

Corps Water Management Weekly Status Report – 12 February 2018

Weather Summary:

Substantial rainfall across western NC and VA this past weekend, totaling 3" or more across the upper Roanoke and Yadkin River Basins. Fairly dry for the remainder of this week, with only a half-inch or less forecast—however, above-normal precip and temps are expected for the remainder of the 2-week outlook. Longer term, equal chances of below-, near-, and above-normal precip in the Feb-Mar-Apr outlook across most of the district, with slightly higher chances of below-normal precip across southeastern NC, along with above-normal temps across the District.

Reservoir Summaries:

Reservoir	12-Feb-18 0800 Elev (ft-msl)	Guide Curve (ft-msl)	Forecast 19-Feb-18 Elevation (ft-msl)	Average Net Inflows		Rainfall at Dam	
				7-day cfs (% median)	Feb cfs (% median)	7-day (inches)	Feb (inches)
Falls	250.39	251.5	250.5	451 (37%)	486 (40%)	0.29	0.93
Jordan	218.16	216.0	217.5	2511 (90%)	1993 (71%)	0.65	1.52
Scott	1039.21	1030.0	1030.3	1540 (228%)	1238 (184%)	4.46	4.55
Kerr	298.21	295.5	300.6	7086 (70%)	5997 (59%)	0.39	1.08
Philpott	972.90	971.9	974.4	819 (279%)	584 (199%)	3.82	4.74

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	85	*	*	91	*	*
Jordan	100	100	*	*	100	*	*
Scott	87				100	*	*
Kerr	100				97	*	*
Philpott	100				90	*	*

NOTE: Water Quality, Water Supply, and Power Pool forecasts extend through end of June 2018.

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

Falls: Currently near elev 250.4 ft (1.1 ft below guide curve), up slightly over the past week. Continuing to release about 65 cfs through piggy-back gates. Clayton is currently near 400 cfs and falling. Due to diminished water quality storage, we plan to maintain piggy-back gate releases as long as daily average minimum flows at Clayton exceed 90% of the normal minimum flow target (or about 165 cfs).

Jordan: Currently near elev 218.2 ft (2.2 ft above guide curve) and rising from recent rainfall runoff. Outflows are currently near 2,000 cfs and are expected to remain near that level. Lillington is currently near 1350 cfs and will rise to near 3000 later tonight due to increased outflows from Jordan this morning.

W. Kerr Scott: Currently near elev 1039.5 ft (9.5 ft above guide curve) and peaking after this past weekend's rain. Releases are being increased to near 3000 cfs in response to the rain. Releases will be held near 3000 cfs for two days and then slowly stepped down to bring the lake back near guide curve through the weekend. Wilkesboro is currently near 2400 cfs and rising in response to increased releases.

Kerr/Philpott: Kerr is currently near elev 298.5 ft (3 ft above guide curve), up 2 ft since last week and rising. We are lifting the Drought Operations status at Kerr, in consideration of improved basin conditions (streamflows and lake levels). We are generating minimum energy at Kerr this week, which equates to a weekly average release ~2300 cfs. Based on RFC's forecast streamflows, Kerr is expected to reach 300.5 to 301 ft by the end of the weekend. The guide curve begins to rise March 1st, building storage to support spawning releases in the spring. As such, next week's energy declaration will likely include some secondary energy and result in releases that will target an end-of-week elevation near 300 ft, to maintain full flood storage capacity while trying to maintain some spawning storage heading into March.

Philpott is currently near elev 973.0 ft (2.1 feet above a rising guide curve) and rising. Only one unit is available at Philpott, but generating to meet the full minimum energy commitment this week; resulting releases will average ~150 cfs for the week. Expect to be near elev 974.2 ft by end of the week without additional rain. Anticipate possibly declaring some limited secondary energy next week (depending on lake levels) to keep lake closer to 974 ft (bottom of flood pool).