

1. How many acres were farmed?

The extent of farming is estimated to be approximately 15,660 acres (Please refer to pages 2 and 3 of minutes from the Council's February 2015 meeting).

2. What were the original elevations of the farmed land?

Elevations were not shown on a 1919 survey, but a rough approximation of the elevation of the marsh prior to farming is 66.5 feet in the NAVD88 datum (Please refer to the pages 2 and 3 of minutes from the Council's February 2015 meeting)

3. How much subsidence?

Subsidence is estimated to vary from approximately 6.5 feet to 10.5 feet and is attributed to oxidation from years of farming. Highly organic soils oxidized more rapidly resulting in more subsidence (Please refer to the pages 2 and 3 of minutes from the Council's February 2015 meeting).

4. When the farms were operating, how did water from rainfall get from the North Shore to Lake Apopka?

Excess runoff was pumped off the farm fields into Lake Apopka.

5. How important is the drainage basin size to the recharge of Lake Apopka?

The relatively small drainage watershed for Lake Apopka is directly related to the amount of rainfall runoff into the lake. There is a high level of connectivity between Lake Apopka and the surficial aquifer and the Floridan aquifer. There are periods of high recharge and periods of high discharge to and from Lake Apopka, depending on regional groundwater levels.

6. How much rainwater now gets from the North Shore to Lake Apopka?

Areas of the North Shore are managed under various water elevation ranges with guidelines for duration of inundation. When these elevations and/or durations are exceeded, the North Shore area water levels can be drawn down using the Unit 1 pump near the Duda farms, the Unit 2 pump at the west end of Lust Road, and an emergency pump for a total flood release of approximately 170 cfs.

7. Is a pumping station or facility being constructed on the North Shore for irrigation for the City of Apopka?

The City of Apopka is constructing an intake pipe from the North Shore to augment the reclaim facility input under specific conditions. A copy of the memorandum of agreement (with conditions) was emailed to the council members as part of the March 6 agenda packet

8. Within the area that the MFLs are being developed how much water is being pumped from the aquifer? Include all CUPs (Consumptive Use Permits) and estimated use for private wells and irrigation.

A map of groundwater withdrawals and a related large Excel spreadsheet of groundwater CUPs was emailed to the council members as part of the March 6 agenda packet. The Excel spreadsheet contains a list of CUP permit holders in proximity to the Harris Chain of Lakes and Lake Apopka. It shows permit allocations, with some of them reporting actual use. The groundwater models use this information along with all other CUP permit allocations as part of the model process. The estimated private use of wells is included in the model and not included in the email attachment.

SJRWMD Domestic self-supply well estimates (values in mgd per day for UORB boundary)

1995	2000	2001	2005	2006	2007	2008	2009	2010
8.85	6.64	7.32	8.53	7.56	8.47	7.82	8.51	8.90

9. How much water, from the Harris Chain including Lake Apopka, is being pumped from surface water. Include both permitted (CUPs) and estimated personal irrigation for homeowners.

A map of surface water withdrawals and a related large Excel spreadsheet of surface water CUPs was emailed to the council members as part of the March 6 agenda packet. The Excel spreadsheet contains a list of CUP permit holders in proximity to the Harris Chain of Lakes and Lake Apopka. These indicate permit allocations with extrapolation for future years. The District does not have an estimate for private surface water use.

Miscellaneous follow-up from February 6 meeting:

- A question was asked about the frequency of flow measurement for Apopka Spring.
Response: The flow is measured with a transducer every other month.
- Chairman Goerner asked about the City of Apopka treatment plant agreement pulling water from the North Shore (Lust Road).
Response: A copy of the memorandum of agreement between SJRWMD and the City of Apopka was emailed to the council members as part of the March 6 agenda packet.
- A comment was made about previous peat mining east of Apopka Spring and that the process uncovered additional springs.
Response: The Anderson peat mine operated in this area and was purchased by Scotts Hyponex who continued operation until 1997. District staff have no records of other addition springs, other than Apopka Spring.