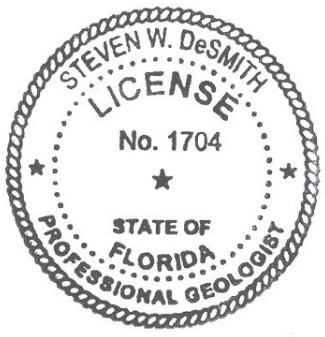
Steven W. DeSmith 07/17/2014



EXECUTIVE SUMMARY

Hydrologic Conditions for June 2014

In June, average rainfall totals were in the normal range in all three regions of the District. The normal range for rainfall is defined by totals that fall on or between the 25th to 75th percentiles of the historical monthly accumulation for each region and where the 50th percentile represents the historical mean. The northern region received an average of 5.55 inches of rainfall, equivalent to the 26th percentile of the historical June record. The central region received an average of 6.42 inches of rainfall, equivalent to the 48th percentile, while the southern region received an average of 6.12 inches of rainfall, equivalent to the 31st percentile of the historical June record. District-wide, rainfall averaged 6.07 inches, equivalent to the 32nd percentile of the historical June record.

During the 12-month period from July 1, 2013 through June 30, 2014, the average rainfall totals in the northern region was classified as “wetter than normal," while the central and southern regions were classified as “normal.” The northern region received an average of 59.84 inches of rainfall, equivalent to the 80th percentile of the historical annual record. The central region received an average of 51.20 inches of rainfall, equivalent to the 46th percentile, while the southern region received an average of 53.31 inches of rainfall, equivalent to the 56th percentile. The District-wide rainfall average of 54.33 inches was equivalent to the 59th percentile of the historical annual record.

Average lake levels in June were below the annual normal range in the Northern, Polk Uplands and Lake Wales Ridge regions of the District, while they were within the annual normal range in the Tampa Bay region. Normal lake levels are defined as levels that fall between the minimum low management level and the minimum flood level. Lake levels in the Northern region increased by an average of 0.02 foot and were 1.34 feet below the base of the annual normal range. Lake levels in the Tampa Bay region increased an average of 0.16 foot and were 1.04 feet above the base of the annual normal range. Lake levels in the Polk Uplands region increased by an average of 0.45 foot and were 0.31 foot below the base of the annual normal range. Average lake levels in the Lake Wales Ridge region increased 0.62 foot and ended the month 1.24 feet below the base of the annual normal range.

Total streamflow in regional index streams was within the normal range in all three regions of the District, in June. Normal streamflow is defined as the flow that falls on or between the 25th and 75th percentiles. Streamflow measured at the Withlacoochee River near Holder station in the northern region was in the 45th percentile. Streamflow in the Hillsborough River near Zephyrhills station in the central region was in the 67th percentile, while total streamflow measured at the Peace River at Arcadia station in the southern region was in the 62nd percentile during June.

In June, groundwater data showed that levels in the intermediate and Floridan aquifers were within the normal range in all three regions of the District. The normal range is defined as the level that falls on or between the 25th and 75th percentiles. The groundwater level in the northern region was in the 61st percentile, while levels in the central and southern regions were in the 69th and 62nd percentiles, respectively.