



# South Carolina Department of Natural Resources

## Land, Water and Conservation Division

Oversight Committee received  
from DNR via email on 8.30.17

**Purpose: Provide scientific and reliable information to policy and decision makers and to the public in order to understand, sustain and protect the state's natural resources for the benefit of all generations. This is achieved through planning, research, technical assistance, public education and development of a comprehensive natural resources database.**

- Surface-water quantity and water-allocation models were completed for each of the eight major river basins in the state.
- Work continued with the USGS on updating a groundwater flow model for the state, and with the USACE on developing water-demand forecasts for the Savannah River basin.
- The SCDNR groundwater monitoring network (169 wells) was linked to the USGS National Ground-Water Monitoring Network (NGWMN).
- Continued monitoring groundwater for aquifer levels and saltwater intrusion.
- New geologic mapping covering 372 square miles has been developed as digital map products using GIS. To date, more than 14,000 square miles (~45%) of the state have detailed geologic map information.
- Processing satellite data for EPA grant to study possible land subsidence related to groundwater withdrawal in Georgetown County.
- Completed the ACE Basin Coastal Vulnerability Project to demonstrate physical change on the shoreline [www.dnr.sc.gov/geology/botanybay-coastal-erosion](http://www.dnr.sc.gov/geology/botanybay-coastal-erosion).
- More than 2 million webpage requests for survey webpages, data and information during the last fiscal year.
- Work began on a grant from Bureau of Ocean Energy Management (BOEM) to analyze both regional and state offshore sand resources.
- South Carolina Core Repository contains over 1,500 cores and 230,000 linear feet of core material from around the State including offshore.
- Provided GIS support for all LWC Programs.
- Enhanced and expanded the Weatheralert notification system (2,937 subscriptions).
- Collected, analyzed and consolidated data on rainfall, streamflow and damage from Hurricane Matthew. Developed an on-line interactive story journal for the event <http://www.dnr.sc.gov/matthew2016>.



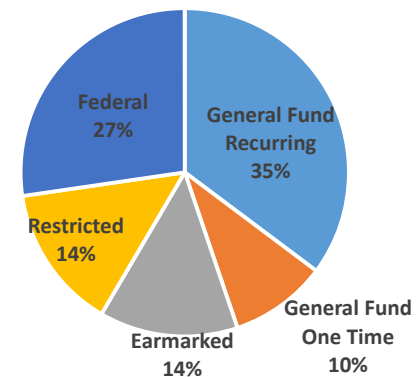
- Collaborated with the Law Enforcement Division in development of flood inundation maps for search and rescue missions.
- Assisted state and federal agencies and the public in data acquisition and forecast interpretation before, during and after tropical events, severe weather, winter weather, droughts and special event planning.
- Chaired and staffed six meetings of the SC Drought Response Committee to take appropriate action on drought status designations.
- Released three preliminary Flood Insurance Rate Maps.
- Conducted five Preliminary Digital Flood Insurance Rate Map Community Coordination meetings and seven public open houses.
- Assisted communities with substantial damage requirements post 2015 flood event and Hurricane Matthew.
- Community participation in the National Flood Insurance Program is 90% (236 communities).
- SCDNR has led the Light Imaging Detection and Range (LiDAR) Consortium since 2007, successfully establishing 28 financial and in-kind partners for the statewide acquisition of LiDAR data. LiDAR data is important to South Carolina as it is used for many purposes, including but not limited to flood modeling, storm water management, transportation planning, natural resources management and economic development.
- Facilitated and cost shared with SCDNR wildlife biologists to restore or improve habitat on SCDNR properties and with USFWS and TNC to improve habitat in and around the ACE Basin.

- Worked cooperatively with Santee Cooper, USFWS and SC Waterfowl Association to improve habitat in the Santee Cooper Lakes.
- Worked with SCDNR biologists and private landowners to restore sensitive Wood Stork habitat.
- Facilitated and/or cost shared with other local and private entities to improve habitat and recreational use by controlling numerous species in other public waters.
- Acquired and outfitted the newly renovated 9,000 square-foot Parker Annex (circa 1910). The Parker Annex Archaeology Center will house the agency's archaeological research program, artifact collections from across the state and offer teachers, students and the public the opportunity to participate in archaeological research projects conducted on SCDNR lands.
- Improved public safety at the Congaree Creek Heritage Preserve trail system.
- Removed Hurricane Matthew debris from six coastal Cultural Heritage Trust Preserves.
- Permitted two external archaeological research projects: Jocassee Gorges Pinnacle Mountain Petroglyph Survey and the Botany Bay Heritage Preserve Pockoy Island Shell Ring Investigation.
- Secured National Historic Preservation Act Section 106 clearance for the Sassafras Mountain Observation Tower project.
- The Flora Carolina project has compiled online over 211,000 herbarium records from eight of the state's larger herbaria with 77,000 specimens photographed at high resolution.
- Cooks Mountain, part of the 3674-acre Wateree River Heritage Preserve and WMA, was surveyed for ecological significance.

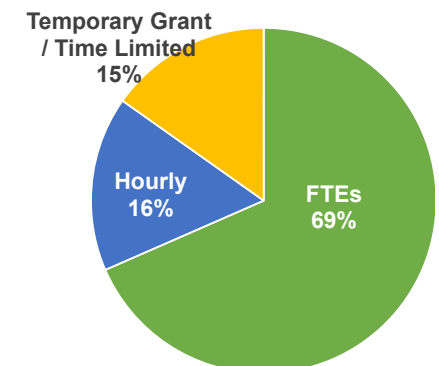


- Processed more than 300 requests for information from the Rare/Threatened/Endangered Species Database.
- Supported four active river conservation projects in 2017 where local partners are working to protect and enhance important river resources.
- Partners and staff collaborated to develop three information products in 2017: 1) HowsMySCRiver.org – a website for recreational water quality of Saluda and Congaree Rivers; 2) GoPaddleSC.com - a website guide to the state's rivers; and 3) the Edisto River Basin Boating Guide.
- 4,750 volunteers participated in Beach Sweep River Sweep and worked to remove litter and debris from public waterways at 120 sites statewide.
- Program staff provided technical assistance to the public in conjunction with the 46 Conservation Districts and the U.S. Department of Agriculture-Natural Resource Conservation Service (NRCS). Technical assistance includes producing conservation management plans. In FY 16-17, staff assisted with 876 conservation plans.
- Staff conducted 14 workshops and field days demonstrating the Rainfall Simulator unit which is an educational tool that illustrates water related soil erosion and runoff. The workshops are in cooperation with conservation districts, the National Grazing Land Coalition and the USDA-NRCS.

Expenses	Amount
General Fund Recurring	\$3,032,598
General Fund One Time	\$823,881
Earmarked	\$1,176,328
Restricted	\$1,224,829
<b>Federal</b>	<b>2,351,793</b>
<b>Total Expenses</b>	<b>\$8,609,429</b>



Employees	Count
FTEs	45
Temporary Grant/Time Limited	10.75
Hourly	10
<b>Total</b>	<b>65.75</b>



\*In addition, LWC averages approximately 10 hourly employees at any given time. This number varies throughout the year based on seasonal employment needs.