

Lake Fact Sheet

Lake Holden



Lake Location Data ³

Latitude: 28° 30' 16" N **Longitude:** 81° 23' 15" W
Northing: 1,516,397 **Easting:** 531,700
STR: 11-23-29
Major Drainage Basin: Boggy Creek Drainage Basin
Water Management District: SJRWMD
Commissioner District: 3
Maintenance District: John Young

Orange County



General Information ^{1,2,4,5,6}

Contributing Area (ac): N/A
NHWE (ft NAVD): 89.97 **Surface Area @NHWE (ac):** N/A
Datum Conversion (ft): -1.029
Datum Conversion Source: Orange County Surveyed Benchmark: L1227002
Receiving Water Body: Lake Jessamine
Flowpath: Lake overtops and flows south into Lake Jessamine

Location Map



Correlation of Associated Data IDs ^{7,8,9}

Lake Index ID: 227
EPD Lake ID: BC14
Major Basin Model Node: HOLDEN
Alias: N/A

Contributing Area ^{4,15}



Landuse Distribution Within Contributing Area ^{4,10}



- Residential, Med. Density
- Commercial
- Institutional
- Water
- Wetlands
- Transportation & Utilities

Contributing
Drainage Area
Not Delineated

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FEMA Information ¹¹

1% Chance Flood El. (ft NAVD): 91.8
1% Chance Flood El. Source: FEMA
FEMA Datum Conversion (ft): -0.96
FEMA FIRM Effective Date: 9/25/2009
FEMA FIRM Panel: 12095C0245F, 12095C0410F

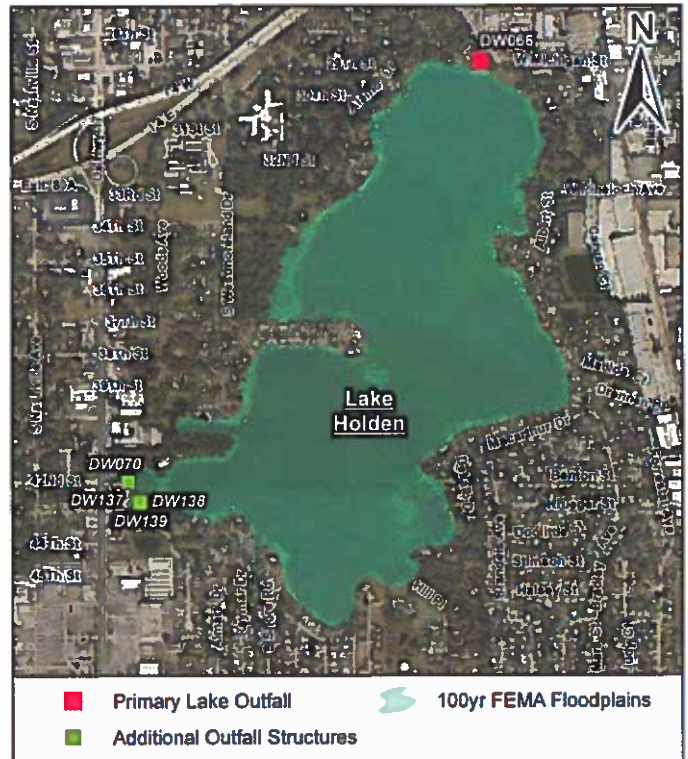
Primary Outfall Data ^{13,14}

Outfall Type: Drainwell
Public Works (PW) ID: DW066
EPD ID: N/A
Orlando ID: N/A
Landlocked: Yes
Outfall Control El. (ft NAVD): N/A
Major Basin Model Link: N/A
Source: 2009 Lake Index

Additional Outfall Structures ¹³

Type	PW ID	Control Elev (ft)
Drainwell	DW070	
Drainwell	DW137	
Drainwell	DW138	
Drainwell	DW139	

Outfall & Floodplain Map ^{12,15}



Primary Outfall Structure



Lake Photograph



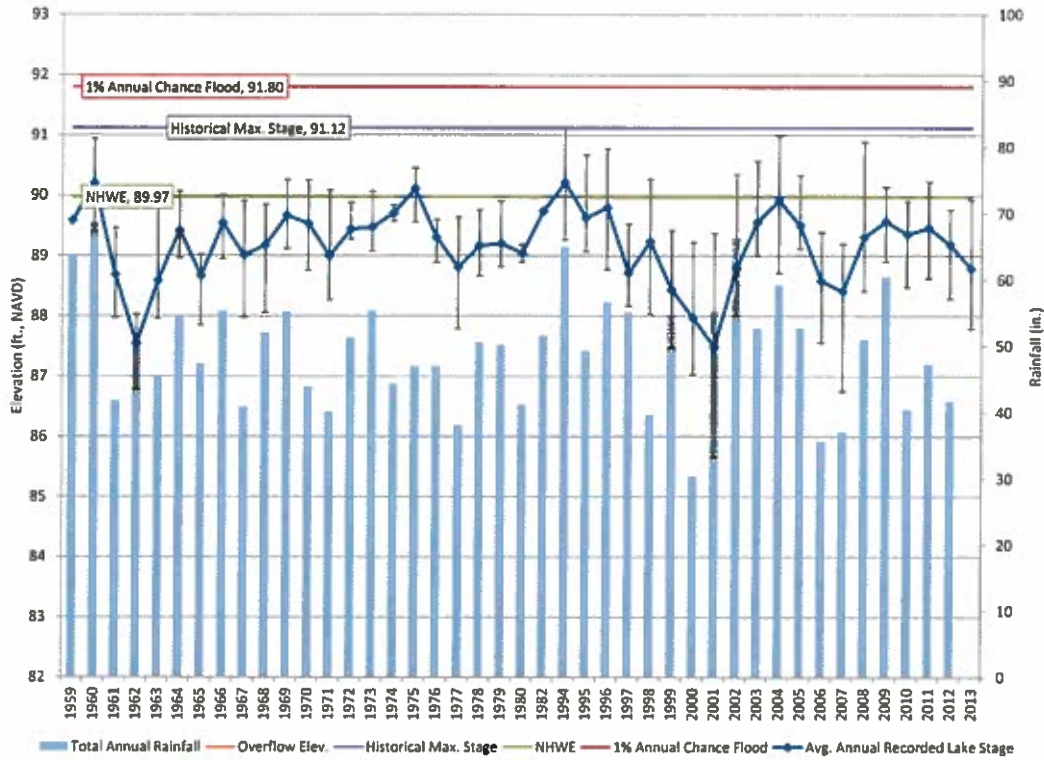
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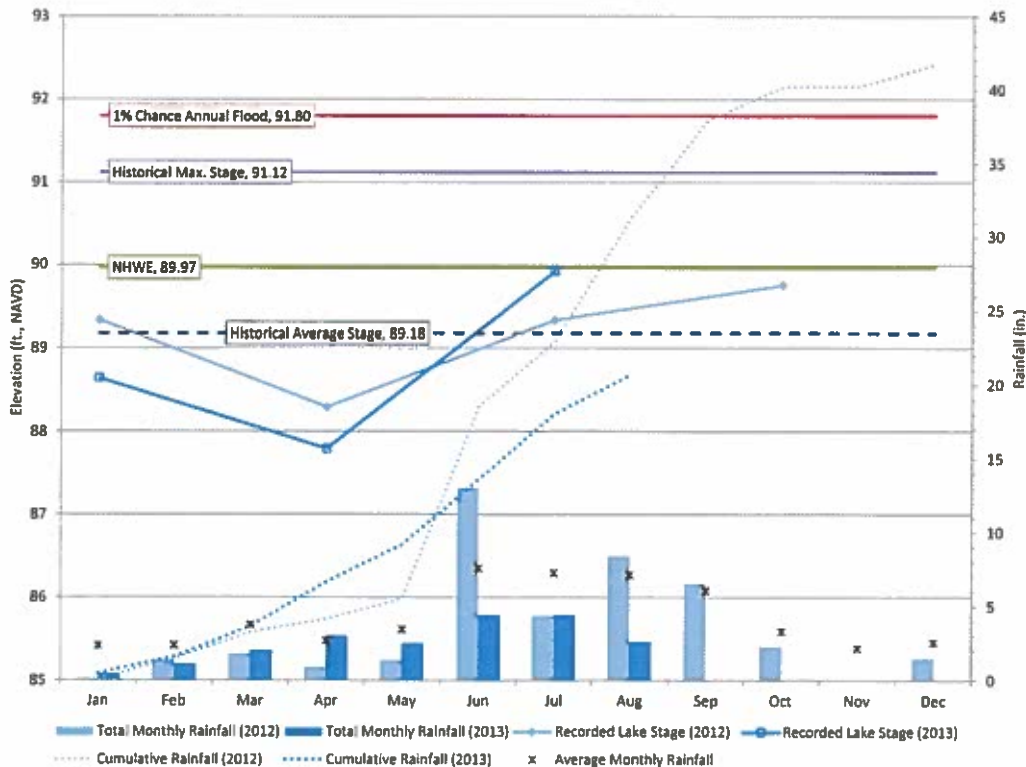
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Historical Lake Levels



Monthly Data



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General Notes:

1. All elevations are referenced to the North American Vertical Datum of 1988 (NAVD 88) unless otherwise noted.
2. Local datum conversion factors represent conversion from NGVD 29 to NAVD 88. Local conversion factors are County-established and are based on conversion factors for local County benchmarks, as recorded by Orange County Survey Department. Where benchmark conversions are not available, datum conversion factors were obtained from NOAA VertCon or USACE Corpscon based on the centroid of each lake. Note that the Local Datum Conversion Factor may differ from that used in FEMA FIS Reports and FIRM Maps.
3. Lake Location Data is based on the centroid of the subject lake.
4. "Contributing Area" is based on existing drainage basin delineations from major drainage basin master stormwater models provided by the County.
5. "Surface Area at NHWE" was determined using Orange County terrain data where available. Where "N/A" is indicated, terrain data was not available at the NHWE or appeared suspect.
6. "Receiving Water" and "Flowpath" are estimated based on available lake outfall, aerial, and terrain data.
7. "Lake Index ID" is the ID associated with the County's Lake Index feature class (Feature class field: LINKFIELD).
8. "EPD ID" designates nomenclature used by the Orange County Environmental Protection Division.
9. "Major Basin Model Node" refers to the Node ID of the associated lake in the watershed master plan stormwater model.
10. Land Use designations were assigned by St. Johns River Water Management District (SJRWMD, 2009) and South Florida Water Management District (SFWMD, 2008). The Landuse Distribution chart includes the lake feature in the water percentage shown.
11. When FEMA elevations were not provided (i.e. Zone X and Zone A), County or SJRWMD Established 1% Chance Flood Elevations were listed, if available. FEMA Datum Conversion is based off the September 25, 2009 Orange County FIS Report for the given watershed, and represent conversion from NGVD 29 to NAVD 88.
12. Floodplains shown were provided by Orange County and are based on the September 25, 2009 Orange County FIS Report. Floodplains outside of the Orange County limits are based on FEMA Q3 floodplain data dated 1993.
13. Lake Outfall Data is based on existing information obtained from Orange County infrastructure databases, Southeastern Survey and Mapping Corp. (SSMC) survey data, model input data, and/or aerial and terrain data.
14. "Major Basin Model Link" refers to the Link ID of the associated outfall in the watershed master plan stormwater model.
15. Aerial images shown within the Orange County boundary were obtained from the Orange County Property Appraiser (dated 2013). Aerial images shown outside the Orange County boundary were obtained from FOOT (dates range from 2011-2012).

Notes Related to Lake Stage Graphs:

1. "Lake Stage Data Not Available" indicates that the lake stage is not monitored by Orange County.
2. Rainfall data is from Orange County Shingle Creek rainfall gage and from the NOAA rainfall gage at Orlando International Airport.
3. Average Monthly Rainfall is the historical average of the total monthly rainfall as recorded by the NOAA Orlando International Airport rainfall gage.
4. Lake stage data is from SFWMD and Orange County.
5. Average Annual Lake Stage is the average of periodically recorded stages within a given year.
6. High-Low bars indicate the maximum and minimum stage recorded within a given year.
7. Recorded Stages indicate the measured stage at a given time and may not represent the actual trend between measurements.
8. Historical Average Stage is based on the arithmetic average of past stage data provided by the County from the period of record for each lake. (1959 - 2013)
9. Historical Maximum Stage is the highest recorded stage within the lake, provided by the County.
10. Graphs are current as of August 2013.