

Aerial photography shown on this sheet, obtained October 8, 1979, covers part of the Rocky Creek and Sweetwater Creek basins. Flooded areas were delineated using supplemental aerial photography of August 24 and October 6, 1979, and photogrammetric maps with 1-foot contours. The inundated area boundary around gaged lakes was outlined on the 1-foot contour map at the recorded maximum stage. The inundated area boundary around un-gaged lakes and low lying depressions were based on observed high-water marks or were estimated from the difference in altitude of the water on the date of photography and the maximum stage recorded on nearby gaged lakes. About 10 percent of the photography area, also northwest corner, is in the Rocky Creek basin; remaining coverage is in the Sweetwater Creek basin. The State of Florida map below shows location of the study area and an inset map shows location of the area covered by this sheet and the other 11 inundation maps in this report.

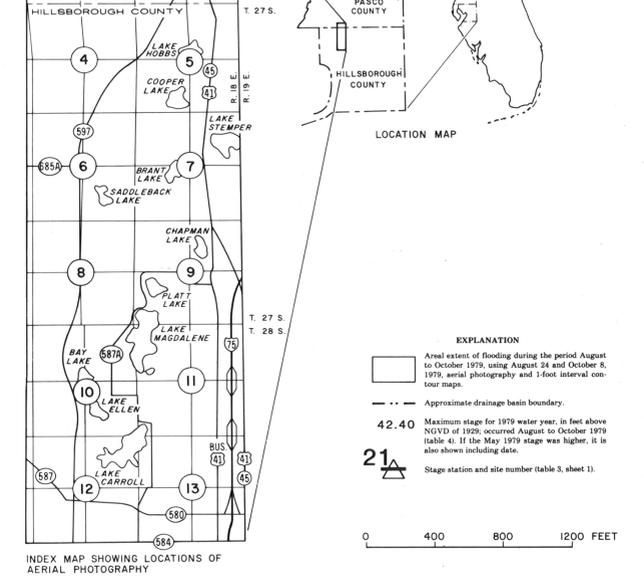
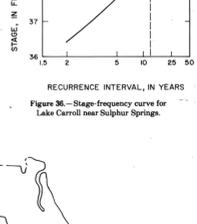
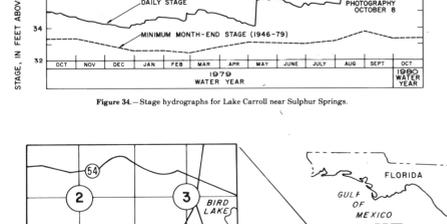
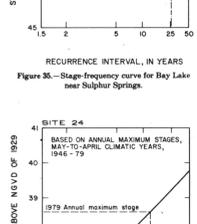
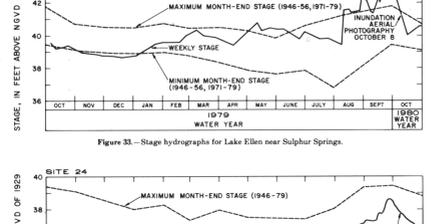
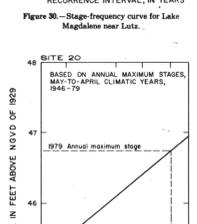
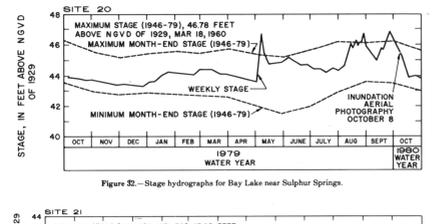
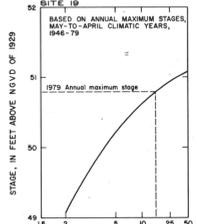
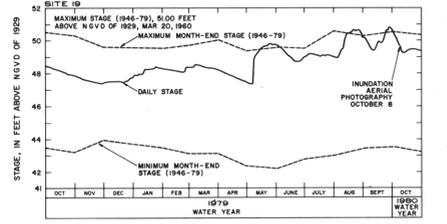
Carrollwood Village (fig. 2, table 1) is located west of Dale Mabry Highway along the entire west bank of this map. Parts of other developments east of Dale Mabry Highway include Carrollwood, Lake Ellen, Reynolds West, Tarwood, Lake Magdalene Estates, Brentwood, Arlington, and Cherry Creek. There was no known flooding of homes in the area covered by this sheet.

Stage records have been collected on Lake Magdalene, Bay Lake, and Lake Carroll since 1946 (sites 19, 20, and 24, fig. 1). Lake Ellen records are also available for Lake Ellen (site 21) for the period of 1946-56 and 1971 to present, and for Lake Ligny (site 23) since 1968. Hydrographs of maximum and minimum month-end stages and 1979 stage for Lake Magdalene, Bay Lake, and Lake Ellen are shown on figures 29, 32, 33, and 34, respectively.

All lake stages are in feet above the National Geodetic Vertical Datum of 1929 (NGVD) of 1929. Maximum 1979 stages for Lake Magdalene, Bay, Ligny, and Carroll occurred in late September. The maximum 1979 stages for Lake Ellen and Ligny were the highest of record. The maximum stages of record for Lake Magdalene and Bay Lake occurred in March of 1960, and the maximum of record for Lake Carroll occurred in September 1947.

The maximum 1979 stage of 50.80 feet for Lake Magdalene is expected to be exceeded about once every 15 years, on the average (fig. 30). According to the stage-frequency curve shown in figure 30, the 1979 maximum stage of 46.74 feet for Bay Lake is expected to be exceeded about once every 25 years. The maximum 1979 stage of 43.05 feet for Lake Ellen was affected by outlet obstructions that obstructed outflow and, therefore, a recurrence interval was not determined. The 1979 maximum stage of 38.85 feet for Lake Carroll is expected to be exceeded about once every 15 years, on the average, according to the stage-frequency curve in figure 36.

Flooding in other areas of Rocky and Sweetwater Creek basins are shown on sheets 2-9 and on sheets 7-9 and 11-15, respectively.



**EXPLANATION**

□ Annual extent of flooding during the period August to October 1979, using August 24 and October 8, 1979, aerial photography and 1-foot interval contour maps.

--- Approximate drainage basin boundary.

42.40 Maximum stage for 1979 water year, in feet above NGVD of 1929, occurred August to October 1979 (table 4). If the May 1979 stage was higher, it is also shown including date.

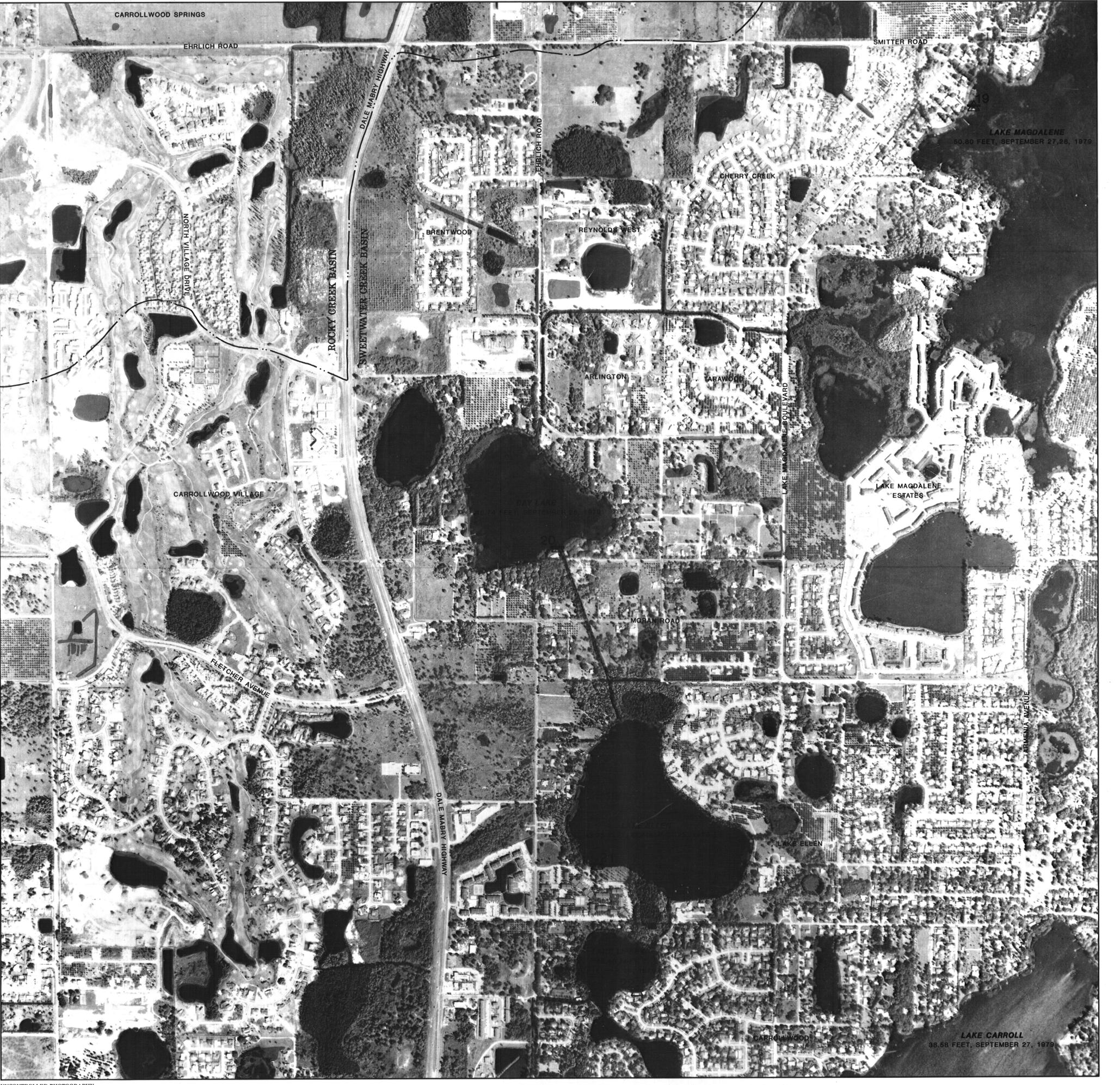
21 Stage station and site number (table 3, sheet 1).

0 400 800 1200 FEET

**FLOOD DELINEATION BY SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT USING PHOTOGAMMETRIC METHODS**

**AERIAL PHOTOGRAPHY BY KUCERA AND ASSOCIATES, INC. (SHEETS 2-11, OCTOBER 8, 1979) AND ABRAM AERIAL SURVEY (SHEETS 12, 13, OCTOBER 5, 1979)**

**UNDER CONTRACT WITH SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT**



UNCONTROLLED PHOTOGRAPHY