

# Roanoke River Lake Gaston Roanoke Rapids Lake



March 8, 2019

# 2018/19 Lake Levels

- Lake Gaston
  - Normal: 199.0 – 200.0
  - 2018 Range 199.0 – 201.3
  - 2019 Range 199.1 – 201.4
- Roanoke Rapids Lake
  - Normal 127-132
  - 2018 Range 127.0 – 132.3
  - 2019 Range 126.7 – 132.3

# Lake Gaston Levels

- Between Sep 22 – Feb 28 the Lake Gaston Dam gauge indicated:
  - Peak level 201.4 ft (Feb 24<sup>th</sup>)
  - 0 hours over 201.5 ft
  - 245 hours over 201.0 ft
  - 16 of 22 Weeks in Flood Control, 9.1% of that above 201 ft

# River Flows since September

- 1965-2017 average flows for this period
  - 6,125 cfs
- Sep 22, 2018 – Feb 28, 2019
  - Average flow: 24,800 cfs
  - Highest average monthly flows on record for Oct- Jan. (1912)

# River Flows

- 2018 From September
  - Average of 25,260 cfs or 11 million gallons per minute
  - Low daily average on Jan 24th: 2,307 cfs
  - High daily average on Nov. 29<sup>th</sup>: 35,400 cfs 22.9 BGD
- 2019
  - Average of 21,800 cfs
  - Low daily average on Feb 16th: 6,070 cfs
  - High daily average on Feb 28<sup>th</sup>: 34,460 cfs 22.3 BGD
- Flood Control Declarations by the Corps
  - Not in flood control 2 weeks each in Dec, Jan and Feb
  - Flooding upstream and downstream
  - 2018 high daily inflow into Kerr: 125,963 cfs

# Generation

- The two dams generated 848,000 megawatt hours of electricity in 2018.
- 50% increase over the average year
- Cheapest electricity in the fleet with fuel cost passed directly to the consumer