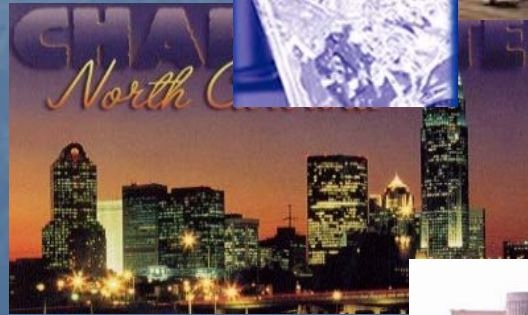


We expect a lot from our river basins.



- Aquatic Habitat
- Riparian Habitat
- Pollution Dilution
- Water Supply
- Power Generation
- Recreation

River Basin Water Supply Planning is a tool to:

- Support long range, sustainable management of North Carolina's river basins
- Provide a reliable, quantitative method to plan for sustainable water use
- Provide an objective basis for management and regulatory decisions

Critical Questions

How much water is available in the river system?

How much and when is water needed for the various services we expect the river to provide?

Water Use Data
+
Hydrologic Model

**Hydrologic
Model**

**Historical
Flows**

**Operation
Guidelines**

Water Use

**Evaluation
Criteria**

**Local Water
Supply Plans**

**Self-supplied
Industry**

Agriculture

**Other
Registered
Withdrawers**

Water Use Data

- **Local Water Supply Plans**
 - **Local Government Water Systems**
 - **Other Large Community Water Systems**
- **Water Withdrawal Registrations**
 - **Agriculture > 1,000,000 gallons per day**
 - **Non-agriculture > 100,000 gallons per day**



LWSP – Water Use Data

A local water supply plan is an assessment of a water system's current and future water needs and its ability to meet those needs.

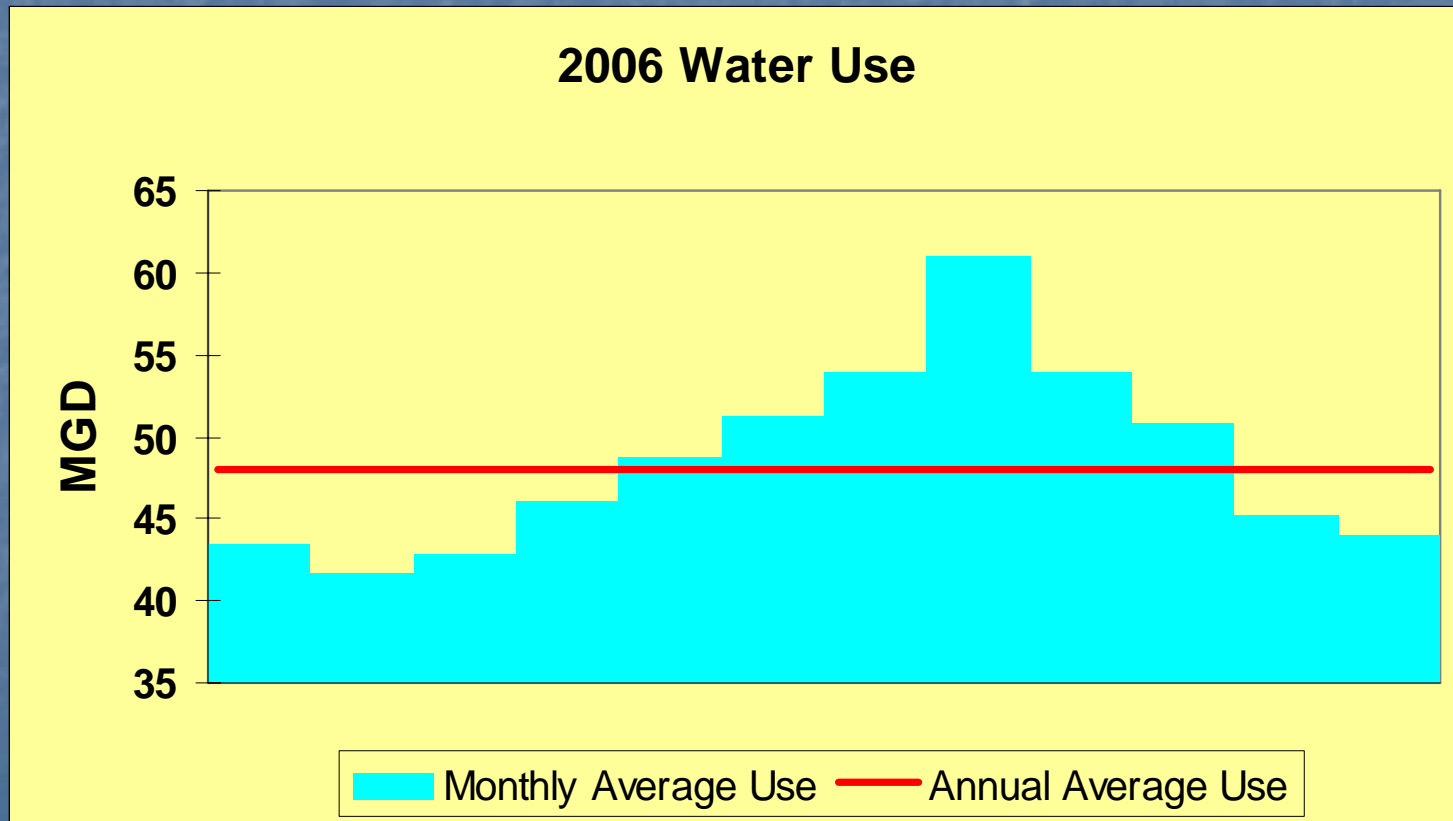
2006 Supply and Demand Projections



	2006	2010	2020	2030	2040	2050
Supply	68	83	83	103	103	103
Demands	48	56	70	84	101	121

LWSP – Water Use Data

Seasonal variation captured by using monthly water use pattern



LWSP - Water sharing relationships

Who depends on each water intake and wastewater treatment plant?

