

***WARREN COUNTY  
BOARD OF COMMISSIONERS***

***July 11, 2016***

***5:45 PM***

***SPECIAL WORK SESSION***

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***WARREN COUNTY  
ARMORY CIVIC CENTER  
COMMISSIONERS' MEETING ROOM  
WARRENTON, NC***

*July 11, 2016*  
*Special Work Session Agenda*

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**1 – Moment of Silence**

**2 - Clerk Read Notice of Special Work Session**

**3 – Discussion of proposed: “Tar River Regional  
Hazard Mitigation Plan”  
Dennis Paschall, EM Director**

**4 – Comments/Questions**

**5 - Adjourn Special Work Session**

*May 24, 2016*  
*Special Work Session Agenda*

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**Item # 1**

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Moment of Silence

*May 24, 2016*  
*Special Work Session Agenda*

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**Item # 2**

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**Clerk Read Notice of  
Special Work Session**

# NOTICE

## **Special Work Session Warren County Board of Commissioners**

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### NOTICE

#### **Warren County Board of Commissioners Special Work Session**

Notice is hereby given that the Warren County Board of Commissioners will hold a Special Work Session on Monday, July 11, 2016 at 5:45 pm in the Warren County Armory Civic Center Meeting Room, 501 US Hwy 158 Business East, Warrenton, NC.

The purpose of this Special Work Session is to receive report of “Tar River Regional Hazard Mitigation Plan”.

All interested citizens are encouraged to attend this special work session.

Barry Richardson, Chairman  
Warren County Board of Commissioners

*May 24, 2016*  
*Special Work Session Agenda*

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**Item # 3**

**Discussion of proposed:**  
**“Tar River Regional  
Hazard Mitigation Plan”**  
**Dennis Paschall, EM Director**

100+ paged document is available at this link to public website:  
<http://espgis.com/TarRiverHazard/>

## TAR RIVER HAZARD MITIGATION PLAN

### Introduction Overview

The Tar River Region is vulnerable to a wide range of natural hazards that threaten life and property. The participating counties in the Tar River Region have identified a number of hazards that are to be addressed in its Regional Hazard Mitigation Plan. These hazards were identified through an extensive process that utilized input from the Tar River Regional Hazard Mitigation Planning Committee's review of past disaster declarations in the participating counties, and review of the North Carolina State Hazard Mitigation Plan (2013).

### Study Area

The Tar River Region includes four counties:

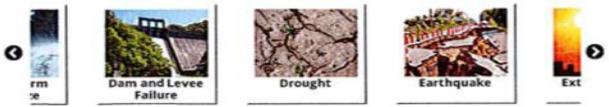
- Franklin ([http://espgis.com/tarriver/plan/A\\_Franklin.pdf](http://espgis.com/tarriver/plan/A_Franklin.pdf))
- Granville ([http://espgis.com/tarriver/plan/B\\_Granville.pdf](http://espgis.com/tarriver/plan/B_Granville.pdf))
- Vance ([http://espgis.com/tarriver/plan/C\\_Vance.pdf](http://espgis.com/tarriver/plan/C_Vance.pdf))
- Warren ([http://espgis.com/tarriver/plan/D\\_Warren.pdf](http://espgis.com/tarriver/plan/D_Warren.pdf))

### Hazards

The following hazards were identified:

- Dam and Levee Failure
- Drought
- Earthquake
- Extreme Heat
- Flood
- Hailstorm
- Hurricane and Tropical Storm
- Lightning

Legend



Hide Hazards

# ANNEX D

## WARREN COUNTY

This annex includes jurisdiction-specific information for Warren County and its participating municipalities. It consists of the following five subsections:

- D.1 Warren County Community Profile
  - D.2 Warren County Risk Assessment
  - D.3 Warren County Vulnerability Assessment
  - D.4 Warren County Capability Assessment
  - D.5 Warren County Mitigation Strategy
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### D.1 WARREN COUNTY COMMUNITY PROFILE

#### D.1.1 Geography and the Environment

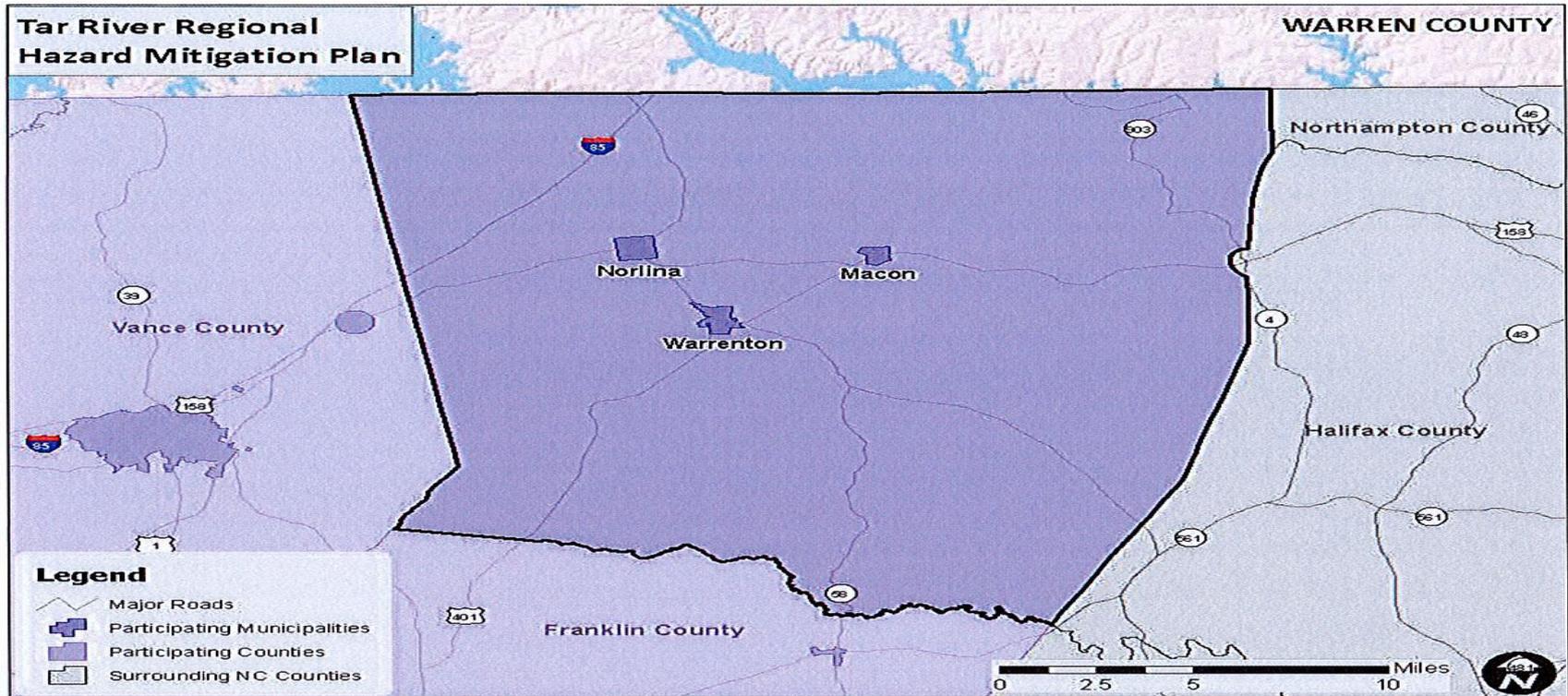
Warren County is located on the northern border of North Carolina in the central portion of the state. There are three municipalities in the county, the Towns of Macon, Norlina, and Warrenton, as well as numerous unincorporated areas. An orientation map is provided as **Figure D.1**.

The county was originally part of Bute County until it became its own county in 1779 and was named for Joseph Warren of Massachusetts who was a physician and general in the American Revolutionary War. The total area of the county is 444 square miles, 16 square miles of which is water area.

From January through March, temperatures range from an average high in the lower 60s to an average low in the mid 20s. Typically, the weather is milder by late April and warm in May. June through September has highs usually in the 90s with lows in the 60s. October is still warm but starts to cool down, and by November, the high temperatures are in the 60s but drop to the 40s in December with potential lows running in the 30s.

The average precipitation each month is around four inches. The wettest month is August, typically having almost five inches of rain, and the driest month is December, with a little over three inches of rain. The annual snowfall is low. The most snowfall to occur at one time within the county was 15 inches in 1948.

FIGURE D.1: WARREN COUNTY ORIENTATION MAP



## D.1.2 Population and Demographics

According to the 2010 Census, Warren County has a population of 20,972 people. The county has seen 5 percent growth between 2000 and 2010, and the average population density is 47 people per square mile. Population counts from the U.S. Census Bureau for 1990, 2000, and 2010 for the county and all of its participating municipalities are presented in **Table D.1**.

**TABLE D.1: POPULATION COUNTS FOR WARREN COUNTY**

Jurisdiction	1990 Census Population	2000 Census Population	2010 Census Population	% Change 2000-2010
<b>Warren County</b>	<b>17,265</b>	<b>19,972</b>	<b>20,972</b>	<b>5.0%</b>
Town of Macon	--	115	119	3.5%
Town of Norlina	--	1,107	1,118	1.0%
Town of Warrenton	--	811	862	6.3%

Source: United States Census Bureau

Based on the 2010 Census, the median age of residents of Warren County is 44.9 years. The racial characteristics of the county are presented in **Table D.2**. Blacks or African Americans make up the majority of the population in the county, accounting for around 52 percent of the population.

**TABLE D.2: DEMOGRAPHICS OF WARREN COUNTY**

Jurisdiction	White, Percent (2010)	Black or African American, Percent (2010)	American Indian or Alaska Native, Percent (2010)	Asian, Percent (2010)	Native Hawaiian or Other Pacific Islander, Percent (2010)	Other Race, Percent (2010)	Two or More Races, percent (2010)	Persons of Hispanic Origin, Percent (2010)*
<b>Warren County</b>	<b>38.8%</b>	<b>52.3%</b>	<b>5.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>2.0%</b>	<b>1.6%</b>	<b>3.3%</b>
Town of Macon	84.9%	13.4%	0.8%	0.0%	0.0%	0.0%	0.8%	0.0%
Town of Norlina	48.5%	42.2%	0.2%	0.4%	0.0%	3.8%	2.1%	6.3%
Town of Warrenton	54.6%	40.8%	0.8%	0.2%	0.0%	2.1%	1.4%	3.4%

\*Hispanics may be of any race, so also are included in applicable race categories

Source: United States Census Bureau

### D.1.3 Housing

According to the 2010 U.S. Census, there are 11,806 housing units in Warren County, the majority of which are single family homes or mobile homes. Housing information for the county and municipalities is presented in **Table D.3**. As shown in the table, the county has a significantly higher percentage of seasonal units compared to the towns.

**TABLE D.3: HOUSING CHARACTERISTICS OF WARREN COUNTY**

Jurisdiction	Housing Units (2000)	Housing Units (2010)	Seasonal Units, Percent (2010)	Median Home Value (2010-2014)
<b>Warren County</b>	<b>10,548</b>	<b>11,806</b>	<b>18.4%</b>	<b>\$97,400</b>
Town of Macon	63	63	1.6%	\$76,200
Town of Norlina	534	567	0.9%	\$78,000
Town of Warrenton	472	528	1.9%	\$135,600

Source: United States Census Bureau

### D.1.4 Infrastructure

#### Transportation

There are several major highways that cross through Warren County. The county is connected to the other counties in the region by an interstate and various US Highways. Interstate 85 is the second longest interstate in the state, running across the county from north to south into Virginia and South Carolina. US Route 1 travels north-south from South Carolina to Virginia, connecting various counties within the Research Triangle region. US Route 158 runs east-west through the northern portion of North Carolina and provides business access through the Town of Macon to the Town of Warrenton. US Route 401 north-south is a spur of Route 1 connecting North Carolina to various states along the U.S. east coast.

The Tar River Region is served by Raleigh-Durham International Airport (RDU) which is located in Raleigh. The airport currently offers direct flights on 13 airlines to cities around the country and the world. This airport served over 9 million passengers in 2011. Warren County Airport, located in the Town of Warrenton, is a smaller airport with limited aircraft access.

### **Utilities**

Electrical power in Warren County is provided by Progress Energy and Halifax Electric Membership.

The Warren County Water System provides water and sewer services throughout the county. The Town of Warrenton provides water and sewer services to additional residents within the county. There are also parts of the county that utilize wells and septic systems.

### **Community Facilities**

There are a number of buildings and community facilities located throughout Warren County. According to the data collected for the vulnerability assessment (Section 6.4.1), there are 14 fire stations, 3 police stations, and 12 public schools located within the county.

There are multiple parks throughout Warren County that include playground equipment, walking tracks, various sports fields and courts, swimming pool, and picnic areas. Kimball Point and County Line Campgrounds are part of the Kerr Lake State Recreation Area and provide campsites with various amenities. Water and motorsports opportunities are available within Warren County. There are also accessible golf courses for both residents and visitors in the county. Lakeland Theatre Company and Ridgway Opry House provide various arts and entertainment opportunities. Throughout the county, there are museums and historic elements available to residents and tourists.

## **D.1.5 Land Use**

There are three incorporated municipalities in Warren County as well as unincorporated communities located throughout the county. Warren County has various land uses varying from primarily rural-agrarian to lakeside residential and urban/suburban development. Developed land within the unincorporated areas is primarily made up of larger parcels designated for agricultural activities. Smaller residential lots are associated with the two large lakes, Kerr and Gaston, located in the northern portion of the county. The incorporated areas are where many businesses, commercial uses, and institutional uses are located.

Warren County is experiencing, and is projected to continue experiencing, moderate growth. To protect environmental resources and to promote the health, safety, and general welfare of the residents, Warren County does employ a zoning ordinance for various land use classifications.

## **D.1.6 Employment and Industry**

According to the American Community Survey (ACS) 5-year estimates, in 2014, Warren County had an annual average employment of 7,920 workers and average unemployment rate of 4.5 percent (compared to 6.6 percent for the state). In 2014, the top employment industry was Educational Services, and Health Care and Social Assistance, making up 27.9 percent of total employment. Other major industries were Manufacturing (15.2%); Retail Trade (11.5%); and Public Administration (7.8%). In 2014,

**Link to the full plan document:**

<https://atkins.app.box.com/s/5sa9ge6jxw2n5mzgabe63b7zotqbdvkq>

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*July 11, 2016*  
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**Item # 4**

**Comments/Questions**

*July 11, 2016*  
*Special Work Session Agenda*

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**Item # 5**

**Adjourn Special Work Session**