

Corps Water Management Weekly Status Report – 09 October 2018

Weather Summary:

Dry conditions continued this past week, allowing us to continue bringing lake levels back down to normal levels. However, a quickly developing tropical system (now Hurricane Michael) will make a Florida panhandle landfall on Wednesday and bring 3-6" of rainfall across central NC/VA and 2-3" across western NC/VA on Thursday and into early Friday. Longer term, the October outlook calls for equal chances of below-, near-, and above-normal precip, while the Oct-Nov-Dec continues to call for above-normal precip (and temps).

Tropical Activity: Heavy rainfall expect across NC/VA on Thursday as Hurricane Michael passes through the District.

Reservoir Summaries:

Reservoir	09-Oct-18 0800 Elev (ft-msl)	Guide Curve (ft-msl)	Forecast 15-Oct-18 Elevation (ft-msl)	Average Net Inflows		Rainfall at Dam	
				7-day cfs (% median)	September cfs (% median)	7-day (inches)	Sept (inches)
Falls	252.62	251.5	251.7*	238 (213%)	1939 (1739%)	0.00	5.72
Jordan	221.16	216.0	217.0*	455 (107%)	5646 (1319%)	0.02	11.91
Scott	1030.45	1030.0	1030.3*	593 (144%)	1030 (260%)	0.05	6.21
Kerr	302.03	298.95	299.5*	3722 (121%)	19746 (720%)	0.00	4.70
Philpott	974.80	971.5	973.0*	308 (212%)	808 (646%)	0.08	12.75

***FORECAST LAKE LEVELS DO NOT INCLUDE ANY FORECAST RAINFALL FROM HURRICANE MICHAEL.**

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	95	100	*	*	100	*	*
Jordan	85	100	*	*	100	*	*
Scott	99				100	*	*
Kerr	92				100	*	*
Philpott	93				100	*	*

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

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

[NOTICE: Lake level forecasts provided below are subject to considerable change based on actual rainfall**]**

Falls: Currently near elev 252.6 ft (1.1 ft above guide curve). Releases were decreased to 100 cfs today (Tuesday) in preparation for potential downstream impacts from Hurricane Michael. Clayton is near 2250 cfs and steady, but will fall in response to today's cut backs. [Very preliminary lake level forecast is 259-260 (subject to significant change).]

Jordan: Currently near elev 221.0 ft (5 ft above guide curve). Lake would have been back down near guide curve by this weekend in response to continued high releases, but releases were reduced from 8000 cfs to 200 cfs today in preparation for forecast heavy rain from Hurricane Michael and potential downstream flooding concerns. Lillington is currently near 7500 cfs and starting to fall in response to reduced releases. Fayetteville is fairly steady at a 19.0 ft stage (about 10,000 cfs), but should also start falling overnight in response to reduced releases. [Very preliminary lake level forecast is 231-232 (subject to significant change).]

W. Kerr Scott: Currently near elev 1030.5 ft (0.5 ft above guide curve) and slowly rising. Outflows are currently 450 cfs and steady. Wilkesboro is currently near 680 cfs and steady (minimum flow target at Wilkesboro is 400 cfs). [Very preliminary lake level forecast is 1036-1037 (subject to significant change).]

Kerr/Philpott: Kerr is currently near elev 301.5 ft (2.5 ft above guide curve) and falling. This week's energy declaration starts the betterment plan with 15,000 cfs releases through Friday. Had expected to be back down near elev 300 by end of this week without additional rain; however, several inches of rainfall is expected later this week from Hurricane Michael. [Very preliminary lake level forecast is 305-306 (subject to significant change).]

Philpott is currently near elev 974.75 ft (3.25 ft above guide curve) and falling. Heavy generation this week (near 18 hrs each day) is bringing lake levels back down; expect lake level to be near elev 974.0 by end of this week. [Very preliminary lake level forecast is 975-976 (subject to significant change).] [Note: Single unit operation until future rehab.]