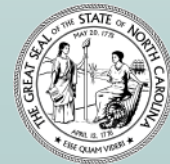




Environmental Divisions Update

Mitch Gillespie
Assistant Secretary for the
Environment

North Carolina Department of Environment and Natural Resources





Environmental Divisions

- Air Quality
- Coastal Management
- Ecosystem Enhancement Program
- Energy, Mineral and Land Resources
- Water Resources
- Waste Management
- Water Infrastructure Authority





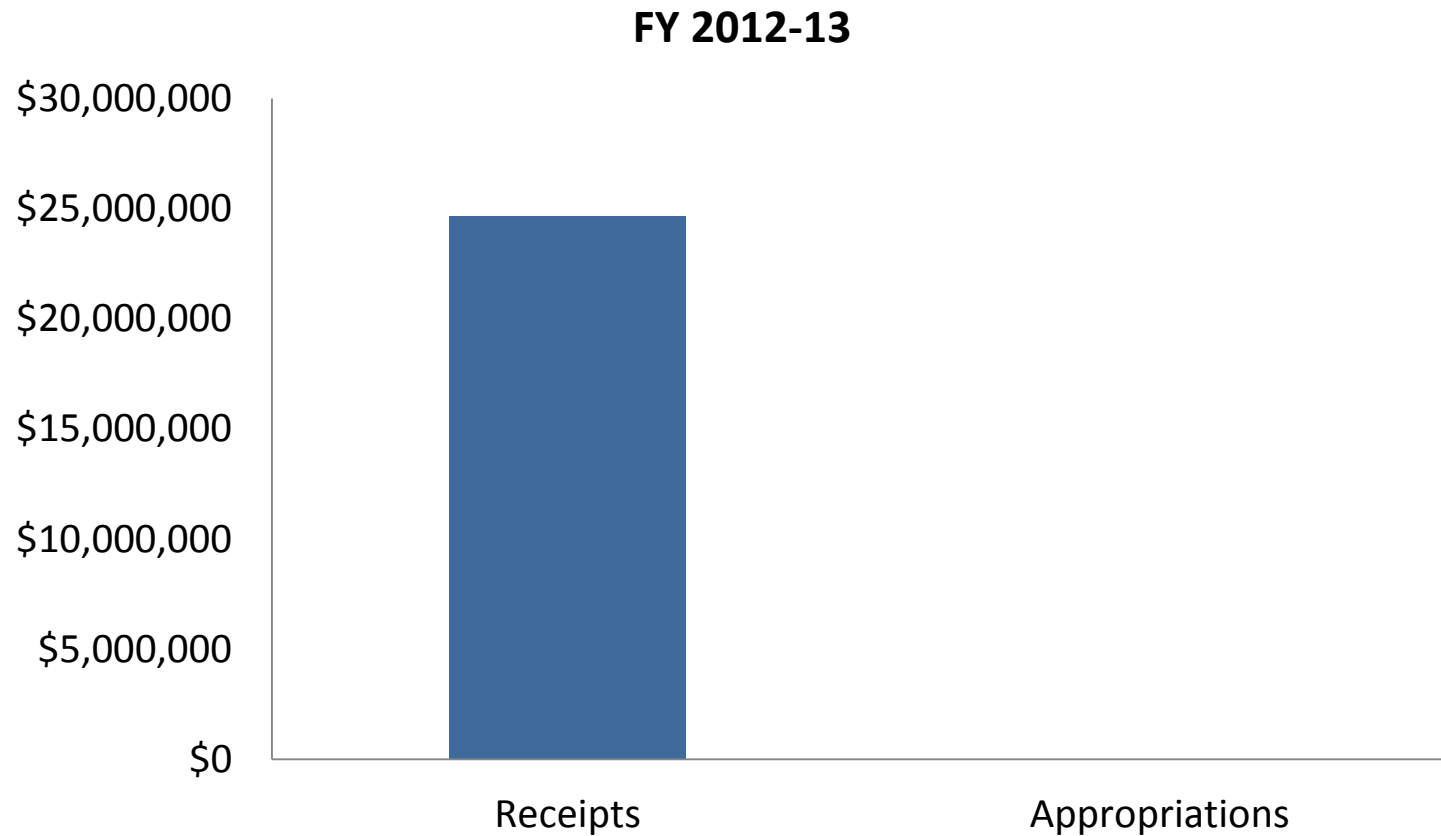
Air Quality: Overview

- Implements the federal Clean Air Act permitting program in the state
- Carries out state air quality statutes and rules
- 251 full-time employees
- 2013 Expenditures: \$24.6 M





Air Quality: 2013 Expenditures





Air Quality: Successes

- Now posting all permits online
- Air quality continues to show improvement in North Carolina





Air Quality: Challenges

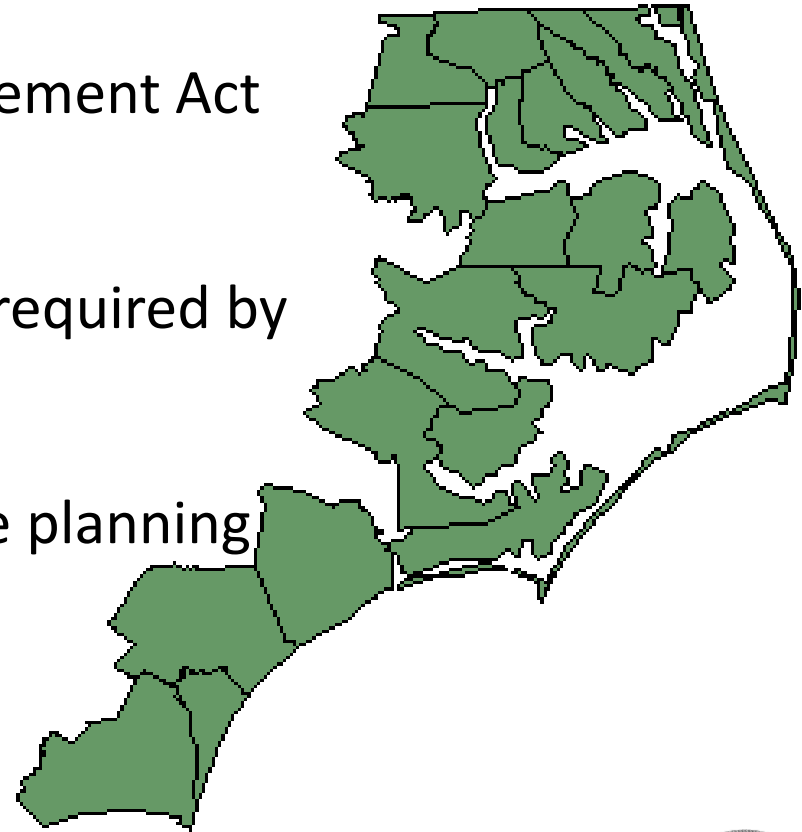
- EPA set to propose new ozone standard in summer 2014
- Upcoming EPA regulations for greenhouse gas emissions from power plants
- Implementation of new SO₂ standard





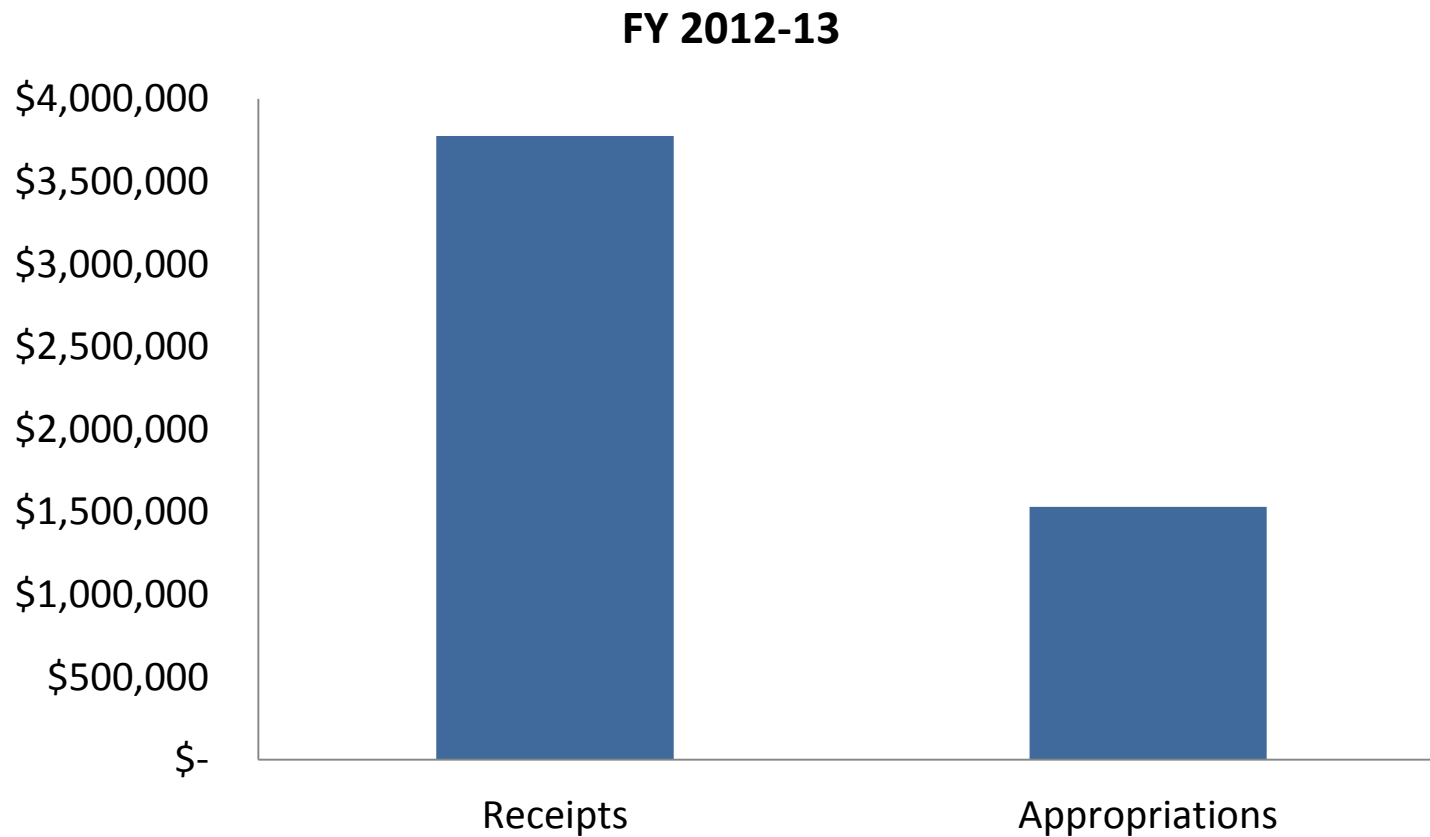
Coastal Management: Overview

- Manages ocean and coastal public trust resources
- Implements the Coastal Area Management Act (CAMA) in the 20 coastal counties
- Issues coastal development permits required by CAMA
- Assists coastal counties with land use planning
- 52 full-time employees
- 2013 Expenditures: \$5.3 M





Coastal Management: 2013 Expenditures





Coastal Management: Successes

- Worked with the General Assembly to enact changes for CAMA Major and Minor permits to expedite issuance
- Proposed, and received approval of, four rule changes to enhance customer service and reduce unnecessary regulatory burdens





Coastal Management: Successes

- Issued hundreds of emergency permits following Hurricane Sandy
 - Working closely with NCDOT to expedite NC-12 repairs and solutions
- Electronically scanned and archived all historical CAMA General Permits
- Launched an effort to collaborate with local governments on comprehensive beach and inlet management strategies to streamline permitting and reduce costs





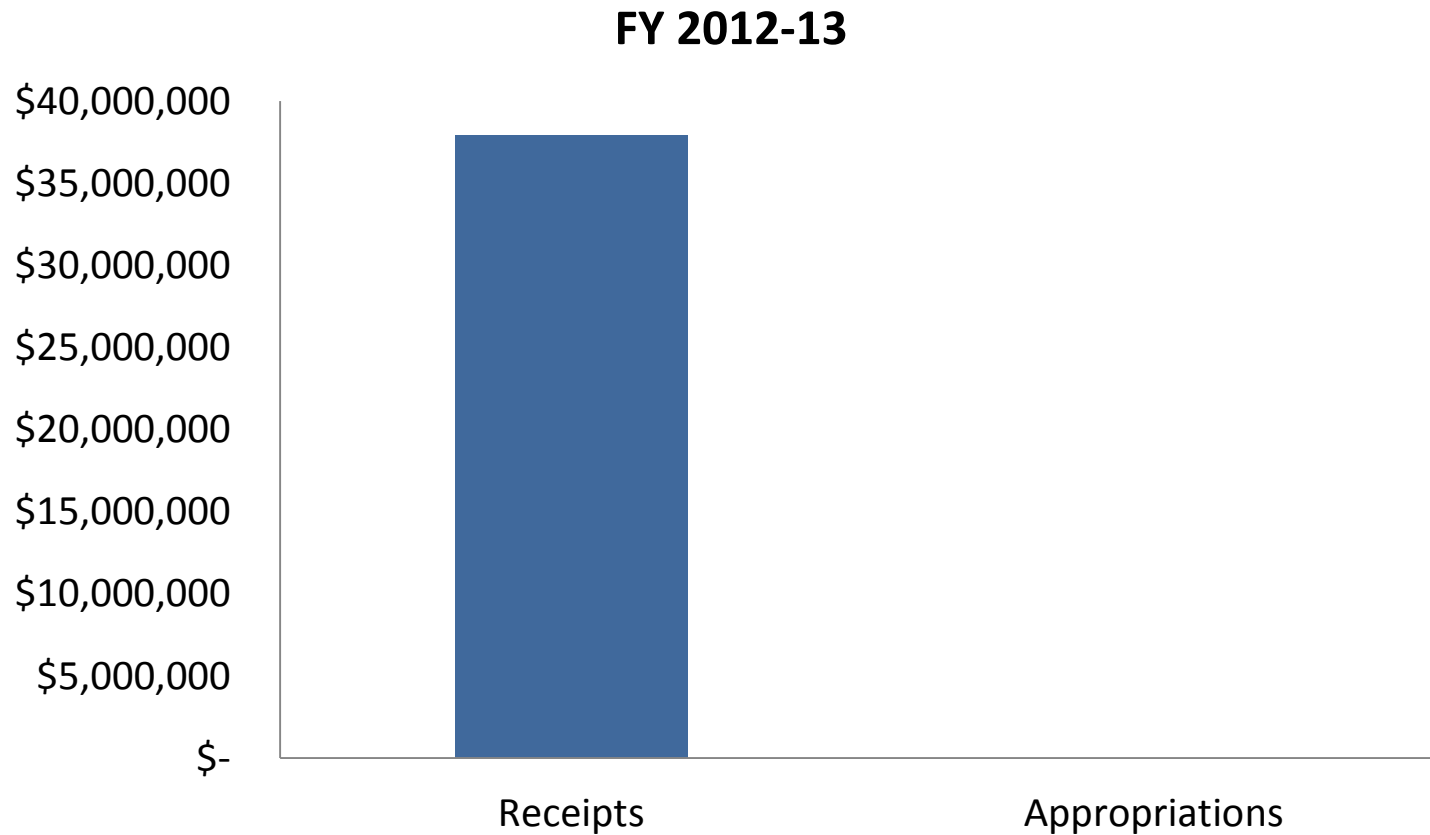
Ecosystem Enhancement Program: Overview

- The Ecosystem Enhancement Program (EEP) improves the environment while facilitating responsible economic development through stream and wetlands restoration
- 52 full-time employees
- 2013 Expenditures: \$37.9 M





Ecosystem Enhancement: 2013 Expenditures





Ecosystem Enhancement: Successes

- Accepted mitigation responsibility for 122 Clean Water Act Section 401 certifications and Section 404 permits to support economic development projects across NC
- Closed out 36 projects, developing mitigation credits valued at \$121,271,339 which offset economic development impacts
- Rolled out the Community Conservation Map, a crowd-sourced online map to capture information on landowners interested in conservation programs





Energy, Mineral and Land Resources: Overview

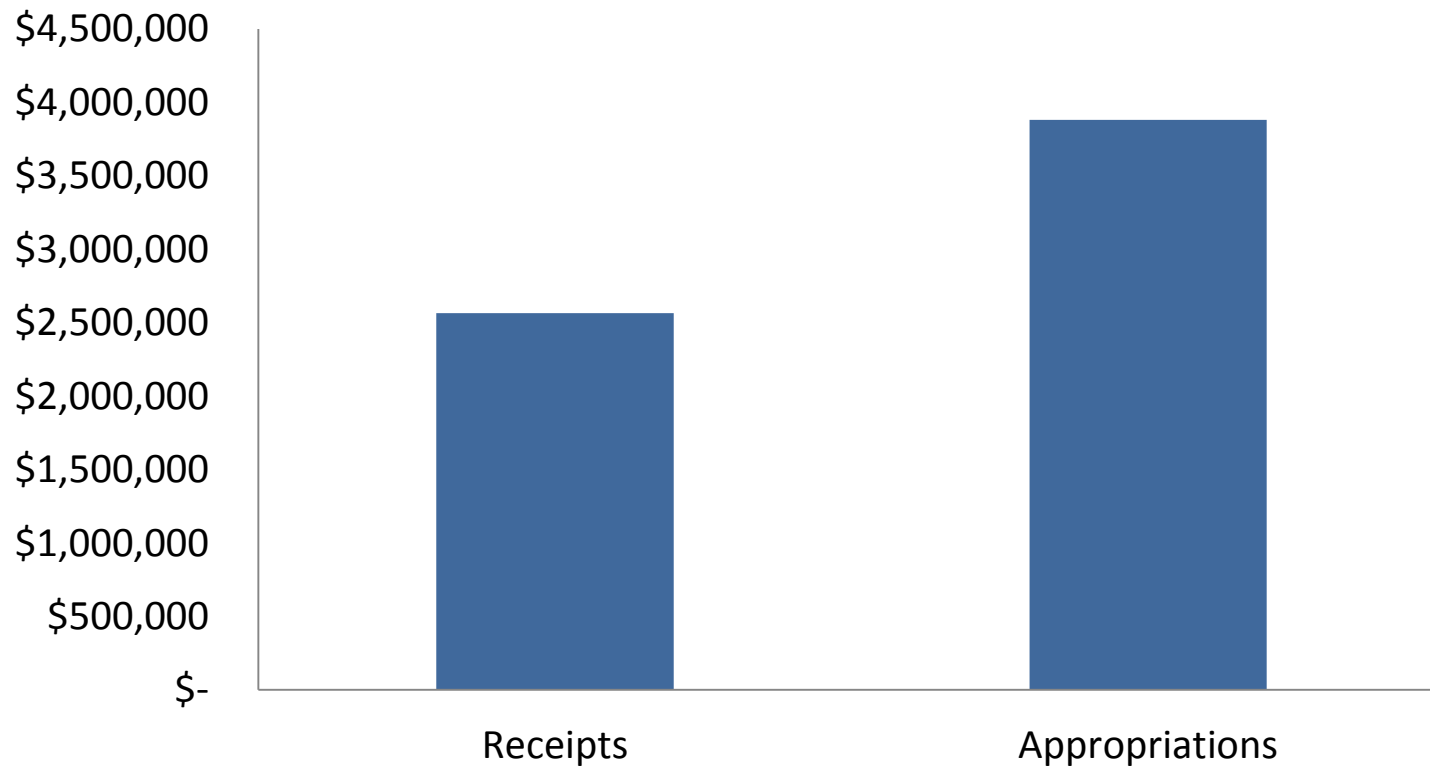
- The Division of Energy, Mineral and Land Resources (DEMLR) promotes the wise use and protection of North Carolina's land and geologic resources
- Regulates and provides technical assistance related to energy, mining, dam safety, stormwater and sedimentation control
- Performs scientific investigations of and maps the state's geological resources
- 139 full-time employees
- 2013 Expenditures: \$6.4 M





Energy, Mineral and Land Resources: 2013 Expenditures

FY 2012-13





Energy, Mineral and Land Resources: Successes

- Integration of Stormwater Permitting Program from the former Division of Water Quality
- Initiated a voluntary pilot fast track erosion and sedimentation control plan review and approval program
- Collaborated with Ashley Furniture to review an oversized erosion and sedimentation control plan; saved the company over \$100,000





Waste Management: Overview

- The Solid Waste Section regulates safe management of solid waste
- The Underground Storage Tank Section registers, permits and collects operating fees for commercial USTs and conducts periodic inspections to ensure compliance with standards
- The Hazardous Waste Section ensures the safe management of hazardous waste under requirements of the federal Resource Conservation and Recovery Act (RCRA) and additional state rules





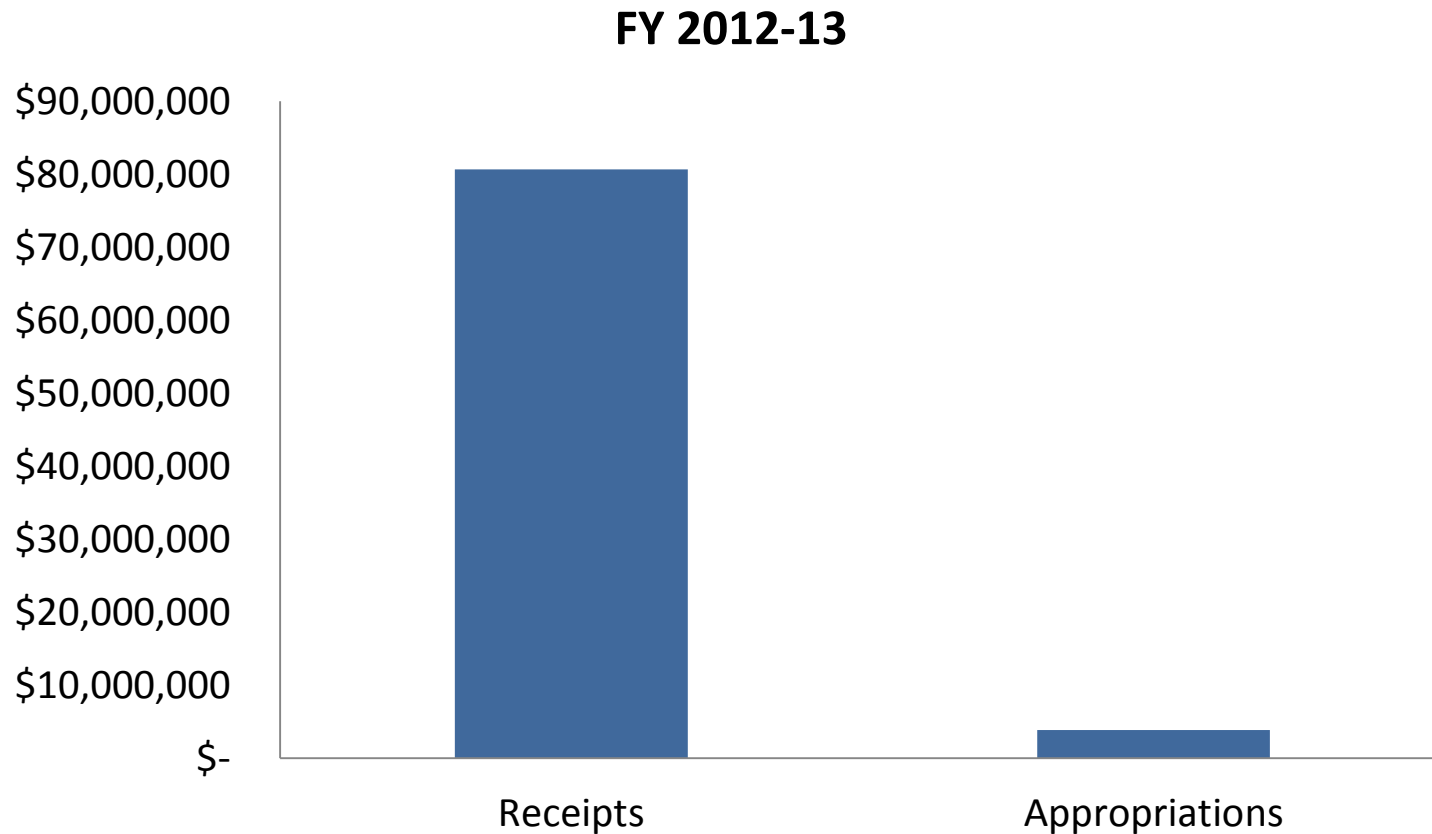
Waste Management: Overview

- Superfund Section investigates uncontrolled and unregulated hazardous waste disposal sites under federal and state laws
- Brownfields Program encourages economic redevelopment of contaminated sites
- 278 full-time employees
- 2013 Expenditures = \$84.6 M (including funds for assessment and remediation)





Waste Management: 2013 Expenditures





Waste Management: Successes

- Almost 750 acres of land redeveloped under the Brownfields Program, bringing an estimated \$550 million of private capital funding investment to North Carolina communities, creating jobs throughout the state
- Remediation completed and controls in place to protect human health and the environment at more than 600 contaminated sites
- 283 homes and businesses provided alternate drinking water when faced with the contamination of water supply wells





Waste Management: Challenges

- Addressing existing high risk sites, such as those with a potential for groundwater contamination to affect drinking water wells
- Addressing the decline in federal grants





Water Infrastructure: Overview

- Created by S.L. 2013-360 (the budget bill)
- Manages the following water infrastructure funds:
 - Clean Water State Revolving Fund
 - Drinking Water State Revolving Fund
 - State loan and grant programs
- Manages CDBG infrastructure grants
- 38 full-time employees





Water Infrastructure: Successes

- Exceeded the previous year's disbursements for projects under construction, increasing from \$90 million in FY 12 to \$113 million in FY 13
- The Drinking Water SRF and Clean Water SRF programs have been combined and are undergoing review to ensure consistency; this will make the funding process easier to understand





Water Resources: Overview

- New division as a result of reorganization
- Consolidation of former Division of Water Resources and Division of Water Quality
- 497 full-time employees
- 2013 Expenditures: \$69.4 M





New Division of Water Resources Responsibilities

- Water quality programs
- Public water supply programs
- Water resource management and planning programs
- Water quality and quantity monitoring programs
- Hydrologic modeling
- Assistance to local governments for water supply planning
- Wetlands and buffer programs
- Water resource development grants





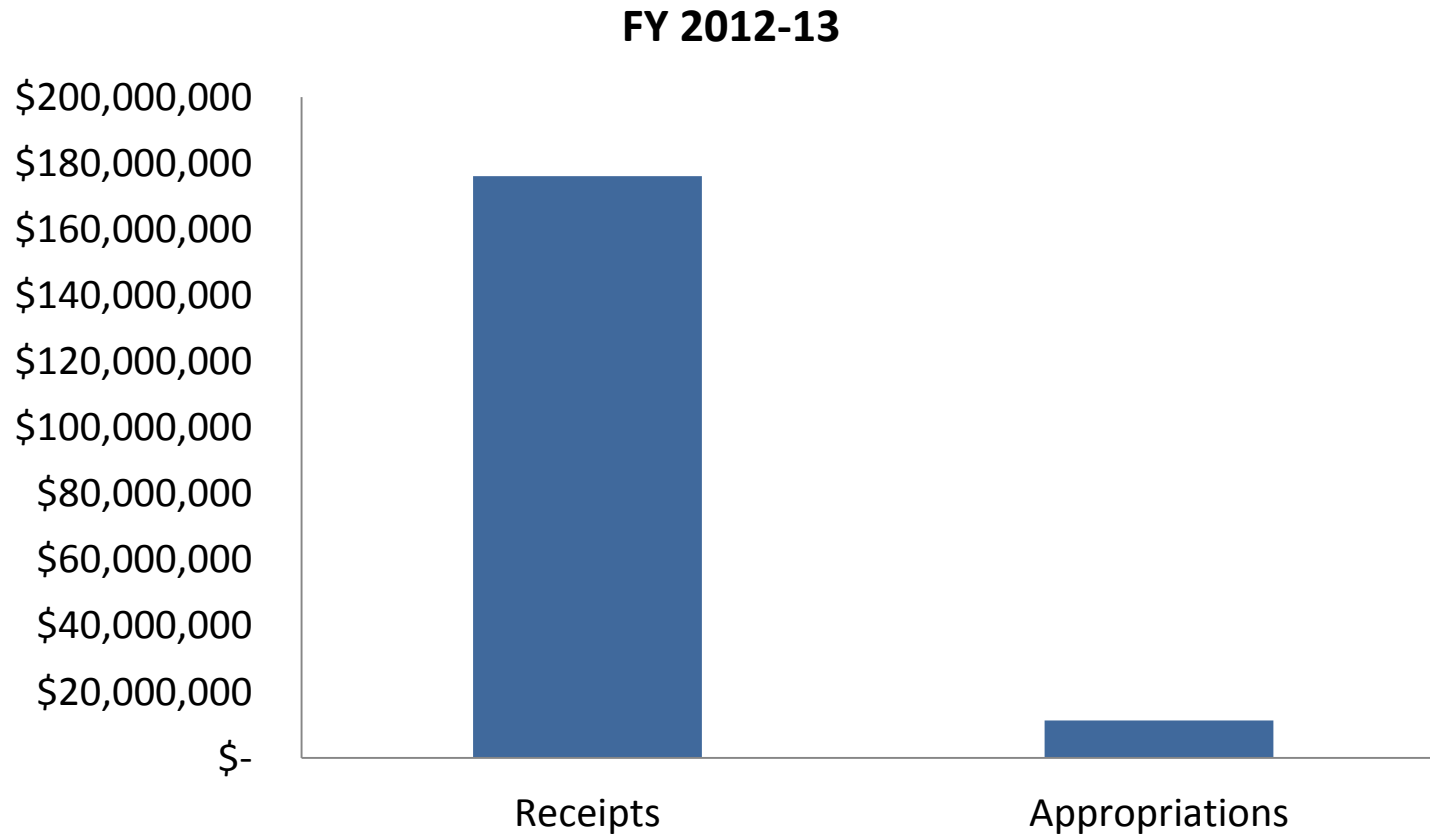
New Division of Water Resources Responsibilities

- Inter-basin transfers
- Wastewater treatment plant permitting and compliance
- Safe Drinking Water Act compliance for drinking water
- Drought monitoring and management
- Technical assistance to local governments and permitted facilities
- Concentrated Animal Feeding Operation (CAFO) permitting and assistance
- Dredging and beach nourishment



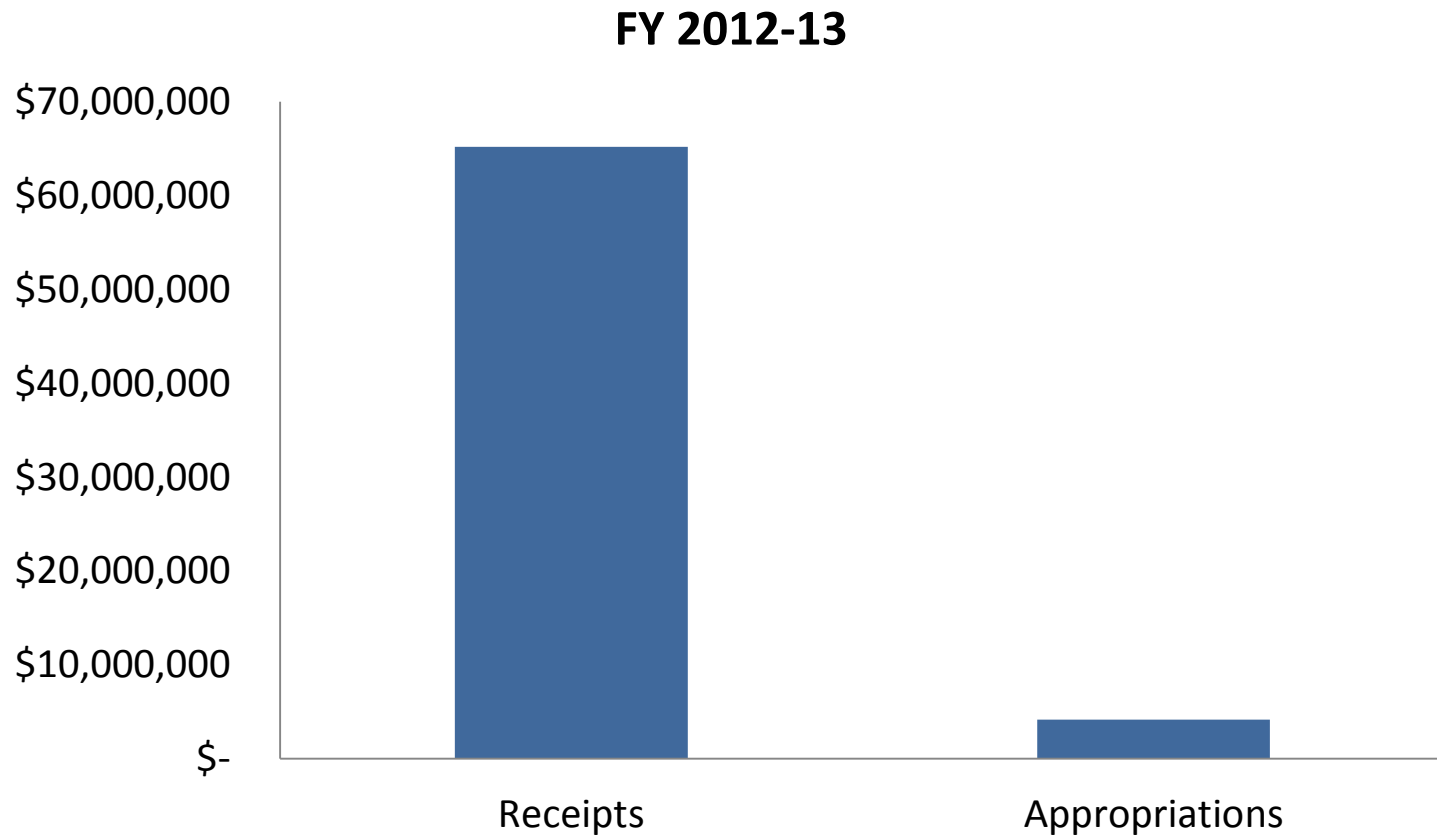


Water Quality: 2013 Expenditures





Water Resources: 2013 Expenditures





Water Resources: Successes

- DWR and DWQ merger will result in a reduction in cost of at least \$4 million and increased efficiencies
- Expedited authorizations for Vance County's drinking water expansion project, enabling the County to meet a tight deadline to secure a \$10 million grant
- Collaborated with the City of New Bern to use an unused stone quarry to help meet wastewater effluent nutrient limits
- Worked with Sampson County Economic Development Commission and Enviva to determine an isolated wetlands permit was not needed, saving about \$1.6 million in mitigation fees





Water Resources: Successes

- Facilitated a collaborative approach to nutrient management on Lake Wylie that protects water quality while allowing a regional wastewater plant to be built, supporting continued growth in the Charlotte-Mecklenburg area
- Mooresville Regional Office staff provided assistance to the City of Hickory's water treatment plant when it shut down, working from 1 a.m. to 11:30 a.m. to help get the plant back online and averting a Safe Drinking Water Act violation





Questions?

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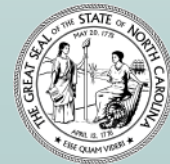




Natural Resources Update

Brad Ives
Assistant Secretary for Natural Resources

North Carolina Department of Environment and Natural Resources





Natural Resources Divisions





Parks and Recreation: Overview

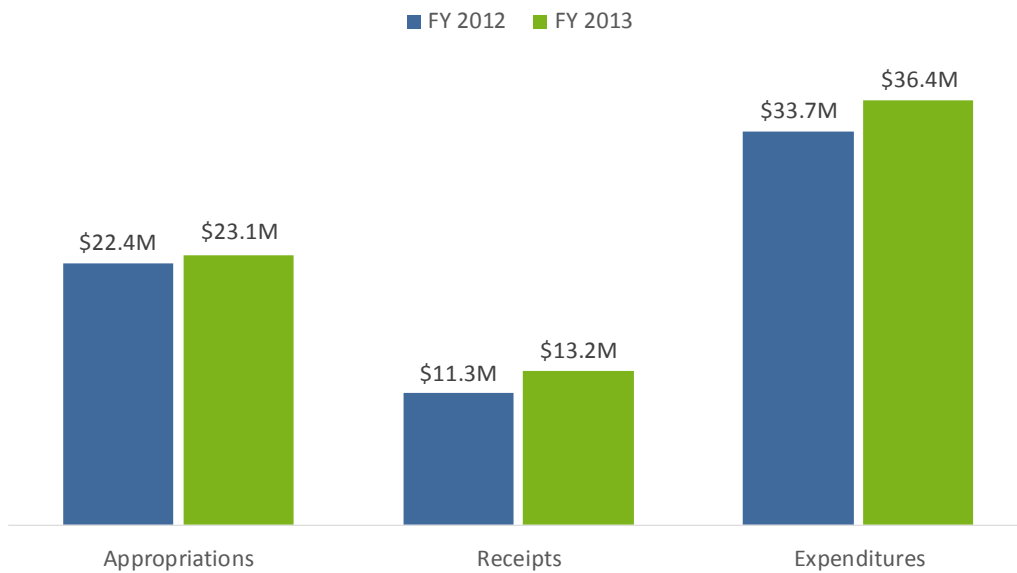
- Mission: To protect significant natural and recreational resources, to provide recreational and educational opportunities.
- 35 parks, 20 natural areas, 4 recreational areas
- 41 staffed operating units
- 469 full-time employees, 693 part-time and temporary
- Record visitation in 2012 and 2011 (14.2 million visits)
- Total annual economic impact is more than \$400 million





Parks and Recreation: Budget

Summary of Parks Budget





Parks and Recreation: Successes, Challenges

Successes

- Opening of Carvers Creek State Park
- Initiated planning for State Parks centenary (2016)
- Finalist: Gold Medal Award for Excellence in Parks and Recreation Management
- Energy audit program underway
- Remarkable employee contributions at Morrow Mountain and Carolina Beach

Challenges

- Hydrilla and other exotic species
- Serving a growing population





Museum of Natural Sciences: Overview

- Mission: To enhance the public's understanding and appreciation of the natural environment
- Main museum: state and regional focus, "what we know"
- Nature Research Center: global focus, "how we know"
- Prairie Ridge Ecostation (Raleigh) and Forestry Museum (Whiteville)
- 155 full-time employees, 50 part-time and temporary
- North Carolina's most visited attraction (1.2 million visitors in 2012)
- 60,000 volunteer hours

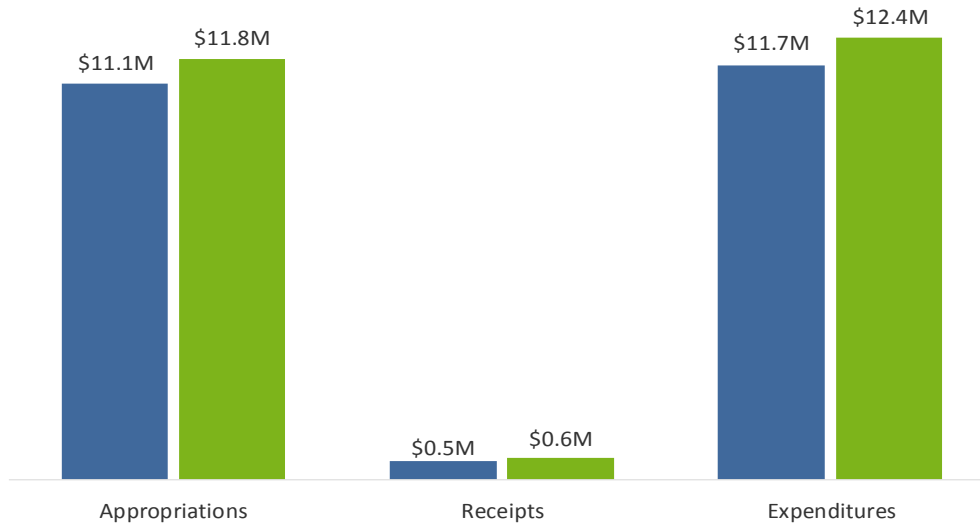




Museum of Natural Sciences: Budget

Summary of Museum Budget

■ FY 2012 ■ FY 2013





Museum of Natural Sciences: Successes, Challenges

Successes

- Leadership transition
- Discovery of the olinguito in partnership with Smithsonian
- Live link with International Space Station
- Finalist: National Medal for Museum and Library Service



Challenges

- Higher operating costs due to Nature Research Center opening
- Forestry Museum





Zoo: Overview

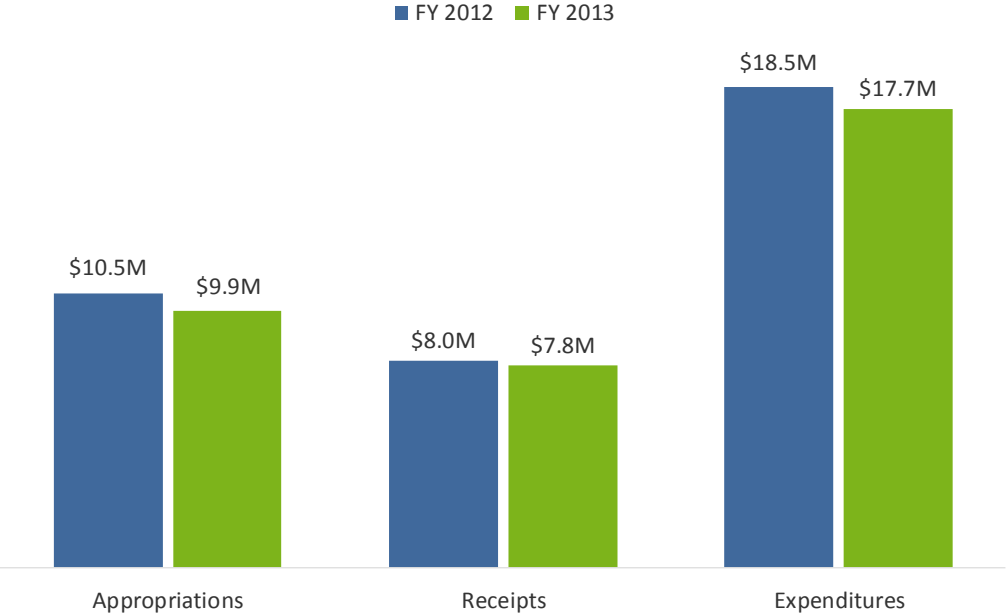
- Mission: To portray and reflect the natural environment of the species on display
- At 2,200 acres, the world's largest zoo
- Located in Asheboro
- 1,600 individual specimens and more than 225 species on display
- 260 full-time employees, 132 part-time and temporary
- 732,000 visitors in FY 2013





Zoo: Budget

Summary of Zoo Budget





Zoo: Successes, Challenges

Successes

- Initiated redesign of US-64 bypass to improve access
- Transition plan for zoo leadership underway
- Completion of state-of-the-art polar bear exhibit

Challenges

- Acquisition of new polar bears
- Aging facilities and animals
- Partnerships to develop hotel and conference facilities





Aquariums: Overview

- Mission: To inspire appreciation and conservation of North Carolina's aquatic environments
- 1.2 million visitors in 2012-2013
 - Roanoke Island, 268,000 visitors
 - Pine Knoll Shores, 428,000 visitors
 - Fort Fisher, 442,000 visitors
 - Jennette's Pier, 302,000 visitors
- 141 full-time employees, 163 part-time and temporary

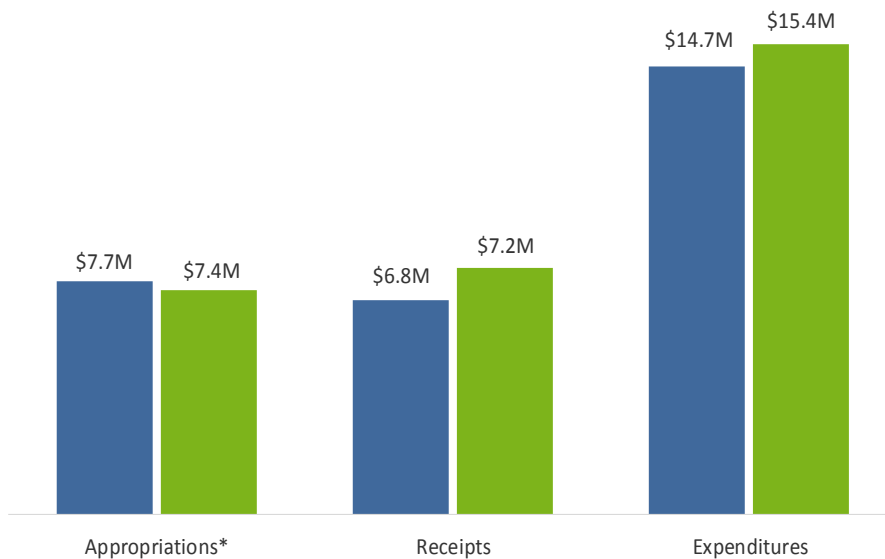




Aquariums: Budget

Summary of Aquarium Budget

■ FY 2012 ■ FY 2013





Aquariums: Successes, Challenges

Successes

- Opened new soundside dock at Roanoke Island Aquarium
- Fort Fisher named as one of the “Best Aquariums in the US” by the Travel Channel



Challenges

- Restructuring relationship with Aquarium Society
- Increasing revenues
- Transition of temporary employees in light of ACA





Marine Fisheries: Overview

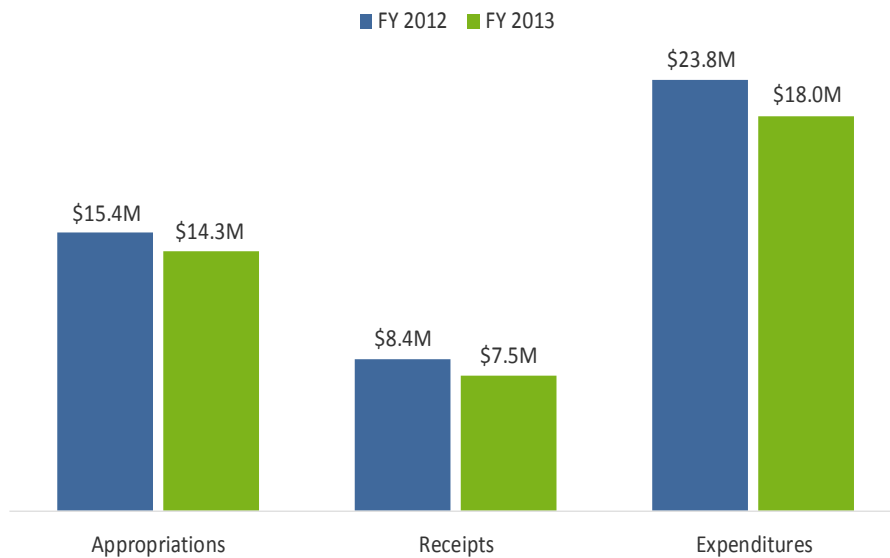
- Mission: To ensure sustainable marine and estuarine fisheries and habitats for the benefit and health of the people of North Carolina.
- Commercial fisheries: 3,167 participants, 56.7 million pounds landed, \$121.9 million economic impact
- Recreational fisheries: 5.3 million trips, 10.7 million pounds landed, \$585.2 million economic impact
- 257 full-time employees, 12 part-time and temporary
- 9,500 jobs supported in 2012





Marine Fisheries: Budget

Summary of Marine Fisheries Budget





Marine Fisheries: Successes, Challenges

Successes

- Secured the first ever statewide gill net Incidental Take Permit for sea turtles.
- Completed estuarine striped bass and southern flounder management plan revisions.
- Support for at-sea observer program



Challenges

- Optimizing fisheries resources while minimizing endangered species interactions
- Balancing interests between commercial and recreational user groups





Other Natural Resources Initiatives

Clean Water Management Trust Fund

- Adjustments to fund's purpose:
 - Add natural and cultural heritage
 - Eliminate stormwater and wastewater
- Natural Heritage Trust Fund contracts have been transferred
- Evaluation of the program underway
- \$10.4 million appropriated in FY 2014





Other Natural Resources Initiatives

Military Support

- Drafted and secured passage of HB 484, ensuring wind farm compatibility with military operations
 - Guidance manual drafted, scoping meetings scheduled
- Support for managing military endangered species obligations: environmental data, training on state lands
- Ongoing Clean Water Management Trust Fund acquisition of military buffer areas





Questions?

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