

Corps Water Management Weekly Status Report – 14 August 2017

Weather Summary:

Beneficial rain across the District this past week, with widespread 2-4 inches over most project watersheds. Generally one inch of rain forecast for NC over the next week, with only ½ inch in the Roanoke basin. Improved chances of above-normal precip for the remainder of the 2-week outlook, with above-normal temps. Longer term, the August and Aug-Sep-Oct outlooks both show equal chances for below-, near- and above-normal rainfall and above-normal temps.

Tropical Activity: Tropical Storm Gert, located ~460 miles WSW of Bermuda, moving north with max sustained winds of 60 MPH. Gradual turn toward northeast, with additional strengthening to a Hurricane by tomorrow (15 Aug). The current forecast keeps Gert off shore on a northeast track. Further out, there is also a tropical disturbance southwest of the Cabo Verde Islands, moving westward; 60% chance of cyclone formation over the next 5 days.

Reservoir Summaries:

Reservoir	14-Aug-17 0800 Elev (ft-msl)	Guide Curve (ft-msl)	Forecast 21-Aug-17 Elevation (ft-msl)	Average Net Inflows		Rainfall at Dam	
				7-day cfs (% median)	Aug cfs (% median)	7-day (inches)	Aug (inches)
Falls	251.31	251.5	251.2	591 (306%)	289 (133%)	3.25	3.25
Jordan	215.01	216.0	214.80	376 (69)	177 (34%)	1.05	1.05
Scott	1031.98	1030.0	1030.5	418 (103%)	352 (89%)	5.04	5.21
Kerr	298.88	299.5	298.9	3362 (71%)	2438 (52%)	4.15	4.15
Philpott	970.81	973.0	970.3	145 (95%)	108 (71%)	2.52	2.64

Reservoir	Current Flood Storage % Remaining	Current Water Quality % Remaining	Forecast 80% WQ Remaining	Forecast 60% WQ Remaining	Current Water Supply or Power Pool % Remaining	Forecast 80% WS or PP Remaining	Forecast 60% WS or PP Remaining
Falls	100	97	Late Sep	*	99	*	*
Jordan	100	86	Mid Aug	End Sep	91	*	*
Scott	97				100	*	*
Kerr	100				94	*	*
Philpott	100				92	*	*

NOTE: Water Quality, Water Supply, and Power Pool forecasts extend through end of September 2017.

* indicates that storage remaining does not drop below indicated threshold by end of forecast period.

Falls: Currently near elev 251.3 ft (0.2 ft below guide curve). Currently releasing near 100 cfs. Clayton is currently near 700 cfs; minimum flow target at Clayton is 254 cfs.

Jordan: Currently near elev 215.00 ft (1.00 ft below guide curve) and slowly falling. Outflow is 400 cfs and will likely hold. Lillington is currently near 550 cfs and steady; target flow at Lillington is 600 +/- 50 cfs.

W. Kerr Scott: Currently near elev 1032.4 ft (2.4 ft above guide curve). Releases are currently near 350 cfs with plans to increase to near 860 cfs by the end of the day (Monday). Wilkesboro is currently near 480 cfs; minimum flow target at Wilkesboro is 1100 cfs and falling.

Kerr/Philpott: Kerr is currently near elev 298.9 ft (0.6 ft below guide curve). This week's energy declaration supports minimum energy requirements for Kerr and Philpott and equates to a 7-day average release of ~3350 cfs. Without additional rain, lake levels expected to be near elev 298.8 ft by Friday. Releases next week also expected to be near 3350 cfs without additional rain.

Philpott is currently near elev 970.8 ft (2.2 feet below falling guide curve). Releasing about 200 cfs through sluice gate and low-flow valve. Without additional rain, expect lake level to be nr elev 970.4 ft by Friday. Full plant outage expected to continue for an additional 2-3 months.