INTRODUCTION

This map depicts the potentiometric surface of the Upper Floridan aquifer in the St. Johns River Water Management District and vicinity for September 2006. Potentiometric contours are based on water-level measurements collected at multiple wells during the period September 11-29, near the end of the wet season. Some contours are inferred from previous September 2005 water levels. Water levels decreased more than 20 feet in only 1 of the 13 wells measured in southeastern District and vicinity for September 2006 levels ranged from about 19 feet below to about 37 feet above May 2006 water levels. Water levels decreased about a foot higher than the average in May 2006 following below-average rainfall during the previous 9 months.

SUMMARY OF HYDROLOGIC CONDITIONS

Published water levels potentiometric surface ranged from 0 feet below NGVD29 near Fernandina Beach, Florida, to 273 feet above NGVD29 in the Kissimmee River. The Kissimmee River water levels are not shown on this map. Published water levels at 367 wells throughout District and vicinity are available at http://stjohnsrwmd.waterdata.usgs.gov/FL/lakes and http://fl.waterdata.usgs.gov/ FL/lakes. Published water levels are also used to calculate water-level gradients for local and regional groundwater flow.

ADDITIONAL REFERENCE