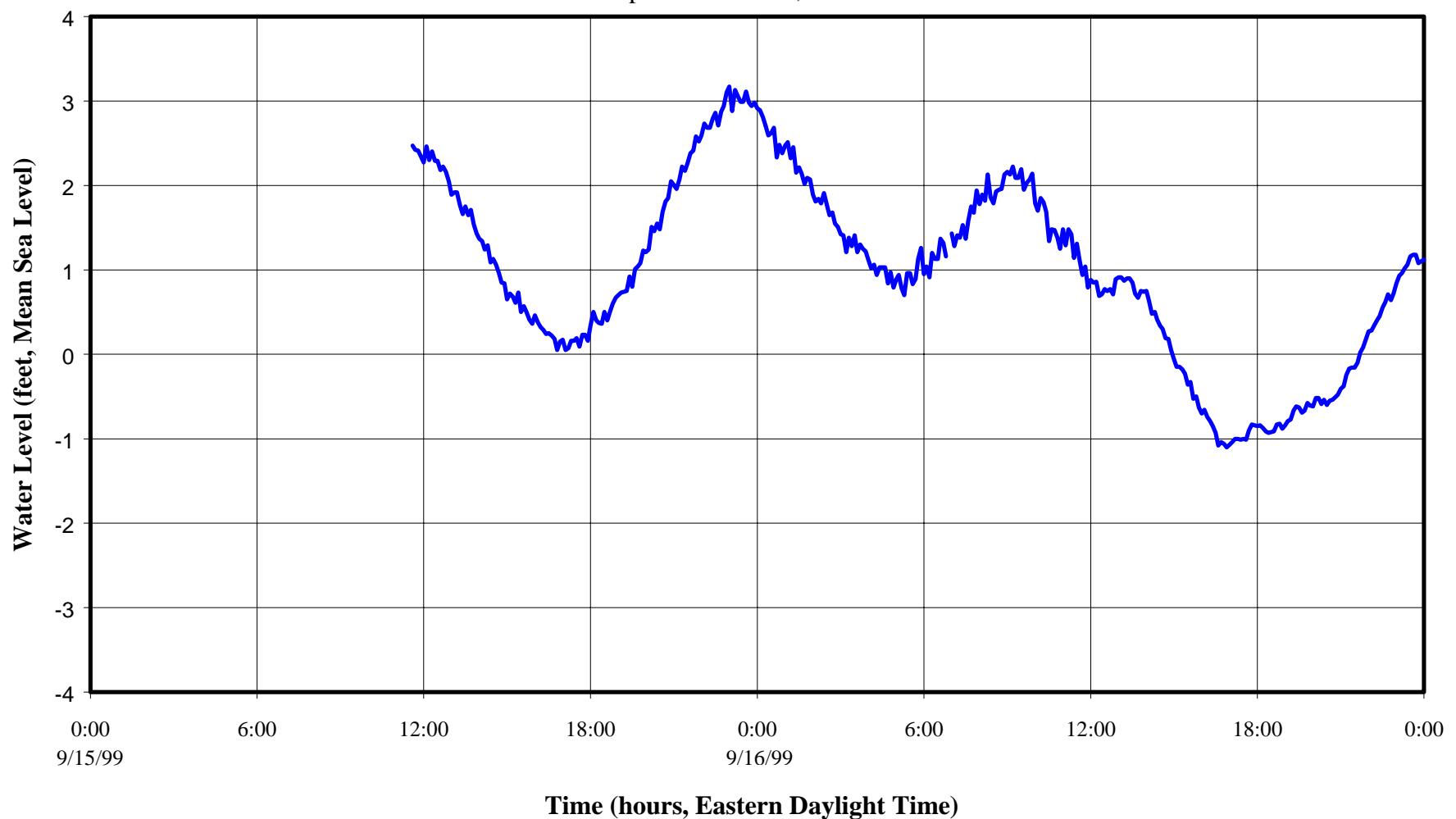
**FIGURE 5**  
**Water Level at Cape Hatteras, NC (Cape Hatteras Fishing Peir)**  
Hurricane Floyd  
September 15 - 16, 1999



**FIGURE 6**  
**Water Level at Oregon Inlet, NC (Oregon Inlet Marina)**  
Hurricane Floyd  
September 15 - 16, 1999



**FIGURE 7**  
**Water Level at Duck, NC (FRF Pier)**  
Hurricane Floyd  
September 15 - 16, 1999



## **Stream Gages**

In addition to the storm surge created by Hurricane Floyd, devastating riverine flooding was experienced throughout eastern North Carolina. The USGS maintains a network of stream gages at many locations on inland rivers throughout North Carolina that recorded stream water surface levels. The water surface levels were also used to determine the discharge of the rivers. The gage height and corresponding river discharge flow data during September 1999 show the effects of the rainfall associated with Hurricane Floyd on the inland rivers and streams. Data was furnished by the USGS at the 32 gages shown in Table 4. Plots of the gage height and discharge of these gages are shown in Figure 8 through Figure 39. The data represented in the figures is provisional and subject to revisions per the USGS quality control program.

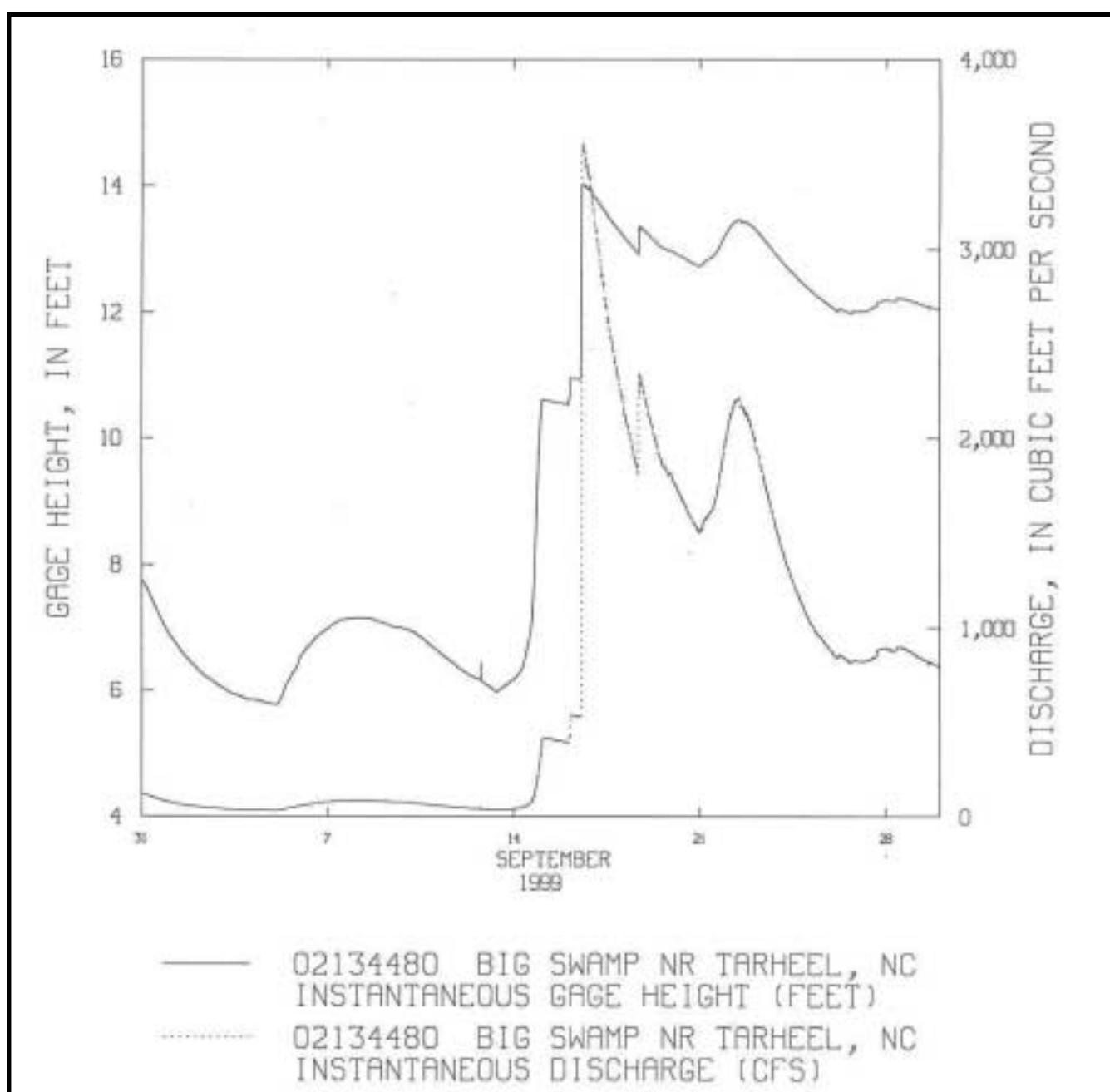
**TABLE 4**  
**USGS Gages**

USGS Station Number	Gage Location	Latitude (ddmmss)	Longitude (ddmmss)	County	Drainage Area (sq. mi.)	Gage Datum (ft., NGVD29)	1999 Water Year Maximums			Approximate recurrence interval (years)
							Date of Occurrence	Gage Height (ft.)	Discharge (cfs)	
02134480	Big Swamp Nr Tarheel, NC	342437	785014	Bladen	229	N/A	N/A	N/A	N/A	N/A
02106500	Black River Near Tomahawk NC	344517	781721	Sampson	676	24.61	9/18/99	27.00	27,900	100 - 500
02105769	Cape Fear R At Lock # 1 Nr Kelly, NC	342415	781738	Bladen	5255	N/A	9/20/99	23.30	40,000	N/A
02105500	Cape Fear R At Wilm O Huske Lock Nr Tarheel NC	345005	784927	Bladen	4852	28.97	9/17/99	21.59	40,500	N/A
0208111310	Cashie River At Sr 1257 Near Windsor, NC	360251	765907	Bertie	108	15.00	9/16/99	18.52	N/A	N/A
02084160	Chicod Cr At Sr 1760 Near Simpson, NC	353347	771343	Pitt	45	N/A	N/A	21.50	N/A	N/A
02091500	Contentnea Creek At Hookerton, NC	352544	773459	Greene	733	16.00	9/18/99	28.28	35,500	>500
02090380	Contentnea Creek Near Lucama, NC	354129	780638	Wilson	161	117.43	9/16/99	25.00	23,700	100
02083000	Fishing Creek Near Enfield, NC	360903	774135	Edgecombe	526	76.26	9/18/99	21.65	29,100	500
0210783276	Herrings Marsh Run Below Sr 1306 At Red Hill, NC	350425	775450	Duplin	9.11	N/A	N/A	N/A	N/A	N/A
0210783230	Herrings Marsh Run Near Summerlins Crossroads, NC	350537	775635	Duplin	2.25	N/A	N/A	N/A	N/A	N/A
0210783240	Herrings Marsh Run Trib Near Summerlins Crossroads, NC	350549	775601	Duplin	1.49	N/A	N/A	N/A	N/A	N/A
02105900	Hood Creek Near Leland, NC	341643	780734	Brunswick	21.6	12.22	9/16/99	13.90	4,800	100
02082950	Little Fishing Creek Near White Oak, NC	361108	775234	Halifax	177	116.44	9/16/99	30.70	31,000	>500
02088500	Little River Near Princeton, NC	353040	780938	Johnston	232	107.75	9/16/99	16.50	N/A	>500
02134500	Lumber River At Boardman, NC	342632	785738	Gaston	1228	72.00	9/19/99	10.69	13,300	25
02089500	Neuse River At Kinston, NC	351529	773509	Lenoir	2692	10.90	9/22-23/99	27.71	36,300	50 - 100
02087500	Neuse River Near Clayton, NC	353850	782422	Johnston	1150	128.41	9/17/99	20.67	20,800	25 - 50
02091814	Neuse River Near Fort Barnwell NC	351845	771820	Craven	3900	N/A	N/A	N/A	N/A	N/A
02089000	Neuse River Near Goldsboro, NC	352014	775951	Wayne	2399	42.95	9/20/99	28.85	35,200	50
02093000	New River Near Gum Branch, NC	345056	773111	Onslow	94	N/A	9/16/99	25.12	N/A	N/A
02108000	Northeast Cape Fear River Near Chinquapin, NC	344940	775000	Duplin	599	17.28	9/18/99	23.51	30,700	>500
02084909	Sevenmile Creek Nr Efland NC	360356	790839	Orange	14.1	560.00	9/16/99	10.35	1,100	< 2

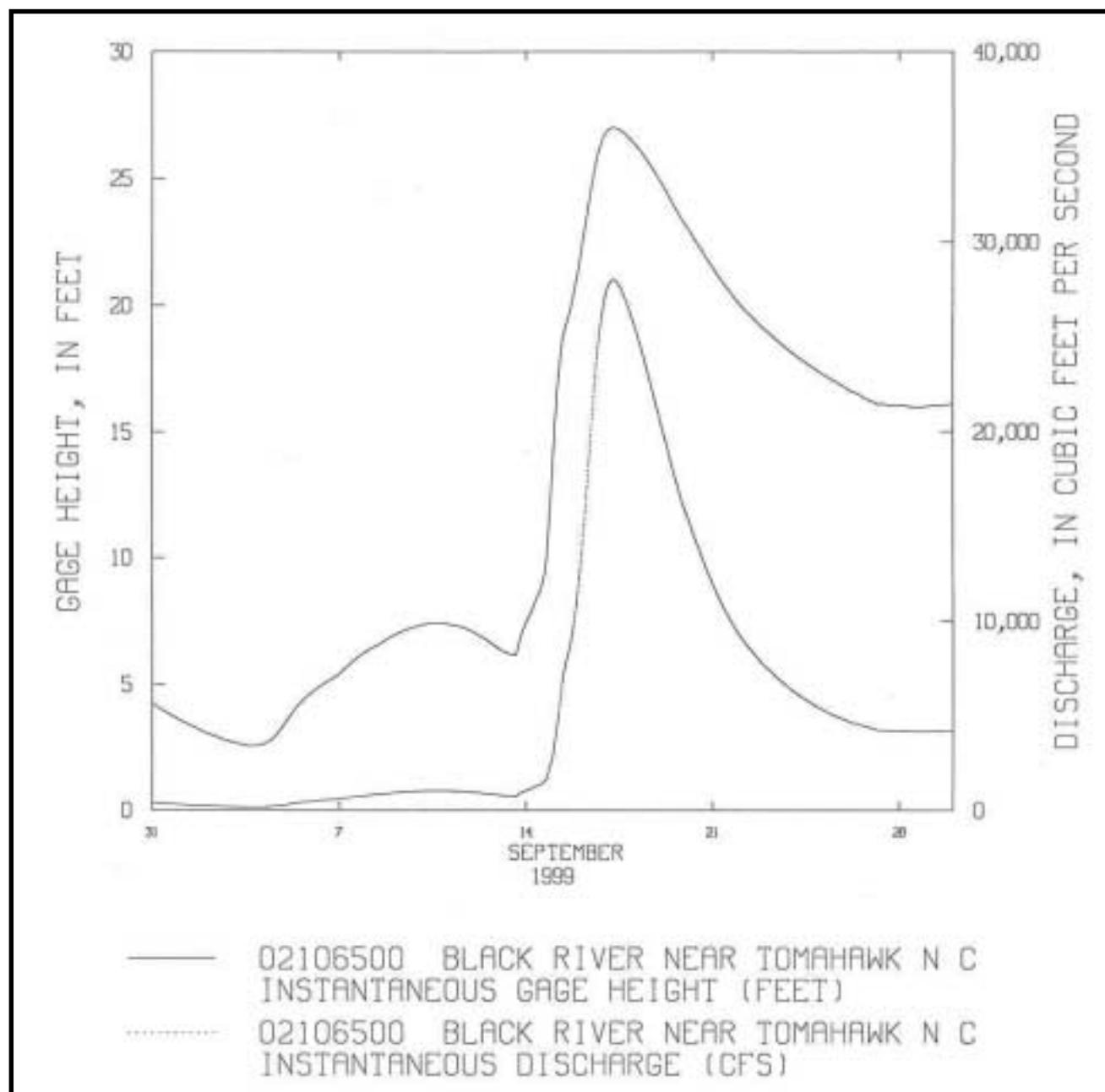
**TABLE 4**  
**USGS Gages**

USGS Station Number	Gage Location	Latitude (ddmmss)	Longitude (ddmmss)	County	Drainage Area (sq. mi.)	Gage Datum (ft., NGVD29)	1999 Water Year Maximums			Approximate recurrence interval (years)
							Date of Occurrence	Gage Height (ft.)	Discharge (cfs)	
02081747	Tar R At Us 401 At Louisburg NC	360534	781748	Franklin	427	176.71	9/17/99	26.05	23,800	50 - 100
02082506	Tar R Bl Tar R Reservoir Nr Rocky Mount NC	355358	775157	Nash	777	85.90	9/17/99	32.35	28,300	100 - 500
02082585	Tar River At N C 97 At Rocky Mount, NC	355715	774715	Edgecombe	925	53.88	9/17/99	31.66	34,100	100 - 500
02083500	Tar River At Tarboro, NC	355338	773200	Edgecombe	2183	10.37	9/20/99	41.51	70,300	>500
02081500	Tar River Near Tar River NC	361141	783500	Granville	167	287.25	9/16/99	17.59	11,000	10
02092554	Trent R At Pollocksville NC	350035	771310	Jones	370	N/A	N/A	N/A	N/A	N/A
02092500	Trent River Near Trenton, NC	350354	772724	Jones	168	19.15	9/17/99	22.30	15,000	>500
02084557	Van Swamp Near Hoke, NC	354349	764449	Washington	23	N/A	9/16/99	7.43	369	25
02109500	Waccamaw River At Freeland, NC	340543	783255	Brunswick	680	15.52	9/21/99	19.30	31,200	>500

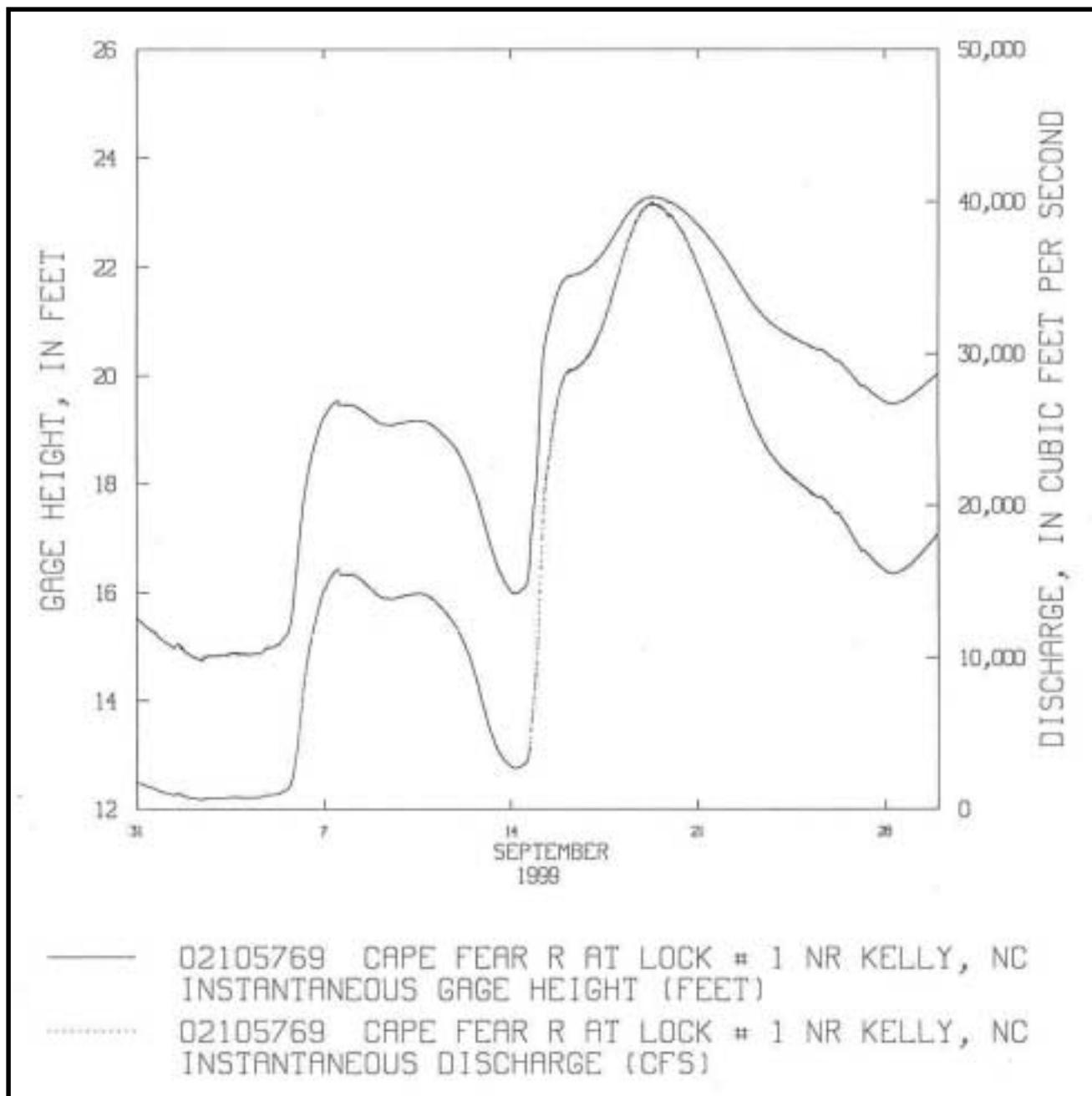
**FIGURE 8**  
**USGS Stream Gage**  
**Big Swamp Nr Tarheel, NC**



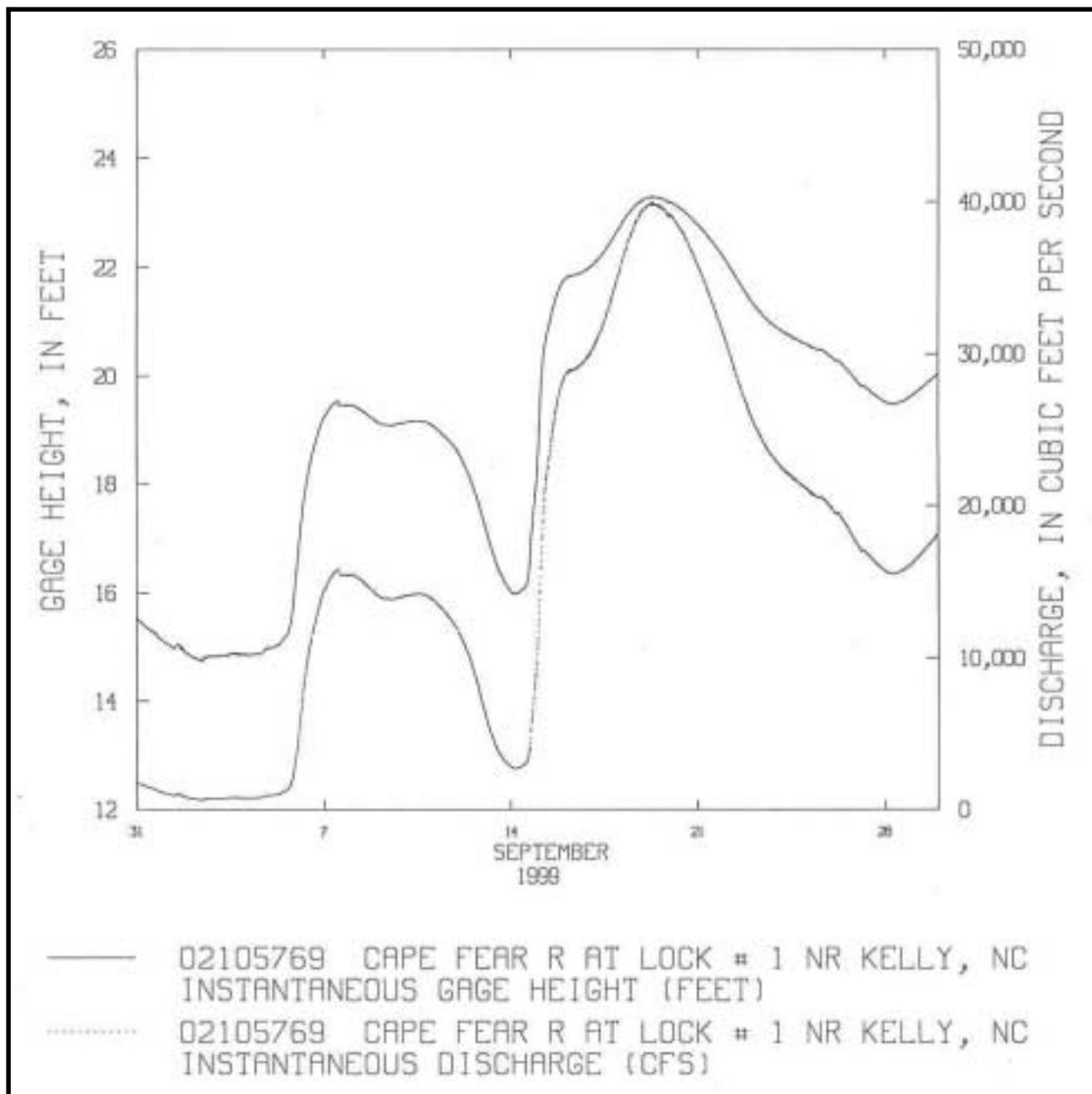
**FIGURE 9**  
**USGS Stream Gage**  
**Black River Near Tomahawk NC**



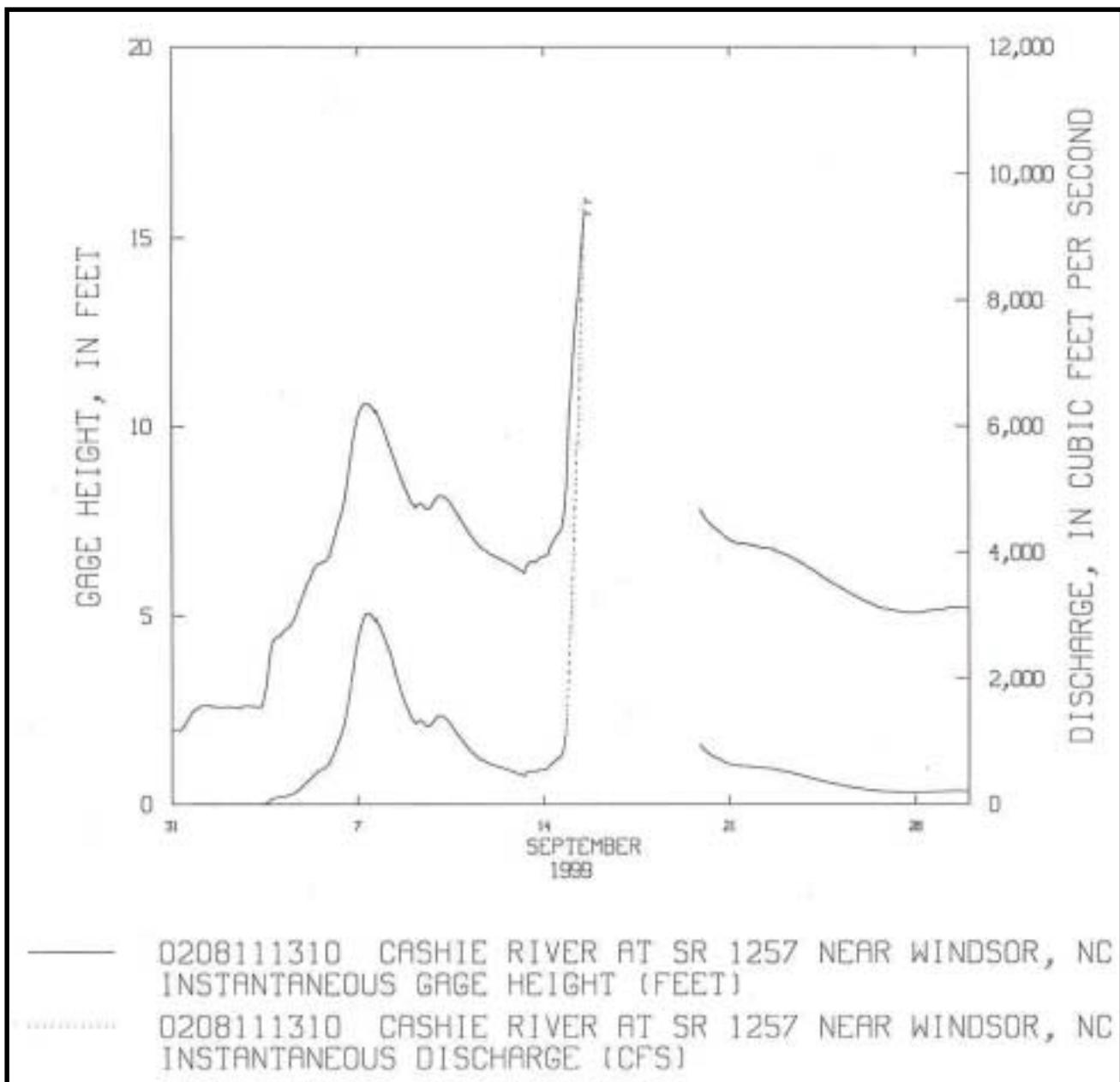
**FIGURE 10**  
**USGS Stream Gage**  
**Cape Fear R At Lock # 1 Nr Kelly, NC**



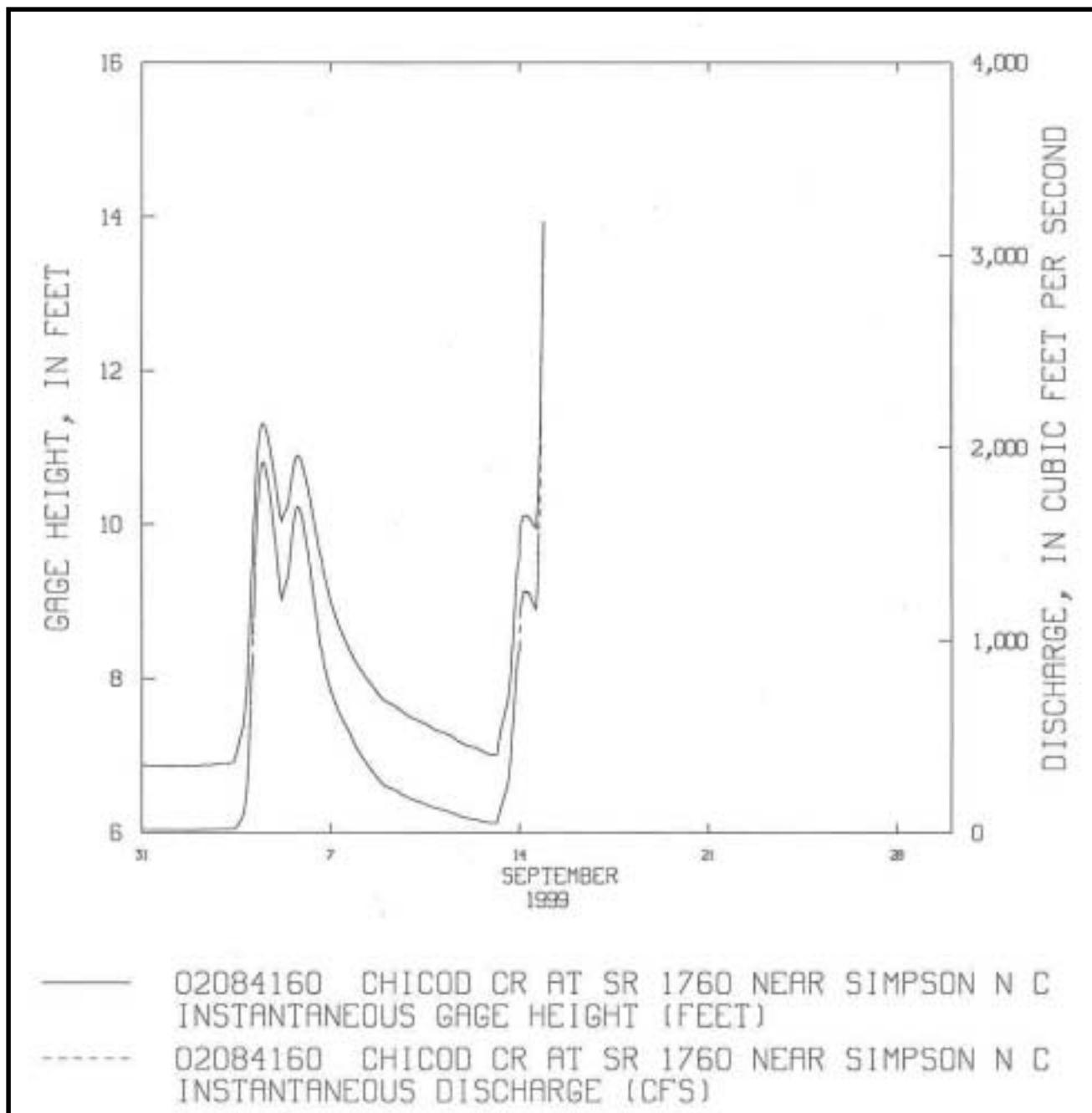
**FIGURE 11**  
**USGS Stream Gage**  
**Cape Fear R At Wilm O Huske Lock Nr Tarheel NC**



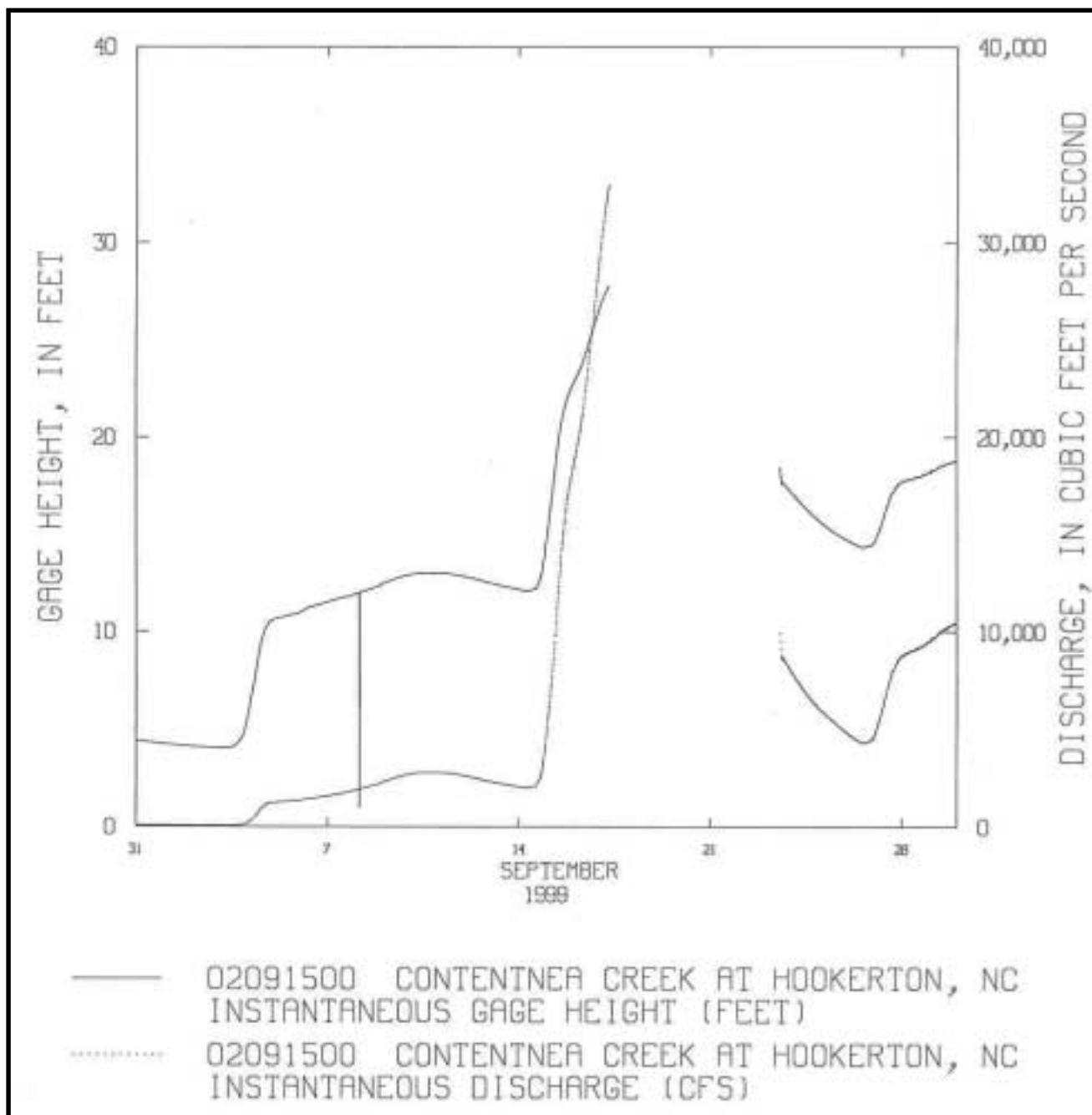
**FIGURE 12**  
**USGS Stream Gage**  
**Cashie River At Sr 1257 Near Windsor, NC**



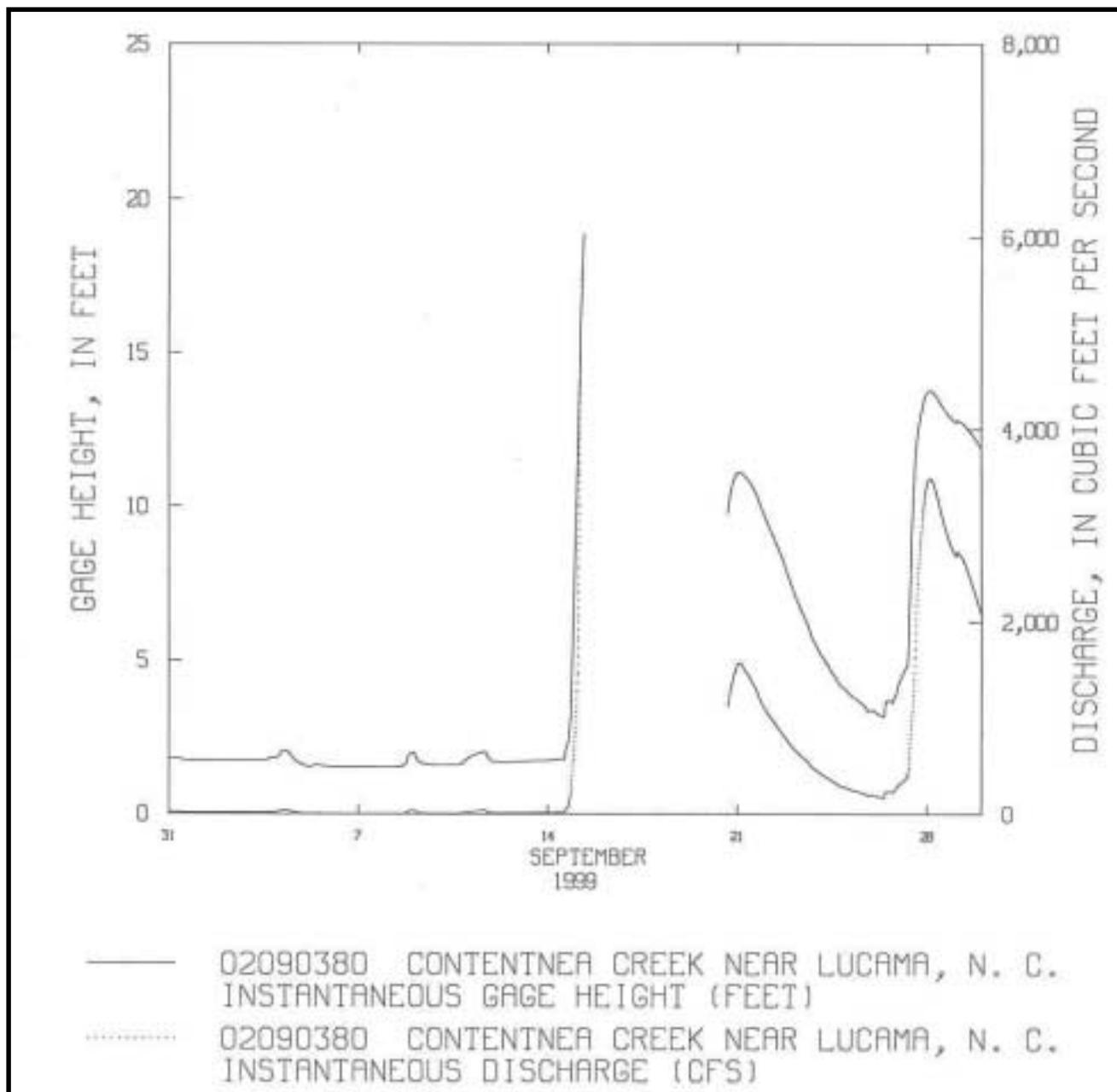
**FIGURE 13**  
**USGS Stream Gage**  
**Chicod Cr At Sr 1760 Near Simpson, NC**



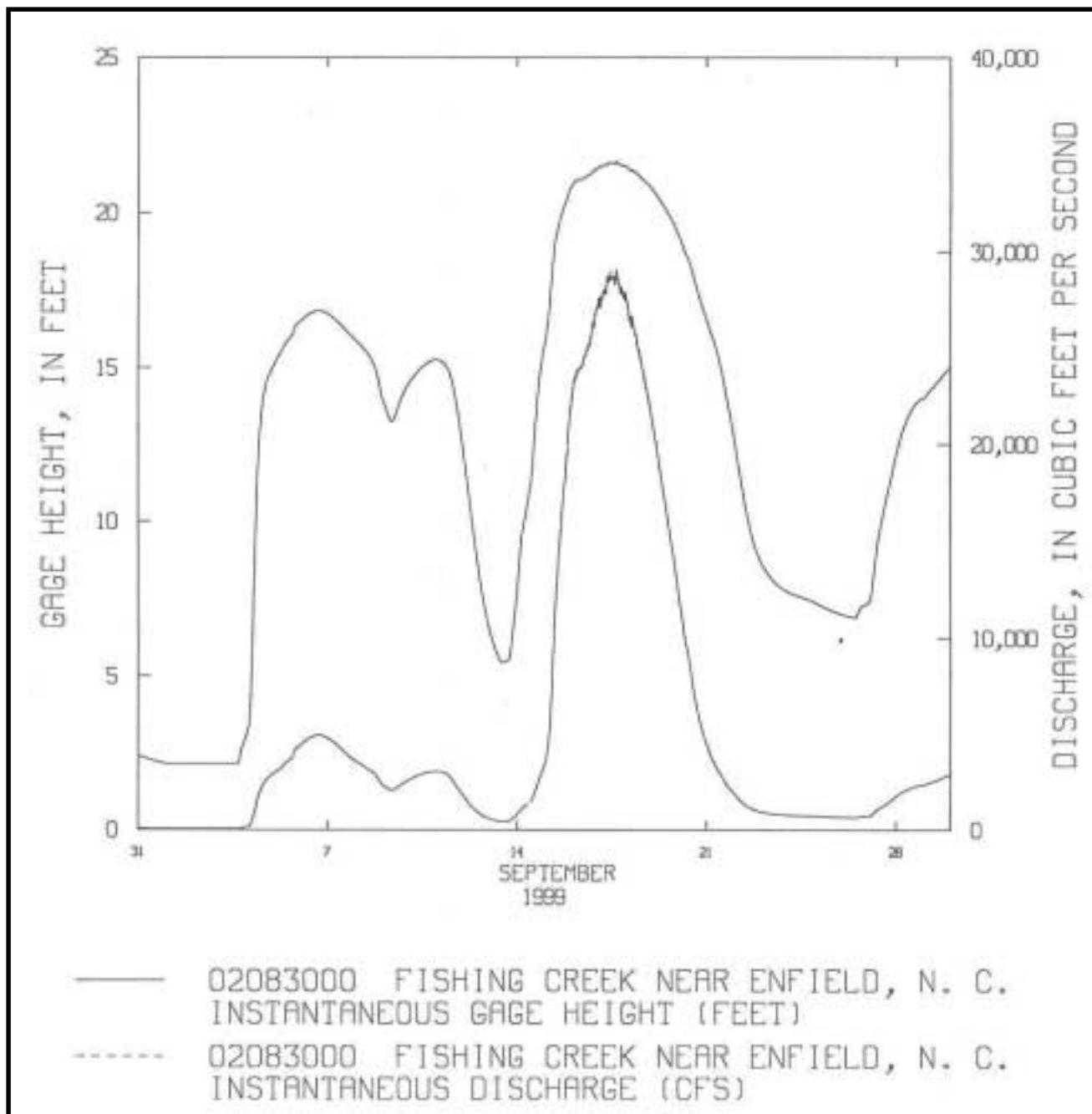
**FIGURE 14**  
**USGS Stream Gage**  
**Contentnea Creek At Hookerton, NC**



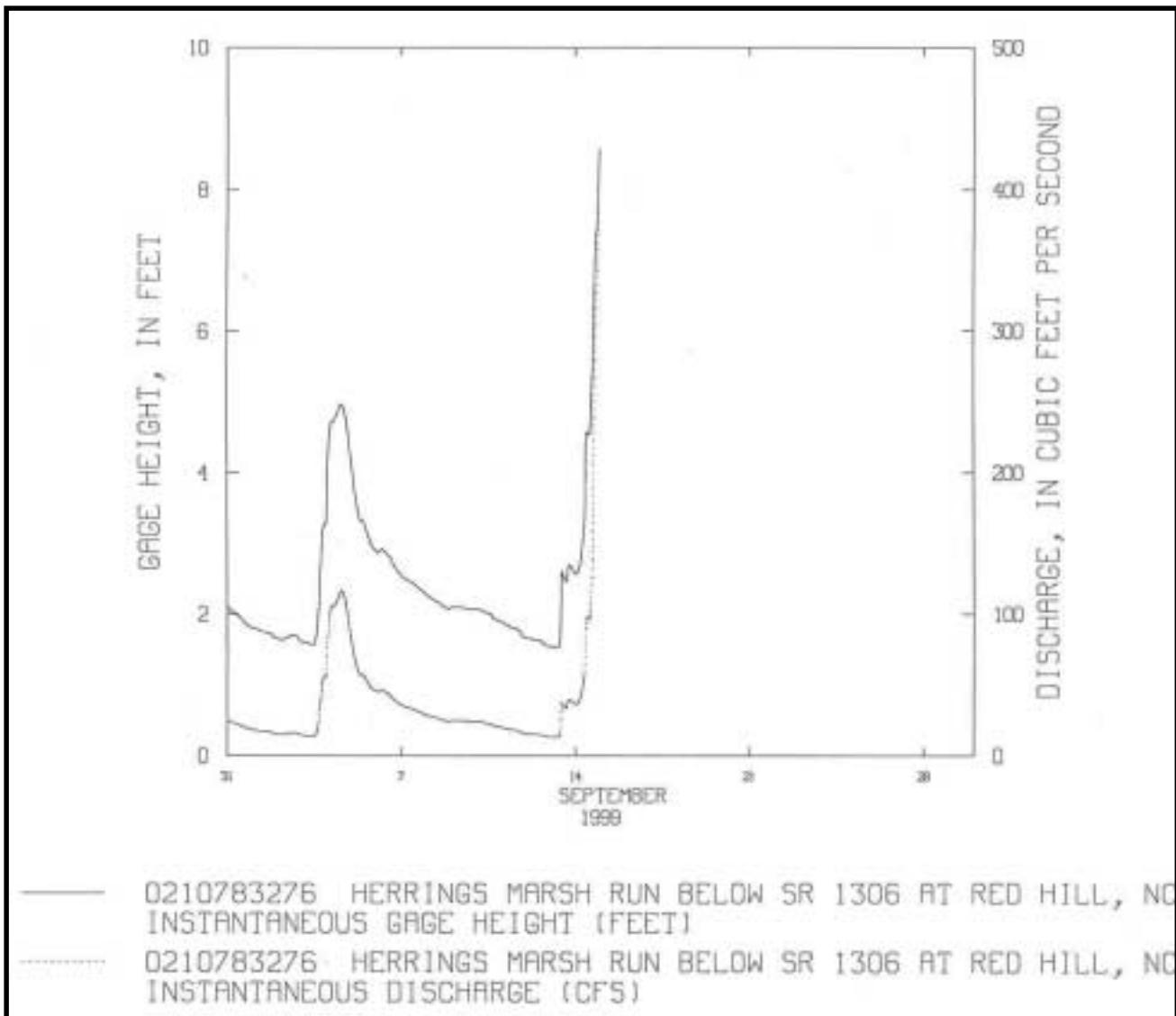
**FIGURE 15**  
**USGS Stream Gage**  
**Contentnea Creek Near Lucama, NC**



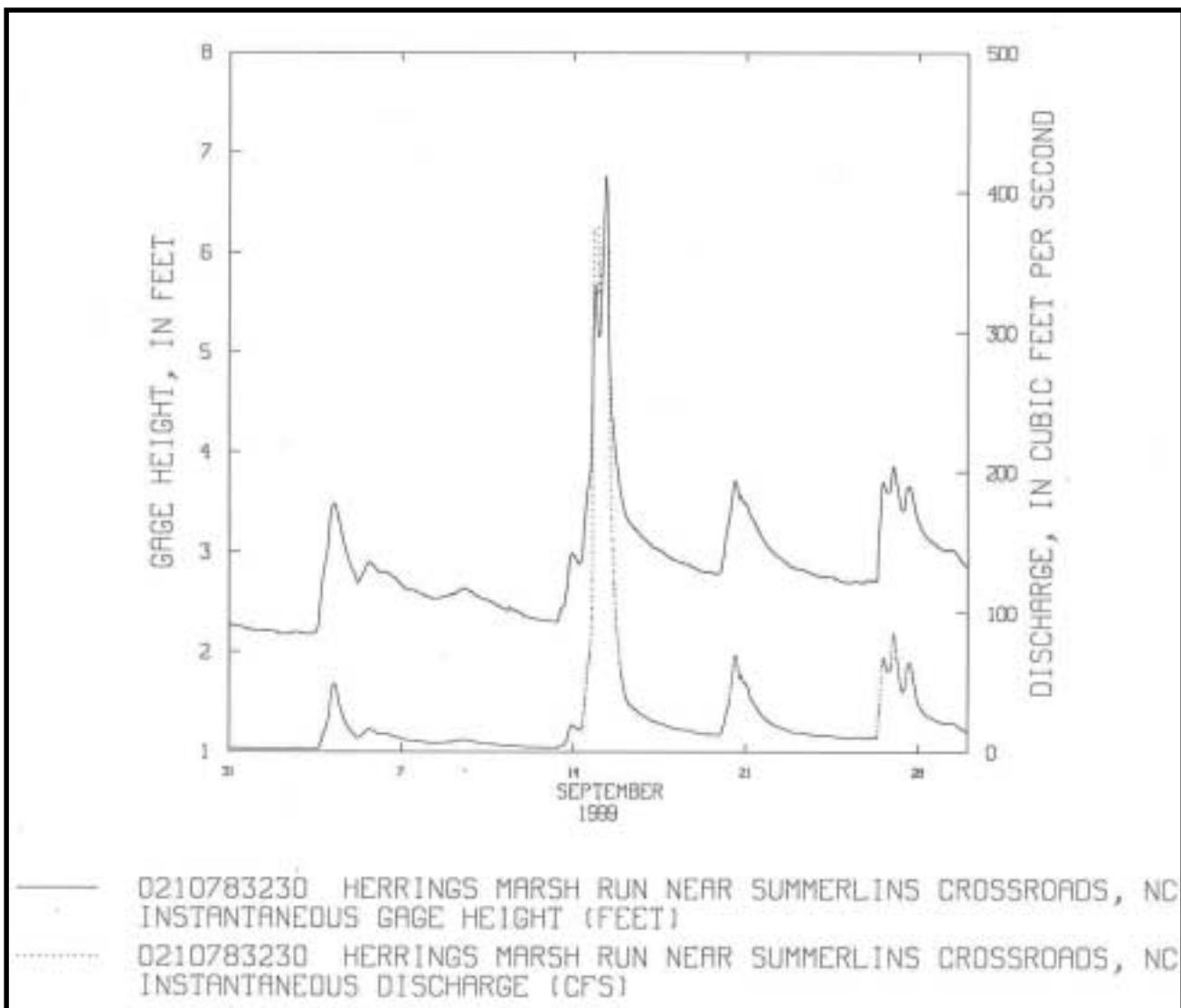
**FIGURE 16**  
**USGS Stream Gage**  
**Fishing Creek Near Enfield, NC**



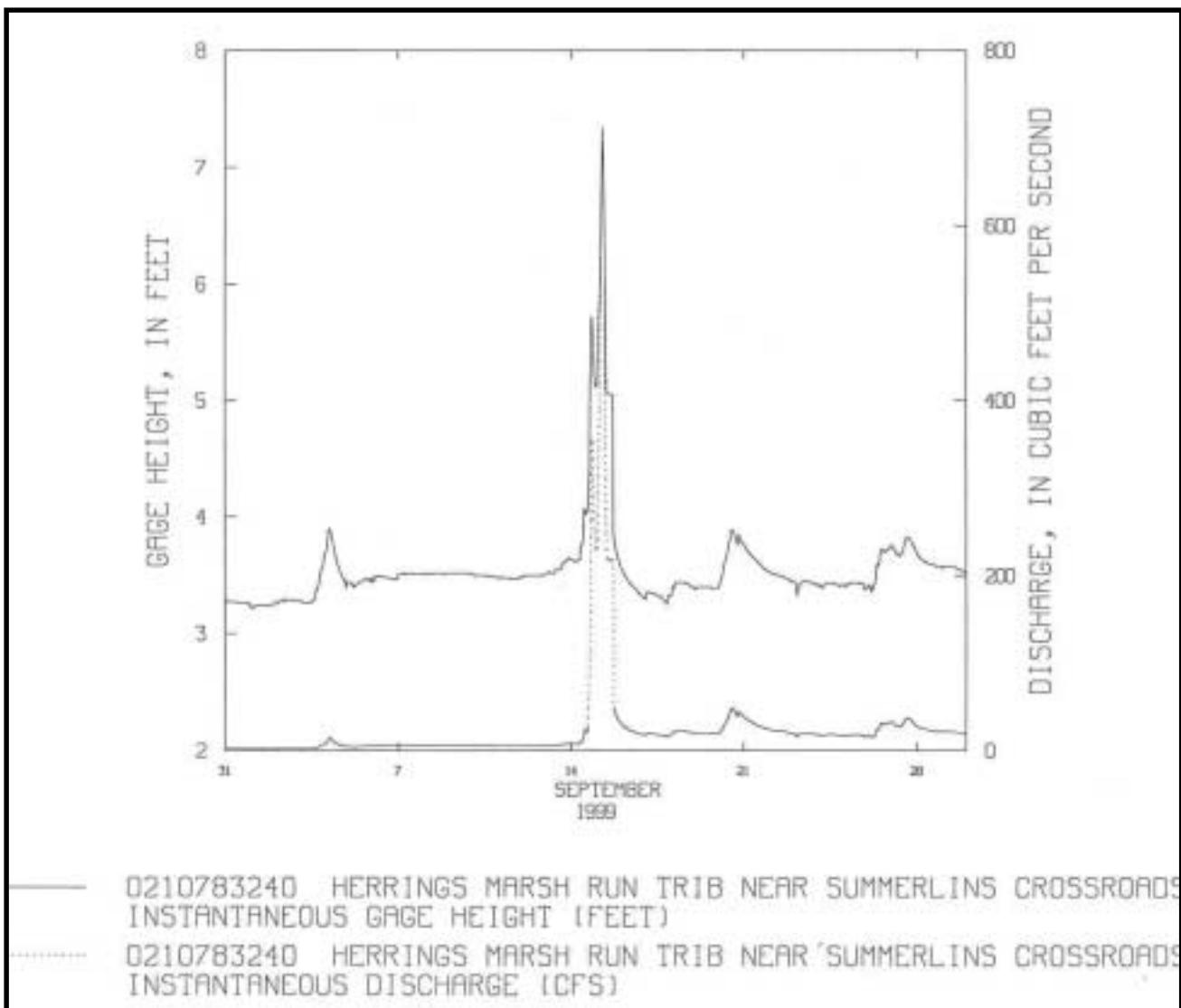
**FIGURE 17**  
**USGS Stream Gage**  
**Herrings Marsh Run Below Sr 1306 At Red Hill, NC**



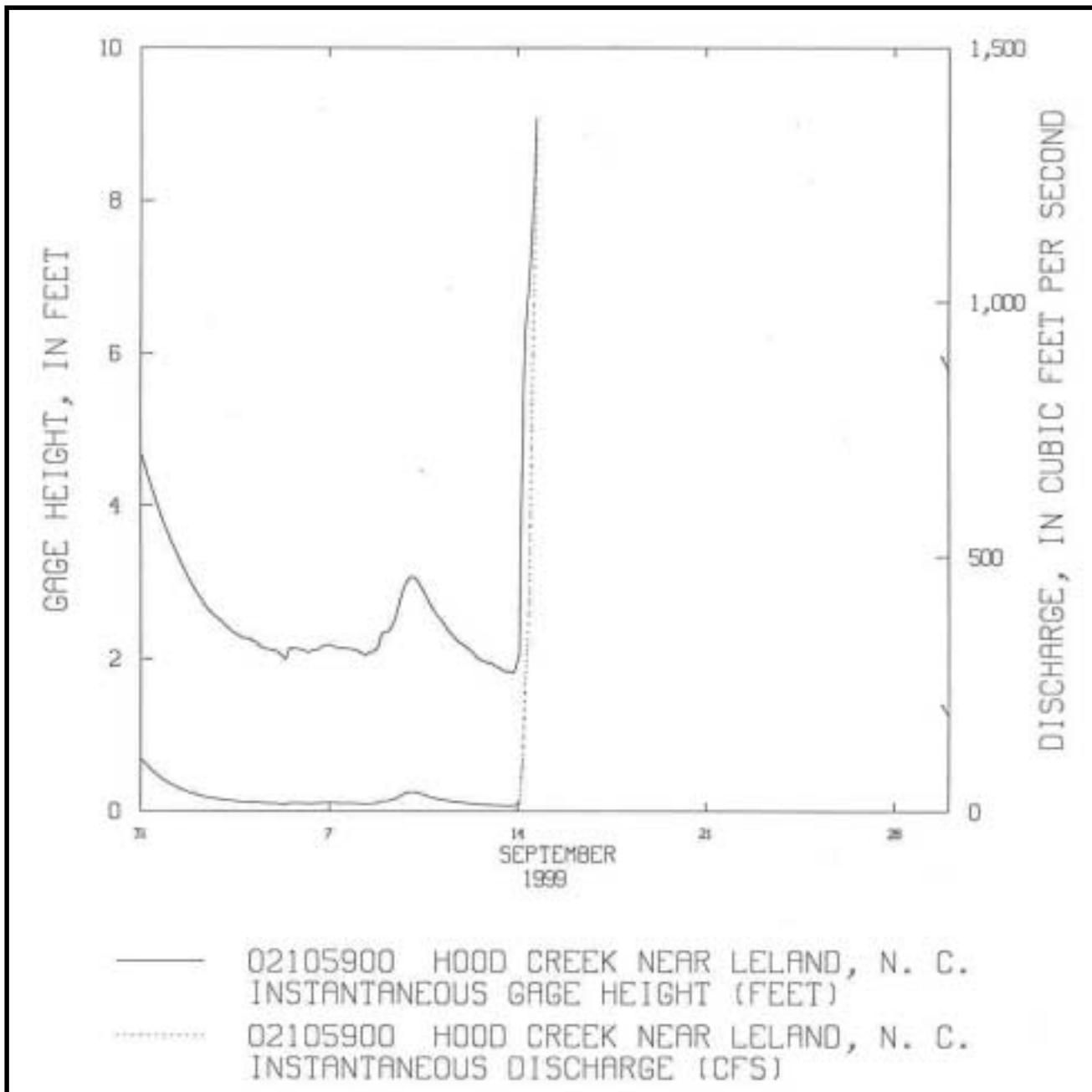
**FIGURE 18**  
**USGS Stream Gage**  
**Herrings Marsh Run Near Summerlins Crossroads, NC**



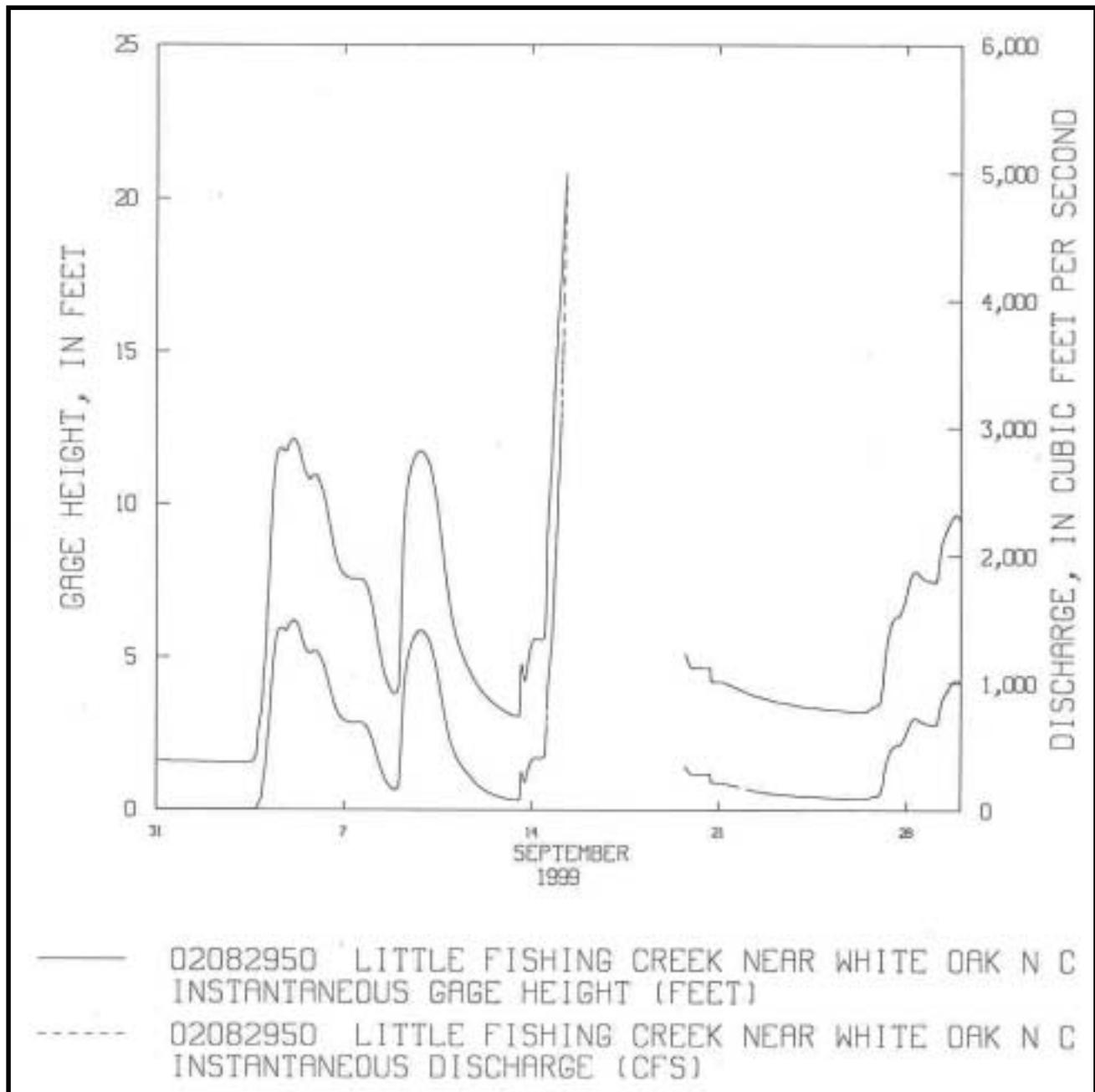
**FIGURE 19**  
**USGS Stream Gage**  
**Herrings Marsh Run Trib Near Summerlins Crossroads, NC**



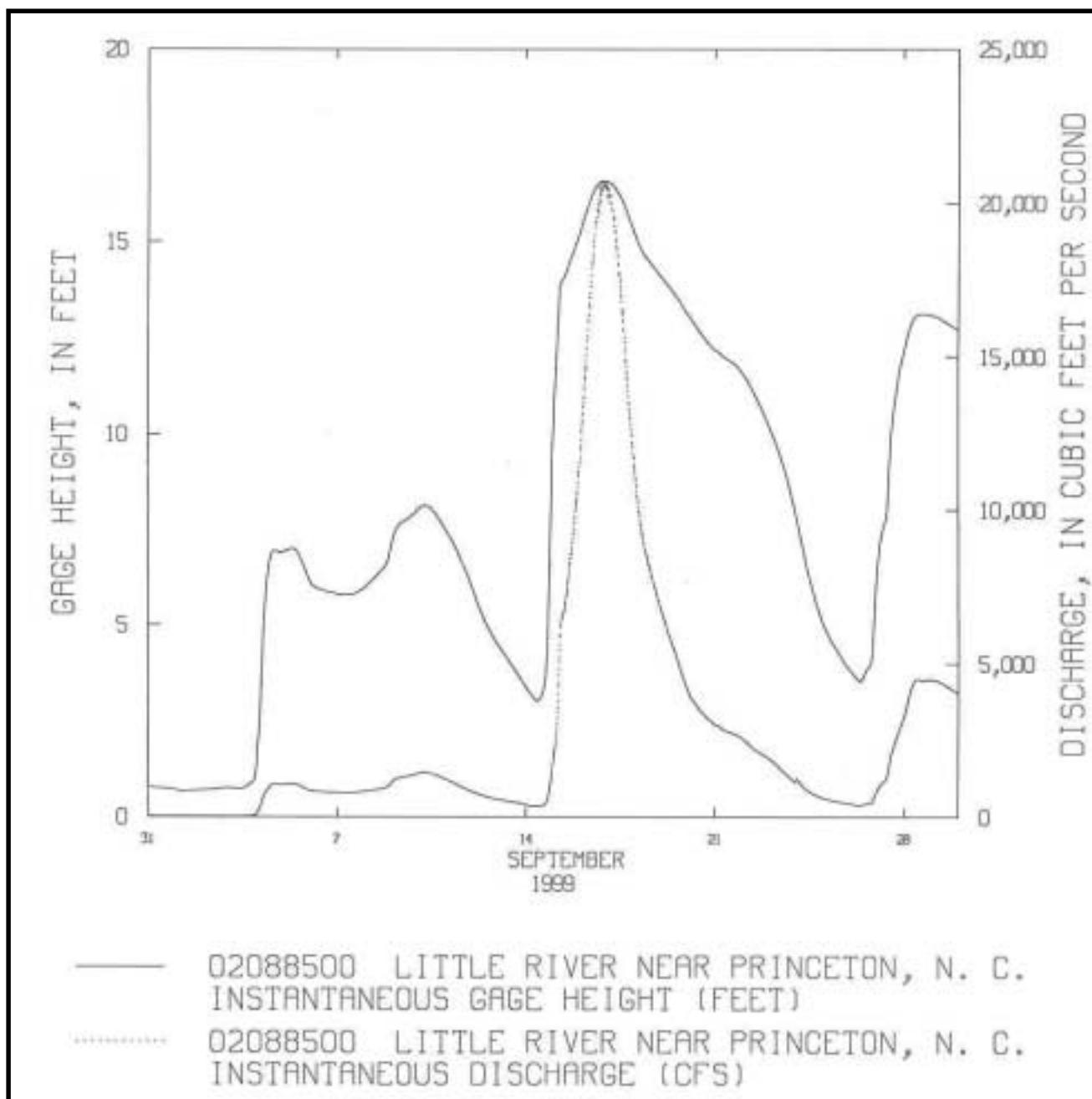
**FIGURE 20**  
**USGS Stream Gage**  
**Hood Creek Near Leland, NC**



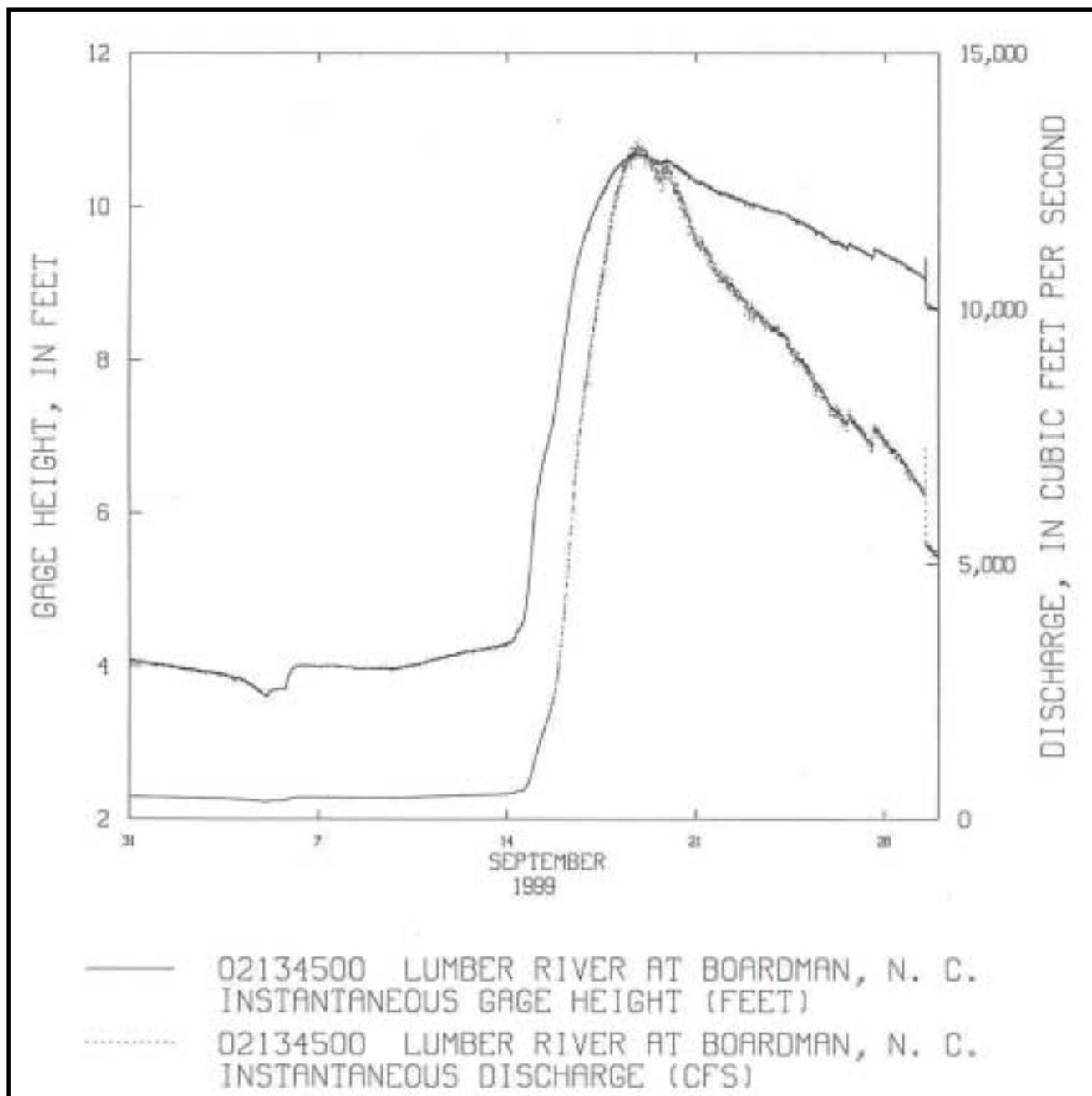
**FIGURE 21**  
**USGS Stream Gage**  
**Little Fishing Creek Near White Oak, NC**



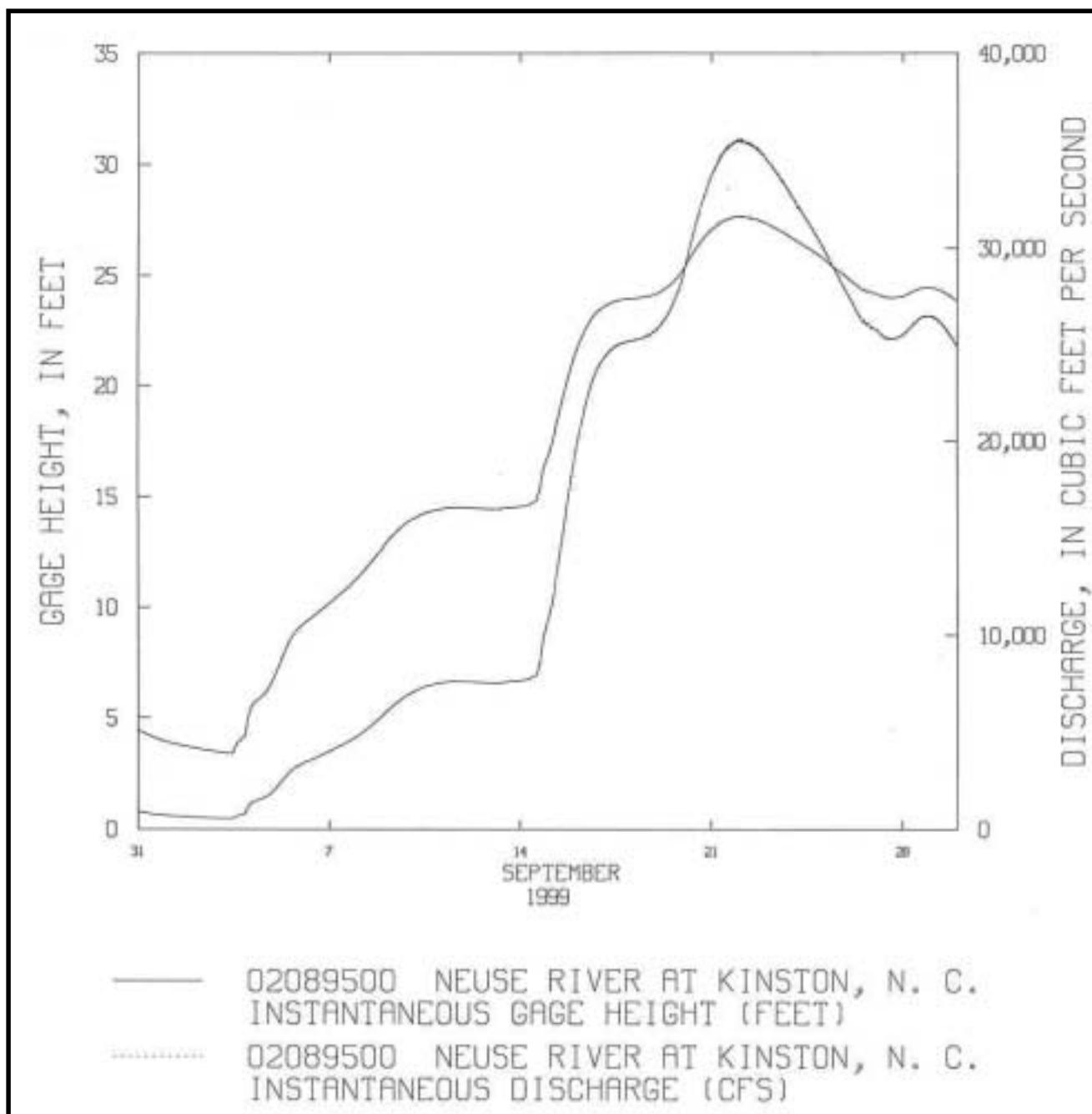
**FIGURE 22**  
**USGS Stream Gage**  
**Little River Near Princeton, NC**



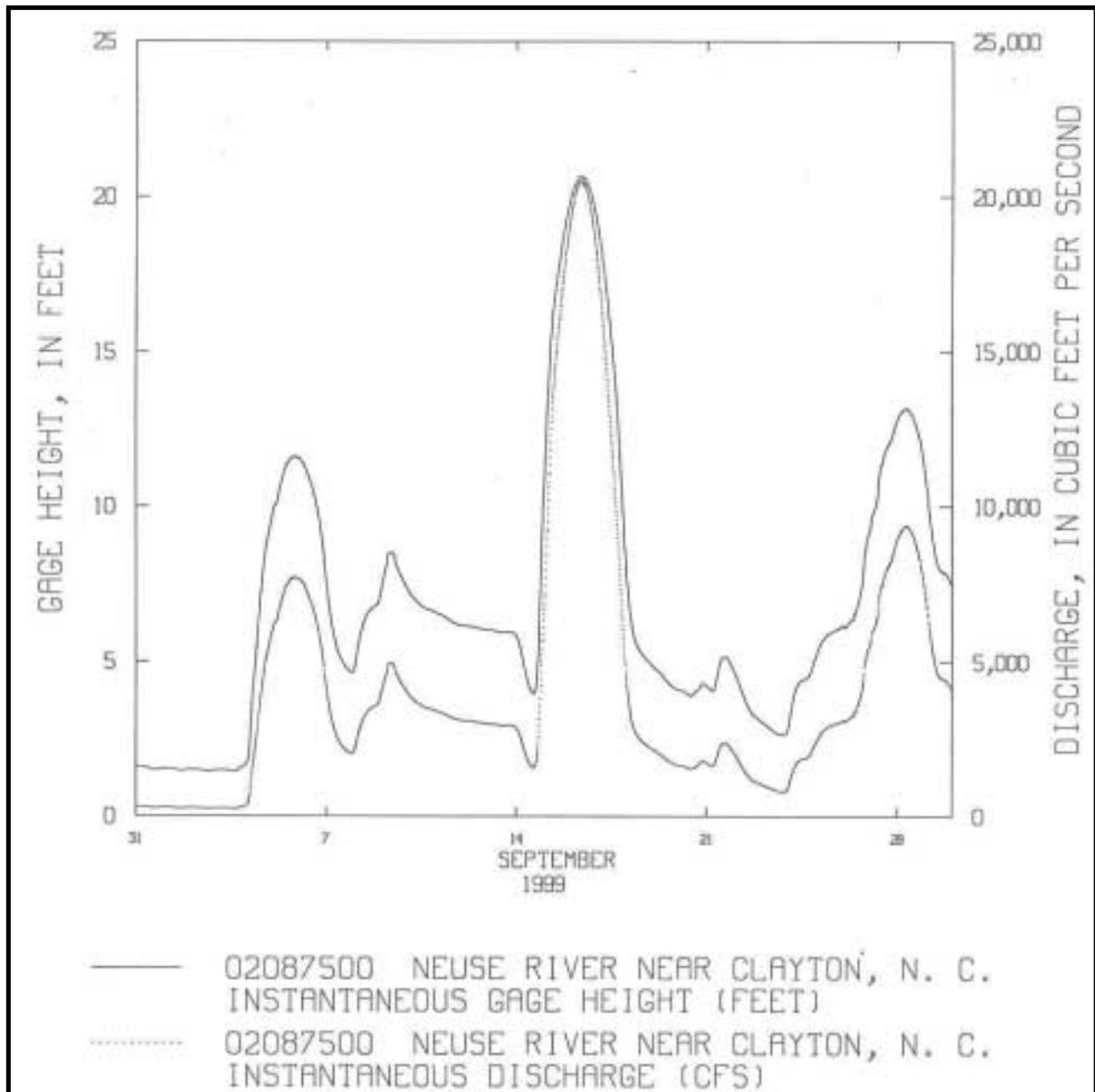
**FIGURE 23**  
**USGS Stream Gage**  
**Lumber River At Boardman, NC**



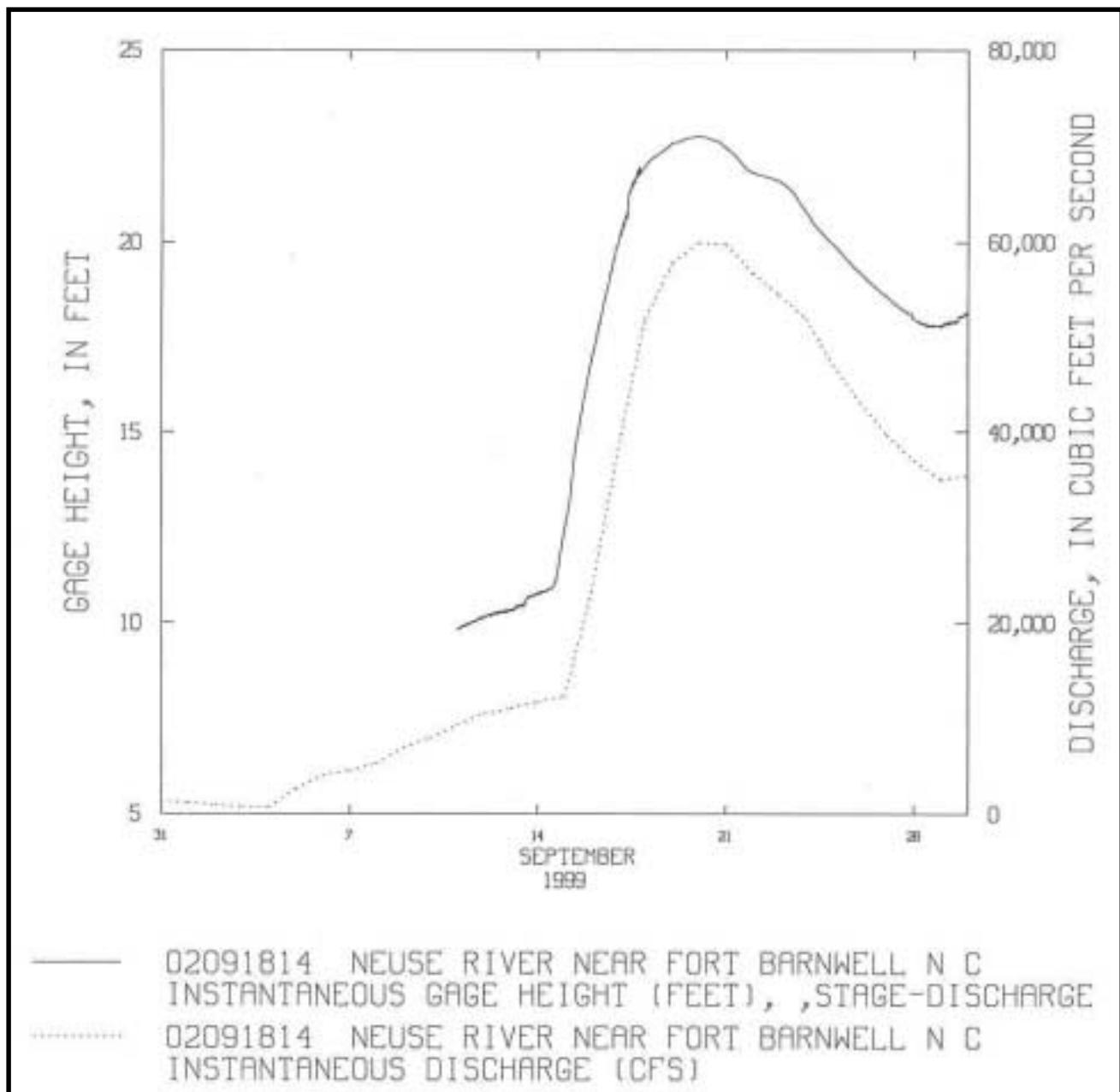
**FIGURE 24**  
**USGS Stream Gage**  
**Neuse River At Kinston, NC**



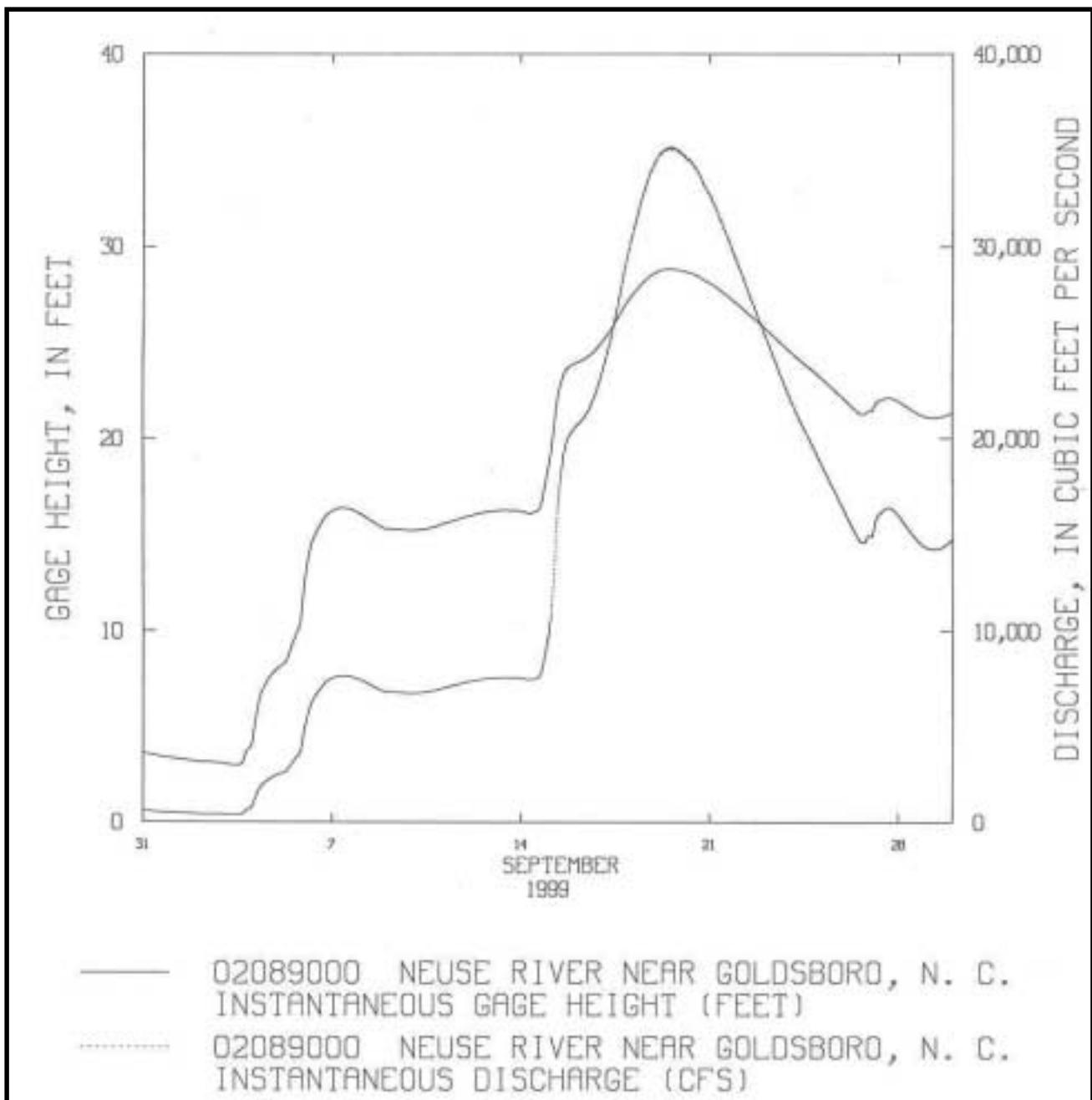
**FIGURE 25**  
**USGS Stream Gage**  
**Neuse River Near Clayton, NC**



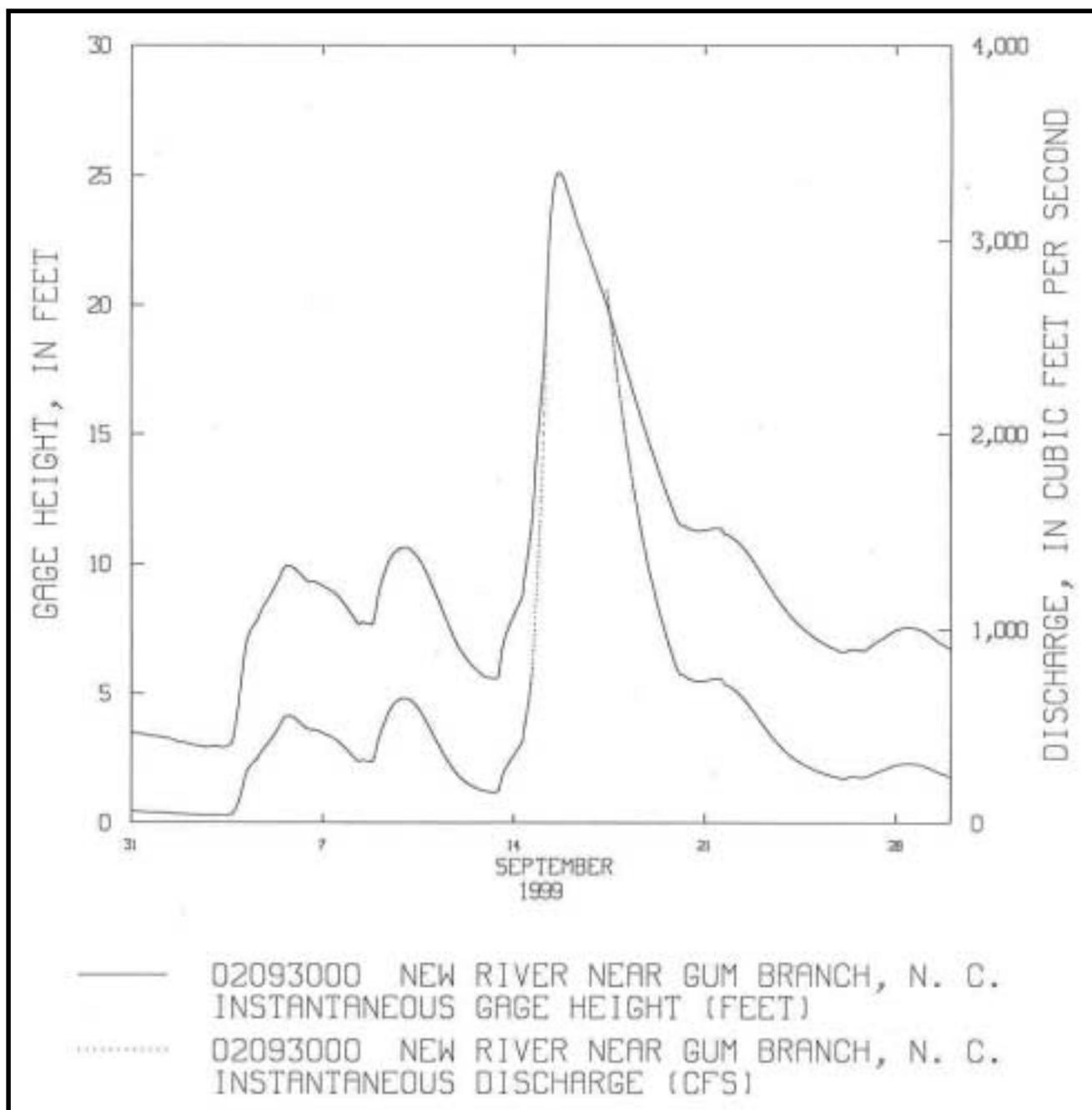
**FIGURE 26**  
**USGS Stream Gage**  
**Neuse River Near Fort Barnwell NC**



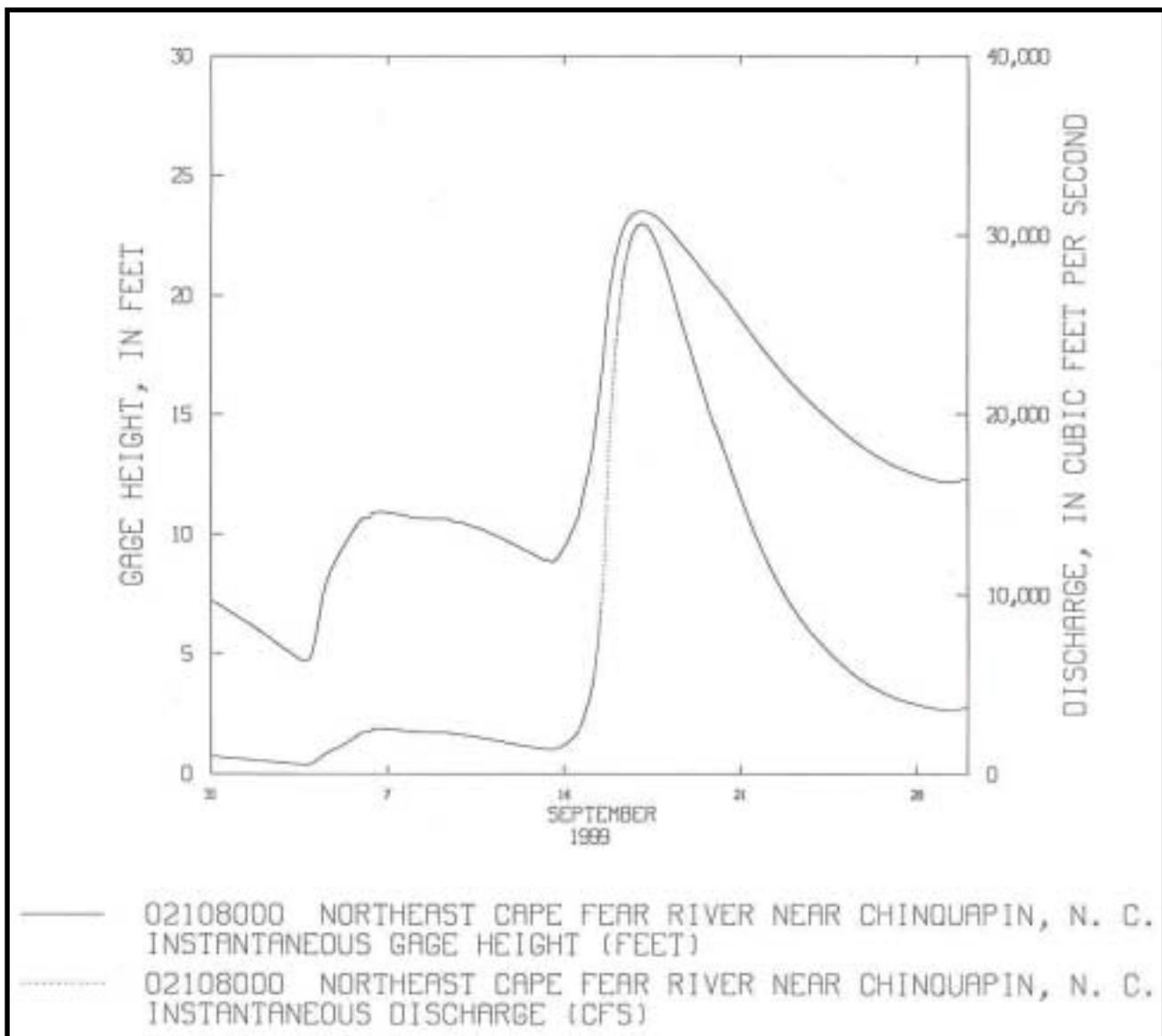
**FIGURE 27**  
**USGS Stream Gage**  
**Neuse River Near Goldsboro, NC**



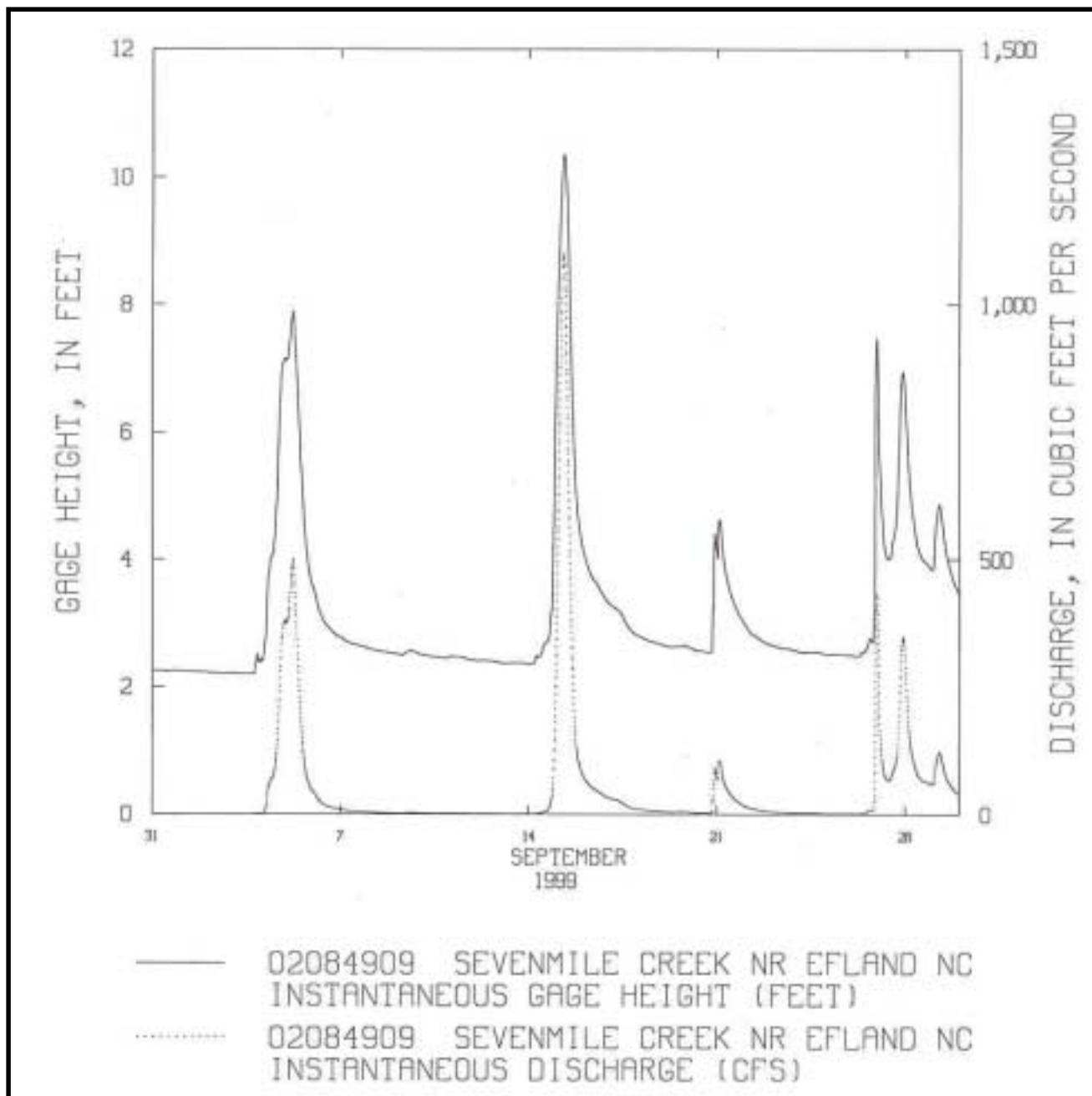
**FIGURE 28**  
**USGS Stream Gage**  
**New River Near Gum Branch, NC**



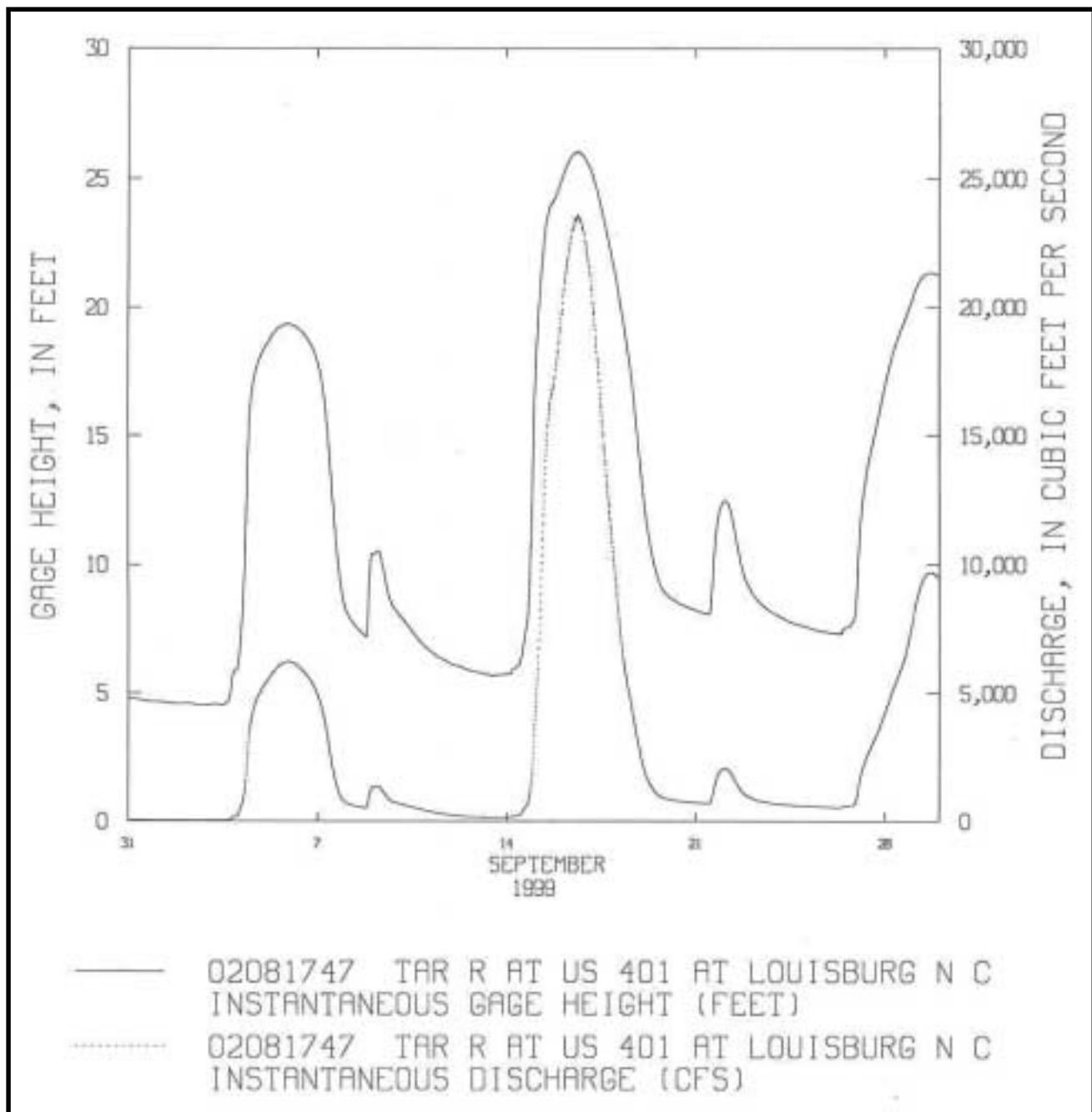
**FIGURE 29**  
**USGS Stream Gage**  
**Northeast Cape Fear River Near Chinquapin, NC**



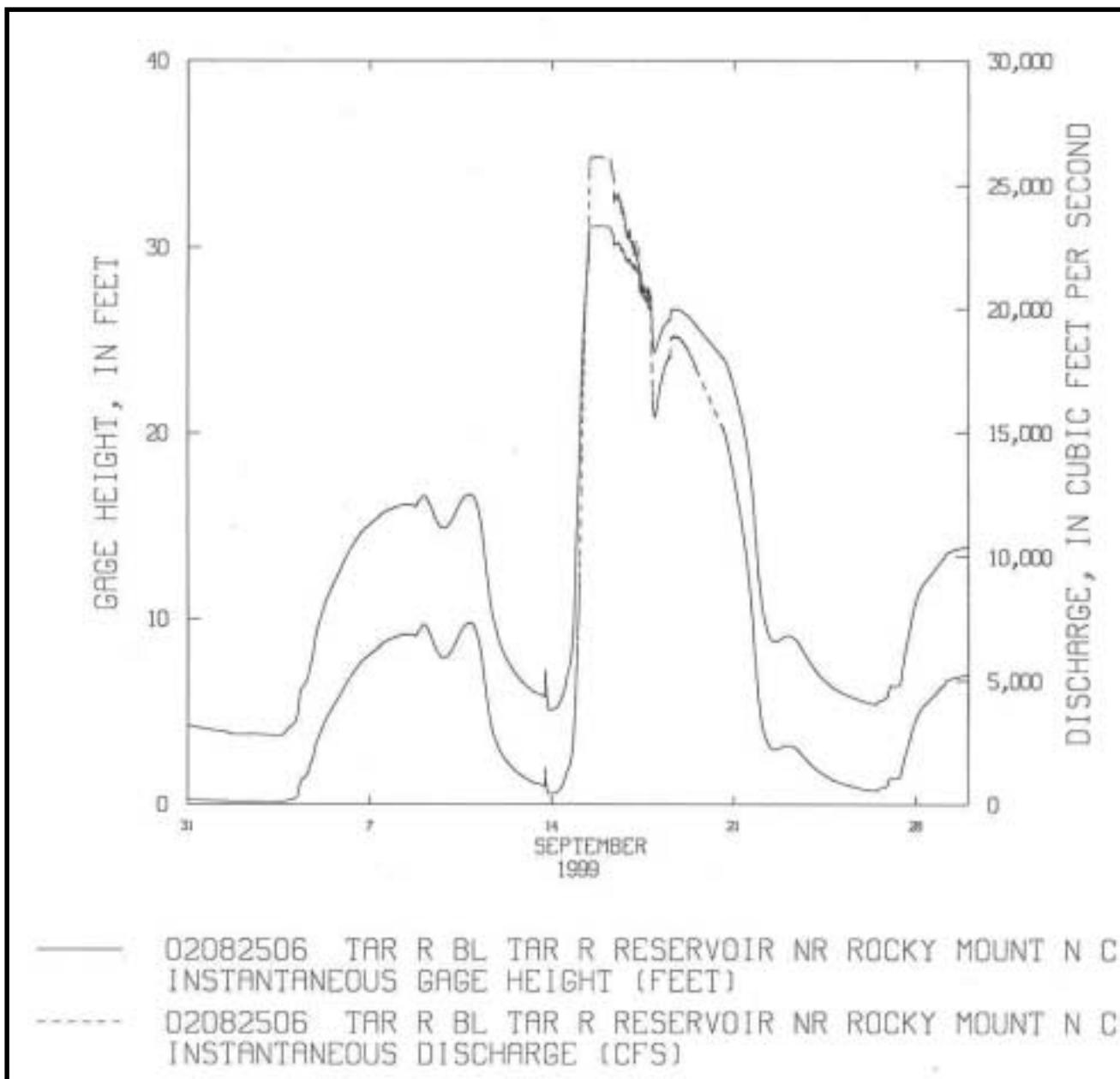
**FIGURE 30**  
**USGS Stream Gage**  
**Sevenmile Creek Nr Efland NC**



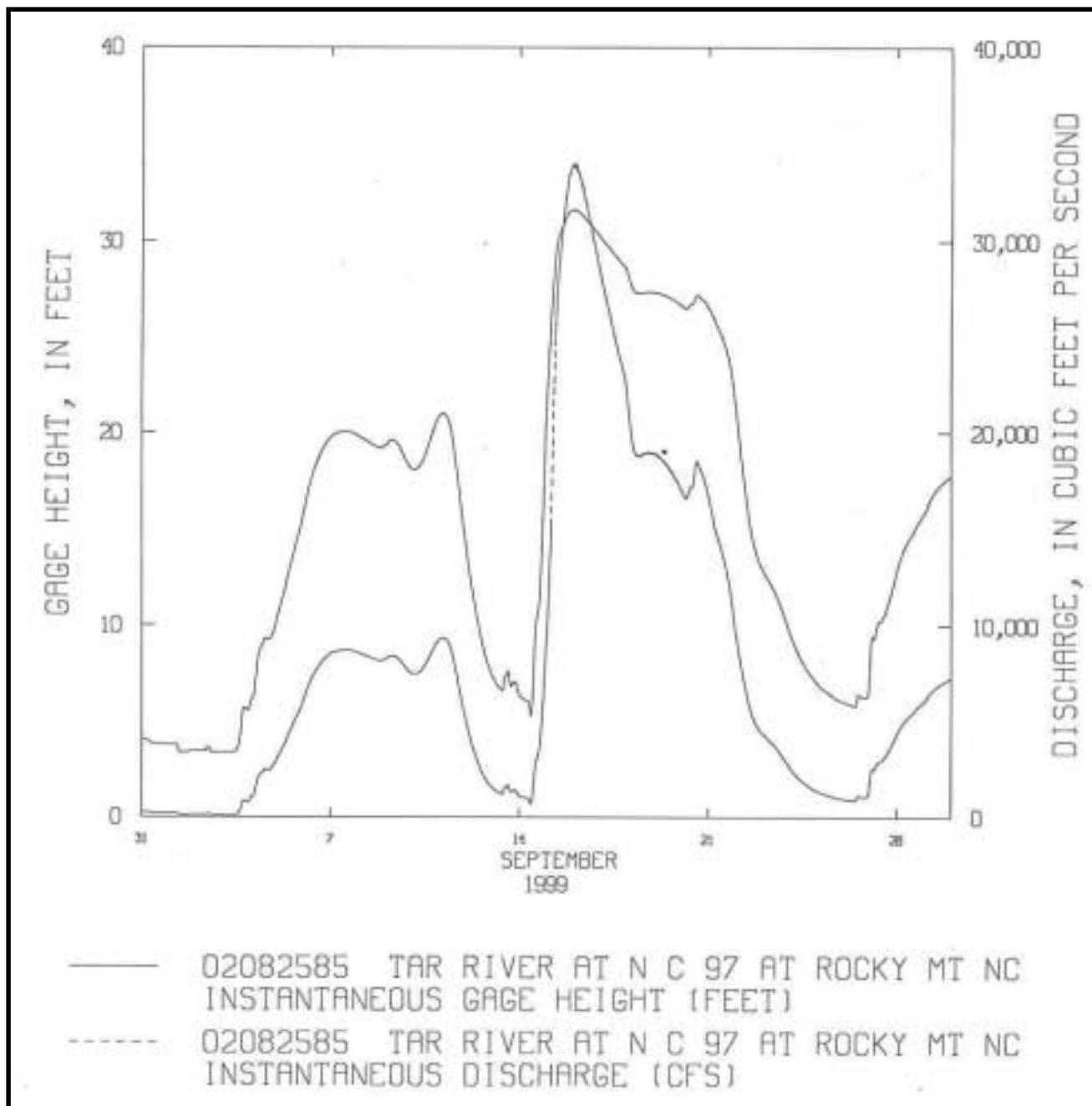
**FIGURE 31**  
**USGS Stream Gage**  
**Tar R At Us 401 At Louisburg NC**



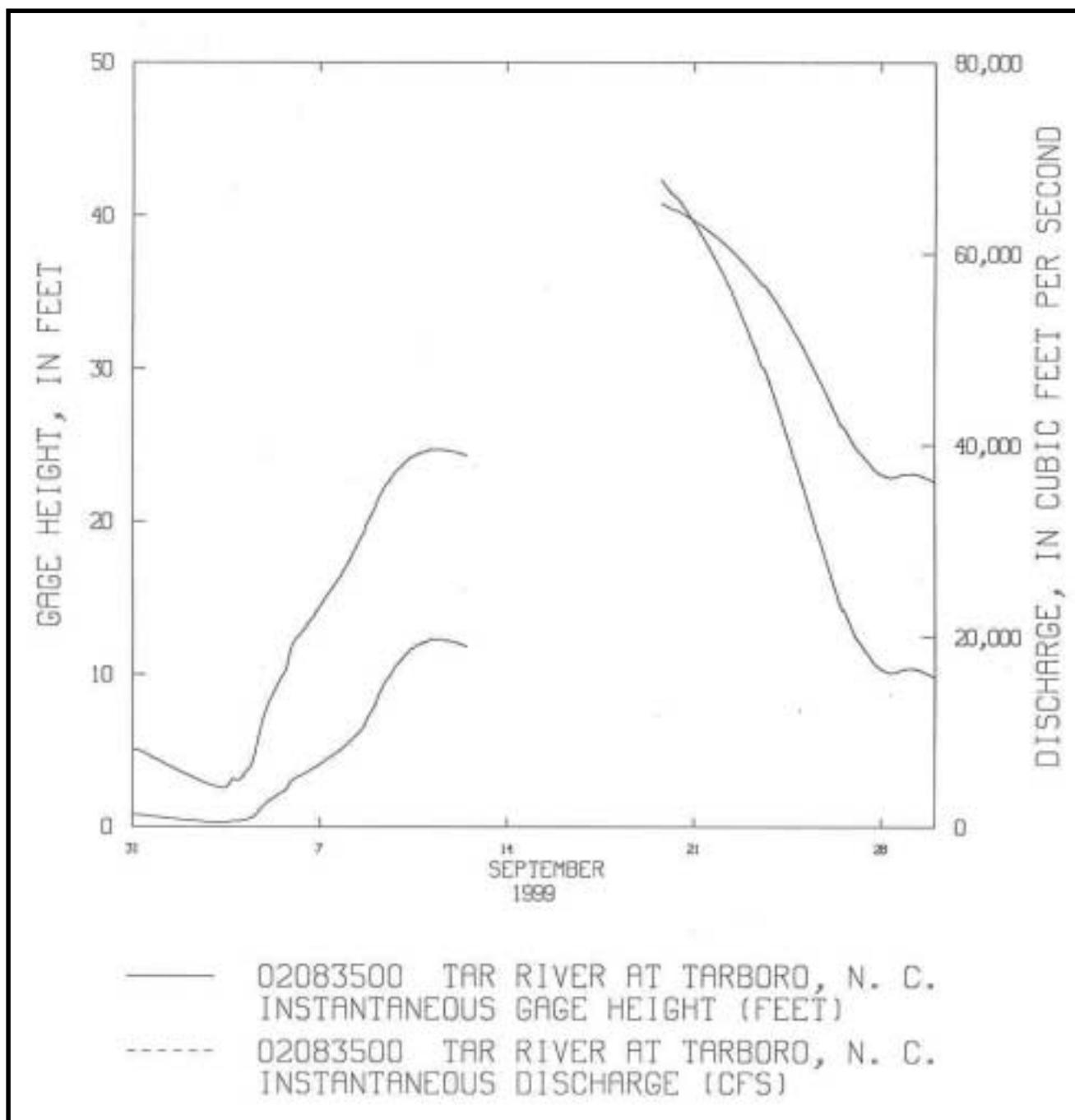
**FIGURE 32**  
**USGS Stream Gage**  
**Tar R Bl Tar R Reservoir Nr Rocky Mount NC**



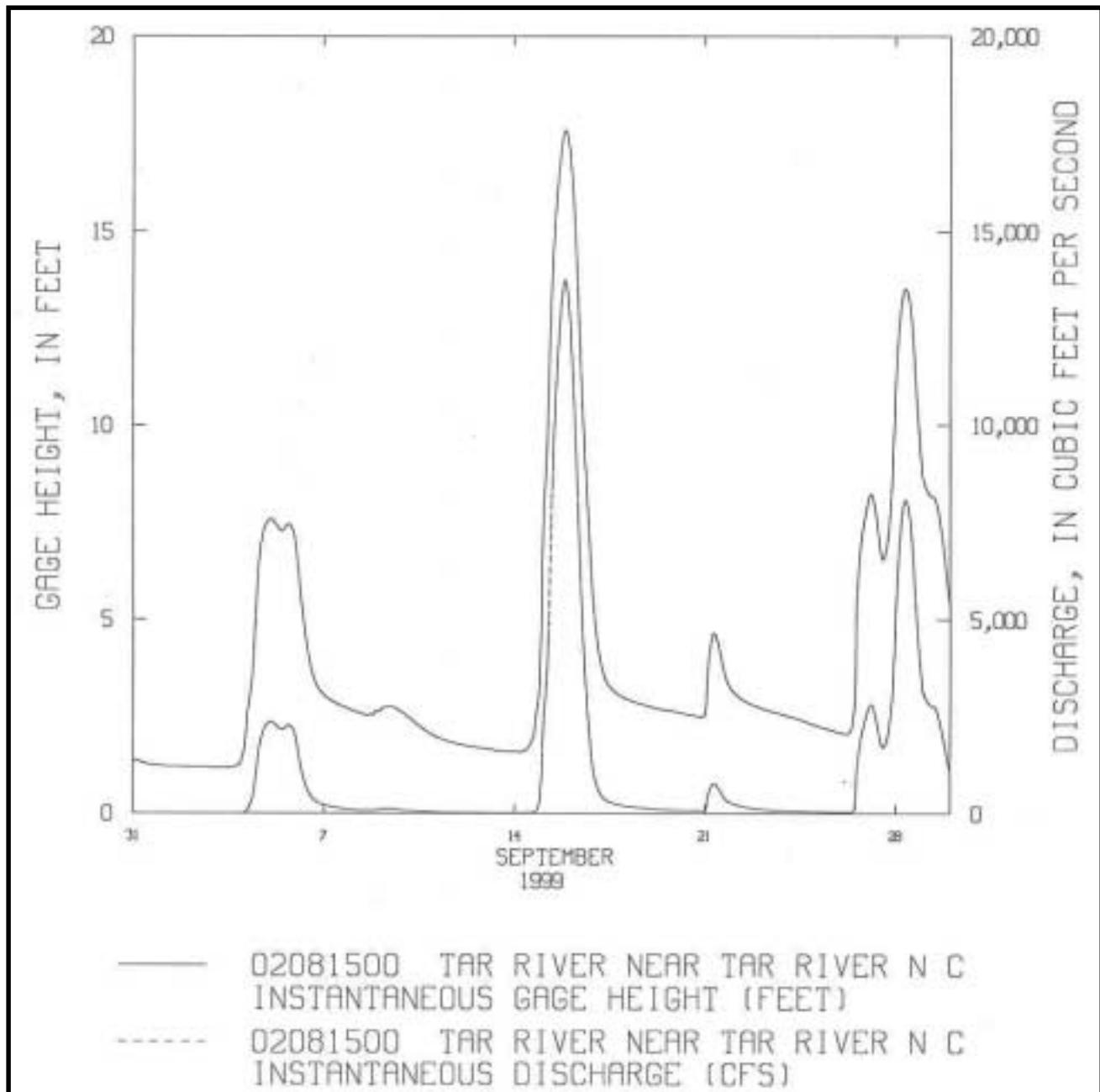
**FIGURE 33**  
**USGS Stream Gage**  
**Tar River At NC 97 At Rocky Mount, NC**



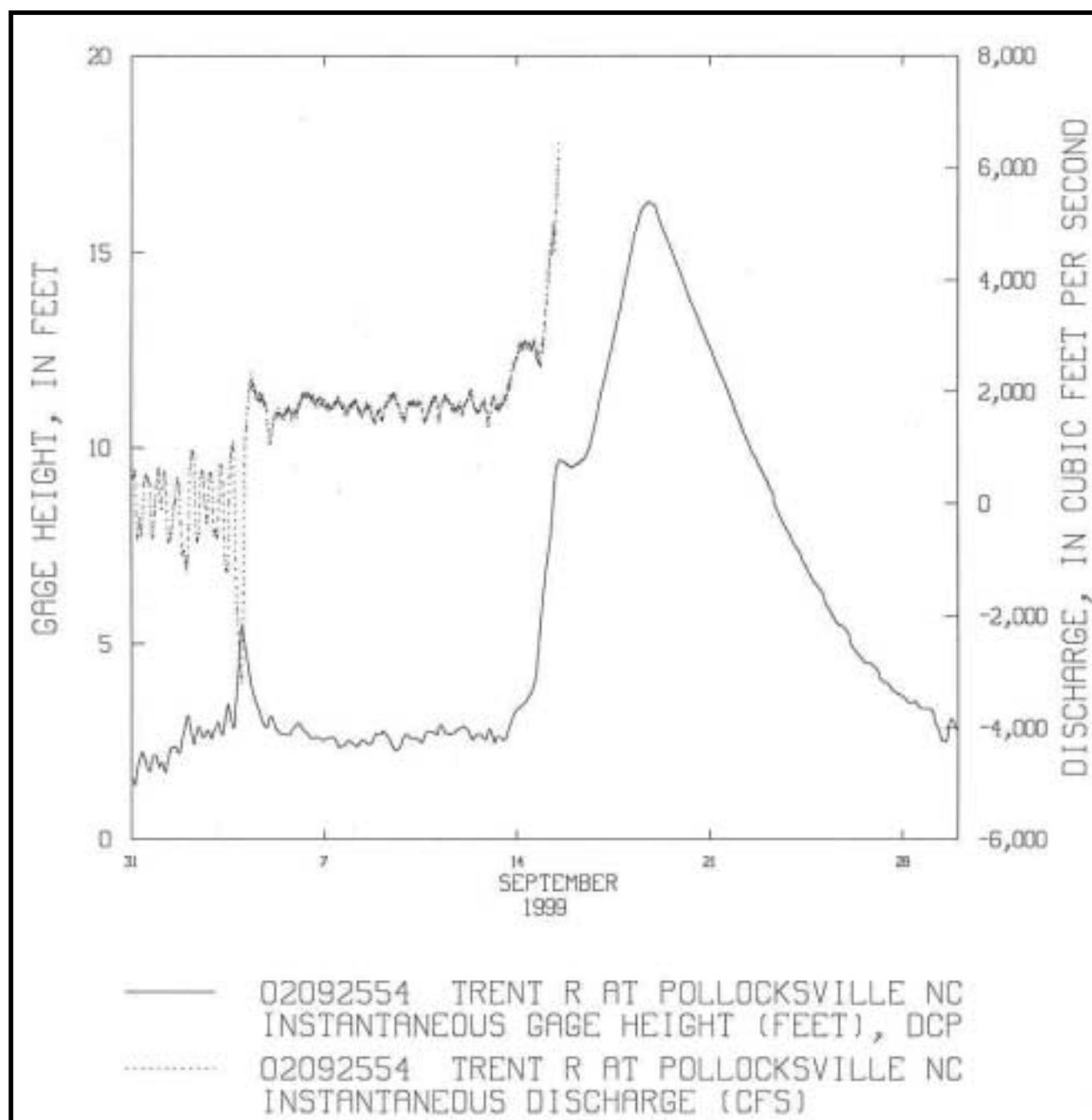
**FIGURE 34**  
**USGS Stream Gage**  
**Tar River At Tarboro, NC**



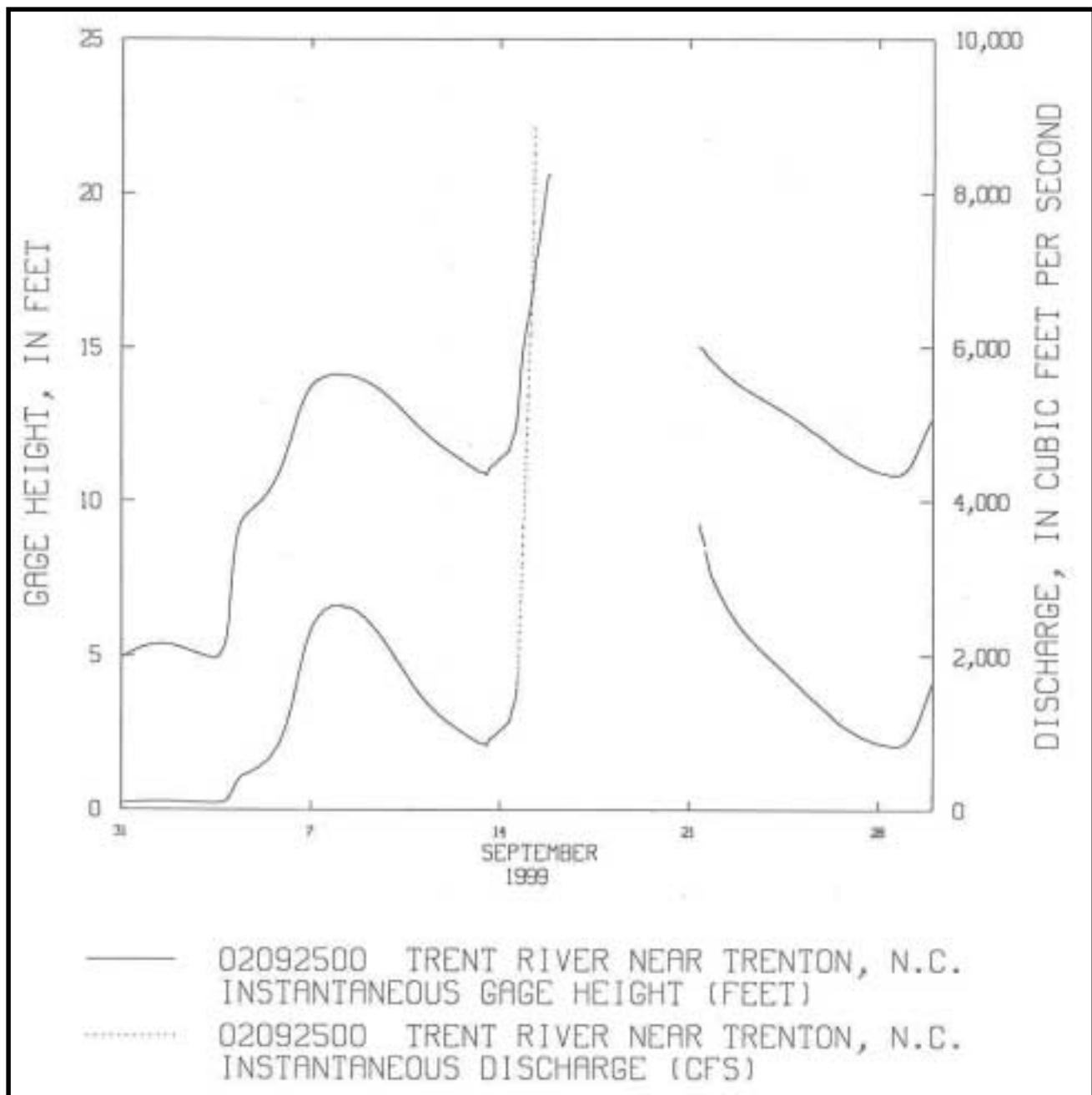
**FIGURE 35**  
**USGS Stream Gage**  
**Tar River Near Tar River NC**



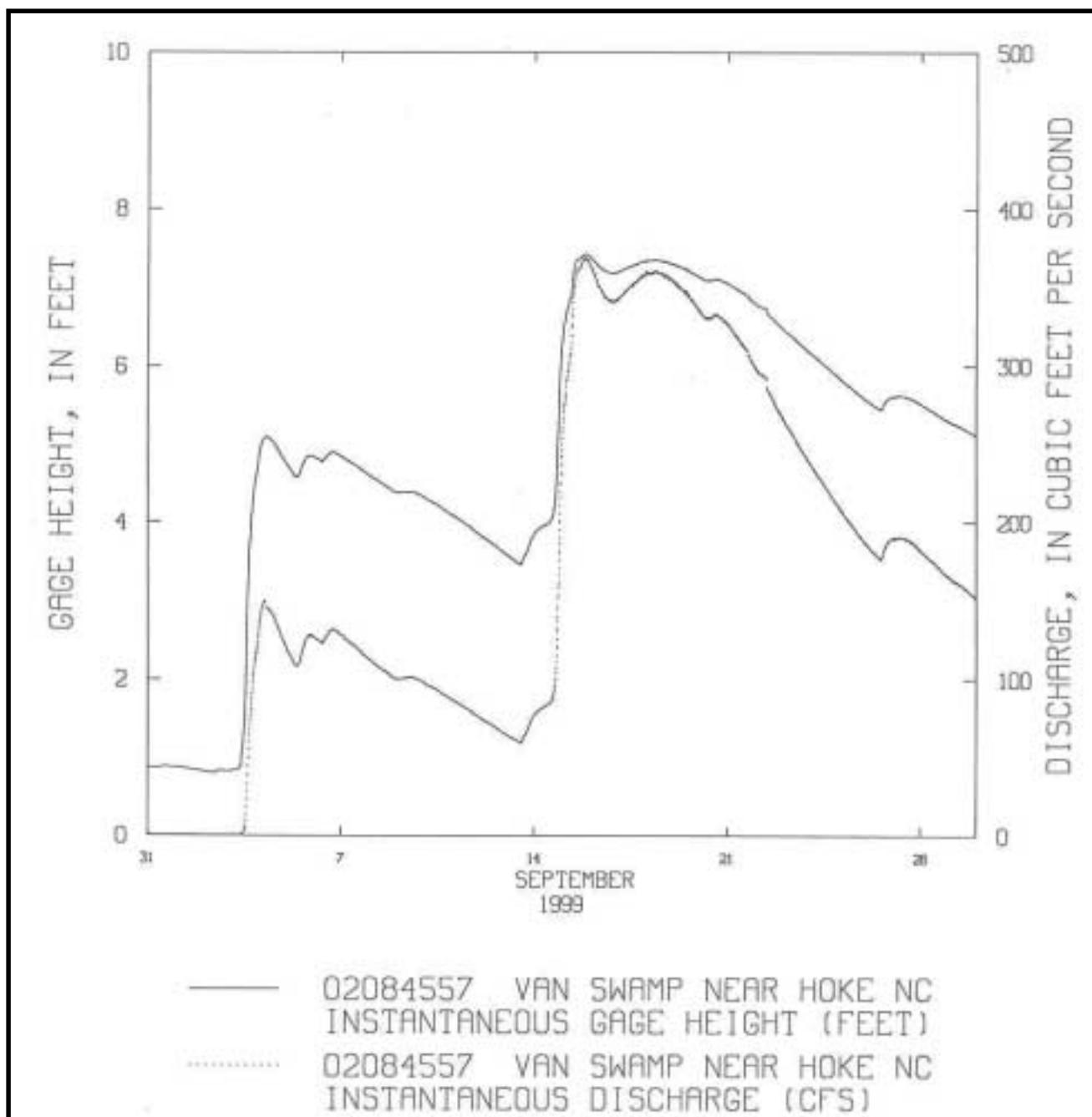
**FIGURE 36**  
**USGS Stream Gage**  
**Trent R At Pollocksville NC**



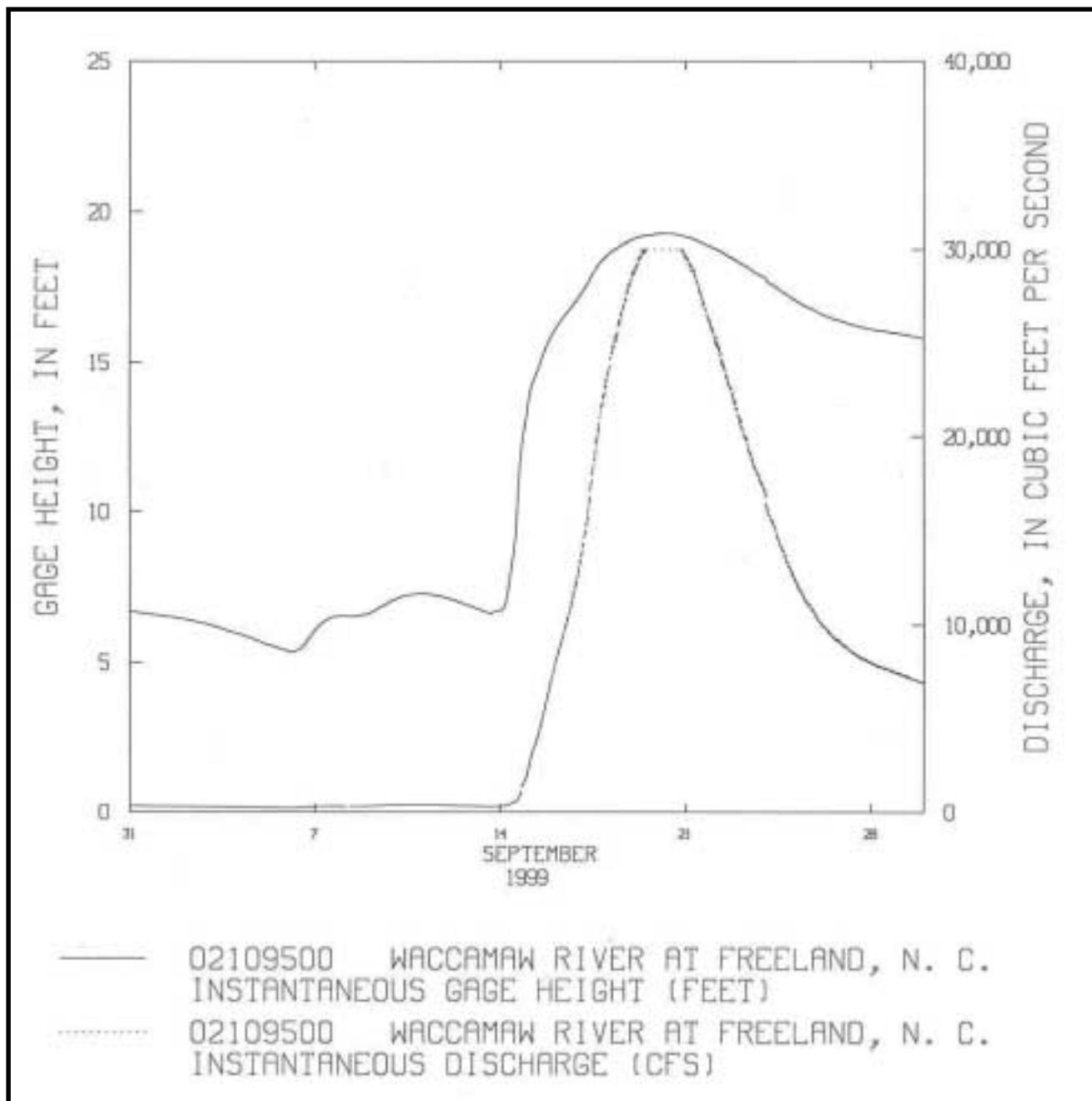
**FIGURE 37**  
**USGS Stream Gage**  
**Trent River Near Trenton, NC**



**FIGURE 38**  
**USGS Stream Gage**  
**Van Swamp Near Hoke, NC**



**FIGURE 39**  
**USGS Stream Gage**  
**Waccamaw River At Freeland, NC**



## **COMPARISON OF HURRICANE FRAN, BONNIE AND FLOYD SURGE**

Hurricane Fran in 1996, Hurricane Bonnie in 1998 and Hurricane Floyd in 1999 all made landfall in the same vicinity. Hurricane Fran made landfall near Carolina Beach, NC and tracked generally up the Cape Fear River and eventually Northwest into the interior part of North Carolina. Hurricane Bonnie made landfall approximately 10 miles south of Carolina Beach near the mouth of the Cape Fear River and again tracked generally up the Cape Fear River impacting much of the same area in Southeastern North Carolina. Hurricane Bonnie turned in a more Northeastern direction and followed the coast of North Carolina impacting the entire coastal area of North Carolina. Hurricane Floyd made landfall near Oak Island in Brunswick County, NC. Near the mouth of the Cape Fear River. The storm tracked in a North to Northeast direction across eastern NC. The storm produced record rainfall and produced record flooding in eastern North Carolina. In order to build a data base and serve as a comparison, attempts were made to obtain high water marks for Hurricane Floyd at some of the same locations as those for Hurricane Fran and Bonnie. Table 5 shows the comparison between Hurricanes Fran, Bonnie and Floyd. Data sheets showing the comparison are included at the end of this report.

**TABLE 5**  
**Hurricanes Fran, Bonnie and Floyd Comparison**

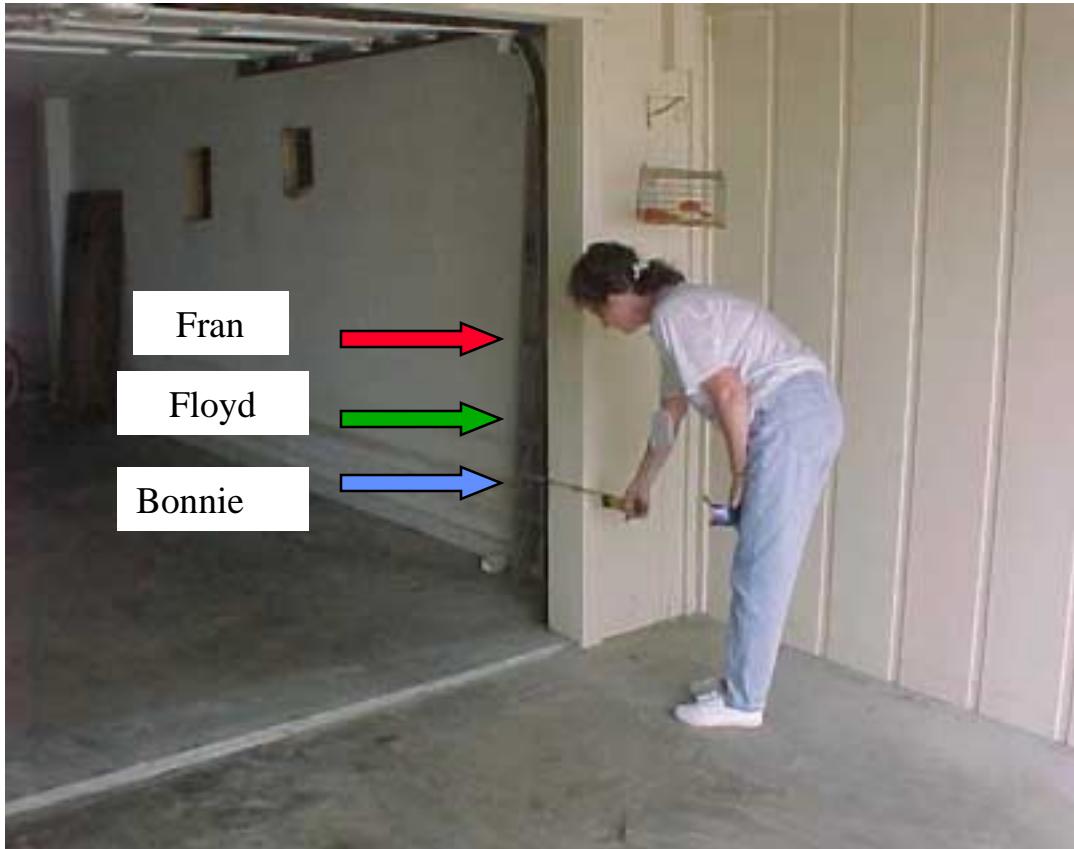
HWM ID	HWM Field Number	Inside(I) or Outside(O)	Type Line	Quadrangle Sheet	Latitude	Longitude	Elevation Hurricane Fran (ft., msl)	Elevation Hurricane Bonnie (ft., msl)	Elevation Hurricane Floyd (ft., msl)
<b>KURE BEACH-CAROLINA BEACH AREA</b>									
1	NH-2FB	O	Mud	Kure Beach	33°57'51.1188"	77°55'17.3182"	8.4	10.5	10.0
2	Hwm2014B	O	Debris	Kure Beach	33°58'10.66001"	77°55'08.05241"	12.5	10.7	
3	NH-60-KBB	I	Water	Kure Beach	33°58'25.92356"	77°54'52.85720"	14.1	13.8	14.0
7	NH-15-FB	I	Water	Carolina Beach	34°02'27.73558"	77°53'24.23328"	10.5	8.1	9.2
9	NH-17EB	O	Water	Carolina Beach	34°03'24.08027"	77°52'56.68776"	10.7	8.4	
10	Hwm2026B	I	Water	Carolina Beach	34°03'29.32635"	77°52'56.16151"	10.0	9.2	10.2
	NH-120-CBF	I	Water	Carolina Beach	34°02'08.4643"	77°53'31.5091"		7.4	9.1
	NH-121-CBF	I	Water	Carolina Beach	34°02'08.9644"	77°53'32.0965"		7.7	9.0
11	NH-63-CBB	I	Mud	Carolina Beach	34°00'58.80906"	77°53'57.52466"	10.1	8.0	9.0
<b>SOUTHERN NEW HANOVER COUNTY</b>									
12	NH-49-NHB	I	Mud	Wrightsville Beach	34°07'54.80"	77°52'10.95"	11.1	9.0	
13	NH-70-NHB	O	Debris	Wrightsville Beach	34°09'22.35"	77°51'22.47"	11.1	9.2	10.3
14	NH-55-NHB	I	Water	Wrightsville Beach	34°09'22.38"	77°51'26.04"	11.2	8.8	
15	NH-58-WIB	I	Water	Wrightsville Beach	34°11'19.92"	77°52'06.30"	11.1	8.4	
16	NH-57-WIB	I	Mud	Wrightsville Beach	34°01'28.7605"	77°53'47.7523"	10.9	8.0	9.0
17	NH-69-NHB	I	Mud	Wrightsville Beach	34°12'48.78"	77°49'54.72"	10.9	8.1	9.7
<b>WRIGHTSVILLE SOUND-WRIGHTSVILLE BEACH AREA</b>									
18	NH-75-WBB	O	Debris	Wrightsville Beach	34°12'50.40"	77°49'04.56"	10.6	7.3	
19	NH-74-WBB	O	Debris	Wrightsville Beach	34°12'56.69"	77°48'56.23"	10.7	7.3	
20	NH-72-WBB	O	Mud	Wrightsville Beach	34°13'00.29"	77°48'53.53"	10.5	8.1	
21	NH-76-WBB	O	Water	Wrightsville Beach	34°13'05.61"	77°48'47.99"	10.8	8.3	
22	NH-23-WBB	O	Debris	Wrightsville Beach	34°13'08.96"	77°48'49.95"	10.1	8.1	
25	NH-32-GB	O	Water	Wrightsville Beach	34°11'20.5312"	77°48'44.1526"	10.3	8.2	

**TABLE 5**  
**Hurricanes Fran, Bonnie and Floyd Comparison**

HWM ID	HWM Field Number	Inside(I) or Outside(O)	Type Line	Quadrangle Sheet	Latitude	Longitude	Elevation Hurricane Fran (ft., msl)	Elevation Hurricane Bonnie (ft., msl)	Elevation Hurricane Floyd (ft., msl)
28	NH-54-WBB	O	Mud	Wrightsville Beach	34°11'31.7886"	77°48'30.2408"	10.2	7.2	
30	NH-30-EB	O	Mud	Wrightsville Beach	34°13'11.69381"	77°47'19.63218"	10.3	7.1	
31	NH-19-GB	O	Water	Wrightsville Beach	34°14'06.55221"	77°46'35.44718"	10.4	7.4	
<b>NORTHERN NEW HANOVER COUNTY</b>									
32	NH-81-MSB	I	Water	Scotts Hill	34°15'30.12"	77°46'47.10"	11.3	8.6	9.1
33	NH-84-MSB	O	Debris	Scotts Hill	34°16'31.52"	77°46'45.81"	11.5	7.4	
	NH-85-MSF	I	Water	Scotts Hill	34°15'55.32"	77°46'23.22"	11.1		9.0
34	NH-88-PNB	O	Trash	Scotts Hill	34°16'35.52"	77°47'30.24"	11.3	6.0	
35	NH-87-PNB	O	Trash	Scotts Hill	34°16'36.72"	77°45'42.18"	11.3	7.6	
36	NH-86-MSB	I	Mud	Scotts Hill	34°16'37.98"	77°48'01.92"	12.1	7.9	
37	NH-86A-MSB	O	Mud	Scotts Hill	34°16'38.10"	77°47'58.38"	11.3	7.4	
38	NH-89-PNB	O	Debris	Scotts Hill	34°18'00.72"	77°44'33.48"	12.1	8.2	
<b>FIGURE EIGHT ISLAND</b>									
39	NH-101-PNB	O	Debris	Scotts Hill	34°16'17.78"	77°44'54.24"	10.9	7.6	
40	NH-105-PNB	O	Debris	Hampstead	34°16'23.58"	77°44'28.92"	10.4	7.2	
<b>PENDER COUNTY, NC</b>									
41	PEN-90-SCB	O	Debris	Hampstead	34°18'42.53"	77°43'53.62"	11.3	7.2	
42	PEN-92WAIB	O	Debris	Hampstead	34°20'26.64"	77°42'21.60"	11.4	7.7	
43	PEN-93-WAB	O	Debris	Hampstead	34°20'52.20"	77°42'23.40"	11.6	7.6	
44	PEN-94-HAB	O	Debris	Hampstead	34°21'20.82"	77°41'08.34"	11.7	7.0	
45	PEN-95-OPB	O	Debris	Hampstead	34°22'17.90"	77°40'04.27"	11.2	6.0	
46	PEN-97-OPB	O	Debris	Hampstead	34°22'16.98"	77°39'21.36"	11.1	7.0	
47	PEN-99-SPB	O	Debris	Topsail	34°23'22.56"	77°37'48.96"	9.1	5.6	

**TABLE 5**  
**Hurricanes Fran, Bonnie and Floyd Comparison**

HWM ID	HWM Field Number	Inside(I) or Outside(O)	Type Line	Quadrangle Sheet	Latitude	Longitude	Elevation Hurricane Fran (ft., msl)	Elevation Hurricane Bonnie (ft., msl)	Elevation Hurricane Floyd (ft., msl)
<b>TOPSAIL ISLAND - TOPSAIL BEACH, NC</b>									
48	A3B	O	Debris	Hampstead	34°21'08.70"	77°39'00.42"	9.5	5.8	
<b>SURF CITY, NC</b>									
60	F2B	O	Debris	Holly Ridge	34°26'15.54"	77°31'39.72"	7.2	5.1	
<b>ONSLOW COUNTY, NC</b>									
70	ON-3AB	O	Debris	Holly Ridge	34°28'19.92"	77°30'34.20"	6.9	4.1	
71	ON-4AB	O	Debris	Spicer Bay	34°29'12.90"	77°28'36.90"	8.1	3.4	
72	ON-6AB	O	Debris	Sneads Ferry	34°31'20.82"	77°25'27.24"	8.1	3.9	
73	ON-8AB	O	Debris	New River Inlet	34°32'35.82"	77°21'40.32"	7.3	4.2	
<b>SWANSBORO, NC</b>									
74	hwm3001	O	Debris	Swansboro	34°41'16.16202"	77°07'01.835	8.1	7.9	
75	CAR-109SWB	O	Mud	Swansboro	34°40'42.54"	77°06'30.72"	7.2	5.0	
76	ON-12FB	O	Mud	Swansboro	34°41'13.68"	77°07'12.96"	8.4	6.3	
77	ON-10FB	I	Mud	Swansboro	34°41'12.30"	77°07'05.28"	7.9	7.1	
78	ON-11FB	O	Debris	Swansboro	34°41'15.66"	77°07'01.80"	8.6	7.5	
<b>EMERALD ISLE, NC</b>									
79	CAR-102EIB	O	Debris	Swansboro	34°40'00.42"	77°03'46.52"	7.0	6.1	

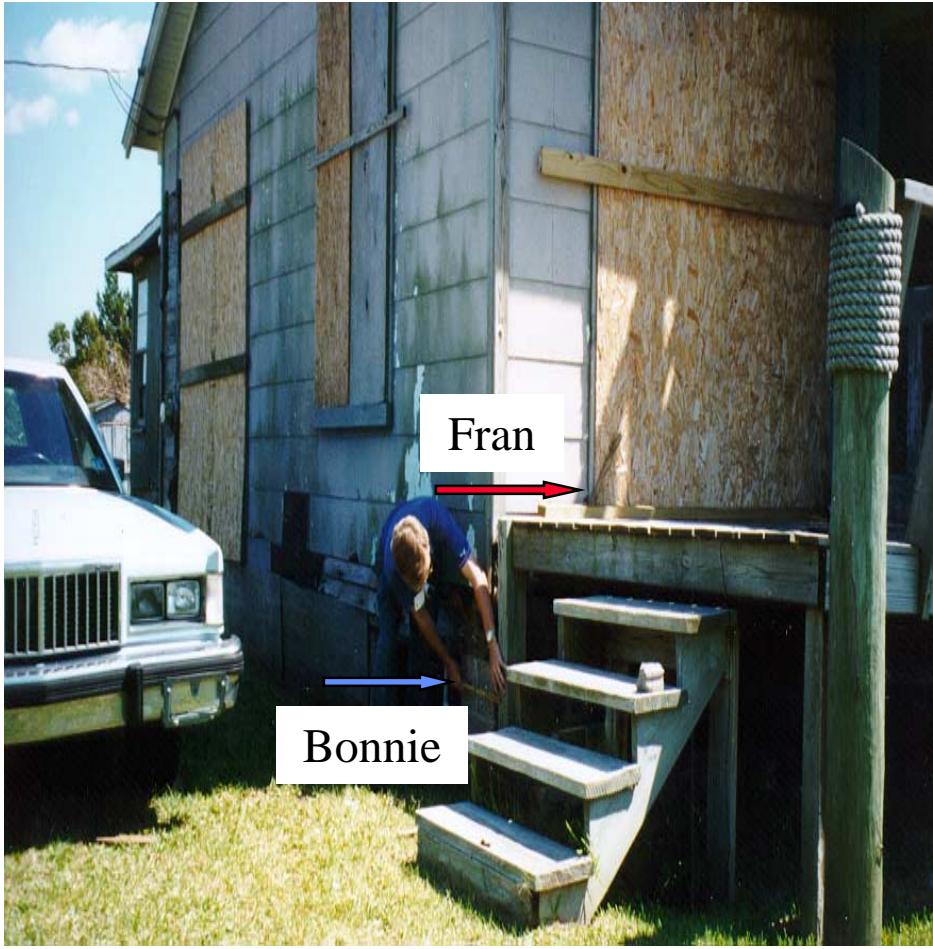


## Hurricane Comparisons

<b>HWM Number:</b>	2026	<b>Taken By:</b>	Corps of Engineers
<b>HWM Elevation (ft, msl):</b>	Fran: 10.0	Bonnie: 9.2	Floyd: 10.2
<b>Latitude:</b>	34° 03'29.32635"	<b>Longitude:</b>	77° 52'56.16151"
<b>HWM Type:</b>	Water/Debris Line	<b>Outside or Inside:</b>	Inside
<b>USGS 7.5 minute Quadrangle Sheet:</b> Carolina Beach, NC			
<b>Nearest Town:</b>	Carolina Beach, NC		
<b>Address:</b>	Breakers Apt Bldg A Apt 4		
<b>Remarks:</b>	High Water Marks are on garage wall next to door.		



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Wilmington District**



## Hurricane Comparisons

HWM Number:	CAR-109-SW	Taken By:	Corps of Engineers		
HWM Elevation (ft, msl):	Fran: 7.2	Bonnie:	5.0		
Latitude:	34° 40'42.54"	Longitude:	76° 06'30.72		
HWM Type:	Mud Line	Outside or Inside:	Outside		
USGS 7.5 minute Quadrangle Sheet:		Swansboro, NC			
Nearest Town:	Swansboro, NC				
Address:	Hwy 24 near wildlife access ramp approximately 1 mile east of Swansboro				
Remarks:	House is across from boat ramp. Address on round piling "1048".				



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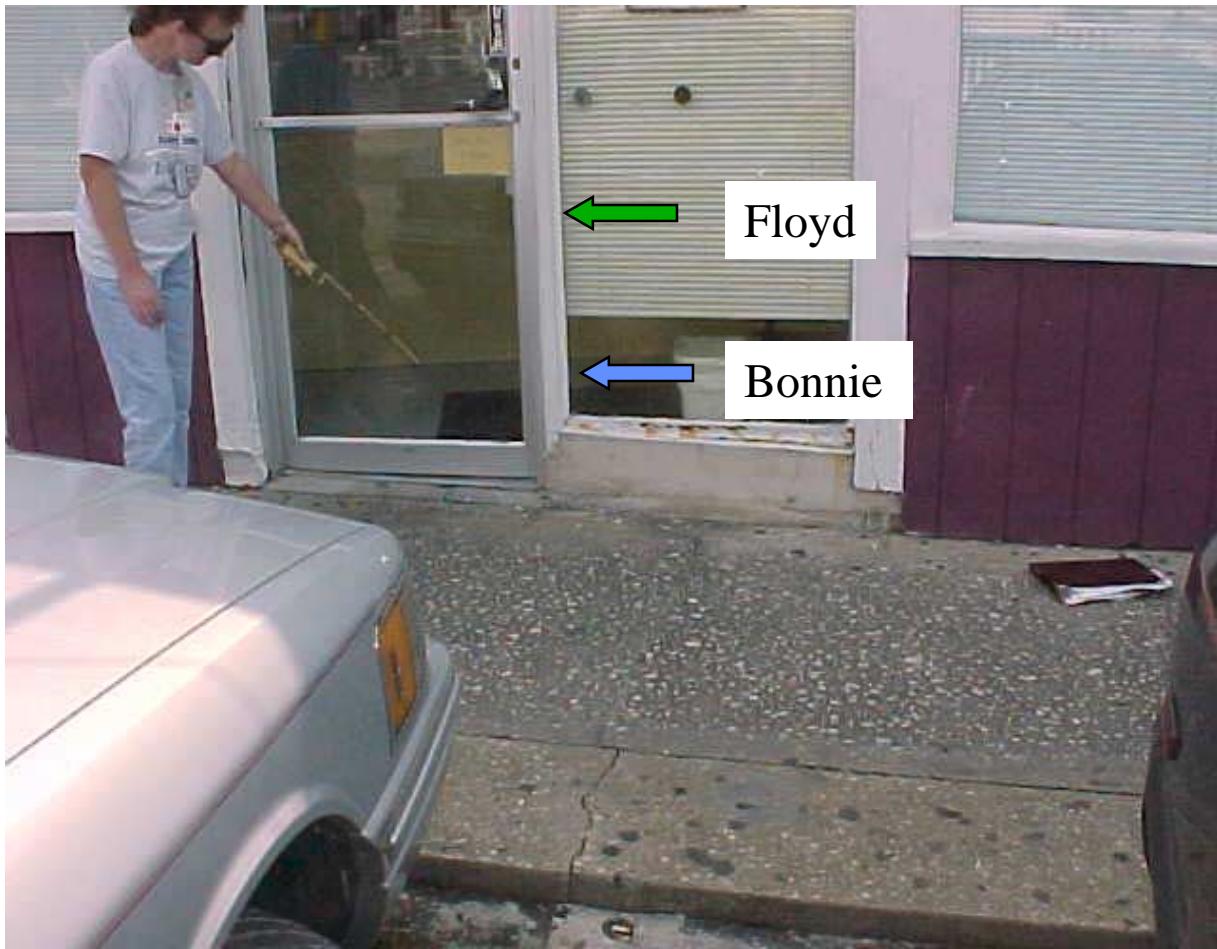


## Hurricane Comparisons

<b>HWM Number:</b>	F-2	<b>Taken By:</b>	Corps of Engineers
<b>HWM Elevation (ft, msl):</b>	5.1	<b>Date Taken:</b>	08 Sept 1998
<b>Latitude:</b>	34° 26'15.54"	<b>Longitude:</b>	77° 31'39.72"
<b>HWM Type:</b>	Debris Line	<b>Outside or Inside:</b>	Outside
<b>USGS 7.5 minute Quadrangle Sheet:</b>		Holly Ridge, NC	
<b>Nearest Town:</b>		Surf City, NC	
<b>Address:</b>		1114 New River Drive	
<b>Remarks:</b> High water marks were on entrance foyer door above garage slab.			



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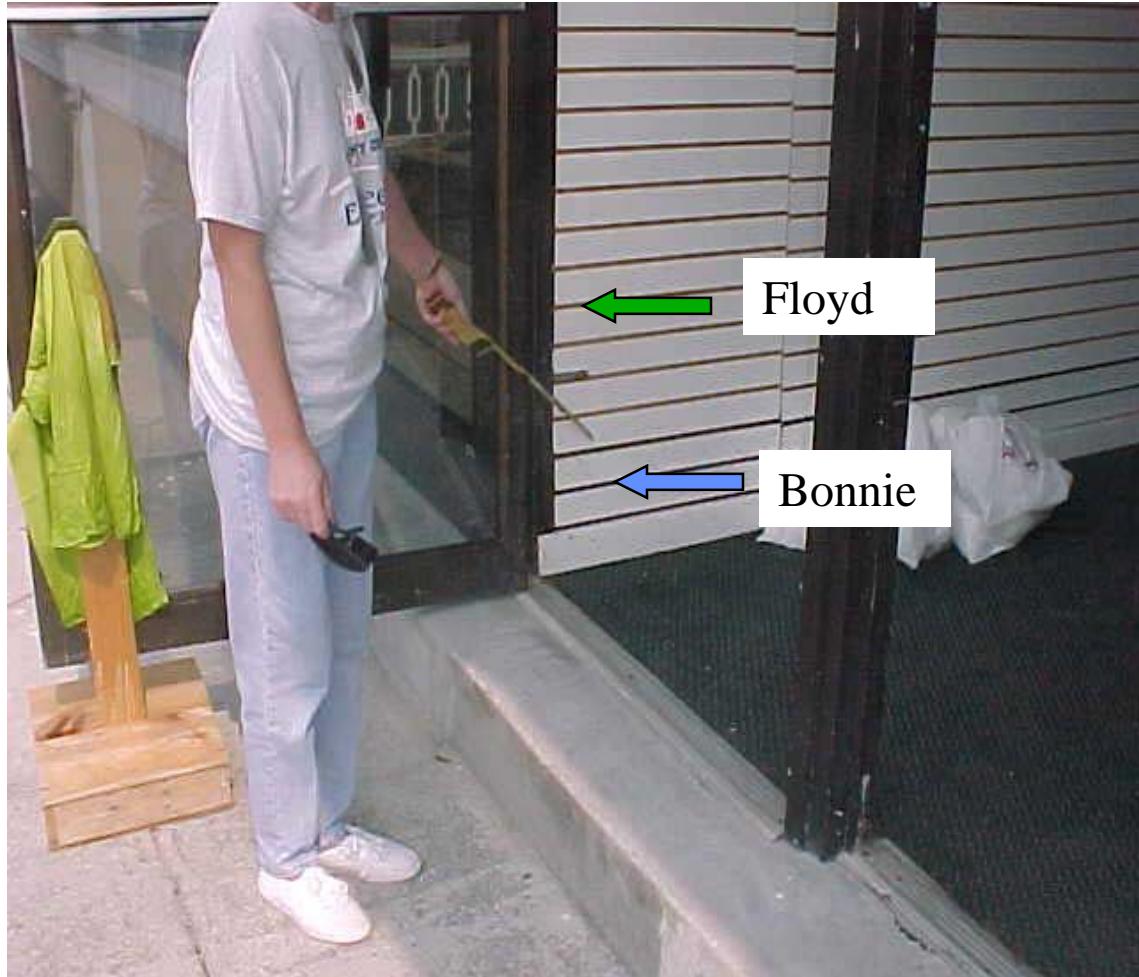


## Hurricane Comparisons

HWM Number:	NH-120CB	Taken By:	Corps of Engineers		
HWM Elevation (ft, msl):	Bonnie: 7.4	Floyd:	9.1		
Latitude:	34° 02'08.4643"	Longitude:	77° 53'31.5091"		
HWM Type:	Water/Debris	Outside or Inside:	Inside		
USGS 7.5 minute Quadrangle Sheet:		Carolina Beach, NC			
Nearest Town:	Carolina Beach, NC				
Address:	202 Harper Street				
Remarks:	Water/Debris line on front entrance door to "New Orleans Snowball Shop".				



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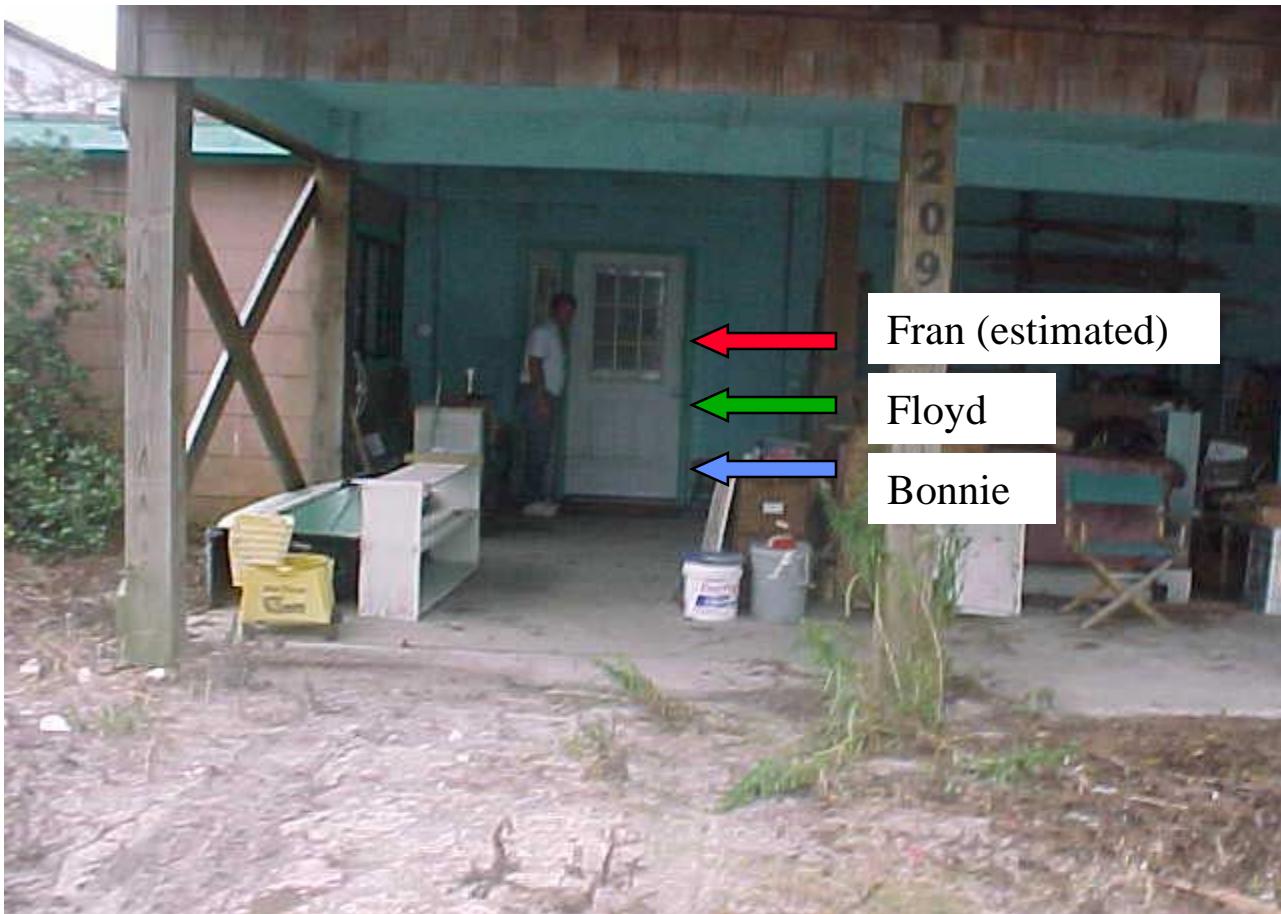


## Hurricane Comparisons

HWM Number:	NH-121CB	Taken By:	Corps of Engineers		
HWM Elevation (ft, msl):	Bonnie: 7.7	Floyd:	9.0		
Latitude:	34° 02'08.9644"	Longitude:	77° 53'32.0965"		
HWM Type:	Water/Debris	Outside or Inside:	Inside		
USGS 7.5 minute Quadrangle Sheet:		Carolina Beach, NC			
Nearest Town:	Carolina Beach, NC				
Address:	Great Mistakes Clothing Store - Harper Street				
Remarks:	High Water Marks are on wall and front glass.				



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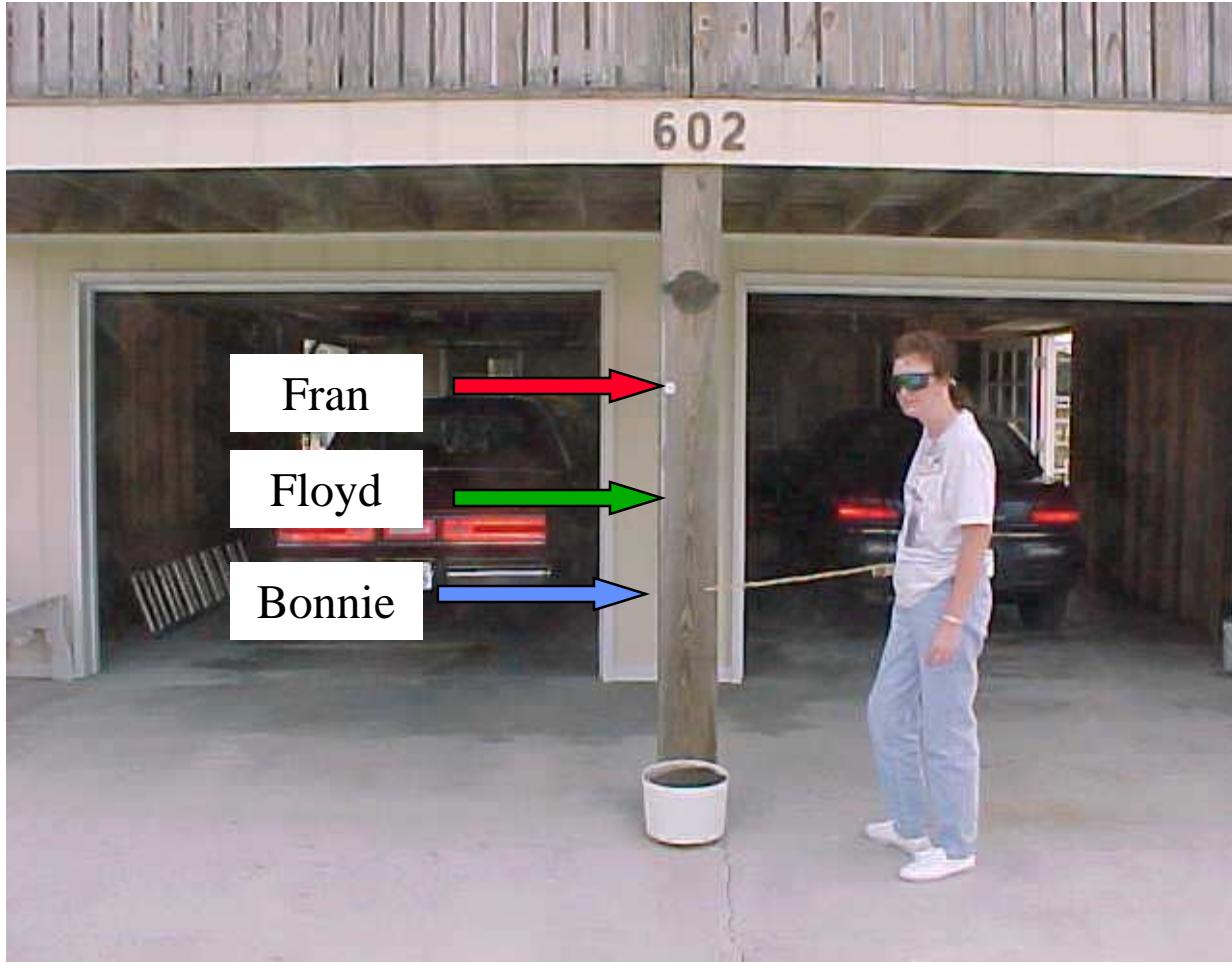


## Hurricane Comparisons

<b>HWM Number:</b>	NH-132WB	<b>Taken By:</b>	Corps of Engineers		
<b>HWM Elevation (ft, msl):</b>	<b>Bonnie:</b> 7.4	<b>Floyd:</b>			
<b>Latitude:</b>	34° 11'24.683"	<b>Longitude:</b>	77° 48'34.9645"		
<b>HWM Type:</b>	Trash/Debris/Water	<b>Outside or Inside:</b>	Outside		
<b>USGS 7.5 minute Quadrangle Sheet:</b>		Wrightsville Beach, NC			
<b>Nearest Town:</b>	Wrightsville Beach, NC				
<b>Address:</b>	209 Water Street				
<b>Remarks:</b>	High Water Marks are Trash line on door to ground level apartment.				



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Wilmington District**

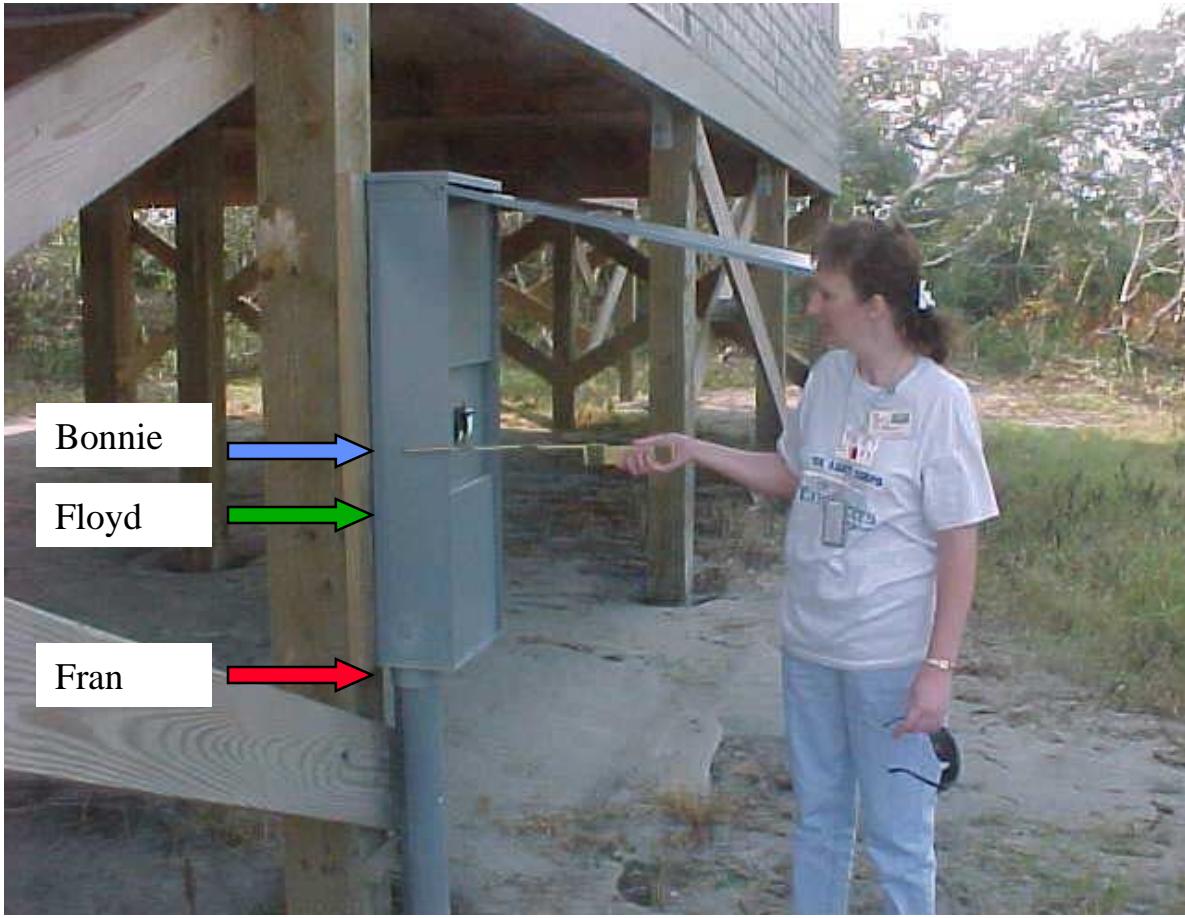


## Hurricane Comparisons

HWM Number:	NH-15F	Taken By:	Corps of Engineers		
HWM Elevation (ft, msl):	Fran: 10.5	Bonnie: 8.1	Floyd: 9.2		
Latitude:	34° 02'27.7355"	Longitude:	77° 53'24.2333"		
HWM Type:	Debris/Water	Outside or Inside:	Inside		
USGS 7.5 minute Quadrangle Sheet:		Carolina Beach, NC			
Nearest Town:	Carolina Beach, NC				
Address:	602 Canal Drive				
Remarks:	High water marks were located inside garage and transferred to outside piling.				



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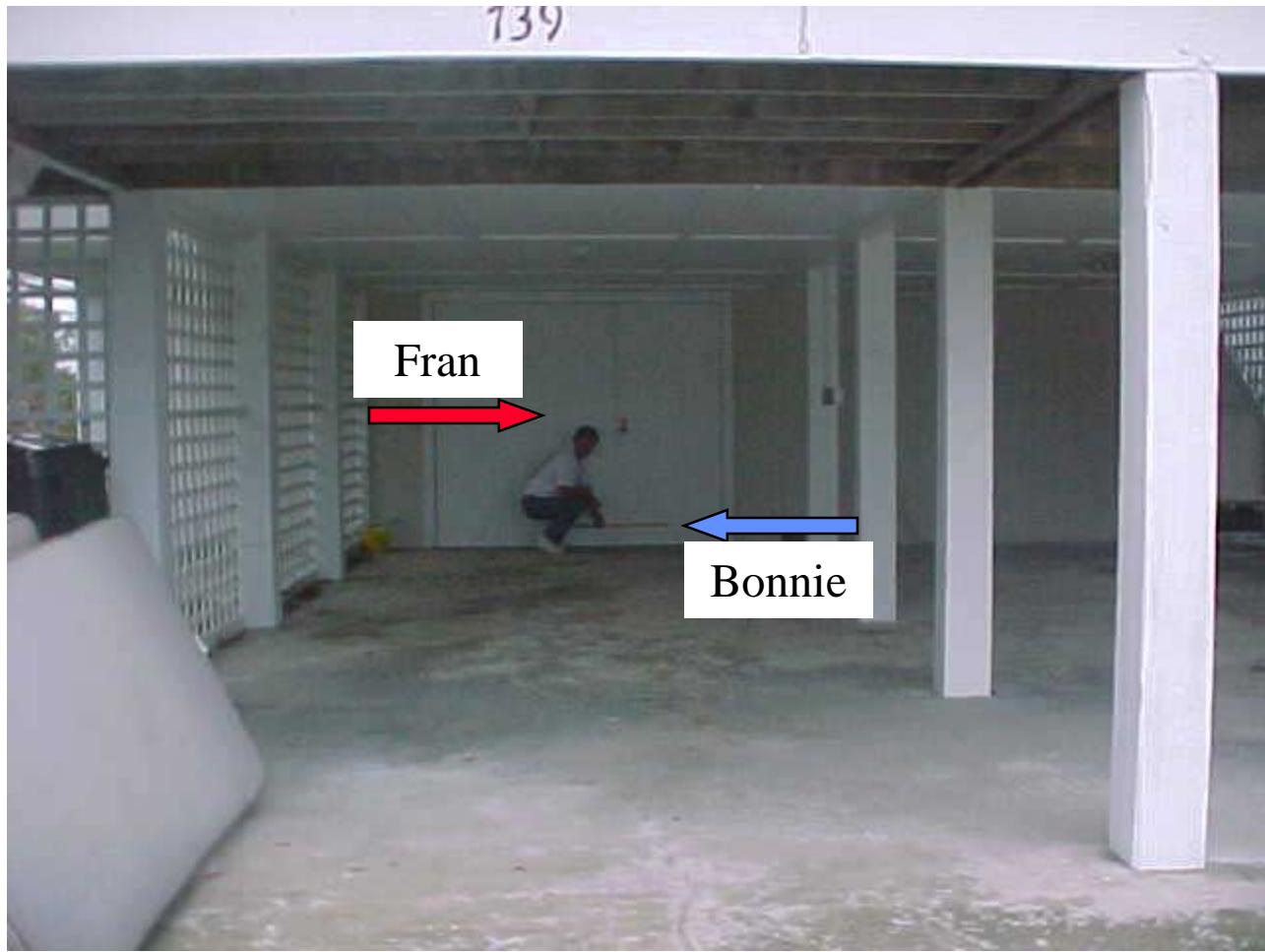


## Hurricane Comparisons

<b>HWM Number:</b>	NH-2F	<b>Taken By:</b>	Corps of Engineers
<b>HWM Elevation (ft, msl):</b>	Fran: 8.4	Bonnie: 10.5	Floyd: 10.0
<b>Latitude:</b>	33° 57' 51.1188"	<b>Longitude:</b>	77° 55' 17.3182
<b>HWM Type:</b>	Mud Line/Wash Line	<b>Outside or Inside:</b>	Outside
<b>USGS 7.5 minute Quadrangle Sheet:</b>		Carolina Beach, NC	
<b>Nearest Town:</b>		Carolina Beach, NC	
<b>Address:</b>		Ft. Fisher State Recreation Facility, US421, Kure Beach, NC	
<b>Remarks:</b> Fran High Water Mark transferred from other location. Floyd mark transferred from rear of building. Electrical Breaker Panel has been moved. Bottom of building has been enclosed.			



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## Hurricane Comparisons

<b>HWM Number:</b>	NH-54WB	<b>Taken By:</b>	Corps of Engineers
<b>HWM Elevation (ft, msl):</b>	Fran: 10.2	Bonnie: 7.2	
<b>Latitude:</b>	34° 11'31.7886"	<b>Longitude:</b>	77° 48'30.2408"
<b>HWM Type:</b>	Mud Line/Water	<b>Outside or Inside:</b>	Outside
<b>USGS 7.5 minute Quadrangle Sheet:</b>		Wrightsville Beach, NC	
<b>Nearest Town:</b>		Wrightsville Beach, NC	
<b>Address:</b>		739 Schloss Street	
<b>Remarks:</b> High Water Marks are on storage door rear of garage area.			



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## Hurricane Comparisons

HWM Number:	NH-57WI	Taken By:	Corps of Engineers		
HWM Elevation (ft, msl):	Fran: 10.9	Bonnie: 8.0	Floyd: 9.0		
Latitude:	34° 01'28.7605"	Longitude:	77° 53'47.7523"		
HWM Type:	Water/Mud	Outside or Inside:	Inside		
USGS 7.5 minute Quadrangle Sheet:		Wrightsville Beach, NC			
Nearest Town:	Wilmington, NC				
Address:	217 Kilarny Road - Shamrock Village Apt.				
Remarks:	High water marks are on sheet rock inside residence. Mark transferred to outside.				



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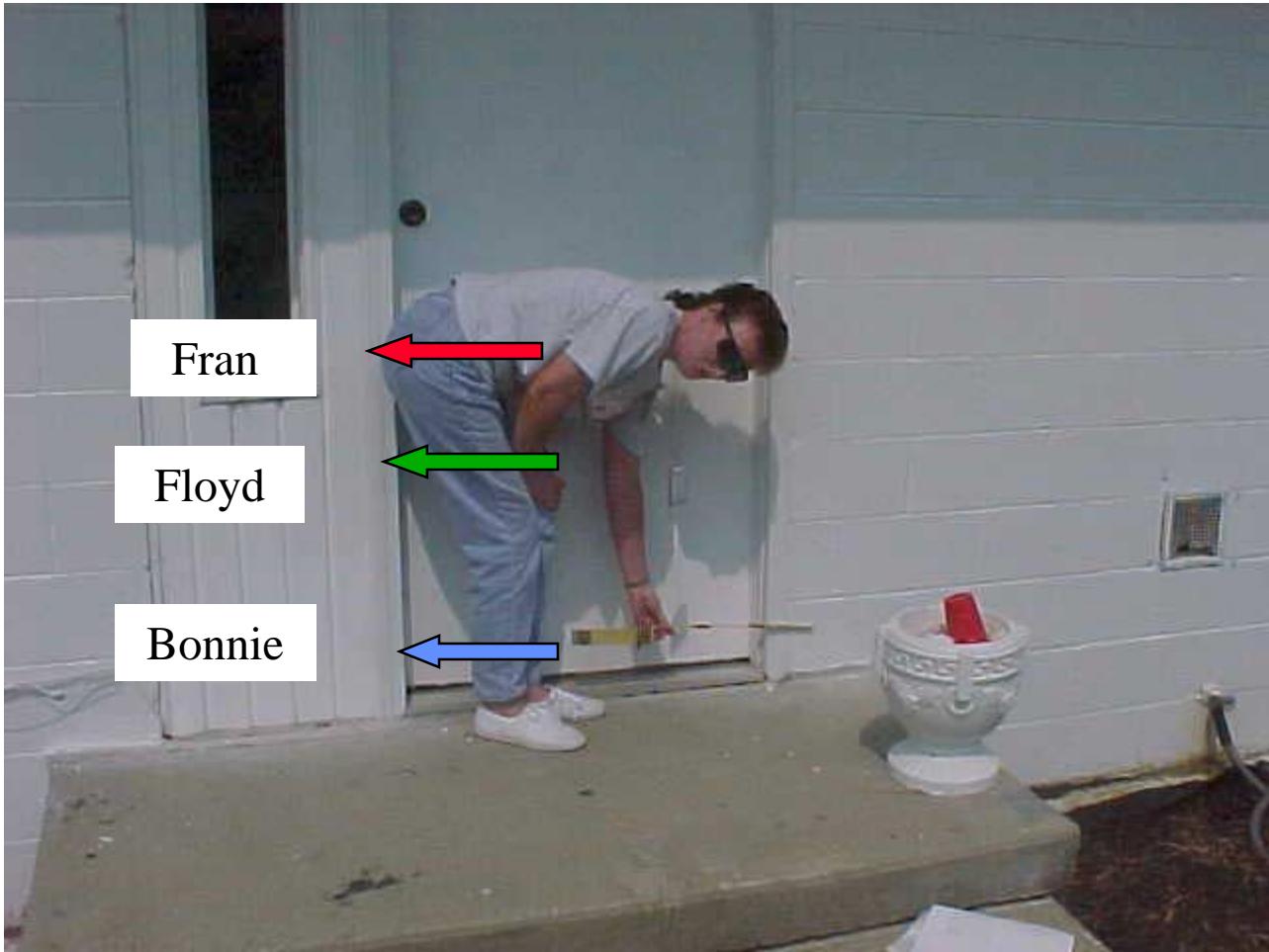


## Hurricane Comparisons

<b>HWM Number:</b>	NH-63CB	<b>Taken By:</b>	Corps of Engineers
<b>HWM Elevation (ft, msl):</b> <b>Fran:</b> 10.1		<b>Bonnie:</b> 8.0	<b>Floyd:</b> 9.0
<b>Latitude:</b>	34° 02'57.1743"	<b>Longitude:</b>	77° 53'31.7049"
<b>HWM Type:</b>	Mud Line	<b>Outside or Inside:</b>	Inside
<b>USGS 7.5 minute Quadrangle Sheet:</b> Carolina Beach, NC			
<b>Nearest Town:</b>	Carolina Beach, NC		
<b>Address:</b>	1314 St. Joseph Street		
<b>Remarks:</b>	High water marks are on wall inside ground floor kitchen area.		



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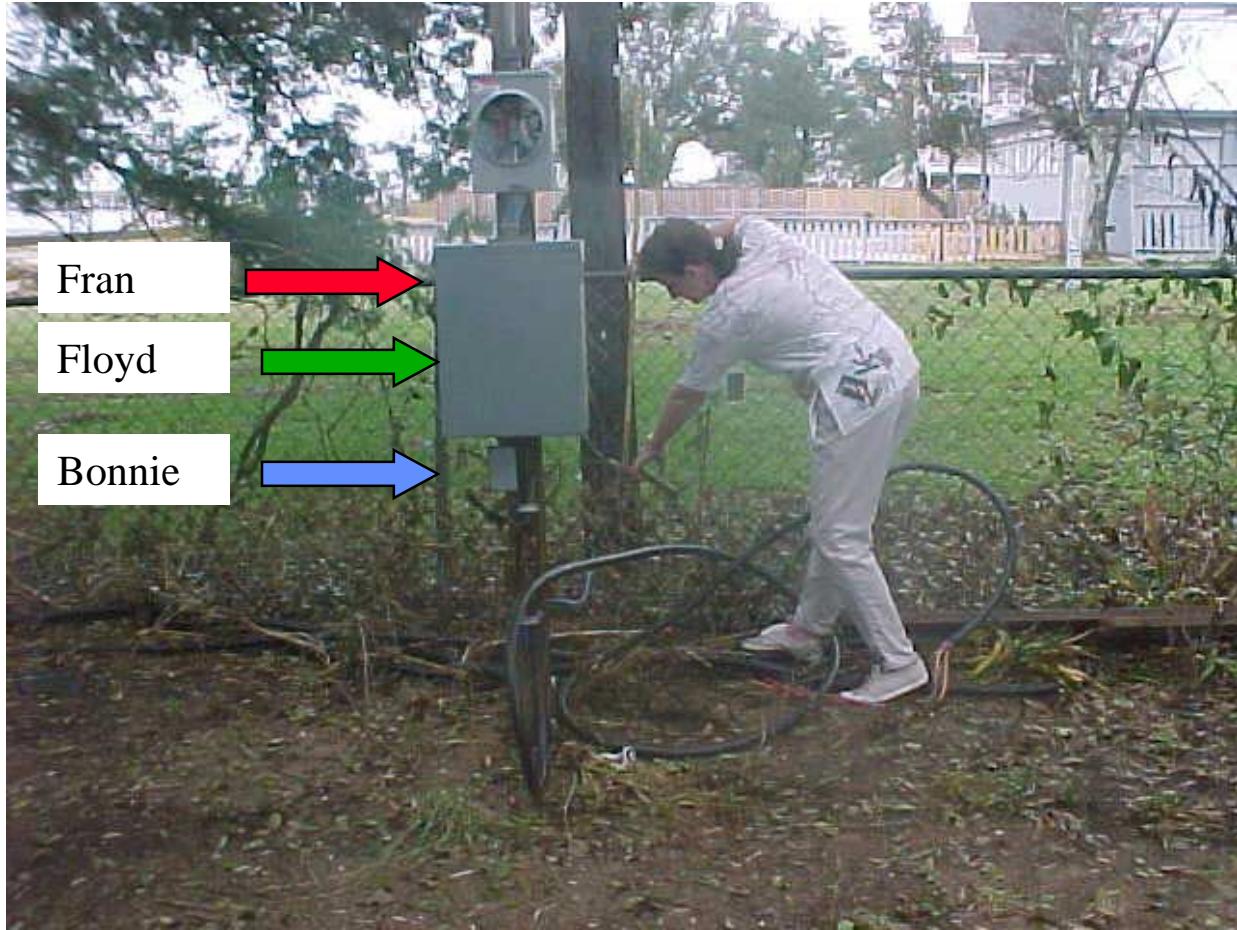


## Hurricane Comparisons

<b>HWM Number:</b>	NH-69NH	<b>Taken By:</b>	Corps of Engineers
<b>HWM Elevation (ft, msl):</b>	Fran: 10.9	Bonnie: 8.1	Floyd: 9.7
<b>Latitude:</b>	34° 12'48.78"	<b>Longitude:</b>	77° 49'54.72"
<b>HWM Type:</b>	Water/Mud	<b>Outside or Inside:</b>	Inside
<b>USGS 7.5 minute Quadrangle Sheet:</b>		Wrightsville Beach, NC	
<b>Nearest Town:</b>		Wilmington, NC	
<b>Address:</b>		Bradley Creek Marina, Oleander Drive	
<b>Remarks:</b> HWM is at Bradley Creek Marina. White building on dock used as office.			



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Wilmington District**

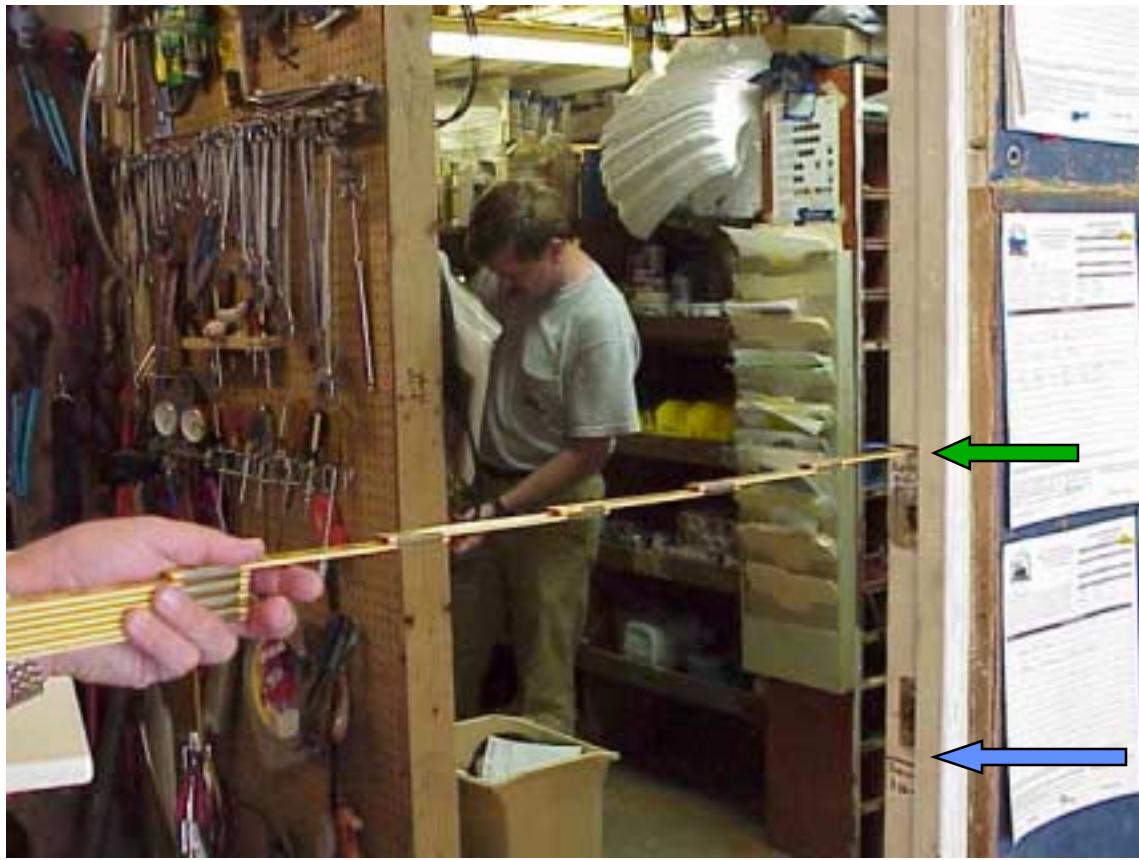


## Hurricane Comparisons

HWM Number:	NH-70NH	Taken By:	Corps of Engineers		
HWM Elevation (ft, msl):	Fran: 11.1	Bonnie: 9.2	Floyd: 10.3		
Latitude:	34° 09'22.35"	Longitude:	77° 51'22.47"		
HWM Type:	Debris Line	Outside or Inside:	Outside		
USGS 7.5 minute Quadrangle Sheet:		Wrightsville Beach, NC			
Nearest Town:	Wilmington, NC				
Address:	Masonboro Boat Yard				
Remarks:	High water marks for Fran and Floyd transferred to Fence for comparison.				



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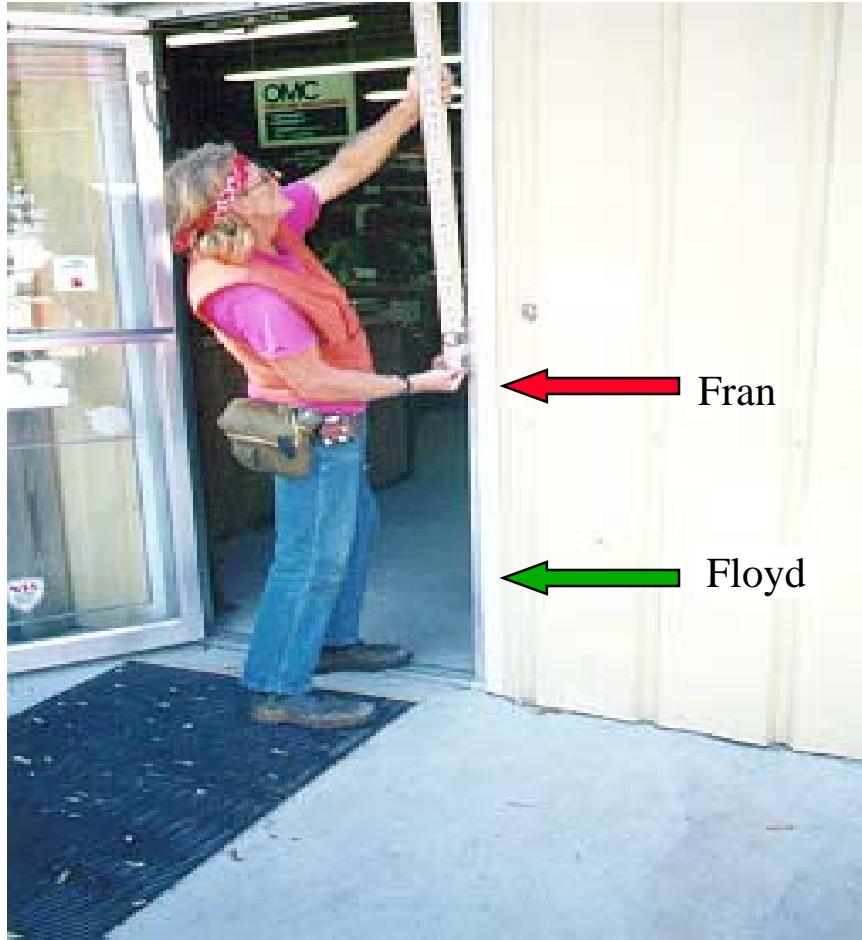


## Hurricane Comparisons

<b>HWM Number:</b>	NH-82-MS	<b>Taken By:</b>	Corps of Engineers
<b>HWM Elevation (ft, msl):</b>	Fran: 10.9	Bonnie:	Floyd: 9.1
<b>Latitude:</b>	34° 15'30.12"	<b>Longitude:</b>	77° 46'47.10"
<b>HWM Type:</b>	Mud Line	<b>Outside or Inside:</b>	Inside
<b>USGS 7.5 minute Quadrangle Sheet:</b>		Scotts Hill, NC	
<b>Nearest Town:</b>		Wilmington, NC	
<b>Address:</b>		Carolina Yacht Marina. Middle Sound Loop Road	
<b>Remarks:</b> High Water Marks are located ondoor of Repair Shop Office. Office is located next to boat basin.			



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## Hurricane Comparisons

<b>HWM Number:</b>	NH-85-MS	<b>Taken By:</b>	Corps of Engineers
<b>HWM Elevation (ft, msl):</b>	Fran: 11.1	Bonnie:	Floyd: 9.0
<b>Latitude:</b>	34° 15'55.32"	<b>Longitude:</b>	77° 46'23.22"
<b>HWM Type:</b>	Mud Line	<b>Outside or Inside:</b>	Inside
<b>USGS 7.5 minute Quadrangle Sheet:</b>		Scotts Hill, NC	
<b>Nearest Town:</b>		Wilmington, NC	
<b>Address:</b>		Johnson's Marina. Middle Sound Loop Road	
<b>Remarks:</b> High Water Marks are located inside service garage area next to boat basin.			



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## Hurricane Comparisons

HWM Number:	NH-86AMS	Taken By:	Corps of Engineers		
HWM Elevation (ft, msl):	Fran: 11.3	Bonnie:	7.4		
Latitude:	34° 16'38.10"	Longitude:	77° 47'58.38"		
HWM Type:	Mud Line	Outside or Inside:	Outside		
USGS 7.5 minute Quadrangle Sheet:		Scotts Hill, NC			
Nearest Town:	Wilmington, NC				
Address:	340 Bayshore Drive				
Remarks:	High water marks were at garage door..				



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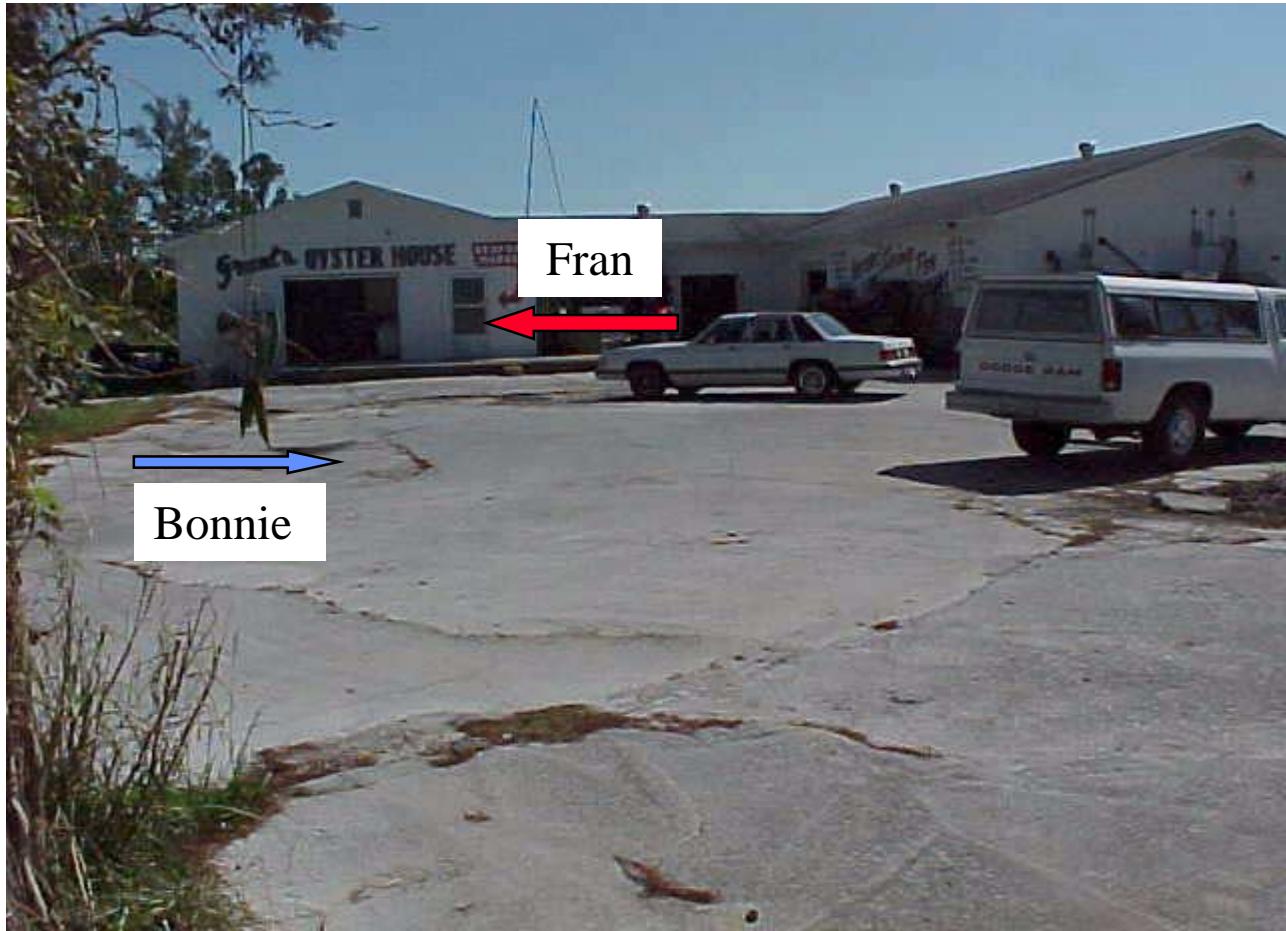


## Hurricane Comparisons

HWM Number:	ON-10-F	Taken By:	Corps of Engineers		
HWM Elevation (ft, msl): Fran:	7.9	Bonnie:	7.1		
Latitude:	34° 41'12.30"	Longitude:	77° 07'05.28"		
HWM Type:	Mud Line	Outside or Inside:	Inside		
USGS 7.5 minute Quadrangle Sheet:		Swansboro, NC			
Nearest Town:	Swansboro, NC				
Address:	109 Front Street, Swansboro, NC Unit 101A-D				
Remarks:	High water marks were at rear of building.				

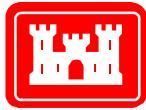


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Wilmington District**



## Hurricane Comparisons

<b>HWM Number:</b>	ON-6A	<b>Taken By:</b>	Corps of Engineers
<b>HWM Elevation (ft, msl):</b>	Fran: 8.8	Bonnie:	3.9
<b>Latitude:</b>	34° 31'20.82"	<b>Longitude:</b>	77° 25'27.24"
<b>HWM Type:</b>	Debris Line	<b>Outside or Inside:</b>	Outside
<b>USGS 7.5 minute Quadrangle Sheet:</b>		Snead's Ferry, NC	
<b>Nearest Town:</b>		Snead's Ferry, NC	
<b>Address:</b>		1148 Old Folkstone Road (SR 1148) Grants Oyster House	
<b>Remarks:</b> Fran high water mark was located in Oyster House. Bonnie high water mark was debris line located in the parking lot.			



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## Hurricane Comparisons

<b>HWM Number:</b>	ON-8A	<b>Taken By:</b>	Corps of Engineers		
<b>HWM Elevation (ft, msl):</b> Fran:	7.2	<b>Bonnie:</b>	4.2		
<b>Latitude:</b>	$34^{\circ} 32'35.82''$	<b>Longitude:</b>	$77^{\circ} 21'40.32''$		
<b>HWM Type:</b>	Debris Line	<b>Outside or Inside:</b>	Outside		
<b>USGS 7.5 minute Quadrangle Sheet:</b>		New River Inlet, NC			
<b>Nearest Town:</b>	Snead's Ferry, NC				
<b>Address:</b>	Power Marine Service Shop - SR 1523				
<b>Remarks:</b>	Fran High Water Mark is inside shop area. Bonnie high water mark is debris line located at the edge of the pavement in front of Shop.				



**US Army Corps of Engineers  
Wilmington District**

**Exit**



## Hurricane Floyd, September 1999

HWM Number:	NH-120CB	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	9.1	Date Taken:	06 October 1999
Latitude:	34°02'08.4643"	Longitude	77°53'31.5091"
HWM Type:	Water/Debris Line	Outside or Inside:	Inside
Nearest Town:	Carolina Beach, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Carolina Beach, NC	Stream Name:	
Location:	202 Harper Street		
Remarks:	Water/Debris Line on door 34 inches above metal threshold at entrance to "New Orleans Snowball Shop".		



**US Army Corps of Engineers**  
Wilmington District

**Inundation  
Map**

**New Hanover  
County List**

**USGS  
Quadrangle List**

**Next  
Data Sheet**



## Hurricane Floyd, September 1999

HWM Number:	NH-121CB	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	9.0	Date Taken:	06 October 1999
Latitude:	34°02'08.9644"	Longitude	77°53'32.0965"
HWM Type:	Water/Debris Line	Outside or Inside:	Inside
Nearest Town:	Carolina Beach, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Carolina Beach, NC	Stream Name:	
Location:	Great Mistakes Clothing Store - Harper Street		
Remarks:	High water mark is 27 inches above concrete floor slab at front of building.		



**US Army Corps of Engineers**  
Wilmington District

**Inundation  
Map**

**New Hanover  
County List**

**USGS  
Quadrangle List**

**Next  
Data Sheet**



## Hurricane Floyd, September 1999

HWM Number:	NH-132-WB	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	9.2	Date Taken:	28 October 1999
Latitude:	34°11'24.683"	Longitude	77°48'34.9645"
HWM Type:	Debris/Water	Outside or Inside:	Outside
Nearest Town:	Wrightsville Beach, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Wrightsville Beach, NC	Stream Name:	
Location:	209 Water Street		
Remarks:	Debris/Water line on door to ground level apartment 32 inches above concrete slab in front of door.		



**US Army Corps of Engineers**  
Wilmington District

**Inundation  
Map**

**New Hanover  
County List**

**USGS  
Quadrangle List**

**Next  
Data Sheet**



## Hurricane Floyd, September 1999

HWM Number:	NH-15F	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	9.2	Date Taken:	06 October 1999
Latitude:	34°02'27.7355"	Longitude	77°53'24.2333"
HWM Type:	Debris/Water Line	Outside or Inside:	Inside
Nearest Town:	Carolina Beach, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Carolina Beach, NC	Stream Name:	
Location:	602 Canal Drive		
Remarks:	High water mark inside garage. High water mark is 42 inches above slab at garage door. Mark was transferred to the outside column.		



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## Hurricane Floyd, September 1999

HWM Number:	NH-17E	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	9.7	Date Taken:	06 October 1999
Latitude:	34°03'24.0803"	Longitude	77°52'56.6877"
HWM Type:	Mud Line	Outside or Inside:	Inside
Nearest Town:	Carolina Beach, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Carolina Beach, NC	Stream Name:	
Location:	Island North Apartments, Canal Drive		
Remarks:	High water mark is at Unit "C". Mark is 30 inches above the floor slab of entrance foyer.		



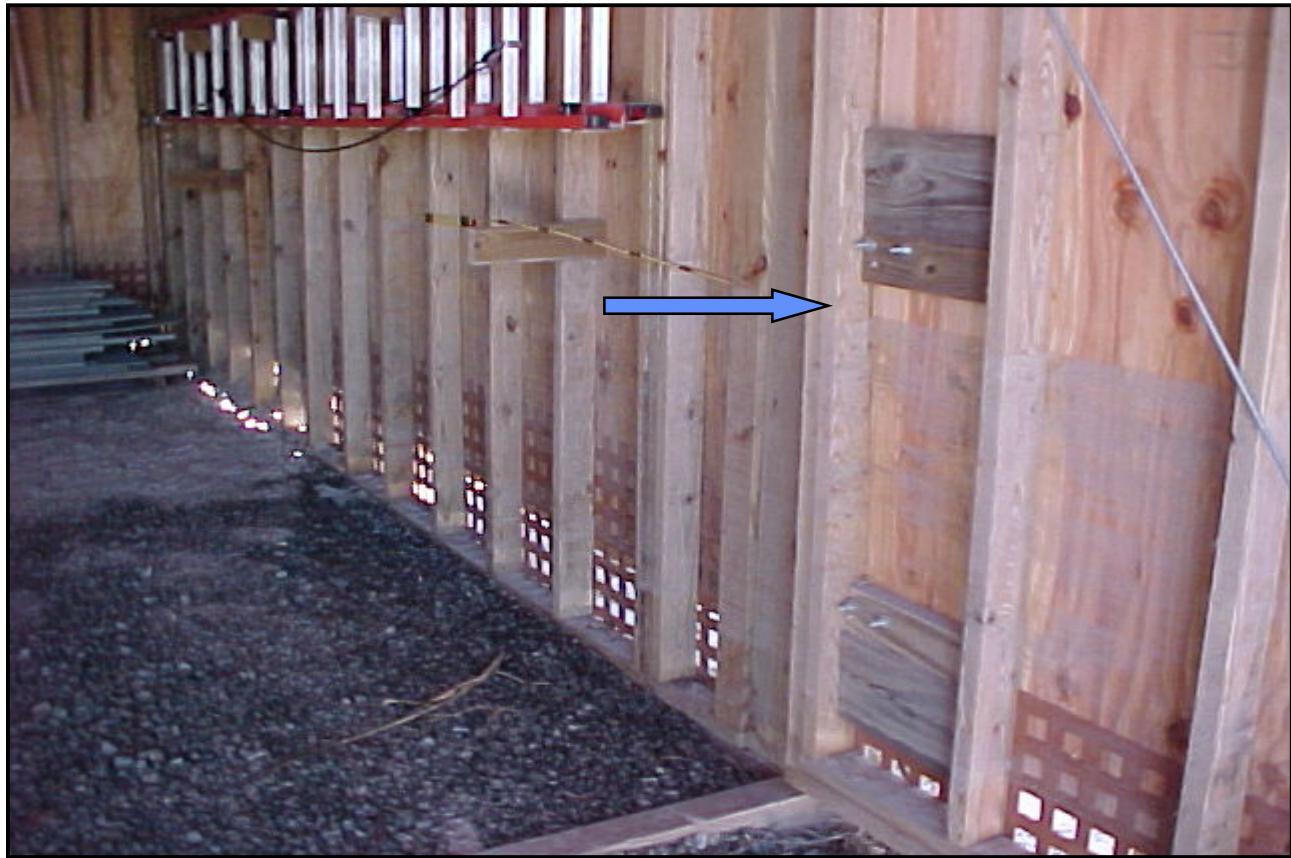
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## Hurricane Floyd, September 1999

HWM Number:	NH-2F	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	10.0	Date Taken:	06 October 1999
Latitude:	33°57.51.1188"	Longitude	77°55'17.3182"
HWM Type:	Mud Line	Outside or Inside:	Outside
Nearest Town:	Fort Fisher, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Kure Beach, NC	Stream Name:	
Location:	NC DER Recreation Area, Fort Fisher		
Remarks:	High water mark is inside storage area under recreation building. Mark is 40 inches above 4x4 base.		



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## Hurricane Floyd, September 1999

HWM Number:	NH-40-KB	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	14.4	Date Taken:	06 October 1999
Latitude:	33°58'34.02"	Longitude	77°54'45.06"
HWM Type:	Mud Line	Outside or Inside:	Inside
Nearest Town:	Fort Fisher, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Kure Beach, NC	Stream Name:	
<b>Location:</b> Ocean Dunes Condominiums - 1901 Ft. Fisher Blvd.			
<b>Remarks:</b> High water mark is 10 inches above concrete floor slab at garage door. Quality of mark is excellent.			



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## Hurricane Floyd, September 1999

HWM Number:	NH-41-KB	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	14.4	Date Taken:	06 October 1999
Latitude:	33°58'34.02"	Longitude	77°54'45.06"
HWM Type:	Mud Line	Outside or Inside:	Inside
Nearest Town:	Fort Fisher, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Kure Beach, NC	Stream Name:	
Location:	Ocean Dunes Condominiums - 1901 Ft. Fisher Blvd.		
Remarks:	High water mark is 27 inches above concrete floor slab at utility room. Quality of mark is excellent.		



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## Hurricane Floyd, September 1999

HWM Number:	NH-57-WI	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	9.00	Date Taken:	28 October 1999
Latitude:	34°01'28.7605"	Longitude	77°53'47.7523"
HWM Type:	Water/Mud	Outside or Inside:	Outside
Nearest Town:	Wrightsville Beach, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Carolina Beach, NC	Stream Name:	
Location:	Shamrock Village Apt. - 217 Kilnary Road		
Remarks:	High water mark is on front door 26 inches above concrete floor slab.		



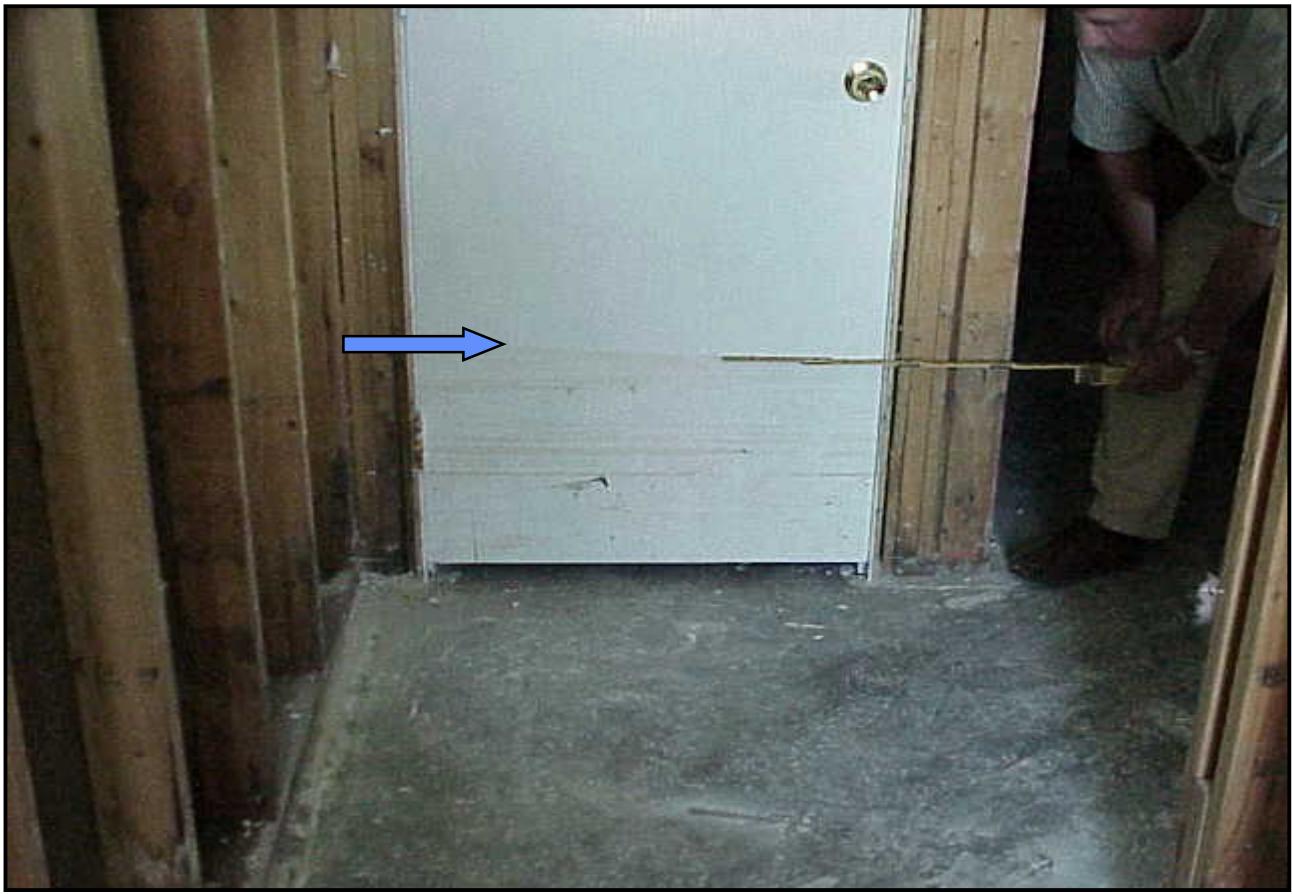
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## Hurricane Floyd, September 1999

HWM Number:	NH-60-KB	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	15.0	Date Taken:	06 October 1999
Latitude:	33°58'25.92356"	Longitude	77°54'52.8572"
HWM Type:	Mud Line	Outside or Inside:	Inside
Nearest Town:	Fort Fisher, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Kure Beach, NC	Stream Name:	
Location:	Riggings Condominiums - Apt. F1		
Remarks:	High water mark is 17 inches above concrete floor slab at closet inside foyer of apartment. Quality of mark is excellent.		



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## Hurricane Floyd, September 1999

HWM Number:	NH-63CB	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	9.0	Date Taken:	06 October 1999
Latitude:	34°02'57.1743"	Longitude	77°53'31.7049
HWM Type:	Mud Line	Outside or Inside:	Inside
Nearest Town:	Carolina Beach, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Carolina Beach, NC	Stream Name:	
Location:	1314 St. Joseph Street		
Remarks:	High water mark on wall inside ground floor kitchen area. Mark is 25 inches above floor slab.		



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## Hurricane Floyd, September 1999

HWM Number:	NH-64-KB	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	14.00	Date Taken:	06 October 1999
Latitude:	33°58'25.9236"	Longitude	77°53'31.7049
HWM Type:	Mud Line	Outside or Inside:	Inside
Nearest Town:	Carolina Beach, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Kure Beach, NC	Stream Name:	
Location:	1314 St. Joseph Street		
Remarks:	High water mark on wall inside ground floor kitchen area. Mark is 25 inches above floor slab.		



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## Hurricane Floyd, September 1999

HWM Number:	NH-65-KB	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	9.1	Date Taken:	29 October 1999
Latitude:	34°03'04.26"	Longitude	77°53'4.44"
HWM Type:	Debris/Water	Outside or Inside:	Inside
Nearest Town:	Carolina Beach, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Carolina Beach, NC	Stream Name:	
Location:	1318 Carolina Beach Avenue - North		
Remarks:	High water mark inside garage and 24 inches above the garage floor slab at entrance to left garage door.		



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## Hurricane Floyd, September 1999

HWM Number:	NH-66CB	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	8.2	Date Taken:	29 October 1999
Latitude:	34°03'07.14"	Longitude	77°53'4.56"
HWM Type:	Debris/Water	Outside or Inside:	Inside
Nearest Town:	Carolina Beach, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Carolina Beach, NC	Stream Name:	
Location:	2 Clamshell Lane		
Remarks:	High water mark is a wash line 18 inches above the driveway slab at rear corner of house.		



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## Hurricane Floyd, September 1999

HWM Number:	NH-69-NH	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	9.7	Date Taken:	28 October 1999
Latitude:	34°12'48.78"	Longitude	77°49'54.72"
HWM Type:	Water/Mud	Outside or Inside:	Inside
Nearest Town:	Wrightsville Beach, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Wrightsville Beach, NC	Stream Name:	
Location:	Bradley Creek Marina		
Remarks:	High water mark is Bradley Creek Marina white building on dock mark is 4 inches above concrete floor slab.		



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## Hurricane Floyd, September 1999

HWM Number:	NH-70-NH	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	10.30	Date Taken:	28 October 1999
Latitude:	34°09'22.35"	Longitude	77°51'22.47"
HWM Type:	Debris Line	Outside or Inside:	Outside
Nearest Town:	Wrightsville Beach, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Wrightsville Beach, NC	Stream Name:	
Location:	Masonboro Boat Yard - Trails End Road		
Remarks:	High water mark was 31 inches above wood floor next to left garage door inside clubhouse.		



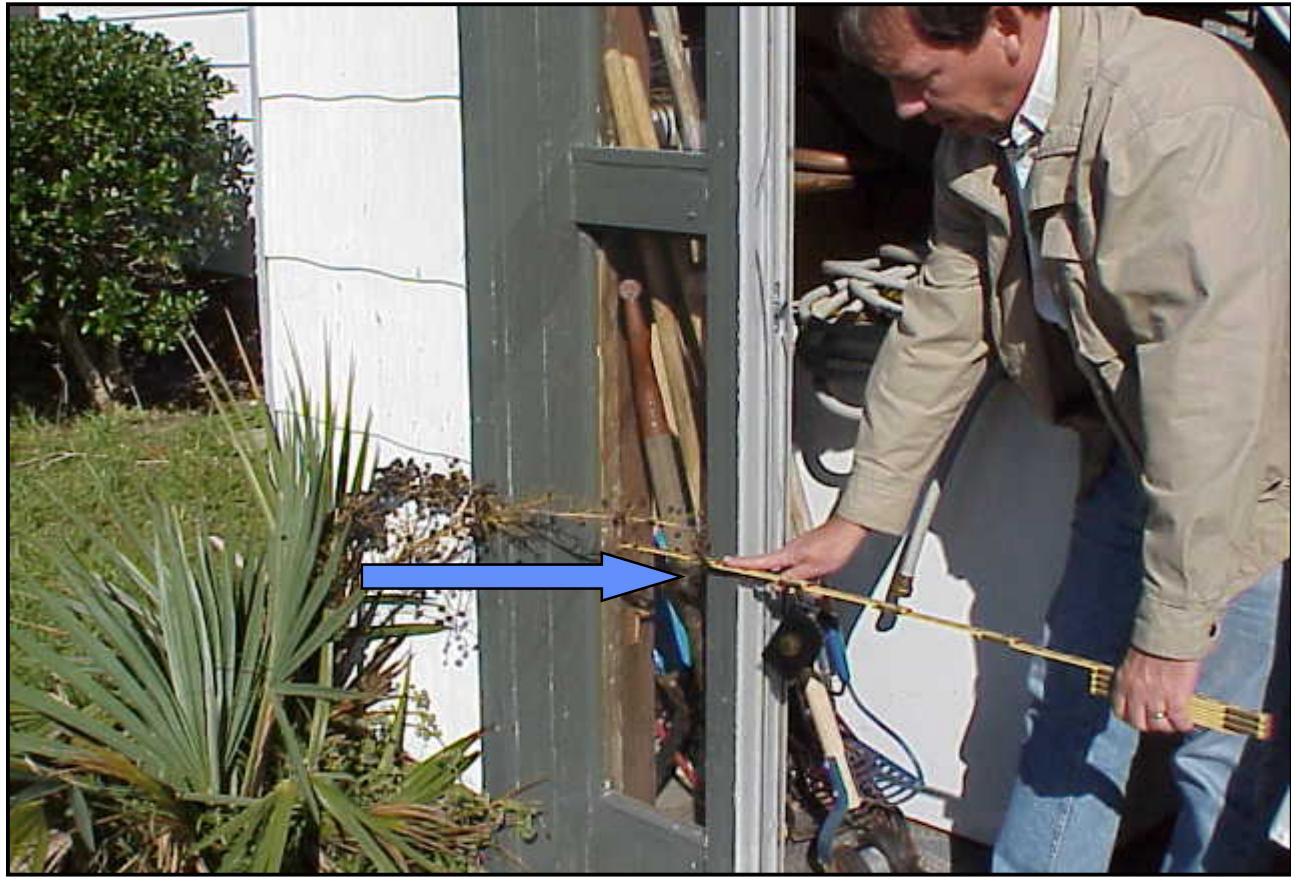
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## Hurricane Floyd, September 1999

HWM Number:	NH-77-WB	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	9.0	Date Taken:	28 October 1999
Latitude:	34°12'28.02"	Longitude	77°48'09.90"
HWM Type:	Mud Line	Outside or Inside:	Inside
Nearest Town:	Wrightsville Beach, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Wrightsville Beach, NC	Stream Name:	
Location:	Harbor Island - 202 S. Channel Drive		
Remarks:	High water mark is 26 inches above driveway slab at sliding glass door.		



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## Hurricane Floyd, September 1999

HWM Number:	NH-78-WB	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	9.0	Date Taken:	28 October 1999
Latitude:	34°12'55.62"	Longitude	77°47'24.60"
HWM Type:	Sand/Water Line	Outside or Inside:	Outside
Nearest Town:	Wrightsville Beach, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Wrightsville Beach, NC	Stream Name:	
Location:	4 Seagull Street, Wrightsville Beach, NC		
Remarks:	High water mark is 32 inches above porch slab at ground apartment.		



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## Hurricane Floyd, September 1999

HWM Number:	NH-80-WB	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	9.5	Date Taken:	28 October 1999
Latitude:	34°12'8.76"	Longitude	77°47'59.58"
HWM Type:	Water Line	Outside or Inside:	Inside
Nearest Town:	Wrightsville Beach, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Wrightsville Beach, NC	Stream Name:	
Location:	316 Waynick Blvd., Wrightsville Beach, NC		
Remarks:	High water mark is 28 above flashing at window on North side of house. Based on information from owner.		



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## Hurricane Floyd, September 1999

HWM Number:	NH-81-WB	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	9.1	Date Taken:	28 October 1999
Latitude:	34°12'58.26"	Longitude	77°47'21.84"
HWM Type:	Sand/Water Line	Outside or Inside:	Outside
Nearest Town:	Wrightsville Beach, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Wrightsville Beach, NC	Stream Name:	
Location:	5 Shearwater Street, Wrightsville Beach, NC		
Remarks:	High water mark is 32 inches above concrete porch slab at front door.		



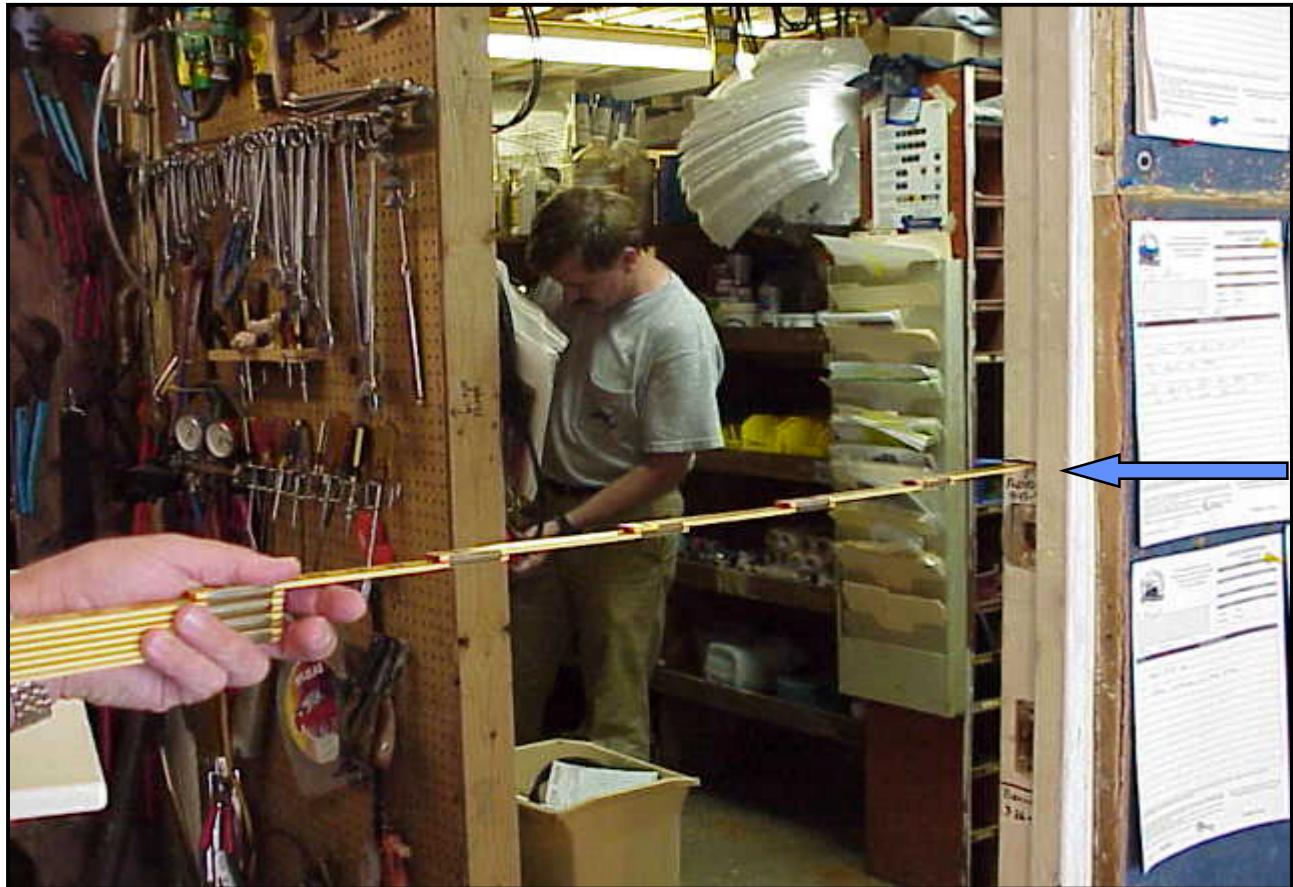
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## Hurricane Floyd, September 1999

HWM Number:	NH-82-MS	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	9.10	Date Taken:	28 October 1999
Latitude:	34°15'30.12"	Longitude	77°46'47.10"
HWM Type:	Mud Line	Outside or Inside:	Inside
Nearest Town:	Wilmington, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Scotts Hill, NC	Stream Name:	
Location:	Carolina Yacht Marina - Middle Sound Loop Road		
Remarks:	Mud line is inside service shop on lower dock. Mark is 50 inches above floor. Quality of mark is excellent.		



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## Hurricane Floyd, September 1999

HWM Number:	NH-82-WB	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	9.1	Date Taken:	28 October 1999
Latitude:	34°12'53.16"	Longitude	77°47'32.28"
HWM Type:	Mud Line	Outside or Inside:	Inside
Nearest Town:	Wrightsville Beach, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Wrightsville Beach, NC	Stream Name:	
Location:	13 West Henderson Street - Wrightsville Beach, NC		
Remarks:	High water mark is 25 inches above slab at door at ground entrance to house.		



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## Hurricane Floyd, September 1999

HWM Number:	NH-83-WB	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	9.0	Date Taken:	28 October 1999
Latitude:	34°13'04.08"	Longitude	77°48'.49.26"
HWM Type:	Mud Line	Outside or Inside:	Inside
Nearest Town:	Wrightsville Beach, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Wrightsville Beach, NC	Stream Name:	
Location:	Bridge Tender Marina		
Remarks:	High water mark is 16 inches above floor slab at office for "Pete Horst Yacht Sales". Located on dock at Bridge Tender Marina.		



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## Hurricane Floyd, September 1999

HWM Number:	NH-85-MS	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	9.0	Date Taken:	28 October 1999
Latitude:	34°15'55.32"	Longitude	77°46'.23.22"
HWM Type:	Water Line	Outside or Inside:	Inside
Nearest Town:	Wilmington, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Scotts Hill, NC	Stream Name:	
Location:	Johnson's Marina - Middle Sound Loop Road		
Remarks:	Mud line is inside garage area next to water. Mark is 16 inches above garage floor of parts sales office.		



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## Hurricane Floyd, September 1999

HWM Number:	2026F	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	10.2	Date Taken:	06 October 1999
Latitude:	34°03'29.32635"	Longitude	77°52'56.16151"
HWM Type:	Water/Debris Line	Outside or Inside:	Inside
Nearest Town:	Carolina Beach, NC	Nearest Road/Hwy:	
USGS 7.5 minute Quad Sheet:	Carolina Beach, NC	Stream Name:	
Location:	Breakers Apt, Bldg. A, Apt. 4		
Remarks:	Mark is on garage wall 33 inches above garage floor slab.		



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## Hurricane Floyd, September 1999

HWM Number:	BR11F	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	NS	Date Taken:	07 October 1999
Latitude:	33°54.75'	Longitude	78°20.26'
HWM Type:	Trash Line	Outside or Inside:	Outside
Nearest Town:	Holden Beach, NC	Nearest Road/Hwy:	Sailfish Drive
USGS 7.5 minute Quad Sheet:	Holden Beach	Stream Name:	
Location:	174 Sail Fish Drive Vacant Lot		
Remarks:	High water mark is 3 inches above ground at rain gage in middle of lot debris/trash line. Trash line is approximately 30 feet from edge of road. Quality of mark is good.		



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## Hurricane Floyd, September 1999

HWM Number:	BR12F	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	14.40	Date Taken:	07 October 1999
Latitude:	33°54.47'	Longitude	78°20.02'
HWM Type:	Trash Line	Outside or Inside:	Outside
Nearest Town:	Holden Beach, NC	Nearest Road/Hwy:	Ocean Blvd. West
USGS 7.5 minute Quad Sheet:	Holden Beach, NC	Stream Name:	
Location:	Vacant Lot Adjacent to 899 Ocean Boulevard West		
Remarks:	High water mark is trash line located on west side of lot, parallel to pilings on house located approximately 20 feet from water mark.		



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## Hurricane Floyd, September 1999

HWM Number:	BR13F	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	10.30	Date Taken:	07 October 1999
Latitude:	33°54.49'	Longitude	78°20.03'
HWM Type:	Trash Line	Outside or Inside:	Outside
Nearest Town:	Holden Beach, NC	Nearest Road/Hwy:	Ocean Blvd. West
USGS 7.5 minute Quad Sheet:	Holden Beach, NC	Stream Name:	
Location:	900 Ocean Boulevard West - Corner of Tuna Drive and Ocean Blvd West		
Remarks:	High water mark is top of first step at entrance to front of house. Quality of mark is good.		



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## Hurricane Floyd, September 1999

HWM Number:	BR14F	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	4.50	Date Taken:	07 October 1999
Latitude:	33°54.47'	Longitude	78°19.72'
HWM Type:	Trash Line	Outside or Inside:	Outside
Nearest Town:	Holden Beach, NC	Nearest Road/Hwy:	Ocean Blvd. West
USGS 7.5 minute Quad Sheet:	Holden Beach, NC	Stream Name:	
<b>Location:</b> Vacant Lot across from 839 Ocean Boulevard West			
<b>Remarks:</b> High water mark is trash line 10 feet west of sidewalk on north end of lot (measurement was taken from PVC pipe in ground). Quality of mark is good.			



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## Hurricane Floyd, September 1999

HWM Number:	BR15F	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	8.70	Date Taken:	07 October 1999
Latitude:	33°54.55'	Longitude	78°19.41'
HWM Type:	Trash/Sand Line	Outside or Inside:	Outside
Nearest Town:	Holden Beach, NC	Nearest Road/Hwy:	Ocean Blvd. West
USGS 7.5 minute Quad Sheet:	Holden Beach, NC	Stream Name:	
<b>Location:</b> Ocean Palms Condo's - 771 Ocean Boulevard West			
<b>Remarks:</b> High water mark is trash/sand line at top of first step of entry steps under garage area. Quality of mark is good.			



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## Hurricane Floyd, September 1999

<b>HWM Number:</b> BR16F	<b>Taken By:</b> Corps of Engineers
<b>HWM Elevation (ft, msl):</b> 4.60	<b>Date Taken:</b> 07 October 1999
<b>Latitude:</b> 33°54.82'	<b>Longitude</b> 78°19.41'
<b>HWM Type:</b> Trash Line	<b>Outside or Inside:</b> Outside
<b>Nearest Town:</b> Holden Beach	<b>Nearest Road/Hwy:</b> Ocean Blvd. West
<b>USGS 7.5 minute Quad Sheet:</b> Holden Beach, NC	<b>Stream Name:</b>
<b>Location:</b> 773 Ocean Boulevard West	
<b>Remarks:</b> High water mark is trash line at base of tree directly across from 773-A Ocean Palms Condo. Quality of mark is good.	



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## Hurricane Floyd, September 1999

HWM Number:	BR17F	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	NS	Date Taken:	07 October 1999
Latitude:	33°54.89'	Longitude	78°15.34'
HWM Type:	Water/Debris Line	Outside or Inside:	Inside
Nearest Town:	Holden Beach, NC	Nearest Road/Hwy:	Ocean Blvd. East
USGS 7.5 minute Quad Sheet:	Holden Beach, NC	Stream Name:	
Location:	226 Ocean Boulevard East		
Remarks:	High water mark is 14 inches above bottom of outside window sill on street side of house. Quality of mark is excellent.		



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## Hurricane Floyd, September 1999

HWM Number:	BR18F	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	NS	Date Taken:	07 October 1999
Latitude:	33°54.88'	Longitude	78°15.35'
HWM Type:	Mud/Water Line	Outside or Inside:	Inside
Nearest Town:	Holden Beach, NC	Nearest Road/Hwy:	Ocean Blvd. East
USGS 7.5 minute Quad Sheet:	Holden Beach, NC	Stream Name:	
Location:	One block from Ocean Boulevard East - Lot 277		
Remarks:	High water mark is 23 inches above slab at front screen door. Quality of mark is excellent.		



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## Hurricane Floyd, September 1999

HWM Number:	BR19F	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	NS	Date Taken:	07 October 1999
Latitude:	33°54.86'	Longitude	78°14.83'
HWM Type:	Trash Line	Outside or Inside:	Outside
Nearest Town:	Holden Beach, NC	Nearest Road/Hwy:	Ocean Blvd. East
USGS 7.5 minute Quad Sheet:	Holden Beach, NC	Stream Name:	
Location:	333 Ocean Boulevard East		
Remarks:	High water mark is 16 inches below top of post next to vacant lot. Quality of mark is good.		



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## Hurricane Floyd, September 1999

HWM Number:	BR20F	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	10.60	Date Taken:	07 October 1999
Latitude:	33° 54.86'	Longitude	78° 12.64'
HWM Type:	Water/Debris Line	Outside or Inside:	Inside
Nearest Town:	Long Beach, NC	Nearest Road/Hwy:	W. Beach Road
USGS 7.5 minute Quad Sheet:	Lockwoods Folly, NC	Stream Name:	
Location:	5127 West Beach Road		
Remarks:	High water mark is 60 inches below top of garage door frame (mark was transferred from inside to outside garage door frame). Quality of mark is good.		



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## Hurricane Floyd, September 1999

HWM Number:	BR21F	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	10.50	Date Taken:	07 October 1999
Latitude:	33°54.86'	Longitude	78°12.64'
HWM Type:	Wash Line	Outside or Inside:	Inside
Nearest Town:	Long Beach, NC	Nearest Road/Hwy:	W. Beach Road
USGS 7.5 minute Quad Sheet:	Lockwoods Folly, NC	Stream Name:	
Location:	5125 W. Beach Road		
Remarks:	High water mark is 22 inches above bottom of door sill in shower room under house. Quality of mark is good.		



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## Hurricane Floyd, September 1999

HWM Number:	BR22F	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	11.20	Date Taken:	07 October 1999
Latitude:	33°54.88'	Longitude	78°10.85'
HWM Type:	Mud/Wash Line	Outside or Inside:	Inside
Nearest Town:	Long Beach, NC	Nearest Road/Hwy:	W. Beach Road
USGS 7.5 minute Quad Sheet:	Lockwoods Folly, NC	Stream Name:	
Location:	2013 W. Beach Road		
Remarks:	High water mark is 17 inches above door sill under house. Quality of mark is good.		



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## Hurricane Floyd, September 1999

HWM Number:	BR24F	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	10.90	Date Taken:	07 October 1999
Latitude:	33°54.88'	Longitude	78°10.18'
HWM Type:	Water Line	Outside or Inside:	Inside
Nearest Town:	Long Beach, NC	Nearest Road/Hwy:	W. Beach Road
USGS 7.5 minute Quad Sheet:	Lockwoods Folly, NC	Stream Name:	
Location:	701 W. Beach Drive		
Remarks:	High water mark is 8 inches above concrete slab at utility room. Quality of mark is fair.		



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## Hurricane Floyd, September 1999

HWM Number:	BR25F	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	10.40	Date Taken:	07 October 1999
Latitude:	33°54.88'	Longitude	78°10.18'
HWM Type:	Wash/Trash Line	Outside or Inside:	Outside
Nearest Town:	Long Beach, NC	Nearest Road/Hwy:	W. Beach Road
USGS 7.5 minute Quad Sheet:	Lockwoods Folly, NC	Stream Name:	
Location:	701 W. Beach Drive		
Remarks:	High water mark is 8 inches above concrete door sill at front entrance (floor slab). Quality of mark is good.		



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## Hurricane Floyd, September 1999

HWM Number:	BR26F	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	8.80	Date Taken:	07 October 1999
Latitude:	33°54.87'	Longitude	78°09.52'
HWM Type:	Water/Mud Line	Outside or Inside:	Outside
Nearest Town:	Long Beach, NC	Nearest Road/Hwy:	Dolphin Street
USGS 7.5 minute Quad Sheet:	Lockwoods Folly, NC	Stream Name:	
Location:	302 E. Dolphin Street		
Remarks:	High water mark is 14 inches above floor slab on right garage door facing green house. Quality of mark of good.		



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## Hurricane Floyd, September 1999

<b>HWM Number:</b> BR27F	<b>Taken By:</b> Corps of Engineers
<b>HWM Elevation (ft, msl):</b> 10.10	<b>Date Taken:</b> 07 October 1999
<b>Latitude:</b> 33°54.70'	<b>Longitude</b> 78°07.90'
<b>HWM Type:</b> Wash/Mud Line	<b>Outside or Inside:</b>
<b>Nearest Town:</b> Oak Island, NC	<b>Nearest Road/Hwy:</b> Beach Road West
<b>USGS 7.5 minute Quad Sheet:</b> Southport, NC	<b>Stream Name:</b>
<b>Location:</b> 2922 Beach Road West	
<b>Remarks:</b> High water mark is 21 inches above floor slab on front door under porch.	



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## Hurricane Floyd, September 1999

HWM Number:	BR28F	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	9.80	Date Taken:	07 October 1999
Latitude:	33°54.23'	Longitude	78°04.42'
HWM Type:	Trash Line	Outside or Inside:	
Nearest Town:	Caswell Beach, NC	Nearest Road/Hwy:	Caswell Beach Road
USGS 7.5 minute Quad Sheet:	Southport, NC	Stream Name:	
Location:	713 Caswell Beach Road		
Remarks:	High water mark is trash line on shrubs in front of house, elevation same as top of 3rd step. Quality of mark is good.		



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## Hurricane Floyd, September 1999

HWM Number:	BR30F	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	NS	Date Taken:	07 October 1999
Latitude:	33°54.63'	Longitude	78°06.89'
HWM Type:	Water Line	Outside or Inside:	
Nearest Town:	Oak Island, NC	Nearest Road/Hwy:	E. Beach Road
USGS 7.5 minute Quad Sheet:	Lockwoods Folly, NC	Stream Name:	
Location:	4904 E. Beach Road (East End of Oak Island)		
Remarks:	High water mark is 20.5 inches above slab at painted wall. Quality of mark is good.		



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## Hurricane Floyd, September 1999

HWM Number:	BR31F	Taken By:	Corps of Engineers
HWM Elevation (ft, msl):	9.70	Date Taken:	07 October 1999
Latitude:	33°54.95'	Longitude	78°09.69'
HWM Type:	Water/Mud Line	Outside or Inside:	
Nearest Town:	Oak Island, NC	Nearest Road/Hwy:	Dolphin Street
USGS 7.5 minute Quad Sheet:	Lockwoods Folly, NC	Stream Name:	
Location:	102 W. Dolphin Street		
Remarks:	High water mark is 19.5 inches above slab at garage door. Quality of mark is good.		



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