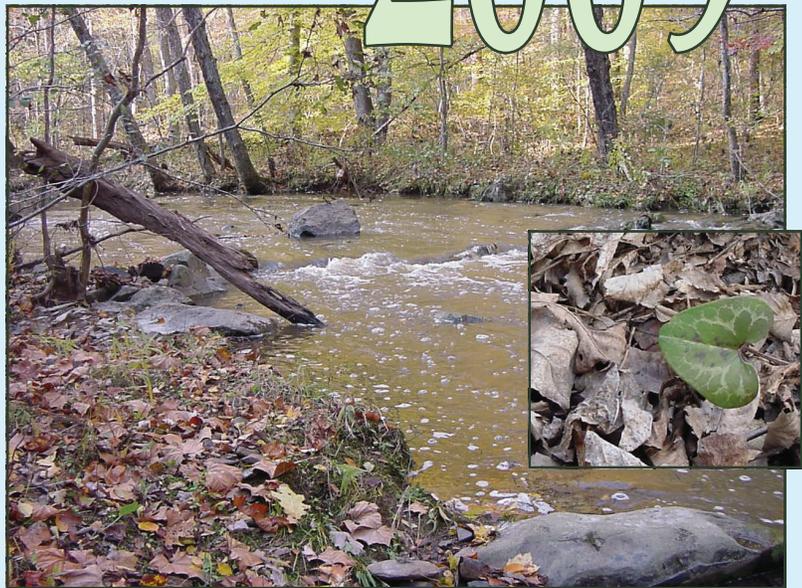


State of the Environment

2009



Orange County
Commission for the Environment

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Orange County Environment & Resource Conservation Department

The Board of Commissioners established the Environment & Resource Conservation Department on June 22, 1998 and authorized the Lands Legacy Program on April 4, 2000.

Staff Members

David Stancil, Director

Emily Ander, Research Associate

Tom Davis, Water Resources Coordinator

Margaret Jones, GIS Project Coordinator I

Carol Melton, Administrative Assistant II

Rich Shaw, Land Conservation Manager

Beth Young, GIS Project Coordinator II

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Printed copies of the 2009 SOE can be viewed at public libraries within the County or at the ERCD office.

For further information about the report please contact the ERCD at (919) 245-2590.

Cover photos by Rich Shaw. From left to right: Pickards Mountain, Eno River, Lewis' Heartleaf, Stone Currie Farmland on Old 86, Bolin Creek at Adams Preserve



Orange County Environment & Resource Conservation

306-A Revere Road / P.O. Box 8181

Hillsborough, NC 27278

Phone: (919) 245-2590 Fax: (919) 644-3351

Splendid Clubtail (Gomphus lineatifrons)

August 2009

What is the state of our environment?

Addressing this question from the global perspective, the Global Footprint Network (GFN) and the World Wildlife Fund report that *humanity uses the equivalent of 1.3 planets to provide the resources we use and to absorb our waste.*

Stepping down to the national level, we learn from the GFN that *if everyone lived the lifestyle of the average American we would need five planets.*

The *Ecological Footprint* was developed in 1990 by Mathis Wackernagel and William Rees at the University of British Columbia as a measure of humanity's demand on the planet's natural resources. It translates how much land area and water volume a human population requires to produce the resources it consumes and to absorb its wastes. The *Footprint* puts into simple terms the number of planets needed to support our activities and lifestyles.

For Orange County, this edition of the *State of the Environment Report (SOE)* provides a more detailed look at a variety of environmental indicators that are grouped into three key categories: Air Resources, Biological Resources and Water Resources. The indicators were selected to monitor and evaluate the progress the County and its citizens are making to protect, preserve, conserve and manage our environmental resources.

Both the *Ecological Footprint* and the SOE environmental indicators share the fundamental intent to assess our demands and impacts on environmental resources, inspire and inform public policy and practices to manage our ecological assets more efficiently and provide recommendations for personal and organizational actions that will lead toward a more robust environment.

This edition of the State of the Environment report continues the goals and format of the 2002 and 2004 documents, but with one key difference: this 2009 report is primarily a digital publication, accessible through the Orange County Website at http://www.co.orange.nc.us/ercd/2009_SOE_index.asp.

We encourage you to contribute to our local effort to conserve the Earth's resources by reading this report online. If you are interested in evaluating and decreasing the size of your own *Personal Ecological Footprint*, there is an interactive and informative quiz available at the Global Footprint Network website at <http://www.footprintnetwork.org>. You can find many other ideas on the final pages of this report.

Sincerely,

Michelle Kempinski and Johnny Randall, Co-Chairs
Commission for the Environment

PURPOSE

*The Orange County
Commission for the Environment
presents the
2009 State of the Environment to:*

- Describe the current status of Orange County's natural environment
- Provide measures to monitor and evaluate progress toward a cleaner, healthier environment
- Highlight the major environmental challenges facing the County
- Recommend actions to confront these challenges

Orange County's 2009 State of the Environment

OVERVIEW

| | |
|----------------------------------|---|
| Critical Issues | 3 |
| Highlighted Recommendations..... | 4 |
| Demographics | 5 |

AIR RESOURCES

| | |
|--|----|
| Introduction..... | 8 |
| Emissions Estimates | 9 |
| Emissions from Point Sources..... | 11 |
| Ozone Threshold Exceedances | 13 |
| Transportation Modes..... | 15 |
| Commuting Patterns | 17 |
| Public Transit (Bus) Ridership | 19 |
| Daily Vehicle Miles Traveled..... | 21 |
| Ongoing Concern: Greenhouse Gas Emissions..... | 23 |

BIOLOGICAL RESOURCES

| | |
|--|----|
| Introduction..... | 26 |
| Acres of Protected Land | 27 |
| Acres of Protected Natural Heritage Sites | 31 |
| Prime Forest..... | 33 |
| Acres within the Present Use Value Program | 35 |
| Status of Rare Plants and Animals | 37 |
| Emerging Concern: Land Application of Biosolids..... | 40 |

WATER RESOURCES

| | |
|---|----|
| Introduction..... | 44 |
| Water Usage | 47 |
| Public Water System Safe Yields | 49 |
| Groundwater Quantity | 51 |
| Groundwater Quality | 53 |
| Wastewater Treatment and Disposal..... | 55 |
| Surface Water Quality..... | 57 |
| Stream Ratings | 59 |
| Ongoing Concern: Radon and Arsenic in Groundwater | 62 |

LANDS LEGACY PROGRAM

| | |
|----------------------------|----|
| Lands Legacy Program | 63 |
|----------------------------|----|

CONCLUSION

| | |
|--|----|
| What can you do to improve the State of Your Environment?..... | 66 |
|--|----|

Figures

| | |
|---|---|
| Figure 1: Map of Orange County | 1 |
| Figure 2: Population Trends in Orange County, 1930-2007 | 5 |

AIR RESOURCES

| | |
|--|----|
| Figure 3: Inventoried and Projected Emissions by Source, 1997-2018 | 10 |
| Figure 4: Annual Point Source Air Pollution by Pollutant, 1993-2007 | 12 |
| Figure 5: Monthly Trends in Ozone Exceedance Days in the Triangle Region, 1997-2008 | 14 |
| Figure 6: Ozone Monitor Locations in the Triangle Region | 14 |
| Figure 7: Means of Transportation to Work in Orange County and North Carolina between 1990 and 2007 | 16 |
| Figure 8: Percentage of Employed Persons “In-” or “Out-Commuting” in Orange County between 1990 and 2006 | 18 |
| Figure 9: Annual Bus Ridership, 2002-2008 | 20 |
| Figure 10: Change in Daily Vehicle Miles Traveled, 1990-2018 | 22 |
| Figure 11: Percent of Greenhouse Gas Emissions by Sector | 24 |

BIOLOGICAL RESOURCES

| | |
|--|----|
| Figure 12: Percent of all Land in Orange County that is Protected | 28 |
| Figure 13: Protected Lands as of 2008 | 29 |
| Figure 14: Natural Heritage Sites as of 2008 | 30 |
| Figure 15: Percent of Protected Natural Heritage Sites as of 2008 | 32 |
| Figure 16: Orange County Forest Cover Change from 1988 to 2008 | 34 |
| Figure 17: Acres of Land in the Present Use Value Program, 1993-2008 | 36 |
| Figure 18: Biosolids Application Sites as of 2008 | 42 |

WATER RESOURCES

| | |
|---|----|
| Figure 19: Water and Sewer Primary Service Areas, Planning and Boundary Agreement, 2001 | 45 |
| Figure 20: Orange County Watersheds | 46 |
| Figure 21: NC-126 Regolith Observation Well Groundwater Level, 1943-2008 | 52 |
| Figure 22: Caldwell Bedrock Observation Well Groundwater Level, 1970-2008 | 52 |
| Figure 23: Groundwater Level in Caldwell Well During 2006-2008 Drought | 52 |
| Figure 24: Underground Storage Tank Incidents, 1986-2008 | 54 |
| Figure 25: Total Volume of Wastewater Spills, 1998-2008 | 56 |
| Figure 26: Septic System Installations and Repairs to Failing Systems | 56 |
| Figure 27: Dissolved Oxygen Level Trends, 1988-2008 | 58 |
| Figure 28: Total Nitrogen Level Trends, 1988-2008 | 58 |
| Figure 29: Impaired Water Bodies as of 2008 | 61 |

LANDS LEGACY PROGRAM

| | |
|---|----|
| Figure 30: Lands Legacy Projects, 2000-2008 | 65 |
|---|----|

Tables

| | |
|--|---|
| Table 1: Municipal and Unincorporated Populations, 1980-2007 | 6 |
|--|---|

AIR RESOURCES

| | |
|--|----|
| Table 2: Emissions in Tons per Day, 1997-2018..... | 10 |
| Table 3: Point Source Air Pollution, 1993-2007 | 12 |
| Table 4: Change in Average Travel Time to Work | 17 |
| Table 5: Change in “Out-Commuting” in Orange County Between 1990 and 2006..... | 18 |
| Table 6: Change in “In-Commuting” in Orange County Between 1990 and 2006 | 18 |
| Table 7: Bus Ridership, 2002-2008 | 20 |
| Table 8: Daily Vehicle Miles Traveled, 1990-2018..... | 22 |
| Table 9: Total State Maintained Road Lane Miles, 1985-2007 | 22 |
| Table 10: Energy Use..... | 24 |
| Table 11: Greenhouse Gas Emissions by Sector | 24 |

BIOLOGICAL RESOURCES

| | |
|---|----|
| Table 12: Total Acres of Protected Land in Orange County as of 2008 | 28 |
| Table 13: Total Acres of Protected Natural Heritage Sites as of 2008 | 32 |
| Table 14: Total Acreage in the Present Use Value Program, 1993-2008 | 36 |
| Table 15: Status of Orange County’s Rare Plants and Animals as of 2008..... | 38 |

WATER RESOURCES

| | |
|---|----|
| Table 16: Reported Water Usage (mgd), 1985-2005..... | 48 |
| Table 17: Percent Change in Water Usage (g/d/p), 1985-2005..... | 48 |
| Table 18: Public Water Supply Safe Yields, 1992-2008..... | 50 |
| Table 19: Average and Maximum Daily Demand Per Year, 1992-2008..... | 50 |
| Table 20: Groundwater Wells Installed, 1991-2007 | 52 |
| Table 21: Potential Threats to Groundwater Quality | 54 |
| Table 22: Wastewater Spills and Associated Permit Violations, 1998-2008 | 56 |
| Table 23: Water Quality Summary, 1984-2005 | 60 |

LANDS LEGACY PROGRAM

| | |
|--|----|
| Table 24: Lands Legacy Acquisitions, 2000-2008 | 64 |
|--|----|