

# US Army Corps of Engineers W. Kerr Scott Project

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**Yadkin-Pee Dee Water Management Group**  
January Meeting

09 January 2025



US Army Corps of Engineers  
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W. Kerr Scott Reservoir

# W. Kerr Scott Project



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# Authorization of the W. Kerr Scott Project

- **Was Authorized by the Flood Control Act of 1946**
- **1950, 1953 and 1954 - Additional studies were done detailing needs of region and refining scope of project.**
- **1960 - USACE awarded construction contract**
- **1963 - Project was completed and placed into operation.**

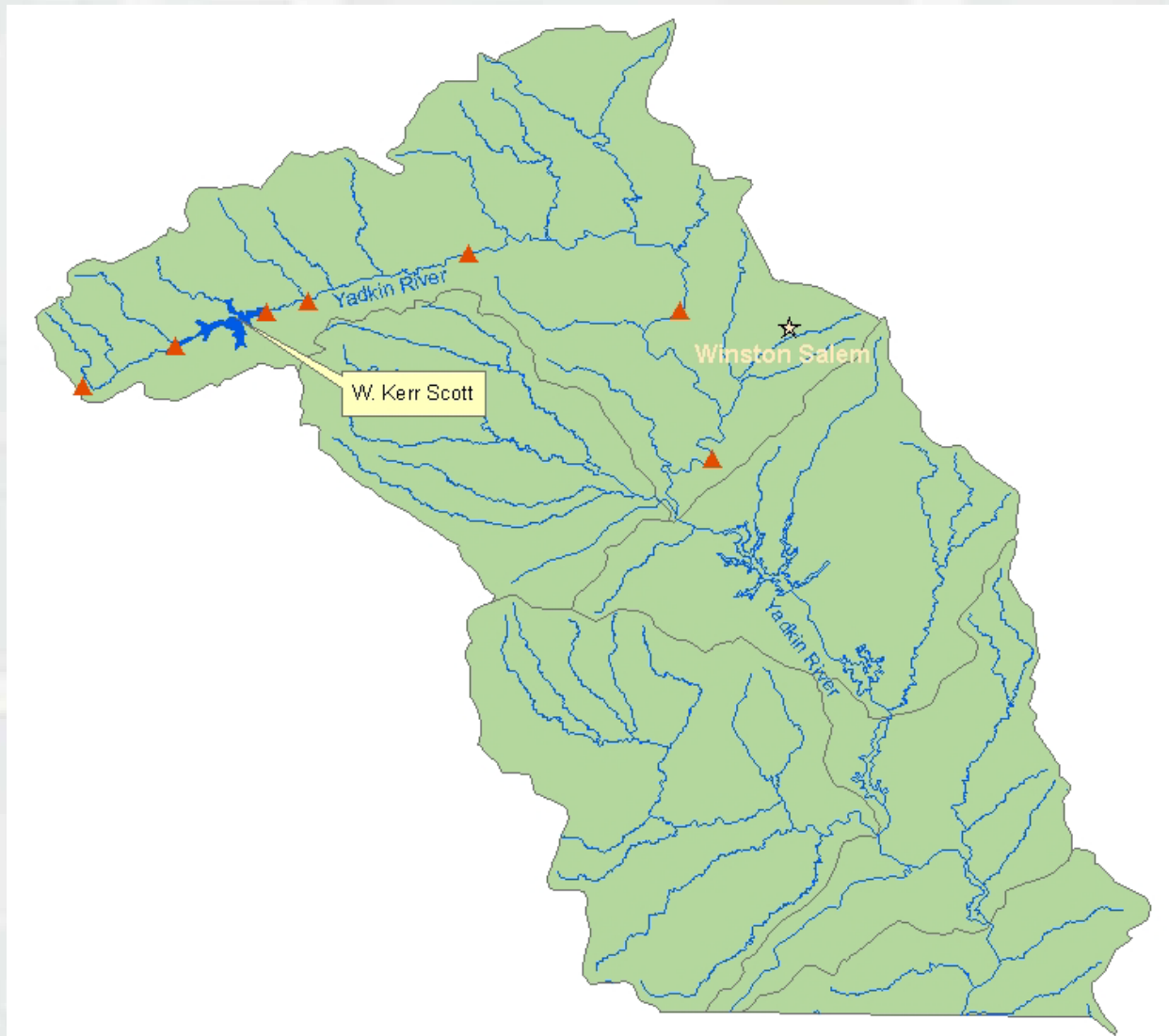


# **Additional History of the W. Kerr Scott Project**

- In 1963, the name of the project was changed by the US Congress from “Wilkesboro Reservoir” to “W. Kerr Scott Dam and Reservoir” in honor of the former Governor and US Senator from North Carolina**
- In 1980, responsibility for operating the W. Kerr Scott project was transferred from the Charleston to the Wilmington District.**



# Yadkin River Basin



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# W. Kerr Scott Project Purposes

**Low Flow Releases**

**Water Supply**

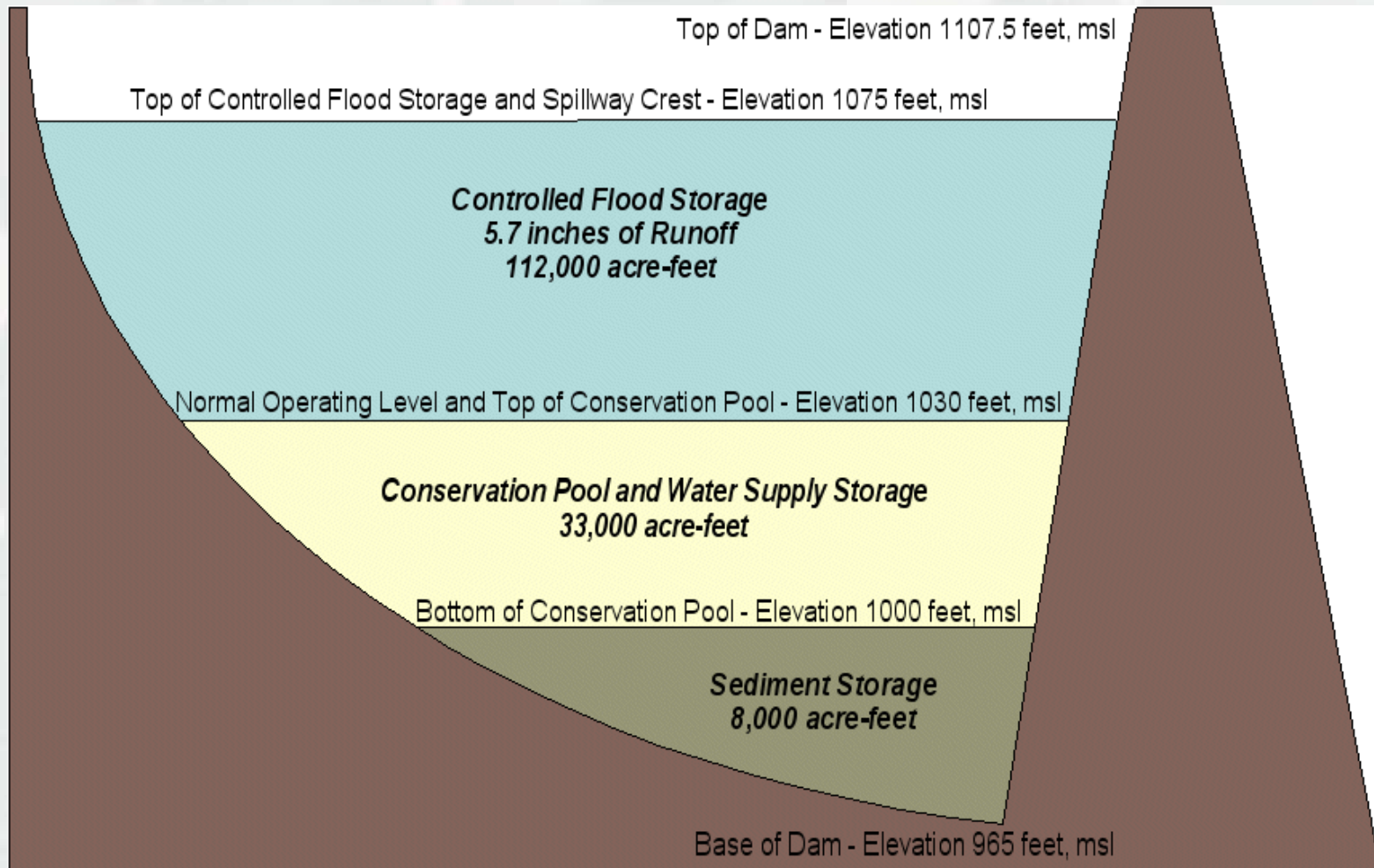
**Flood Control**

**Recreation**



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# Operating Elevations and Storages



# Operational Considerations

- **Maintain normal pool (guide curve)**
- **Above guide curve**
  - ∅ Flood operations
- **Below guide curve**
  - ∅ Low-flow releases
  - ∅ Water supply releases





# Flood Operations

- Reduce downstream flood risk
- Reduce releases ahead of storm events
- Release up to non-damaging flows
- Water Control Plan governs releases
  - ∅ Max “normal” flood release ~5400 cfs
  - ∅ Limit stage at Wilkesboro to 12 ft (~9700 cfs)
  - ∅ Full conduit capacity if spillway overflows
- Pool of Record: Jun 2019 - 1062.61 ft-msl



# Water Supply

- Water Supply storage is co-owned by Winston-Salem and Wilkes County
- Additional Water Supply releases are directed by Winston-Salem for downstream withdrawals
- All associated intakes are currently downstream of the dam



# Low-Flow / Drought Operations

Lake Level (feet-msl)	Min Flow Target at Wilkesboro Gage
> 1029	400 cfs
< 1029	350 cfs
< 1028	300 cfs
< 1027	250 cfs
< 1026	200 cfs
< 1024	150 cfs
< 1023	Min release (125 cfs)

- Minimum release of 125 cfs requirement at all times, except during inspections and maintenance.
- Flow targets revised most recently in 1989
- Future revisions would require a Water Control Plan update, which requires public input and NEPA process



# Water Supply Alternatives

- Raising Guide Curve
- In lake intakes
- Flow target modifications



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# Modifications to Water Supply Agreements

- Changes and modifications to the Water Supply agreements will require money, time, and coordination to include the following:
  - ∅ Water Control Plan updates
  - ∅ Public input
  - ∅ NEPA study
  - ∅ Process could take years



# Questions



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