



Water Allocation Committee Watauga River Basin Water Resources Plan (Information Item) July 2018

Department of Environmental Quality
Division of Water Resources
Planning Section



Watauga River Basin Water Resources Plan (draft 2018) General Statue Requirements

- Basin plans shall be developed, reviewed and revised at least every 10 years under NC General Statute Chapter 143, Article 21 (§143-215.8B)
- Basin plans shall provide that all point and nonpoint sources of pollutants jointly share responsibility in reducing pollutants in the State's waters [§143-215.8B(b)(1)]
- ☐ Basin plans should also include information about all transfers in and out of the basin as required under G.S. 143-215.22H [§143-215.8B(a)(2)]

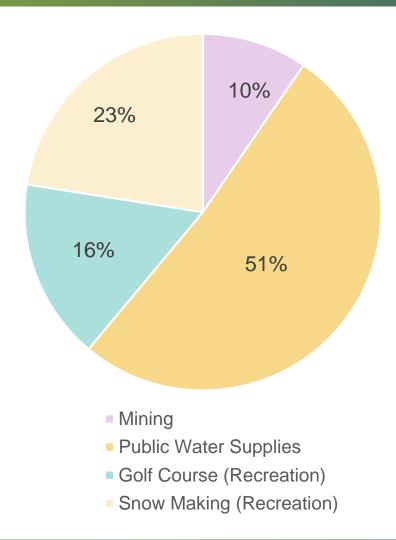


Watauga River Basin Water Resources Plan (draft 2018) Outline

- ☐ General Chapters (HUC 8)
 - ☐ Geography, Land Use, Population
 - Nonpoint Source Pollution, Programs to Protect Water Quality
 - Permits
- □ Water Use
- Monitoring Data and Water Quality Assessment
- Watershed Chapters (HUC 10 and HUC 12)



Watauga River Basin Water Resources Plan (draft 2018) Annual Average Total Water Use (2015)

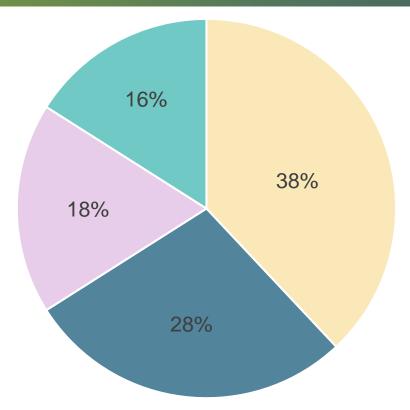


Total water use in the basin in 2015 was 2.029 mgd with the 51% being used by PWS systems or community wells.

Five PWS systems are required to submit local water supply plans (LWSP). Residential use is expected to **increase** from 35% to 41% of total use by 2060. Non-residential use, system processes and unaccounted-for water is expected to **decrease** by 1% to 3% by 2060.

There are no interbasin transfers, interconnections or emergency connections between the PWS systems. Each system is independent of the other due to terrain, elevation and physical location.

Watauga River Basin Water Resources Plan (draft 2018) Registered Water Use (2015)



Water Withdrawal and Transfer Registration (WWATR) Database

Withdraw more than 100,000 gallons per day or 1 mgd for agriculture operations.

Total number of facilities/entities: 13

Total Annual Average Withdrawn: 1.197 mgd

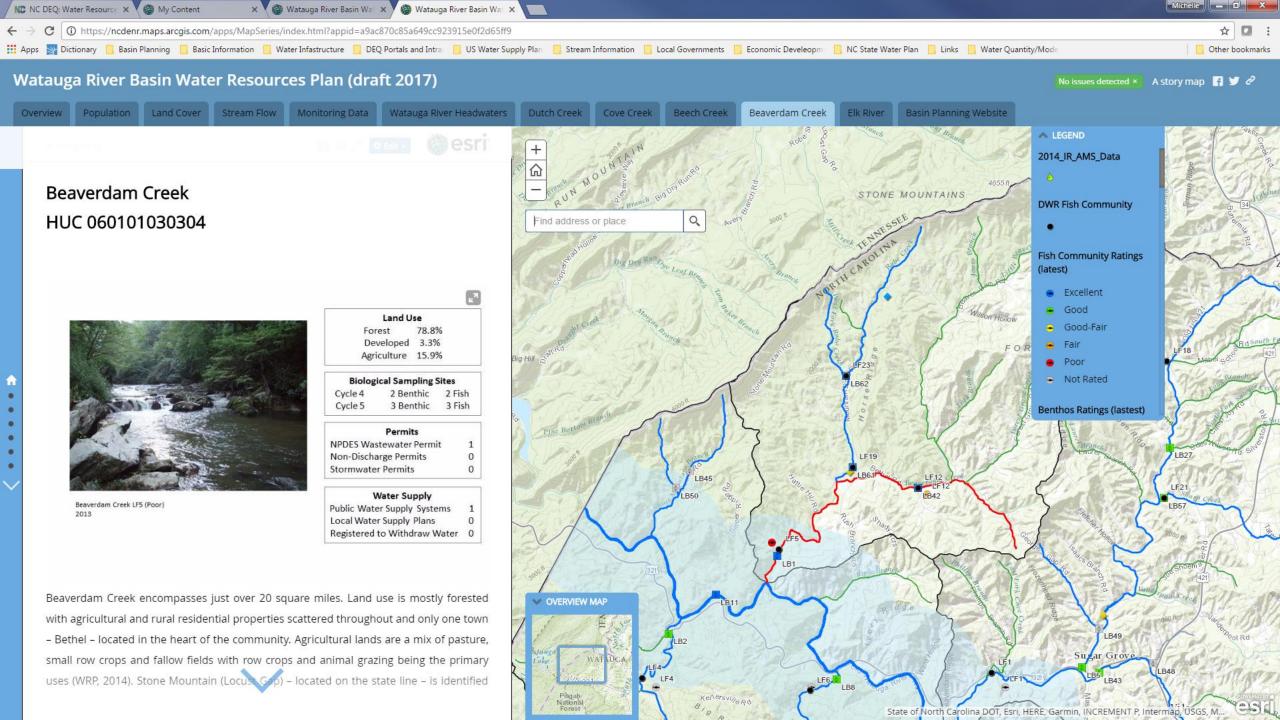
- Snow Making
- Golf Course (Irrigation)
- Public Water Supply (PWS) System/Community Well
- Mining



Watauga River Basin Water Resources Plan (draft 2018)

- □ No ground water monitoring wells. Ground water monitoring wells can be used by DWR Ground Water Management Branch (GWMB) to estimate ground water availability and determine if the supply can support current and future demands.
- ☐ To understand how surface water withdraws can change water availability in the basin, a hydrologic computer model is being developed. A model can assist with planning for increased water use, assist with regulatory decisions on waste assimilative capacity and help manage resources during drought conditions. A hydrologic model is being developed for the Watauga, New and French Broad River basins.





Watauga River Basin Water Resources Plan (draft 2018) Next Steps

- Public Comment Period
- → Address Public Comments
- EMC Final Approval





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Photos: DWR Biological Assessment Branch (BAB)

